

## **RESEARCH LIST 1988-2024**

## C.1 Publications/Proceedings

## 1988

1. New synthesis and uses of high specific surface area SiC as a catalytic support that is chemically inert and has high thermal resistance.  
Ledoux M. J., Hantzer S., Pham-Huu C., Guille J., Desaneaux M. P.  
**Journal of Catalysis**, 114, 176-185, 1988.

## 1990

2. Correlation between low-pressure thiophene HDS and high-pressure dibenzothiophene HDS.  
Ledoux M. J., Pham-Huu C., Segura Y., Luck F.  
**Journal of Catalysis**, 121, 70-76, 1990.
3. Substitution du platine et du rhodium par des carbures de molybdène et de tungstène pour la catalyse.  
Ledoux M. J., Pham-Huu C., Marin S., Weibel M., Guille J.  
**Compte Rendu de l'Académie des Sciences**, Tome 310, Série II, 707-713, 1990.

## 1992

4. Compared activities of platinum and high specific surface Mo<sub>2</sub>C and WC catalysts for reforming reactions. Part I: Catalyst activation and stabilization. Reaction of *n*-hexane.  
Ledoux M. J., Pham-Huu C., Dunlop H. M., Guille J.  
**Journal of Catalysis**, 134, 383-398, 1992.
5. High specific surface area carbides of silicon and transition metals for catalysis.  
Ledoux M. J., Pham-Huu C.  
**Catalysis Today**, 15, 263-284, 1992.

## 1993

6. Reactions of 2- and 3-methylpentane, methylcyclopentane, cyclopentane, and cyclohexane on activated Mo<sub>2</sub>C.  
Pham-Huu C., Ledoux M. J., Guille J.  
**Journal of Catalysis**, 143, 249-261, 1993.
7. *n*-Hexane isomerization on high specific surface Mo<sub>2</sub>C activated by an oxidative treatment.  
Ledoux M. J., Pham-Huu C., Dunlop H. M., Guille J.  
**Proceedings of the 10th International Congress on Catalysis**, Elsevier, 75B, Guzzi L. et al., Eds., 955-964, 1993.

## 1994

8. Synthesis and characterization of Pt-Rh supported on SiC and SiC doped with Ce. Catalytic activity for the automotive exhaust-pipe reaction.  
Pham-Huu C., Marin S., Ledoux M. J., Weibel M., Ehret G., Benaissa M., Peschiera E., Guille J.  
**Applied Catalysis B**, 4, 45-63, 1994.

9. *n*-Heptane isomerization on oxygen-modified Mo<sub>2</sub>C.  
Blekkann E. A., Pham-Huu C., Ledoux M. J., Guille J.  
**Industrial Engineering Chemistry Research**, 33, 1657-1664, 1994.

## 1995

10. Physical characterization of molybdenum oxycarbide catalyst: HRTEM, XRD and XPS.  
Delporte P., Meunier F., Pham-Huu C., Vennégues P., Ledoux M. J.  
**Catalysis Today**, 23, 251-268, 1995.
11. Characterization of molybdenum oxycarbide as an active catalyst for hydrocarbons isomerization.  
Ledoux M. J., Delporte P., Pham-Huu C.  
**Proceedings of the Materials Research Society**, Iglesia E., Lednor P. W., Nagaki D., Thompson L. T., Eds., 368, 57-68, 1995.
12. A sub-nanometer structural study of Pt-Rh catalysts supported on Ce doped SiC.  
Benaissa M., Pham-Huu C., Crouzet C., Werckmann J., Ledoux M. J.  
**Catalysis Today**, 23, 283-298, 1995.
13. Reaction of *n*-heptane and methylcyclopentane over an oxygen-modified molybdenum carbide catalyst. Study of coke formation, catalyst deactivation and regeneration.  
Pham-Huu C., York A. P. E., Benaissa M., Del Gallo P., Ledoux M. J.  
**Industrial Engineering Chemistry Research**, 34, 1107-1113, 1995.
14. Molybdenum oxycarbide isomerization catalyst for cleaner fuel production.  
Ledoux M. J., Del Gallo P., Pham-Huu C., York A. P. E.  
**Proceedings of the 1st World Conference on Environmental Catalysis**, Centi G. et al., Eds., EFCE Publications, 97-100, 1995.
15. Evidence of a new very active and selective catalyst for hydrocarbon isomerization: molybdenum oxycarbide.  
Ledoux M. J., Pham-Huu C., Blekkann E. A., York A. P. E., Delporte P., Guille J., Fonseca A., Derouane E. G.  
**Proceedings of the 2nd TOCAT**, Studied Surface Science and Catalysis, Elsevier, Vol. 92, 81-87, 1995.
16. *n*-Hexane and *n*-heptane isomerization at atmospheric and medium pressure on MoO<sub>3</sub>-carbon-modified supported on SiC and  $\gamma$ -Al<sub>2</sub>O<sub>3</sub>.  
Pham-Huu C., Peschiera E., Del Gallo P., Ledoux M. J.  
**Applied Catalysis A**, 132, 77-97, 1995.

## 1996

17. Catalysis with carbides.  
Ledoux M. J., Pham-Huu C., Chianelli R. R.  
**Current Opinion in Solid State and Materials Science**, 1, 96-100, 1996.
18. Molybdenum oxycarbide isomerization catalysts for cleaner fuel production.  
Ledoux M. J., Del Gallo P., Pham-Huu C., York A. P. E.  
**Catalysis Today**, 27, 145-150, 1996.
19. Effet de la température et de la pression partielle d'hydrocarbure sur la réaction d'isomérisation du *n*-hexane sur oxycarbure de molybdène.  
Delporte P., Pham-Huu C., Ledoux M. J.  
**Journal de Chimie Physique**, 93, 507-535, 1996.
20. Effect of organosulfur compounds on catalysts for the *n*-heptane isomerization reaction at medium pressure: Mo<sub>2</sub>C-oxygen-modified, MoO<sub>3</sub>-carbon-modified, Pt/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Pt/ $\beta$ -zeolithe.  
York A. P. E., Pham-Huu C., Del Gallo P., Blekkan E. A., Ledoux M. J.  
**Industrial Engineering Chemistry Research**, 35, 672-682, 1996.
21. Effect of pyridine and piperidine on catalysts for the *n*-heptane isomerization reaction: MoO<sub>3</sub>-carbon-modified and Pt/ $\beta$ -zeolithe at medium pressure.  
Del Gallo P., Pham-Huu C., York A. P. E., Ledoux M. J.  
**Industrial Engineering Chemistry Research**, 35, 3302-3310, 1996.
26. Synthesis and characterization of high specific surface area vanadium carbide. Application to catalytic oxidation.  
Meunier F., Delporte P., Heinrich B., Bouchy C., Crouzet C., Pham-Huu C., Panissod P., Lerou J. J., Mills P. L., Ledoux M. J.  
**Journal of Catalysis**, 169, 33-44, 1997.
27. Selective *n*-butane isomerization over high specific surface area MoO<sub>3</sub>-carbon-modified catalyst.  
Del Gallo P., Meunier F., Pham-Huu C., Crouzet C., Ledoux M. J.  
**Industrial Engineering Chemistry Research**, 36, 4166-4175, 1997.
28. High surface area silicon carbide doped with zirconium for use as heterogeneous catalyst support.  
Ledoux M. J., Pham-Huu C., Bouchy C., Del Gallo P., Estournès C., Crouzet C., Heinrich B.  
**Proceedings of the Materials Research Society**, Ledoux M. J., Lednor P. W., Nagaki D., Thompson L. T., Eds., 454, 35-40, 1997.

## 1997

22. Molybdenum oxycarbide hydrocarbon isomerization catalysts: cleaner fuels for the future.  
York A. P. E., Pham-Huu C., Del Gallo P., Ledoux M. J.  
**Catalysis Today**, 35, 51-57, 1997.
23. Effect of the reaction temperature and hydrocarbon partial pressure on the activity of carbon-modified MoO<sub>3</sub> for *n*-hexane isomerization.  
Delporte P., Pham-Huu C., Ledoux M. J.  
**Applied Catalysis A**, 149, 151-180, 1997.
24. Effect of the total activation pressure on the structural and catalytic performance of the SiC supported MoO<sub>3</sub>-carbon-modified catalyst for the *n*-heptane isomerization.  
Del Gallo P., Pham-Huu C., Bouchy C., Estournès C., Ledoux M. J.  
**Applied Catalysis A**, 156, 131-150, 1997.
25. Tentative structure of molybdenum oxycarbide.  
Oyama S. T., Delporte P., Pham-Huu C., Ledoux M. J.  
**Chemistry Letters**, 949-950, 1997.
29. Selective branching of long chain *n*-alkanes.  
Roy S., Bouchy C., Pham-Huu C., Crouzet C., Ledoux M. J.  
**Proceedings of the AIChE Meetings**, 201-207, 1998.
30. Preparation and characterization of the hollow high surface area SiC microfibers containing no whiskers and chromium carbide. Catalytic applications.  
Ledoux M. J., Keller N., Lamprell H., Pham-Huu C., Heinrich B., Estournès C., Harlin M. E.  
**Proceedings of the 7th International Symposium for the Preparation of Heterogeneous Catalysts, Studied Surface Science and Catalysis**, 118, 855-868, 1998.
31. High temperature H<sub>2</sub>S removal over high specific surface area  $\alpha$ -SiC supported iron oxide sorbent. Part I. Preparation and characterization.  
Pham-Huu C., Estournès C., Heinrich B., Ledoux M. J.  
**RCS Faraday Transactions**, 94, 3, 435-442, 1998.
32. High temperature H<sub>2</sub>S removal over high specific surface area  $\alpha$ -SiC supported iron oxide sorbent. Part II. Sulfidation and regeneration.  
Pham-Huu C., Crouzet C., Estournès C., Ledoux M. J.  
**RCS Faraday Transactions**, 94, 3, 443-450, 1998.

## 1999

33. Influence of the reaction conditions on the formation of a high surface area silicon carbide for use as heterogeneous support material.  
Keller N., Pham-Huu C., Roy S., Ledoux M. J., Estournès C., Guille J. L.  
**Journal of Materials Science**, 34, 3189-3202, 1999.

34. High specific surface area microporous SiC doped with zirconium for use as heterogeneous catalyst support. Pham-Huu C., Bouchy C., Dintzer T., Estournès C., Ehret G., Ledoux M. J. **Applied Catalysis A**, 180, 385-397, 1999.
35. Part I. *n*-Butane dehydrogenation on unsupported MoO<sub>3</sub>-carbon-modified. Effect of steam on the catalyst stability. Ledoux M. J., Meunier F., Heinrich B., Pham-Huu C., Harlin M. E., Krause A. O. I. **Applied Catalysis A**, 181, 157-170, 1999.
36. Part II. *n*-Butane dehydrogenation over MoO<sub>3</sub>-carbon-modified supported on SiC catalyst. Harlin M. E., Krause A. O. I., Heinrich B., Pham-Huu C., Ledoux M. J. **Applied Catalysis A**, 185, 311-322, 1999.
37. Direct oxidation of H<sub>2</sub>S into S. New catalysts and processes based on SiC support. Keller N., Pham-Huu C., Crouzet C., Ledoux M. J., Savin-Poncet S., Nougayrède J. B., Bousquet J. **Catalysis Today**, 53, 535-542, 1999.
38. Preparation and characterization of SiC microtubes. Keller N., Pham-Huu C., Ledoux M. J., Estournès C., Ehret G. **Applied Catalysis A**, 187, 255-268, 1999.
39. Low-temperature selective oxidation of hydrogen sulfide into elemental sulfur on a NiS<sub>2</sub>/SiC catalyst. Keller N., Pham-Huu C., Estournès C., Ledoux M. J. **Catalysis Letters**, 61, 151-155, 1999.
40. Characterization of the MoO<sub>3</sub>-carbon-modified supported on SiC deactivated in *n*-butane dehydrogenation reaction. Heinrich B., Harlin M. E., Pham-Huu C., Krause A. O. I., Ledoux M. J. **Proceedings of the 8th International Symposium on Catalyst Deactivation**, Studied Surface Science and Catalysis, 126, pp. 163-170, 1999.
- 2000**
41. Selective oxidation of H<sub>2</sub>S in the Claus tail-gas over SiC supported NiS<sub>2</sub> catalyst. Keller N., Pham-Huu C., Ledoux M. J., Nougayrède J. B., Savin-Poncet S., Bousquet J. **Catalysis Today**, 61, 157-163, 2000.
42. Microstructure and characterization of a highly selective catalyst for the isomerization of alkanes: a molybdenum oxycarbide. Bouchy C., Pham-Huu C., Heinrich B., Chaumont C., Ledoux M. J. **Journal of Catalysis**, 190, 92-103, 2000.
43. The role of hydrogen in the formation of the molybdenum oxycarbide phase. Bouchy C., Pham-Huu C., Ledoux M. J. **Journal of Molecular Catalysis A: Chemical**, 162, 317-334, 2000.
44. Silicon carbide supports. New improvements in sulphur recovery. Ledoux M. J., Pham-Huu C., Keller N., Savin-Poncet S., Nougayrède J. B., Bousquet J., Boll W., Morgenroth R. **Sulphur**, 269, 41-47, 2000.
45. Carbon nanofibers supported palladium catalyst for liquid phase reactions. An active and selective catalyst for hydrogenation of C=C bond. Pham-Huu C., Keller N., Charbonnière L., Ziessel R., Ledoux M. J. **Chemical Communications**, 19, 1871-1872, 2000.
46. Silicon carbide supported NiS<sub>2</sub> catalyst for the selective oxidation of H<sub>2</sub>S in Claus tail-gas. Keller N., Pham-Huu C., Ledoux M. J., Nougayrède J. B., Savin-Poncet S., Bousquet J. **Studied Surface Science and Catalysis**, 130, pp. 2423-2428, 2000.
47. Selective isodewaxing catalyst based on the molybdenum oxycarbide. Roy S., Pham-Huu C., Bouchy C., Crouzet C., Ledoux M. J. **Studied Surface Science and Catalysis**, 130, pp. 2891-2896, 2000.
- 2001**
48. *In situ* TPO, TPD and XRD characterization of a molybdenum oxycarbide catalyst during *n*-butane isomerization. Bouchy C., Pham-Huu C., Heinrich B., Derouane E. G., Abb Hamid-Derouane S. B., Ledoux M. J. **Applied Catalysis A**, 215, 175-184, 2001.
49. Continuous process for selective oxidation of H<sub>2</sub>S into elemental sulfur above dewpoint over SiC supported iron oxide catalyst. Keller N., Pham-Huu C., Ledoux M. J. **Applied Catalysis A**, 217, 205-217, 2001.
50. Decoration of silicon carbide nanotubes by Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub> spinel nanoparticles. Estournès C., Pham-Huu C., Keller N., Ledoux M. J. **Proceedings of the Materials Research Society**, 658, pp. GG6.4.1-GG6.4.6, 2001.
51. Carbon nanofibers supported palladium catalyst for liquid-phase reactions. An active and selective catalyst for hydrogenation of cinnamaldehyde into hydrocinnamaldehyde. Pham-Huu C., Keller N., Ehret G., Charbonnière L., Ziessel R., Ledoux M. J. **Journal of Molecular Catalysis A: Chemical**, 170, 155-163, 2001.
52. The first preparation of silicon carbide nanotubes by shape memory synthesis and their catalytic potential. Pham-Huu C., Keller N., Ehret G., Ledoux M. J. **Journal of Catalysis**, 200, 400-410, 2001.

53. Silicon carbide: a novel catalyst support for heterogeneous catalysis.  
Ledoux M. J., Pham-Huu C.  
**CaTTech**, Vol. 5(4), 226-246, 2001.
54. High yield butane to maleic anhydride direct oxidation on VPO supported on heat conductive supports:  $\beta$ -SiC, Si<sub>3</sub>N<sub>4</sub> and BN.  
Ledoux M. J., Crouzet C., Pham-Huu C., Turines V., Kourtakis K. D., Mills P. L., Lerou J. J.  
**Journal of Catalysis**, 203, 495-508, 2001.
55. Selective oxidation of H<sub>2</sub>S into elemental sulfur over SiC supported iron based catalyst.  
Ledoux M. J., Pham-Huu C., Keller N.  
**Proceedings of the 4th World Congress on Oxidation Catalysis**, 407-410, 2001.
- ## 2002
56. Large scale synthesis of carbon nanofibers by catalytic decomposition of ethane over nickel nanoclusters decorated carbon nanotubes catalyst.  
Pham-Huu C., Keller N., Roddatis V. V., Mestl G., Schlögl R., Ledoux M. J.  
**Physical Chemistry-Chemical Physics**, 4, 514-521, 2002.
57. Le carbure de silicium: un nouveau support pour la catalyse hétérogène.  
Pham-Huu C., Keller N., Ledoux M. J.  
**Actualité Chimique**, 10, 8-18, 2002.
58. Low temperature use of SiC-supported NiS<sub>2</sub>-based catalysts for selective H<sub>2</sub>S oxidation. Role of SiC surface heterogeneity and nature of the active phase.  
Keller N., Pham-Huu C., Estournès C., Ledoux M. J.  
**Applied Catalysis A**, 234, 191, 2002.
59. Iridium supported on carbon nanofibers/graphite felt composite catalyst for hydrazine decomposition.  
Vieira R., Pham-Huu C., Keller N., Ledoux M. J.  
**Chemical Communications**, 954-955, 2002.
60. Potential applications of carbon and SiC nanostructures in catalysis.  
Nhut J. M., Vieira R., Pesant L., Tessonnier J. P., Keller N., Ehret G., Pham-Huu C., Ledoux M. J.  
**Catalysis Today**, 76, 11-32, 2002.
61. Synthesis of CoFe<sub>2</sub>O<sub>4</sub> nanowire filled carbon nanotubes. A new concept about the confinement effect induced by the carbon nanotubes.  
Pham-Huu C., Estournès C., Keller N., Ehret G., Ledoux M. J.  
**Chemical Communications**, 1882-1883, 2002.
62. Beta zeolite supported on a macroscopic preshape SiC as a high performance catalyst for liquid-phase alkylation.  
Winé G., Tessonnier J. P., Pham-Huu C., Ledoux M. J.  
**Chemical Communications**, 2418-2419, 2002.
63. Large scale synthesis of carbon nanofibers by catalytic decomposition of hydrocarbon.  
Pesant L., Winé G., Vieira R., Leroi P., Keller N., Pham-Huu C., Ledoux M. J.  
**Studies in Surface Science and Catalysis**, Vol. 143, 193-200, 2002.
64. Carbon nanotubes: a highly selective support for the C=C bond hydrogenation.  
Tessonnier J. P., Pesant L., Ehret G., Pham-Huu C., Ledoux M. J.  
**Studies in Surface Science and Catalysis**, Vol. 143, 697-704, 2002.
65. Carbon nanotubes-based catalysts: new perspectives for the low-temperature H<sub>2</sub>S removal.  
Nhut J. M., Vieira R., Keller N., Pham-Huu C., Boll W., Ledoux M. J.  
**Studies in Surface Science and Catalysis**, Vol. 143, 983-991, 2002.
- ## 2003
66. Silicon carbide supported beta zeolite for fixed bed Friedel-Crafts reactions.  
Winé G., Matta J., Tessonnier J. P., Pham-Huu C., Ledoux M. J.  
**Chemical Communications**, 530-531, 2003.
67. Isothermal Diesel Carbon Particles (DCPs) catalytic combustion over Pt/ $\alpha$ -SiC catalyst.  
Pesant L., Matta J., Garin F., Bernhardt P., Pham C., Pham-Huu C., Ledoux M. J.  
**Proceedings of the Sixth International Congress on Catalysis and Automotive Pollution Control (CAPoC 6)**, pp. 153-163, 2003.
68. Pd/SiC exhaust gas catalyst for heavy-duty engines. Improvement of catalytic performances by controlling the location of the active phase on the support.  
Nhut J. M., Pesant L., Keller N., Pham-Huu C., Ledoux M. J.  
**Proceedings of the Sixth International Congress on Catalysis and Automotive Pollution Control (CAPoC 6)**, pp. 531-542, 2003.
69. Zeolite supported on SiC as catalyst for Friedel-Crafts reaction.  
Winé G., Tessonnier J. P., Matta J., Rigolet S., Marichal C., Pham-Huu C., Ledoux M. J.  
**Proceedings of the 12<sup>th</sup> Brazilian Congress on Catalysis**, 132-137, 2003.
70. Large scale synthesis of carbon nanofibers for use as liquid-phase catalyst support.  
Pesant L., Winé G., Matta J., Vieira R., Keller N., Pham-Huu C., Ledoux M. J.  
**Proceedings of the 12<sup>th</sup> Brazilian Congress on Catalysis**, 370-375, 2003.

71. Carbon nanofibers with macroscopic shaping for use as catalyst support. Towards the design of catalyst with minimum mass transfer limitation.  
Vieira R., Matta J., Nhut J. M., Tessonier J. P., Pham-Huu C., Keller N., Ledoux M. J.  
**Proceedings of the 12<sup>th</sup> Brazilian Congress on Catalysis**, 419-424, 2003.
72. Mesoporous carbon nanotubes for use as support for catalysis and as nanosized reactors for inorganic material synthesis.  
Nhut J. M., Pesant L., Tessonier J. P., Winé G., Guille J., Pham-Huu C., Ledoux M. J.  
**Applied Catalysis A**, 254, 345-363, 2003.
73. New catalytic phenomena on nanostructured (fibres and tubes) catalysts.  
Ledoux M. J., Vieira R., Pham-Huu C., Keller N.  
**Journal of Catalysis**, 216, 333-342, 2003.
74. New catalysts based on silicon carbide support for improvements in the sulfur recovery. I. Silicon carbide as support for the selective H<sub>2</sub>S oxidation.  
Nhut J. M., Keller N., Pham-Huu C., Ledoux M. J., Vieira R.  
**Brazilian Journal of Catalysis**, 16, 202, 2003.
75. New catalysts based on silicon carbide support for improvements in the sulfur recovery. II. New silicon carbide nanotubes as catalyst support for the trickle-bed H<sub>2</sub>S oxidation.  
Nhut J. M., Keller N., Pham-Huu C., Ledoux M. J., Vieira R.  
**Brazilian Journal of Catalysis**, 16, 514, 2003.
76. Novos materiais a base de nanofibras de carbono como suporte de catalisador na decomposicao catalytica da hidrazina.  
Vieira R., Pham-Huu C., Keller N., Ledoux M. J.  
**Quimica Nova**, 26, 665-669, 2003.
77. Synthesis and characterisation of medium surface area silicon carbide nanotubes.  
Keller N., Pham-Huu C., Ehret G., Keller V., Ledoux M. J.  
**Carbon**, 41, 2131-2139, 2003.
78. Mild synthesis of CoFe<sub>2</sub>O<sub>4</sub> nanowires using carbon nanotube template. A high coercivity material at room temperature.  
Keller N., Pham-Huu C., Shiga T., Estournès C., Grenèche J. M., Ledoux M. J.  
**Journal of Magnetism and Magnetic Materials**, 272, 1642-, 2003.
79. Carbon nanotubes as template for CoFe<sub>2</sub>O<sub>4</sub> nanowires synthesis.  
Pham-Huu C., Keller N., Estournès C., Ehret G., Grenèche J. M., Ledoux M. J.  
**Physical Chemistry-Chemical Physics**, 51, 3716-3723, 2003.
- 2004**
80. Isothermal Diesel Carbon Particles (DCPs) catalytic combustion over Pt/□-SiC catalyst.  
Pesant L., Matta J., Pham-Huu C., Garin F., Bernhardt P., Pham C., Ledoux M. J.  
**Topics in Catalysis**, 30-31, 281-286, 2004.
81. Pd/SiC exhaust gas catalyst for heavy-duty engines. Improvement of catalytic performances by controlling the location of the active phase on the support.  
Nhut J. M., Pesant L., Keller N., Pham-Huu C., Ledoux M. J.  
**Topics in Catalysis**, 30-31, 353-358, 2004.
82. A high performance Pt/β-SiC catalyst for catalytic combustion of Diesel Carbon Particulates (DCPs).  
Pesant L., Matta J., Garin F., Ledoux M. J., Bernhardt P., Pham C., Pham-Huu C.  
**Applied Catalysis A: General**, 266, 21-27, 2004.
83. Carbon nanotubes as a template for mild synthesis of magnetic CoFe<sub>2</sub>O<sub>4</sub> nanowires.  
Keller N., Pham-Huu C., Estournès C., Grenèche J. M., Ehret G., Ledoux M. J.  
**Carbon**, 42, 1389-1393, 2004.
84. Ni/SiC catalyst: a new and performant catalyst for catalytic partial oxidation of methane into synthesis gas.  
Leroi P., Madani B., Pham-Huu C., Ledoux M. J., Savin-Poncet S., Bousquet J. L.  
**Catalysis Today**, 91-92, 53-58, 2004.
85. Carbon nanotubes as nanosized catalytic reactor for the selective oxidation of H<sub>2</sub>S into elemental sulfur.  
Nhut J. M., Nguyen P., Pham-Huu C., Keller N., Ledoux M. J.  
**Catalysis Today**, 91-92, 91-97, 2004.
86. Beta zeolite nanowire synthesis under non-hydrothermal conditions using carbon nanotubes as template.  
Pham-Huu C., Winé G., Tessonier J. P., Rigolet S., Marichal C., Ledoux M. J.  
**Carbon**, 42, 1941-1946, 2004.
87. Synthesis and characterisation of carbon nanofibers with macroscopic shaping formed by catalytic decomposition of C<sub>2</sub>H<sub>4</sub>/H<sub>2</sub> over nickel catalyst.  
Vieira R., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis A: General**, 274, 1-8, 2004.
88. Sintesi di nanotubi di carbonio CNT su catalizzatori a base di Fe supportato.  
Gulino G., Milone C., Galvagno S., Pham-Huu C., Ledoux M. J.  
**Nanotech**, 1, 13-15, 2004.

## 2005

89. Synthesis and characterisation of 1D Y-zeolite confined inside multi-walled carbon nanotubes. Lacroix M., Louis B., Pham-Huu C., Ledoux M. J. **Studied Surface Science and Catalysis**, 158, 169-174, 2005.
90. Innovative tool for determining the number of Brønsted acid sites in solid acids: towards the chemical composition of zeolites. Louis B., Tessonnier J. P., Walspurger S., Pham-Huu C., Sommer J., Ledoux M. J. **Studied Surface Science and Catalysis**, 158, 711-716, 2005.
91. Ga-SBA-15: a new and active Friedel-Crafts acylation catalyst. El Berrichi Z., Cherif L., Tessonnier J. P., Louis B., Fraissard J., Ledoux M. J., Pham-Huu C. **Studied Surface Science and Catalysis**, 158, 1413-1420, 2005.
92. Carbon nanotubes as a 1D template for the synthesis of air sensitive materials. Tessonnier J. P., Estournès C., Leuvre C., Pham-Huu C., Ledoux M. J. **Catalysis Today**, 102-103, 29-33, 2005.
93. High yield synthesis of multi-walled carbon nanotubes by catalytic decomposition of ethane over iron supported on alumina catalyst. Louis B., Gulino G., Amadou J., Vieira R., Galvagno S., Centi G., Pham-Huu C., Ledoux M. J. **Catalysis Today**, 102-103, 23-28, 2005.
94. Mecanismo de crescimento de nanofibras de carbono sobre Ni/C. Vieira R., Pham-Huu C., Amadou J., Ledoux M. J. **13<sup>th</sup> Brazilian Congress of Catalysis**, 748-752, 2005.
95. Electrocatalytic performance of nanostructured platinum-carbon materials. Gangeri M., Centi G., Perathoner S., Vieira R., Pham-Huu C., Ledoux M. J. **Catalysis Today**, 102-103, 50-57, 2005.
96. Carbon nanostructures for catalytic applications. Ledoux M. J., Pham-Huu C. **Catalysis Today**, 102-103, 2-14, 2005.
97. Performance comparison of Ir/CNF and Ir/Al<sub>2</sub>O<sub>3</sub> catalysts in a 2N hydrazine microthruster. Vieira R., Bernhardt P., Ledoux M. J., Pham-Huu C. **Catalysis Letters**, 99, 177-180, 2005.
98. Wiring and introduction of single silicon nanocrystals into multi-walled carbon nanotubes. Srcvek V., Le Normand F., Ersen O., Pham-Huu C., Begin D., Louis B., Muller J. C., Ledoux M. J. **Materials Reserach Society**, Proc. 862, 369-374, 2005.
99. Functionalization of single silicon nanocrystals by connecting with multiwalled carbon nanotubes. Srcvek V., Dintzer Th., Le Normand F., Ersen O., Pham-Huu C., Begin D., Louis B., Ledoux M. J. **AIP Conference Proceedings** 786, 321-324, 2005.
100. Carbon nanofiber composite as a catalytic hydrazine decomposition support for satellite propulsion. Vieira R., Bernhardt P., Ledoux M. J., Pham-Huu C. **Japanese Journal of Applied Physics**, 44, 4282-4284, 2005.
101. C<sub>2</sub>H<sub>6</sub> as an active carbon source for the large scale synthesis of carbon nanotubes by chemical vapour deposition. Pham-Huu C., Gulino G., Amadou J., Nguyen P., Ledoux M. J., S. Galvagno, G. Centi **Applied Catalysis A**, 279, 89-97, 2005.
102. Hydrazine decomposition over iridium supported on carbon nanofibers composite for space applications: near actual flight conditions tests. Vieira R., Netto D. B., Ledoux M. J., Pham-Huu C. **Applied Catalysis A**, 279, 35-40, 2005.
103. Decomposicao catalitica da hidrazina sobre iridio suportado em composites a base de nanofibras de carbono para propulsao espacial. Testes em condicoes reais. Vieira R., Netto D. B., Bernhardt P., Ledoux M. J., Pham-Huu C. **Quimica Nova**, 28, 42, 2005.
104. Pd casted in the MWNT tubule for use in selective hydrogenation of cinnamaldehyde into hydrocinnamaldehyde. Tessonnier J. P., Pesant L., Ehret G., Ledoux M. J., Pham-Huu C. **Applied Catalysis A**, 288, 203-210, 2005.

## 2006

105. Beta zeolite supported on a  $\alpha$ -SiC foam: a diffusionless catalyst for fixed-bed Friedel-Crafts reactions. Winé G., Tessonnier J. P., Rigolet S., Marichal Cl., Ledoux M. J., Pham-Huu C. **Journal of Molecular Catalysis A: Chemical**, 248, 113-120, 2006.
106. Catalysis on nanostructured carbon. Pham-Huu C., Ledoux M. J. **Topics in Catalysis**, 40, 49-63, 2006.
107. Ga-SBA-15 as an active and stable catalyst for Friedel-Crafts reaction. El Berrichi Z., Cherif L., Orsen O., Fraissard J., Tessonnier J. P., Vanhaecke E., Louis B., Ledoux M. J., Pham-Huu C. **Applied Catalysis A**, 298, 194-202, 2006.
108. Filling of single silicon nanocrystals within multi-walled carbon nanotubes. Svrcek V., Pham-Huu C., Ledoux M. J., Le Normand F., Ersen O., Joulie S. **Applied Physics Letters**, 88, 033112-1-033112-3, 2006.

109. Connection of silicon nanocrystals (Si-nc) with multi-walled carbon nanotubes.  
Svrcek V., Orsen O., Dintzer Th., Pham-Huu C., Ledoux M. J., Le Normand F.  
**Applied Physics A (Materials Science & Processing)**, 83, 153-157, 2006.
110. Filling and capping multi-walled carbon nanotubes with silicon nanocrystals dispersed in SiO<sub>2</sub>-based spin on glass.  
Svrcek V., Le Normand F., Ersen O., Joulie S., Pham-Huu C., Amadou J., Bégin D., Ledoux M. J.  
**Journal of Applied Physics**, 99, 064306, 2006.
111. Monitoring the CVD growth of multi-walled carbon nanotubes by Tapered Element Oscillating Microbalance (TEOM).  
Svrcek V., Le Normand F., Kleps I., Cracioniu F., Paillaud J. L., Amadou J., Dintzer Th., Louis B., Bégin D., Ledoux M. J., Pham-Huu C.  
**Journal of Chemical Physics**, 124, 184705-, 2006.
112. Quantitative measurement of the Brønsted acid sites in solid acids: towards a single-site design of Mo-modified ZSM-5.  
Tessonnier J. P., Louis B., Walspurger S., Sommer J., Ledoux M. J., Pham-Huu C.  
**Journal of Physical Chemistry B**, 110, 1021-, 2006.
113. Synthesis of the free-standing multi-walled carbon nanotubes with macroscopic shaping. Application to the water depollution.  
Amadou J., Bégin D., Nguyen P., Tessonnier J. P., Dintzer Th., Vanhaecke E., Ledoux M. J., Pham-Huu C.  
**Carbon**, 44, 2587-2589, 2006.
114. About the octopus-like growth mechanism of the carbon nanofibers over graphite supported nickel catalyst.  
Pham-Huu C., Vieira R., Louis B., Carvalho A., Amadou J., Dintzer Th., Ledoux M. J.  
**Journal of Catalysis**, 240, 194-202, 2006.
115. Beta zeolite supported on pre-shaped  $\alpha$ -SiC for Friedel-Crafts fixed-bed reactions.  
Winé G., Ledoux M. J., Pham-Huu C.  
**Catalysis Communications**, 7, 768-772, 2006.
- 2007**
116. Carbon nanofibers grown over graphite supported nickel catalyst: relationship between octopus-like growth mechanism and macroshaping.  
Louis B., Vieira R., Carvalho A., Amadou J., Ledoux M. J., Pham-Huu C.  
**Topics in Catalysis**, 45, 1-4, 75-80, 2007.
117. Supported Beta zeolite on preshaped  $\beta$ -SiC as clean Friedel-Crafts liquid-phase catalyst.  
Winé G., Ledoux M. J., Pham-Huu C.  
**Topics in Catalysis**, 45, 1-4, 111-116, 2007.
118. One-pot synthesis of Ga-SBA-15: an efficient alkylation and acylation Friedel-Crafts catalyst.  
El Berrichi Z., Ersen O., Louis B., Tessonnier J. P., Cherif L., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis A: General**, 316, 219-225, 2007.
119. Palladium supported on an aligned carbon nanotubes with macroscopic shape catalyst for selective liquid-phase reactions.  
Janowska I., Winé G., Ledoux M. J., Pham-Huu C.  
**Journal of Molecular Catalysis A: Chemical**, 267, 92-97, 2007.
120. Methanol-To-Olefins reaction on H-ZSM-5/SiC catalysts. Influence of the support morphology on the catalytic performance.  
Ivanova S., Louis B., Ledoux M. J., Pham-Huu C.  
**Journal of Physical Chemistry C**, 111, 4368-4374, 2007.
121. Conversion du CO<sub>2</sub> en hydrocarbures par électroréduction en flux continu.  
Pham-Huu C., Winé G.  
**Technique de l'Ingénieur**, 9, RE 86-1-10, 2007.
122. Green catalysis for production of chemicals and CO-free hydrogen.  
Tessonnier J. P., Louis B., Ledoux M. J., Pham-Huu C.  
**Catalysis Communications**, 8, 1787-1792, 2007.
123. Auto-assembly of nanofibrous zeolite crystals via silicon carbide substrate self-transformation.  
Ivanova S., Louis B., Ledoux M. J., Pham-Huu C.  
**Journal of the American Chemical Society**, 129, 3383-, 2007.
124. Pressure drops measurements and modelling on SiC foams.  
Lacroix M., Nguyen P., Schweich D., Pham-Huu C., Savin S., Edouard D.  
**Chemical Engineering Science**, 62, 3259-3267, 2007.
125. Synthesis of self-supported multi-walled carbon nanotubes.  
Amadou J., Bégin D., Nguyen P., Tessonnier J. P., Janowska I., Dintzer Th., Vanhaecke E., Ledoux M. J., Pham-Huu C.  
**Environmental and Science Technology**, 14, 549-552, 2007.
126. Fe<sub>2</sub>O<sub>3</sub>-modified/SiC as a new and active catalyst for deep selective oxidation of high concentrations of H<sub>2</sub>S into elemental sulfur.  
Nguyen P., Edouard D., Nhut J. M., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis B: Environmental**, 76, 300-310, 2007.
127. 3D electron microscopy study of metal particles inside multi-walled carbon nanotubes.  
Ersen O., Werckmann J., Houllé M., Ledoux M. J., Pham-Huu C.  
**Nano Letters**, 7(7), 1898-1907, 2007.
128. BETA zeolite supported on silicon carbide for Friedel-Crafts fixed-bed reactions.  
Winé G., El-Berrichi Z., Pham-Huu C.  
**Journal of Molecular Catalysis A: Chemical**, 278, 64-71, 2007.



129. 3D TEM characterization of nanometric objects. Ersen O., Hirtlmann C., Drillon M., Werckmann J., Tihay F., Pham-Huu C., Crucifix C., Schultz P. **Solid State Sciences**, 9, 1088-1098, 2007.
130. Densification de composites carbonés par SPS: utilisation de nanofibres de carbone comme agent liant. Houllé M., Deneuve A., Amadou J., Estournès C., Ledoux M. J., Pham-Huu C. **Matériaux et Techniques**, 95, 281-287, 2007.
- 2008**
131. Mechanical enhancement of C/C composites via the formation of a machinable carbon nanofibers interphase. Houllé M., Deneuve A., Amadou J., Bégin D., Pham-Huu C. **Carbon**, 46, 76-83, 2008.
132. Microstructural investigation of the CoFe<sub>2</sub>O<sub>4</sub> nanowires in carbon nanotubes by TEM tomography. Ersen O., Bégin S., Houllé M., Amadou J., Janowska I., Grenèche J. M., Crucifix C., Pham-Huu C. **Nano Letters**, 8, 1033-1040, 2008.
133. Unique microwave-promoted hydrogenation and carbo-palladation reactions with multi-walled carbon nanotubes. Olivier J. H., Camerel F., Ziessel R., Amadou J., Pham-Huu C. **New Journal of Chemistry**, 32, 920-924, 2008.
134. ZSM-5 nanowires assembly supported on medium surface area foam  $\beta$ -SiC composite with nanoscopic surface properties. Vanhaecke E., Ivanova S., Louis B., Pham Ch., Pham-Huu C. **Journal of Nanoscience and Nanotechnology**, 8, 1-6, 2008.
135. Methane dehydro-aromatization on Mo/ZSM-5: about the hidden role of Brønsted acid sites. Tessonnier J. P., Louis B., Rigolet S., Ledoux M. J., Pham-Huu C. **Applied Catalysis A: General**, 336, 79-88, 2008.
136. Nitrogen-doped carbon nanotubes for liquid-phase C=C bond hydrogenation. Amadou J., Chizari K., Houllé M., Janowska I., Ersen O., Bégin D., Pham-Huu C. **Catalysis Today**, 138, 62-68, 2008.
137. Pressure drop modeling on solid foam: state-of-the-art correlation. Edouard D., Lacroix M., Pham-Huu C., Luck Fr. **Chemical Engineering Journal**, 144, 299-311, 2008.
138. Carbon nanofibers: a versatile catalytic support. Coelho N. M. A., Furtado J. L. B., Pham-Huu C., Vieira R. **Materials Research**, 11, 353-357, 2008.
139. Quantification of the oxygenated phase coverage rate of  $\beta$ -SiC surface. Keller N., Di Grégorio F., Pham-Huu C., Keller V. **Diamond and Related Materials**, 17, 1867-1870, 2008.
140. 1D SiC decorating macroscopic shapes of SiC for filtration devices. Vanhaecke E., Ivanova S., Ersen O., Deneuve A., Edouard D., Winé G., Nguyen P., Pham Ch., Pham-Huu C. **Journal of Materials Chemistry**, 18, 4654-4662, 2008.
141. Experimental measurements and multiphase flow models in solid SiC foam beds. Edouard D., Lacroix M., Pham Ch., Mbodji M., Pham-Huu C. **AIChE Journal**, 54, 2823-2832, 2008.
142. High efficiency dimethylether synthesis over HZSM-5 supported on medium surface area foam  $\beta$ -SiC. Ivanova S., Vanhaecke E., Louis B., Libs S., Ledoux M. J., Rigolet S., Marichal Cl., Pham Ch., Luck F., Pham-Huu C. **ChemSusChem**, 1, 851-857, 2008.
143. Direct observation of stacking faults and pore connections in ordered cage-type mesoporous silica FDU-12 by electron tomography. Ersen O., Parmentier J., Solovyov L., Werckmann J., Pham-Huu C., Drillon M., Schultz P. **Journal of the American Chemical Society**, 130, 16800-16806, 2008.
- 2009**
144. Les nanofibres de carbone: un support de catalyseur polyvalent. Vieira R., Louis B., Pham-Huu C. **Actualité Chimique**, 329, 14-18, 2009.
145. Pressure drop measurements and hydrodynamic model description of SiC foam composites decorated with SiC nanofiber. Edouard D., Ivanova S., Lacroix M., Vanhaecke E., Pham Ch., Pham-Huu C. **Catalysis Today**, 141, 403-408, 2009.
146. Macronized aligned carbon nanotubes for use as catalyst support and ceramic nanoporous membrane template. Janowska I., Hajiesmaili Sh., Bégin D., Keller V., Keller N., Ledoux M. J., Pham-Huu C. **Catalysis Today**, 145, 76-84, 2009.
147. Influence of the oxygen pretreatment on the CO<sub>2</sub> reforming of methane on Ni/ $\beta$ -SiC catalyst. Nguyen D. L., Leroi P., Ledoux M. J., Pham-Huu C. **Catalysis Today**, 141, 393-396, 2009.
148. Fe<sub>2</sub>O<sub>3</sub>/ $\beta$ -SiC: a new high efficient catalyst for the selective oxidation of H<sub>2</sub>S into elemental sulfur. Nguyen P., Nhut J. M., Edouard D., Pham Ch., Ledoux M. J., Pham-Huu C. **Catalysis Today**, 141, 397-402, 2009.

149. Microwaves heating effects on acylation of anisole, catalyzed by BEA zeolite supported on SiC.  
Winé G., Vanhaecke E., Svetlana I., Ziesel R., Pham-Huu C.  
**Catalysis Communications**, 10, 477-480, 2009.
150. Oxidative dehydrogenation of 9,10-dihydroanthracene using multi-walled carbon nanotubes.  
Bégin D., Ulrich G., Amadou J., Su D. S., Pham-Huu C., Ziesel R.  
**Journal of Molecular Catalysis A: Chemical**, 302, 119-123, 2009.
151. Binderless HZSM-5 coating on  $\alpha$ -SiC for different alcohols dehydration.  
Ivanova S., Vanhaecke E., Dreibine L., Louis B., Pham Ch., Pham-Huu C.  
**Applied Catalysis A: General**, 359, 151-157, 2009.
152. Influence of the zeolite synthesis route on its catalytic properties in the methanol to olefin reaction.  
Ivanova S., Lebrun Ch., Vanhaecke E., Pham-Huu C., Louis B.  
**Journal of Catalysis**, 265, 1-7, 2009.
153. Fe and Pt carbon nanotubes for the electrocatalytic conversion of carbon dioxide to oxygenates.  
Gangari M., Perathoner S., Caudo S., Centi G., Amadou J., Bégin D., Pham-Huu C., Ledoux M. J., Tessonnier J. P., Su D. S., Schlögl R.  
**Catalysis Today**, 143, 57-63, 2009.
154. *In situ* monitoring the thermal dependence of the growth of carbon nanotubes by Chemical Vapor Deposition by Tapered Element Oscillating Microbalance.  
Le Normand F., Svrcek V., Senger A., Dintzer Th., Pham-Huu C.  
**Journal of Physical Chemistry C**, 113, 14879-14892, 2009.
155. Effect of structure and thermal properties of a F-T catalyst in a fixed bed.  
Philippe R., Lacroix M., Dreibine L., Pham-Huu C., Edouard D., Savin S., Luck F., Schweich D.  
**Catalysis Today**, 147S, S305-S312, 2009.
156. The role of mechanically induced defects in carbon nanotubes to modify the properties of electrodes for PEM fuel cell.  
Centi G., Gangari M., Fiorello M., Perathoner S., Amadou J., Bégin D., Ledoux M. J., Pham-Huu C., Schuster M. E. Su D. S., Tessonnier J. P., Schlögl R.  
**Catalysis Today**, 147, 3-4, 287-299, 2009.
157. Towards a more realistic modeling of solid foam: use of the pentagonal dodecahedron geometry.  
Truong H. T., Lacroix M., Pham-Huu C., Schweich D., Edouard D.  
**Chemical Engineering Science**, 64, 5131-5142, 2009.
158. Selective deposition of metal nanoparticles inside or outside multi-walled carbon nanotubes.  
Tessonnier J. P., Ersen O., Weinberg G., Pham-Huu C., Su D. S., Schlögl R.  
**ACS Nano**, 3, 2081-2089, 2009.
159. ZSM-5 nanowires assembly supported on medium surface area foam  $\beta$ -SiC composite with nanoscopic surface properties.  
Vanhaecke E., Ivanova S., Louis B., Pham Ch., Pham-Huu C.  
**Journal of Nanoscience and Nanotechnology**, 9, 3611-3616, 2009.
160. Investigation of the palladium nanoparticles localization in the bi-modal mesoporous SiC by TEM tomography.  
Florea I., Houllé M., Ersen O., Roiban L., Deneuve A., Janowska I., Nguyen P., Pham Ch., Pham-Huu C.  
**Journal of Physical Chemistry C**, 113, 17711-17719, 2009.
161. Catalytic unzipping of carbon nanotubes to few-layer graphene sheets under microwaves irradiation.  
Janowska I., Ersen O., Jacob T., Vénégués Ph., Bégin D., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis A: General**, 371, 22-30, 2009.
162. Preface.  
Keller N., Pham-Huu C., Keller V.  
**Catalysis Today**, 147, 3-4, 167-168, 2009.
163. Influence of the graphitisation of hollow carbon nanofibers on their functionalisation and subsequent filling with metal nanoparticles.  
Tessonnier J. P., Rosenthal D., Girgsdies F., Amadou J., Bégin D., Pham-Huu C., Su D. S., Schögl R.  
**Chemical Communications**, 7158-7160, 2009.
164. Advances in the use of carbon nanomaterials in catalysis.  
Louis B., Bégin D., Ledoux M. J., Pham-Huu C.  
**Ordered Porous Solids**, Elsevier Pub., 621-649, 2009.
165. Growth of single-wall carbon nanotubes from sharp metal tips.  
Rodriguez-Manzo J. A., Janowska I., Pham-Huu C., Tolvanen A., Krashennikov A. V., Nordlund K. H., Banhart F.  
**Small**, 5, 2710-2715, 2009.
- 2010**
166. UV-A photocatalytic treatment of *Legionella pneumophila* bacteria contaminated airflows through three-dimensional solid foam structured photocatalytic reactors.  
Josset S., Hajjesmaili S., Bégin D., Edouard D., Pham-Huu C., Lett M.-C., Keller N., Keller V.  
**Journal of Hazardous Materials**, 175, 372-381, 2010.

167. High surface-to-volume hybrid platelet reactor filled with vertically aligned carbon nanotubes. Liu Y., Janowska I., Romero Th., Edouard D., Nguyen L. D., Ersen O., Keller V., Keller N., Pham-Huu C.  
**Catalysis Today**, 150, 133-139, 2010.
169. Preparation, testing and modeling of three-dimensionally ordered catalytic layers for electrocatalysis of fuel cell reactions. Ruvinskiy P., Bonnefont A., Houllé M., Pham-Huu C., Savinova E. R.  
**Electrochimica Acta**, 55, 3245-3256, 2010.
170. Microwaves synthesis of large few-layer graphene sheets in aqueous solution of ammonia. Janowska I., Chizari K., Ersen O., Zafeiratos S., Soubane D., Da Costa V., Speisser V., Boeglin Ch., Houllé M., Bégin D., Plee D., Ledoux M. J., Pham-Huu C.  
**Nano Research**, 3, 126-137, 2010.
171. Tuning of a nitrogen doping multi-walled carbon nanotube for use as catalyst support. Chizari K., Janowska I., Houllé M., Florea I., Ersen O., Romero Th., Bernhardt P., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis A: General**, 380, 72-80, 2010.
172. The effective thermal properties of solid foam beds: experimental and estimated temperature profiles. Edouard D., Truong H. T., Pham-Huu C., Luck F., Schweich D.  
**Journal of Heat and Mass Transfer**, 53, 3807-3816, 2010.
173. Silicon carbide nanofibers composite with nanoscopic properties and enhanced oxidative resistance. Deneuve A., Ersen O., Nguyen P., Pham Ch., Edouard D., Bégin D., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis A**, 385, 52-61, 2010.
174. Matériaux catalytiques et catalyse hétérogène. Coq B., Basset J. M., Caullet Ph., de Bellefon C., Daturi M., Denicourt-Nowicki A., Galarneau A., Gérardin C., Granger P., Khodakov A. Y., Lefebvre F., Paillaud J. L., Payen E., Pham-Huu C., Roger A. C., Roucoux A., Savinova E., Serp Ph., Thibault-Starzyk F.  
**Actualité Chimique**, 338-339, 64-73, 2010.
175. 3D solid carbon foam based photocatalytic materials for vapour-phase flow-through structured photoreactors. Hajjesmaili Sh., Josset S., Bégin D., Pham-Huu C., Keller N., Keller V.  
**Applied Catalysis A**, 382, 122-130, 2010.
176. Analytical electron tomography mapping of the SiC pore oxidation at the nanoscale. Florea I., Ersen O., Hirlimann Ch., Roiban L., Deneuve A., Houllé M., Janowska I., Nguyen P., Pham Ch., Pham-Huu C.  
**Nanoscale**, 2, 2668-2678, 2010.
- 2011**
177. Catalytic synthesis of a high aspect ratio carbon nanotubes bridging carbon felt composite with improved electrical conductivity and effective surface area. Wang K., Janowska I., Chizari K., Liu Y., Moldovan S. M., Ersen O., Bonnefont A., Savinova E. R., Nguyen D. L., Pham-Huu C.  
**Applied Catalysis A**, 392, 238-247, 2011.
178. Silicon carbide foam composite containing cobalt as a highly selective and re-usable Fischer-Tropsch synthesis catalyst. Lacroix M., Dreibine L., de Tymowski B., Vigneron F., Edouard D., Bégin D., Nguyen P., Pham Ch., Savin-Poncet S., Luck F., Ledoux M. J., Pham-Huu C.  
**Applied Catalysis A**, 397, 62-72, 2011.
179. The catalytic action of gold and copper crystals in the growth of carbon nanotubes. Tyagi P. K., Janowska I., Cretu O., Pham-Huu C., Banhart F.  
**Journal of Nanotechnology and Nanoscience**, 11, 3609-3615, 2011.
180. High-temperature *in situ* HR-TEM investigation of platinum nanoparticles supported on few-layer graphene. Janowska I., Moldovan M. S., Ersen O., Bulou H., Chizari K., Ledoux M. J., Pham-Huu C.  
**Nano Research**, 4, 511-521, 2011.
181. A predictive model based on tortuosity for pressure drop estimation in 'slim' and 'fat' foams. Ahmed J., Pham-Huu C., Edouard D.  
**Chemical Engineering Journal**, 66, 4771-4779, 2011.
182. Benzoylation of anisole catalysed by Ga/SBA-15 supported on carbon nanofibers composite. El Berrichi F. Z., Pham-Huu C., Cherif L., Louis B., Ledoux M. J.  
**Catalysis Communications**, 12, 790-793, 2011.
183. Graphene growth by a metal-catalyzed solid-state transformation of amorphous carbon. Rodriguez-Manzo J. A., Pham-Huu C., Banhart F.  
**ACS Nano**, 5, 1529-1534, 2011.
184. Corrigendum to "Effect of structure and thermal properties of a Fischer-Tropsch catalyst in a fixed bed". Philippe R., Lacroix M., Dreibine L., Pham-Huu C., Edouard D., Savin S., Luck Fr., Schweich D.  
**Catalysis Today**, 160, 255-256, 2011.
185. 3D-TEM characterization of the porosity in nanoscaled materials. Application to catalysis. Florea I., Roiban L., Hirlimann Ch., Tihay F., Pham-Huu C., Werckmann J., Pham Ch., Nguyen P., Drilon M., Ersen O.  
**Advanced Engineering Material**, 13, 122-127, 2011.

186. Urchin-like self-supported carbon nanotubes. Nguyen D. L., Chizari K., Wang K., Houllé M., Janowska I., Moldovan S. M., Ersen O., Pham-Huu C. **Materials Letters**, 65, 2482-2485, 2011.
187. A new recyclable Pd catalyst supported on vertically aligned carbon nanotubes for microwaves assisted Heck reaction. Janowska I., Chizari K., Olivier J. H., Ziessel R., Ledoux M. J., Pham-Huu C. **Comptes Rendus Chimie**, 14, 663-670, 2011.
188. Using ordered carbon nanomaterials for shedding light on the mechanism of the cathodic oxygen reduction reaction. Ruvinskyi P., Bonnefont A., Pham-Huu C., Savinova E. R. **Langmuir**, 27, 9018-9027, 2011.
189. Bucky paper with improved mechanical stability made from vertically aligned carbon nanotubes for desulfurization process. Deneuve A., Janowska I., Chizari K., Edouard D., Nguyen D. L., Pham-Huu C. **Applied Catalysis A**, 400, 230-237, 2011.
190. Methanol dehydration to dimethylether in a platelet microreactor filled with H-ZSM5/SiC foam catalyst. Liu Y., Podila S., Edouard D., Nguyen D. L., Nguyen P., Pham Ch., Ledoux M. J., Pham-Huu C. **Applied Catalysis A**, 409-410, 113-121, 2011.
- 2012**
191. TEM tomography investigation of the microstructural of the  $\delta$ -Al<sub>2</sub>O<sub>3</sub> support decorated with palladium nanoparticle. Roiban L., Sorbier L., Pichon Ch., Pham-Huu C., Drillon M., Ersen O. **Nanoscale**, 4, 946-954, 2012.
192. Nitrogen-doped carbon nanotubes as a highly active metal-free catalyst for selective oxidation. Kambiz C., Deneuve A., Ersen O., Florea I., Liu Y., Edouard D., Janowska I., Begin D., Pham-Huu C. **ChemSusChem**, 5, 102-108, 2012.
193. High yield synthesis of transparent vertically aligned TiO<sub>2</sub> nanotubes/few-layer graphene (FLG) composite. Cottineau T., Albrecht A., Janowska I., Macher N., Begin D., Ledoux M. J., Pronkin S., Savinova E. R., Keller N., Keller V., Pham-Huu C. **Chemical Communications**, 48, 1224-1226, 2012.
194. Co-Ru/SiC impregnated with ethanol as an effective catalyst for the Fischer-Tropsch synthesis. de Tymowski B., Liu Y., Meny Ch., Lefèvre Ch., Begin D., Nguyen P., Pham Ch., Edouard D., Luck Fr., Pham-Huu C. **Applied Catalysis A**, 419, 31-40, 2012.
195. Residence time distribution, axial liquid dispersion and dynamic-static liquid mass transfer in trickle flow reactor containing  $\beta$ -SiC open-cell foams. Saber M., Truong H. T., Pham-Huu C., Edouard D. **Chemical Engineering Journal**, 185-186, 294-299, 2012.
196. Few-layer graphene supporting palladium nanoparticles with a fully accessible effective surface for liquid-phase hydrogenation reaction. Truong H. T., Chizari K., Janowska I., Moldovan S. M., Ersen O., Nguyen D. L., Begin D., Pham-Huu C. **Catalysis Today**, 189, 77-82, 2012.
197. Simulation and experimental measurement of dynamic behaviour of solid foam filter for diesel exhaust gas. Vanhaecke E., Pham-Huu C., Edouard D. **Catalysis Today**, 189, 101-110, 2012.
198. Few-layer graphene synthesis by mechanical ablation of graphite material. Janowska I., Romero Th., Bernhardt P., Vigneron F., Begin D., Ersen O., Ledoux M. J., Pham-Huu C. **Carbon**, 50, 3092-3116, 2012.
199. Ethanol assisted efficiency growth of vertically aligned carbon nanotubes array using iron-based floating catalyst. Guellati O., Janowska I., Begin D., Guerioune M., Mekhalif Z., Delhalle J., Pham-Huu C. **Applied Catalysis A**, 423-424, 7-14, 2012.
200. Self-macronized carbon nanotubes support with high specific surface area and full accessible. Liu Y., Truong-Huu T., Liu Y., Romero Th., Janowska I., Begin D., Nguyen D. L., Pham-Huu C. **Materials Letters**, 79, 128-131, 2012.
201. On the evolution of Pt nanoparticles onto few-layer graphene supports in the high-temperature range. Moldovan S. M., Ersen O., Bulou H., Janowska I., Dappe Y., Begin D., Pham-Huu C. **Journal of Physical Chemistry C**, 116, 9274-9282, 2012.
202. High density monodisperse cobalt nanoparticles (NPs) filling of multi-walled carbon nanotubes. Baaziz W., Begin S., Pichon B., Florea I., Ersen O., Zafeiratos S., Barbosa R., Begin D., Pham-Huu C. **Chemistry of Materials**, 24, 1549-1551, 2012.
203. 3D analysis of the morphology and spatial distribution of nitrogen in nitrogen-doped carbon nanotubes by EFTEM tomography. Florea I., Ersen O., Arenal R., Ihiwakim D., Messaoudi C., Chizari K., Janowska I., Pham-Huu C. **Journal of the American Chemical Society**, 134, 9672-9680, 2012.

204. Catalytic performance of MoVTeNbO catalyst supported on SiC foam in oxidative dehydrogenation of ethane and ammoxidation of propane.  
Nguyen T. T., Burel L., Nguyen D. L., Pham-Huu C., Millet J. M. M.  
**Applied Catalysis A**, 433-434, 41-48, 2012.
205. New graphene and few-layer graphene (FLG) with high yield synthesis methods.  
Janowska I., Ersen O., Moldovan S. M., Chizari K., Bégin D., Ledoux M. J., Pham-Huu C.  
**Physica E**, 44, 1009-1011, 2012.
- 2013**
206. Fischer-Tropsch synthesis on cobalt supported on a  $\gamma$ -alumina decorated with carbon nanotubes catalyst.  
Liu Y., Dintzer Th., Ersen O., Pham-Huu C.  
**Journal of Energy Chemistry**, 22, 279-289, 2013.
207. High performance structured platelet milli-reactor filled with supported cobalt open cell silicon carbide foam catalyst for the Fischer-Tropsch synthesis.  
Liu Y., Edouard D., Nguyen D. L., Bégin D., Nguyen P., Pham Ch., Pham-Huu C.  
**Chemical Engineering Journal**, 222, 265-273, 2013.
208. Titania decorated silicon carbide containing cobalt as a high efficient catalyst for the Fischer-Tropsch synthesis.  
Liu Y., de Tymowski B., Florea I., Ersen O., Meny Ch., Nguyen P., Pham Ch., Luck F., Pham-Huu C.  
**ACS Catalysis**, 3, 393-404, 2013.
209. FLG-high aspect ratio MWNTs hybrid film prepared by hot spray technique.  
Akilimali R., Macher N., Bonnefont A., Bégin D., Janowska I., Pham-Huu C.  
**Materials Letters**, 96, 57-59, 2013.
210. TEM-EELS to investigate the structure-activity relationship in the Fischer-Tropsch catalyst.  
Florea I., Liu Y., Ersen O., Meny C., Pham-Huu C.  
**ChemCatChem**, 5, 2610-2620, 2013.
212. Synthesis of porous carbon nanotubes foam composites with high accessible surface area and tunable porosity.  
Liu Y., Ba H., Nguyen D. L., Ersen O., Romero Th., Janowska I., Bégin D., Pham-Huu C.  
**Journal of Materials Chemistry A**, 1, 9508-9516, 2013.
213. Electrical conductivity measured in atomic carbon chains.  
Cretu O., Botello-Mendez A. R., Janowska I., Pham-Huu C., Charlier J. C., Banhart F.  
**Nano Letters**, 13, 3487-3493, 2013.
214. Non-covalent functionalization of graphene and few-layer graphene with pyrene hexahistidine amphiphiles in water: application to the stepwise construction of 2D-nanocomposites with magnetic iron nanoparticles.  
Ihiawakrim D., Ersen O., Bulou H., Melin F., Hellwig P., Janowska I., Bégin D., Baaziz W., Bégin-Colin S., Pham-Huu C., Baati R.  
**Nanoscale**, 5, 9073-9080, 2013.
215. Effect of the specific surface sites on the reducibility of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>/graphene composites by hydrogen.  
Papaeftimiou V., Florea I., Baaziz W., Janowska I., Doh W. H., Bégin D., Blume R., Knop-Gericke A., Ersen O., Pham-Huu C., Zafeiratos S.  
**Journal of the Physical Chemistry C**, 117, 20313-20319, 2013.
217. Carbon nanotubes channel filled with homogeneous size iron oxide nanoparticles.  
Baaziz W., Liu X., Florea I., Bégin S., Pichon B., Uhlacq C., Ersen O., Soria-Sanchez M., Zafeiratos S., Janowska I., Bégin D., Pham-Huu C.  
**Journal of Materials Chemistry A**, 1, 13853-13861, 2013.
- 2014**
218. Silicon carbide foam decorated with carbon nanofibers as catalytic stirrer in liquid-phase hydrogenation reaction.  
Truong-Phuoc L., Truong-Huu T., Baaziz W., Edouard D., Nguyen D. L., Romero T., Bégin D., Janowska I., Pham-Huu C.  
**Applied Catalysis A: General**, 469, 81-88, 2014. (3.6)
219. Fischer-Tropsch reaction on thermal conductive and re-usable silicon carbide support.  
Liu Y., Ersen O., Meny C., Luck F., Pham-Huu C.  
**ChemSusChem**, 7, 1218-1239, 2014. (7.5) (**Hottest Chemical Engineering articles**)
220. Iron oxide nanoparticles decorated few-layer graphene surface as an active catalyst for the selective oxidation of H<sub>2</sub>S into elemental sulfur.  
Baaziz W., Truong-Phuoc L., Duong-Viet C., Melinte G., Janowska I., Papaeftimiou V., Ersen O., Zafeiratos S., Bégin D., Bégin-Colin S., Pham-Huu C.  
**Journal of Materials Chemistry A**, 2, 2690-2700, 2014. (6.6)
221. Tunable electrocatalysts for the oxygen reduction reaction in alkaline medium by functionalization of carbon nanotubes with pyridine-based frameworks.  
Tucci G., Zafferoni C., Rossin A., Milella A., Luconi L., Innocenti M., Foresti M. L., Truong-Phuoc L., Duong-Viet C., Pham-Huu C., Gambastiani G.  
**Chemistry of Materials**, 26, 3460-3470, 2014. (8.2) (**Front cover and ACS Editors' Choice**)

222. Hydrophobic gold catalysts: from synthesis on passivated silica to synthesis on few-layer graphene.  
Vigneron F., Piquet A., Baaziz W., Ronot P., Boos A., Janowska I., Pham-Huu C., Petit C., Caps V.  
**Catalysis Today**, 235, 90-97, 2014. (3.6)
223. Carbon nanotubes doped with nitrogen decorated silicon carbide for catalytic applications.  
Duong-Viet C., Ba H., Liu Y., Truong-Phuoc L., Nhut J. M., Pham-Huu C.  
**Chinese Journal of Catalysis**, 35, 906-913, 2014. (1.5)
224. A 3D insight on the catalytic nanostructuring of few-layer graphene.  
Melinte G., Florea I., Moldovan S., Janowska I., Baaziz W., Arenal R., Wisnet A., Scheu C., Begin-Colin S., Begin D., Pham-Huu C., Ersen O.  
**Nature Communications**, DOI: 10.1038/ncomms5109, 2014. (11.5) (**Presse CNRS**)
225. Few-layer graphene-graphene oxide composite containing nanodiamonds as metal-free catalyst.  
Tran-Thanh T., Ba H., Truong-Phuoc L., Nhut J. M., Ersen O., Begin D., Janowska I., Nguyen-Dinh L., Granger P., Pham-Huu C.  
**Journal of Materials Chemistry A**, 2, 11349-11357, 2014. (6.6)
226. Efficient hierarchical structured composites containing cobalt catalyst for clean synthetic fuel production from Fischer-Tropsch synthesis.  
Liu Y., Luo J., Girleanu M., Ersen O., Pham-Huu C., Meny C.  
**Journal of Catalysis**, 318, 179-192, 2014. (6.1)
227. Nitrogen-doped carbon nanotubes decorated silicon carbide as a metal-free catalyst for partial oxidation of H<sub>2</sub>S.  
Duong-Viet C., Truong-Phuoc L., Truong-Thanh T., Nhut J. M., Nguyen-Dinh L., Janowska I., Begin D., Pham-Huu C.  
**Applied Catalysis A: General**, 482, 397-406, 2014. (3.7)
228. Formation and characterization of metal-carbon nano-contacts.  
La Torre A., Ben Romdhane F., Baaziz W., Janowska I., Pham-Huu C., Begin-Colin S., Pourroy G., Banhart F.  
**Carbon**, 77, 906-911, 2014. (5.8)
229. Nitriding/nanostructurations of few-layer graphene supported iron-based particles: catalyst in graphene etching and carbon nanofilaments growth.  
Baaziz W., Melinte G., Ersen O., Pham-Huu C., Janowska I.  
**Physical Chemistry-Chemical Physics**, 16, 15988-15993, 2014. (3.8)
230. Few layer graphene supported palladium catalyst for oxygen reduction reaction in alkaline medium.  
Truong-Phuoc L., Pham-Huu C., Da Costa V., Janowska I.  
**Chemical Communications**, 50, 14433-14435, 2014. (6.8)
231. Design of covalently functionalized magnetic carbon nanotubes for imaging and hyperthermic modalities.  
Liu X., Marangon I., Melinte G., Wilhelm C., Ménard-Moyon C., Vacchi I. A., Pichon B., Ersen O., Baaziz W., Pham-Huu C., Bégin-Colin S., Bianco A., Gazeau F., Bégin D.  
**ACS Nano**, 8, 11290-11304, 2014. (12.0)
- ## 2015
232. Influence of the reaction temperature on the oxygen reduction reaction on nitrogen-doped carbon nanotubes catalysts.  
Truong-Phuoc L., Duong-Viet C., Doh W.-H., Bonnefont A., Janowska I., Begin D., Granger P., Pham-Huu C.  
**Catalysis Today**, 249, 236-243, 2015. (3.6)
233. Nanodiamonds associate with 2D graphene as metal-free catalyst in the dehydrogenation of ethylbenzene to styrene.  
Ba H., Liu Y., Mu X., Nhut J. M., Tran-Thanh T., Nguyen-Dinh L., Granger P., Pham-Huu C.  
**Catalysis Today**, 249, 167-175, 2015. (3.6)
234. Microscopy investigations of the microstructure change and thermal response of the cobalt-based nanoparticles confined inside carbon nanotubes medium.  
Baaziz W., Florea I., Moldovan S. M., Ersen O., Papaefthimiou V., Zafeiratos S., Begin-Colin S., Begin D., Pham-Huu C.  
**Journal of Materials Chemistry A**, 3, 11203-11214, 2015. (7.5) (**Front cover**)
235. Macroporous titania coated silicon carbide supported cobalt catalysts for Fischer-Tropsch synthesis.  
Liu Y., Florea I., Ersen O., Pham-Huu C., Meny C.  
**Chemical Communications**, 51, 145-148, 2015. (6.8)
236. Combined water/microwaves activation of few-layer graphene as an efficient support for metal nanoparticles dispersion.  
Truong-Phuoc L., Papaefthimiou V., Ghimbeu C. M., Pirzado A. A., Le Normand F., Melinte G., Baaziz W., Pham-Huu C., Janowska I.  
**Journal of Colloid and Interface**, 451, 221-230, 2015. (3.6)
237. Exploring nanomaterials with 3D electron microscopy.  
Ersen O., Florea I., Hirlimann C., Pham-Huu C.  
**Materials Today**, 18, 395-408, 2015. (14.1)
238. Nanodiamonds decorated silicon carbide foam as metal-free catalyst for steam-free ethylbenzene dehydrogenation.  
Ba H., Liu Y., Mu X., Nhut J. M., Doh W. H., Granger P., Pham-Huu C.  
**Applied Catalysis A: General**, 499, 217-226, 2015. (3.7)

239. Hybrid films of graphene and carbon nanotubes for high performance chemical and temperature sensing applications. Tran-Thanh T., Pham-Huu C., Janowska I., Kim T.-Y., Castro M., Feller J. F. **Small**, 11, 3485-3493, 2015. (7.5)
240. Microwaves assisted growth of SAPO-34 on  $\beta$ -SiC foams for methanol dehydration to dimethyl ether. Elamin M. M., Muraza O., Malibari Z., Ba H., Nhut J. M., Pham-Huu C. **Chemical Engineering Journal**, 274, 113-122, 2015. (4.2)
241. One step synthesis of nitrogen-doped carbon composite by electrospinning as metal-free catalyst for oxidative reactions. Liu Y., Duong-Viet C., Hébraud A., Schlatter G., Luo J., Ersen O., Nhut J. M., Pham-Huu C. **ChemCatChem**, 7, 2957-2964, 2015. (5.2)
242. Towards nanoprinting with metals on graphene. Melinte G., Moldovan S. M., Hirlimann C., Liu X., Begin D., Hirlimann C., Begin-Colin S., Banhart F., Pham-Huu C., Ersen O. **Nature Communications**, 6:8071 DOI: 10.1038/ncomms9071, 2015. (11.5) (**Presse CNRS**)
243. "Dressing" macroscopic shape catalyst supports with a highly N-enriched and metal-free active phase for catalytic applications. Ba H., Liu Y., Truong-Phuoc L., Duong-Viet C., Mu X., Doh W.-H., Tran-Thanh T., Baaziz W., Nguyen-Dinh L., Nhut J. M., Janowska I., Begin D., Zafeiratou S., Granger P., Tuci G., Giambastiani G., Banhart F., Ledoux M. J., Pham-Huu C. **Chemical Communications**, 51, 14393-14396, 2015. (6.8)
244. Hybrid Layer-by-Layer composite based on conducting polyelectrolyte and  $\text{Fe}_3\text{O}_4$  nanostructures grafted on graphene for supercapacitors application. Pardieu E., Pronkin S., Dolci M., Dintzer T., Pichon B., Begin D., Pham-Huu C., Schaaf P., Begin-Colin S., Boulmedais F. **Journal of Materials Chemistry A**, 3, 22877-22885, 2015. (7.5)
245. 3D study of topology and dynamics of zeolite nucleation. Melinte G., Georgieva V., Springuel-Huet M. A., Nossov A., Ersen O., Gueneau F., Gedeon A., Palcic A., Bozhilov K., Pham-Huu C., Qiu S., Mintova S., Valtchev V. **Chemistry: A European Journal**, 21, 18316-18327, 2015. (5.7) (**Hot paper**)
246. Corrigendum 3D study of topology and dynamics of zeolite nucleation. Melinte G., Georgieva V., Springuel-Huet M. A., Nossov A., Ersen O., Gueneau F., Gedeon A., Palcic A., Bozhilov K., Pham-Huu C., Qiu S., Mintova S., Valtchev V. **Chemistry: A European Journal**, 21, 18316-18327, 2015. (5.7)
- 2016**
247. Silicon carbide foam as a porous support platform for catalytic applications. Ba H., Liu Y., Duong-Viet C., Truong-Phuoc L., El Berichi Z., Nhut J. M., Ledoux M. J., Pham-Huu C. **New Journal of Chemistry**, 40, 4285-4299, 2016. (3.2)
248. Hierarchical carbon nanofibers/graphene composite containing nanodiamonds as metal-free catalyst for direct dehydrogenation of ethylbenzene. Ba H., Truong-Phuoc L., Liu Y., Duong-Viet C., Nhut J. M., Nguyen-Dinh L., Granger P., Pham-Huu C. **Carbon**, 96, 1060-1069, 2016. (6.2)
249. Nitrogen-doped carbon composites as metal-free catalysts. Duong-Viet C., Ba H., Truong-Phuoc L., Liu Y., Tessonnier J. P., Nhut J. M., Granger P., Pham-Huu C. **New Materials for Catalytic Applications**, V. Parvulescu, E. Kemnitz (Eds), Elsevier Series Book, ISBN 978-0-444-63587-7, pp. 273-312, 2016.
250. Nitrogen-doped carbon nanotube spheres as metal-free catalysts for the partial oxidation of  $\text{H}_2\text{S}$ . Ba H., Duong-Viet C., Liu Y., Nhut J. M., Granger P., Ledoux M. J., Pham-Huu C. **Compte-Rendu Chimie**, 19, 1303-1309, 2016. (1.7)
251. Foodstuff processing N-doped 3D Mesoporous Foams as Efficient Metal-Free Systems for Catalysis. Ba H., Liu Y., Truong-Phuoc L., Duong-Viet C., Nhut J. M., Nguyen D. L., Ersen O., Giambastiani G., Tuci G., Pham-Huu C. **ACS Catalysis**, 6, 1408-1419, 2016. (9.5)
252. Mapping the structure and chemical order of ferromagnetic nanoparticles: a  $^{59}\text{Co}$  zero-field nuclear magnetic resonance study. Liu Y., Luo J., Shin Y., Ersen O., Moldovan S., Hébraud A., Schlatter G., Pham-Huu C., Meny C. **Nature Communications**, DOI: 10.1038/ncomms11532, 2016. (11.5)
253. Design of  $\text{Fe}_{3-x}\text{O}_4$  raspberry shaped nanostructures/graphene nanocomposites with high performances in lithium-ion battery. Gerber O., Begin-Colin S., Pichon B., Barraud E., Lemonnier S., Pham-Huu C., Daffos B., Patrice P., Come J., Begin D. **Journal of Energy Chemistry**, 25, 272-277, 2016. (2.5)
254. Oxygenated decorating defects in CNT as metal-free catalyst for the partial oxidation of  $\text{H}_2\text{S}$ . Duong-Viet C., Ba H., Liu Y., Truong-Phuoc L., Nguyen-Dinh L., Nhut J. M., Pham-Huu C. **Applied Catalysis B: Environmental**, 191, 29-41, 2016. (8.2)

255. Tribological and mechanical investigation of acrylic-based nanocomposite coatings reinforced with PMMA-grafted-MWCNT. Al-Kawaz A., Rubin A., Badi N., Blanck C., Jacomine L., Janowska I., Pham-Huu C., Gauthier C.  
**Materials Chemistry Physics**, 175, 206-214, 2016. (2.2)
256. Chemical functionalization of N-doped carbon nanotubes: a powerful approach to cast light on the electrochemical role of specific N-functionalities in the oxygen reduction reaction. Tuci G., Zafferoni C., Rossin A., Luconi L., Milella A., Ceppatelli M., Innocenti M., Liu Y., Pham-Huu C., Giambastiani G.  
**Catalysis Science & Technology**, 6, 6226-6236, 2016. (5.2)
257. Aziridine Functionalized Multi-Walled Carbon Nanotubes: a Robust and Versatile Catalyst for the Oxygen Reduction and Knoevenagel Condensation. Tuci G., Luconi L., Rossin A., Berretti E., Ba H., Innocenti M., Yakhvarov D., Caporali S., Pham-Huu C., Giambastiani G.  
**ACS Applied Material and Interfaces**, 8, 30099-30106, 2016. (7.2)
258. Environmental TEM at atmospheric pressure: an operando view of the materials at the nanoscale. Ersen O., Melinte G., Moldovan S., Dembélé K., Hirlimann C., Pham-Huu C., Gay A.-S., Maury S.  
**Microscopy and Microanalysis**, 22 (S. 5), 6-7, 2016. (1.2)
- ## 2017
259. Nanodiamond@Nitrogen-enriched mesoporous carbon decorated silicon carbide as a superior metal-free catalyst for styrene production. Ba H., Liu Y., Luo J., Ersen O., Duong-Viet C., Nhut J. M., Tuci G., Giambastiani G., Nguyen-Dinh L., Su D. S., Pham-Huu C.  
**Applied Catalysis B: Environmental**, 200, 343-350, 2017. (8.2)
260. Hierarchical porous carbon fibers/carbon nanofibers composites from electrospinning/CVD processes as high effective surface area support platform. Liu Y., Luo J., Helleu C., Behr M., Ba H., Romero T., Hébraud A., Schlatter G., Ersen O., Su D. S., Pham-Huu C.  
**Journal of Materials Chemistry A**, 5, 2151-2162, 2017. (8.8)
261. Unraveling Surface Basicity and Bulk Morphology Relationship on Covalent Triazine Frameworks with Unique Catalytic and Gas Adsorption Properties. Tuci G., Ba H., Pilaski M., Rossin A., Luconi L., Palkovits R., Pham-Huu C., Giambastiani G.  
**Advanced Functional Materials**, 27, 1605672-1605682, 2017 (11.8) (VIP, Cover page)
262. Hydrogenation of cinnamaldehyde over bimetallic Au-Cu/CeO<sub>2</sub> catalyst under a mild condition. Liao X.-M., Pitchon V., Pham-Huu C., Chu W., Caps V.  
**Chinese Chemical Letters**, 28, 293-296, 2017 (1.6).
263. The Coulombic nature of active nitrogen sites in N-doped nanodiamond revealed by ionic surfactants as in-situ probes. Wu K.-H., Liu Y., Luo J., Wang B., Xu J., Pham-Huu C., Su D. S.  
**ACS Catalysis**, 7, 3295-3300, 2017. (10.6)
264. The catalytic nanopatterning of few-layer graphene. Melinte G., Moldovan S. M., Hirlimann C., Baaziz W., Begin-Colin S., Pham-Huu C., Ersen O.  
**ACS Catalysis**, 7, 5941-5949, 2017. (10.6)
265. Hierarchical structured reactors for intensification of chemical reactions. Garcia-Bordejé E., Liu Y., Su D. S., Pham-Huu C.  
**Journal of Materials Chemistry A**, 5, 22408-22441, 2017. (8.8)
266. Highly reducible PtCo particles supported on graphene-coated ZnO: from model to real catalysts. Luo W., Ba H., Baaziz W., Cao Q., Baati R., Ersen O., Pham-Huu C., Zafeiratos S.  
**ACS Applied Materials & Interfaces**, 9, 34256-34268, 2017. (7.7)
267. The role of surface chemistry of functionalized carbon nanotubes for immobilizing gold nanoparticles. Luo J., Wei H., Zhang D., Liu Y., Zhang B., Chu W., Pham-Huu C., Su D. S.  
**Chemical Communications**, 53, 12750-12753, 2017. (6.8)
268. Advance in sustainable top-down synthesis of 2D materials. Truong-Phuoc L., Ba H., Baaziz W., Romero T., Wen L., Janowska I., Pham-Huu C.  
**ACS Omega**, 2, 8610-8617, 2017.
269. Pyridine-decorated carbon nanotubes as a metal-free heterogeneous catalyst for the mild CO<sub>2</sub> reduction to methanol with hydroboranes. Tuci G., Rossin A., Luconi L., Ba H., Pham-Huu C., Giambastiani G.  
**Catalysis Science & Technology**, 7, 5833-5837, 2017. (4.5) (Back-cover)
- ## 2018
270. Mesoporous carbon doped with N, S heteroatoms prepared by one-pot autoassembly of molecular precursor for electrocatalytic hydrogen peroxide synthesis. Roldan L., Truong-Phuoc L., Anson-Casaos A., Pham-Huu C., Garcia-Bordejé E.  
**Catalysis Today**, 301, 2-10, 2018 (4.7).



271. Structure-performance relationship of nanodiamonds@nitrogen-doped mesoporous carbon in the direct dehydrogenation of ethylbenzene.  
Liu Y., Ba H., Luo J., Nhut J. M., Su D. S., Pham-Huu C.  
**Catalysis Today**, 301, 38-47, 2018. (4.7)
272. Meso- and microporous carbon derived from fig fruit with improving supercapacitance performance.  
Wang W., Ba H., Pronkin S., Baaziz W., Nguyen-Dinh L., Chu W., Ersen O., Pham-Huu C.  
**Advanced Sustainable Systems**, doi: 10.1002/adsu.201700123, 2018.
273. N-heteroaryl-Pyridylamido Zr<sup>IV</sup>- and Hf<sup>IV</sup>-Alkyl Complexes for the Tandem Catalytic CO<sub>2</sub> Hydrosilylation with B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>.  
Lapo Luconi, Andrea Rossin, Giulia Tuci, Zufar Gafurov, Dmitrii M. Lyubov, Alexander A. Trifonov, Housseinou Ba, Cuong Pham-Huu, Dmitry Yakhvarov, Giuliano Giambastiani  
**ChemCatChem**, accepted, 2018. (4.8)
274. Nickel sulfide decorated silicon carbide foam for low temperature conversion of H<sub>2</sub>S into S.  
Duong-Viet C., Ba H., Liu Y., Tuci G., Nguyen-Dinh L., Giambastiani G., Pham-Huu C.  
**Molecules**, 23, 1528, 2018. (3.1)
275. Gaseous HNO<sub>3</sub> activated carbon felt as metal-free catalyst for selective oxidation.  
Xu Z., Duong-Viet C., Ba H., Li B., Truong-Huu T., Nguyen-Dinh L., Pham-Huu C.  
**Catalysts**, 8, 145, 2018. (3.0)
276. CNTs' Array Growth using the Floating Catalyst-CVD Method over Different Substrates and Varying Hydrogen Supply.  
Guelatti O., Begin D., Antoni F., Moldovan S., Guerioune M., Pham-Huu C., Janowska I.  
**Materials Science & Engineering B**, 231, 11-17, 2018. (2.5)
277. Electrochemical measurements of 1D/2D/3D Ni-Co bi-phase mesoporous nanohybrids synthesized using free-template hydrothermal method.  
Guellati O., Harat A., Momodu D., Dangbegnon J., Begin D., Pham-Huu C., Manyala N., Guerioune M.  
**Electrochimica Acta**, 275, 155-171, 2018. (4.5)
278. Hydrophobic mesoporous carbon decorated carbon felt for oil sorbent applications.  
Ba H., Wang W., Liu Y., Duong-Viet C., Papaefthimiou V., Nguyen-Dinh L., Tuci G., Giambastiani G., Pham-Huu C.  
**Advanced Sustainable Systems**, doi.org/10.1002/adsu.201800040, 2018.
279. Tridimensional few-layer graphene-like structures from biosourced materials as ultrahigh-power supercapacitors.  
Ba H., Wang W., Tuci G., Pronkin S., Weinberg C., Nguyen-Dinh L., Giambastiani G., Pham-Huu C.  
**Materials Today Energy**, 10, 118-125, 2018.
280. How to teach old dog new (electrochemical) tricks: aziridine-functionalized CNTs as efficient electrocatalysts for the selective CO<sub>2</sub> reduction to CO.  
Tuci G., Filippi J., Ba H., Rossin A., Luconi L., Pham-Huu C., Vizza F., Giambastiani G.  
**Journal of Materials Chemistry A**, 6, 16382-16389, 2018. (9.9) (Back cover)
281. Smart Engineering of Chemically Exfoliated MoS<sub>2</sub> in a "Click": How to generate versatile Multifunctional TMDs-Based Platforms.  
Tuci G., Mosconi D., Rossin A., Luconi L., Agnoli S., Righetto M., Pham-Huu C., Ba H., Cicchi S., Granozzi G., Giambastiani G.  
**Chemistry of Materials**, 30, 8257-8269, 2018. (9.9) (Cover)

## 2019

282. Pd decorated oxidized carbon felt as an efficient catalyst stirrer for cinnamaldehyde hydrogenation.  
Xu Z., Duong-Viet C., Baaziz W., Liu Y., Li B., Nguyen-Dinh L., Ersen O., Pham-Huu C.  
**Applied Catalysis B: Environment**, 224, 128-139, 2019. (14.2)
283. Nickel nanoparticles decorated nitrogen-doped carbon nanotubes as an efficient catalyst for CO<sub>2</sub> methanation.  
Wang W., Duong-Viet C., Ba H., Baaziz W., Tuci G., Nguyen-Dinh L., Ersen O., Giambastiani G., Pham-Huu C.  
**ACS Applied Energy Materials**, 2, 1111-1120, 2019.
284. Nanodiamond@N, P co-modified mesoporous carbon supported on macroscopic SiC foam for oxidative dehydrogenation of ethylbenzene.  
Feng L., Liu Y., Jiang Q., Liu W., Wu K.-H., Ba H., Pham-Huu C., Yang W., Su D. S.  
**Catalysis Today**, <https://doi.org/10.1016/j.cattod.2019.02.046>, 2019. (4.7)
285. CO<sub>2</sub> methanation under dynamic operational mode using nickel nanoparticles decorated carbon felt combined with inductive heating.  
Wang W., Duong-Viet C., Xu Z., Ba H., Tuci G., Giambastiani G., Liu Y., Truong-Huu T., Nhut J. M., Pham-Huu C.  
**Catalysis Today**, <https://doi.org/10.1016/j.cattod.2019.02.050>, 2019. (4.7)
286. N-doped 3D mesoporous carbon/CNT monolith as an efficient metal-free catalyst for continuous desulfurization reaction.  
Li S., Liu Y., Gong H., Wu K.-H., Ba H., Duong-Viet C., Jiang C., Pham-Huu C., Su D. S.  
**ACS Applied Nano Materials**, 2, 3780-3792, 2019.
287. Playing with Covalent Triazine Framework Tiles for Improved CO<sub>2</sub> Adsorption Properties and Catalytic Performance.  
Tuci G., Iemhoff A., Ba H., Luconi L., Rossin A., Papaefthimiou V., Palkovits R., Artz J., Pham-Huu C., Giambastiani G.  
**Bellstein Journal of Nanotechnology**, 10, 1217-1227, 2019. (3.1)

288. Induction Heating: an Enabling Technology for the Heat Management in Catalytic Processes. Giambastiani G., Wang W., Duong-Viet C., Tuci G., Nhut J. M., Pham-Huu C. **ACS Catalysis**, 9, 7921-7935, 2019 (12.2)
289. The Second Youth of a Metal-Free Dehydrogenation Catalyst: when  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Meets Coke Under Oxygen and Steam-Free Conditions. Ba H., Tuci G., Evangelisti C., Ceppatelli M., Nguyen-Dinh L., Del Santo V., Bossola F., Nhut J.-M., Rossin A., Granger P., Giambastiani G., Pham-Huu C. **ACS Catalysis**, 9, 9474-9484, 2019 (12.2)
290. Palladium supported on calcium decorated carbon nanotube hybrids for chemoselective hydrogenation of cinnamaldehyde. Ma Y., Feng L., Guo Z., Deng J., Pham-Huu C., Liu Y. **Frontiers in Chemistry**, 7, 751, 2019 (4.1)

## 2020

291. The use of carbon-based passive samplers coupled to an ASE/SPE/SPME GC-MSMS and LC-MSMS method for the quantification of pesticides in the atmosphere. Lévy M., Chimjarn S., Delhomme O., Pham-Huu C., Ba H., Millet M. *Journal Communications in Agricultural and Applied Biological Sciences*, in press, 2020.
292. Defects enriched N-doped carbon nanoflakes as robust carbocatalysts for H<sub>2</sub>S selective oxidation. Li S., Gu Q., Cao N., Jiang Q., Xu C., Jiang C., Pham-Huu C., Liu Y. *Journal of Materials Chemistry A*, 8, 8892-8902, 2020 (10.7) Hot Papers series
293. Identify Zr promotion effects in atomic scale for Co-based catalysts in Fischer-Tropsch synthesis. Piao Y., Jiang Q., Wang F., Liang J., Liu W., Pham-Huu C., Liu Y. **ACS Catalysis**, 10, 7894-7906, 2020. (12.2) (Cover)
294. Comparison and calibration of diverse passive samplers used for the air sampling of pesticides during a regional sampling monitoring campaign. Lévy M., Ba H., Pallares C., Pham-Huu C., Millet M. *Atmospheric Pollution Research*, 11, 1217-1225, 2020 (2.9)
295. Foldable flexible electronics based on few-layer graphene coated paper composites. Ba H., Sutter C., Papaefthimiou V., Zafeiratos S., Bahouka A., Lafue Y., Romero T., Nguyen-Dinh L., Romero T., Pham-Huu C. *Carbon*, 167, 169-180, 2020. (8.8)
296. CO<sub>2</sub> electrochemical reduction by exohedral N-pyridine decorated metal-free carbon nanotubes. Tuci G., Filippi J., Rossin A., Luconi L., Pham-Huu C., Yakhvarov D., Vizza F., Giambastiani G. *Energies*, 13, 2703, 2020. (3.8)
297. Nitrogen-doped carbon decorated silicon carbide catalyst for direct oxidation of sour gas containing aromatics. Duong-Viet C., Nhut J. M., Truong-Huu T., Nguyen-Dinh L., Liu Y., Tuci G., Pham C., Giambastiani G., Pham-Huu C. *Catalysis Science and Technology*, 10, 5487-5500, 2020. (5.7)
298. High-Density and Thermally Stable Palladium Single-Atom Catalysts for Chemoselective Hydrogenations. Ma Y., Ren Y., Liu W., Zhou Y., Liu Y., Baaziz W., Ersen O., Pham-Huu C., Greiner M., Chu W., Wang A., Zhang T. *Angewandte Chemie International Edition*, in press, 2020. (12.2)
299. Passive air samplers based on ceramic adsorbent for monitoring of pesticides, polycyclic aromatic hydrocarbons and polychlorinated biphenyls in outdoor air. Al-Alam J., Lévy M., Ba H., Pallares C., Pham-Huu C., Millet M. *Environmental Technology & Innovation*, 20, 101094, 2020 (3.3)
300. Cotton fabric coated with few-layer graphene as flexible e-textile composites for thermal applications. Ba H., Truong-Phuoc L., Sutter C., Bahouka A., Lafue Y., Nguyen-Dinh L., Romero T., Pronkin S., Giambastiani G., Pham-Huu C. *ACS Applied Nano Materials*, 3, 9771-9783, 2020.
301. Highly nickel-loaded  $\gamma$ -alumina composites for a radiofrequency-heated, low-temperature CO<sub>2</sub> methanation scheme. Wang W., Duong-Viet C., Tuci G., Nhut J. M., Nguyen-Dinh L., Liu Y., Giambastiani G., Pham-Huu C. *ChemSusChem*, 13, 5468-5479, 2020. (7.9) (VIP and Cover)

## 2021

302. Multimodal hybrid 2D networks via thiol-epoxides "click" reaction on 1T/2H MoS<sub>2</sub> polytypes. Tuci G., Rossin A., Pham-Huu C., Mosconi D., Luconi L., Granozzi G., Giambastiani G. *Materials Chemistry Frontiers*, 5, 3470-3479, 2021.
303. Cooperative effect of Pt single-atoms and nanoparticles supported on carbonaceous materials: Catalytic NO decomposition as a probe reaction. Granger P., Wu J., Ba H., Baaziz W., Ersen O., Nhut J. M., Giambastiani G., Pham-Huu C. *Applied Catalysis A: General*, 617, 118103, 2021.

304. Radiofrequency-driven selective oxidation of hydrogen sulphide on hierarchical metal-free catalyst decorated with defects.  
Truong-Huu T., Duong-Viet C., Duong-The H., Nhut J. M., Romero T., Truong-Phuoc L., Ba H., Nguyen-Dinh L., Pham-Huu C.  
*Applied Catalysis A: General*, 620, 118171, 2021.
305. Surface Oxygenate Species on TiC Reinforce Cobalt Catalyzed Fischer-Tropsch Synthesis.  
Jiang Q., Luo W., Piao Y., Ma J., Matsumoto H., Liu X., Züttel A., Parkhomenko K., Pham-Huu C., Liu Y.  
*ACS Catalysis*, accepted, 2021.
306. Measuring current-use pesticides in air: A comparison of silicon carbide foam to XAD as passive air samplers.  
Al-Alam J., Lévy M., Ba H., Pham-Huu C., Millet M.  
*Environmental Technology & Innovation*, 24, 101876, 2021.
307. Heteroatom doped monolithic carbocatalysts with improved sulfur selectivity and impurities tolerance for H<sub>2</sub>S selective oxidation.  
Xu C., Gu Q., Li S., Ma J., Zhou Y., Zhang X., Jiang C., Pham-Huu C., Liu Y.  
*ACS Catalysis*, 11, 8591-8604, 2021.
308. Porous silicon carbide (SiC): a chance for improving catalysts or just another active phase carrier?  
Tuci G., Liu Y., Rossin A., X. Guo, Pham Ch., Giambastiani G., Pham-Huu C.  
*Chemical Reviews*, 121, 10559-10665, 2021.
309. Half-sandwich nickel(II) NHC-picolyl complexes as catalysts for the hydrosilylation of carbonyl compounds: evidence for NHC-nickel nanoparticles under harsh conditions.  
Ulm F., Shahane S., Truong-Phuoc L., Romero T., Papaefthimiou V., Chetcuti M. J., Pham-Huu C., Michon Ch., Rittleng V.  
*European Journal of Inorganic Chemistry*, accepted, 2021.
310. Pd-SnO<sub>2</sub> catalyst with high surface area enhancing oxygen activation for catalytic CH<sub>4</sub> combustion.  
Wang Y., Liao X., Liu C. W., Liu Y., Hou J., Pham-Huu C.  
*Applied Surface Science*, 564, 150368, 2021.
311. Lightweight, few-layer graphene composites with improved electrothermal properties as efficient heating devices for de-icing applications.  
Ba H., Truong-Phuoc L., Romero T., Sutter C., Nhut J. M., Schlatter G., Giambastiani G., Pham-Huu C.  
*Carbon*, 182, 655-668, 2021.
312. A metal-ion open-gate towards high-density and atomically dispersed catalysts active phases: powering the Fe-N-C catalyst efficiency in Oxygen Reduction Reaction.  
Zhang X., Truong-Phuoc L., Liao X., Guci G., Papaefthimiou V., Zafeiratos S., Giambastiani G., Pronkin S., Pham-Huu C.  
*ACS Catalysis*, 11, 8915-8928, 2021.

## 2022

313. Radio-frequency induction heating powered low-temperature catalytic CO<sub>2</sub> conversion via bi-reforming of methane.  
Nguyen M. H., Phan M. C., Liu S., Pham-Huu C., Nguyen-Dinh L.  
*Chemical Engineering Journal* 430, 132934 (2022) (13.7)
314. Exohedrally functionalized carbon-based networks as catalysts for electrochemical syntheses.  
Tuci G., Rossin A., Zhang X., Pham-Huu C., Giambastiani G.  
*Current Opinion in Green and Sustainable Chemistry* 33, 100579 (2022) (6.5)
315. Assessing the Nature of Active Sites on Nanodiamonds as Metal-Free Catalysts for the EB-to-ST Direct Dehydrogenation Using a Catalytic Approach.  
Feng L., Ali S., Xu C., Cao S., Tuci G., Giambastiani G., Pham-Huu C., Liu Y.  
*ACS Catalysis* 12, 6119-6131 (2022) (13.7)
316. Inducing atomically dispersed Cl-FeN<sub>4</sub> sites for ORRs in the SiO<sub>2</sub>-mediated synthesis of highly mesoporous N-enriched C-networks.  
Zhang X., Truong-Phuoc L., Liao X., Papaefthimiou V., Pugliesi M., Tuci G., Giambastiani G., Pronkin S., Pham-Huu C.  
*Journal of Materials Chemistry A* 10, 6153-6164 (2022) (13.7)
317. Graphite Felt-Sandwiched Ni/SiC Catalysts for the Induction versus Joule-Heated Sabatier Reaction: Assessing the Catalyst Temperature at the Nanoscale.  
Truong-Phuoc L., Duong-Viet C., Tuci G., Rossin A., Nhut J.-M., Baaziz W., Ersen O., Arab M., Jourdan A., Giambastiani G., Pham-Huu C.  
*ACS Sustainable Chemical Engineering* 10, 622-632 (2022) (8.2)
318. Redox Transitions in Pseudocapacitor Materials: Criteria and Ruling Factors.  
Pronkin S. N., Shokina N. Y., Pham-Huu C.  
*IntechOpen Book Series "Redox Chemistry-From Molecules to Energy Storage"*, DOI: <http://dx.doi.org/10.5772/intechopen.104084> (2022)
319. Tailoring morphological and chemical properties of covalent triazine frameworks for dual CO<sub>2</sub> and H<sub>2</sub> adsorption.  
Tuci G., Iemhoff A., Rossin A., Yakhvarov D., Gatto M. F., Balderas-Xicoht-Encatl R., Zhang L., Hirscher M., Palkovits R., Pham-Huu C., Giambastiani G.  
*International Journal of Hydrogen Energy* 47, 8434-8445 (2022) (7.1)
320. Carbon-based Catalysts as a Sustainable and Metal-free tool for gas-phase Industrial Oxidation Processes.  
Tuci G., Rossin A., Pugliesi M., Ba H., Duong-Viet C., Liu Y., Pham-Huu C., Giambastiani G.  
*Wiley Series Book*, submitted (2022)

321. Design of a novel naphthiridine-based covalent triazine framework for carbon dioxide capture and storage applications.  
Tuci G., Pugliesi M., Rossin A., Pham-Huu C., Berretti E., Giambastiani G.  
*ChemistrySelect*, 7, e202203560, 2022. (2.3)
322. Is Fe-N-C an Alternative to Pt-based Electrocatalysts for the Next Generation of Proton Exchange Membrane Fuel Cells?  
Zhang X., Truong-Phuoc L., Asset T., Pronkin S., Pham-Huu C.  
*ACS Catalysis*, 12, 13853–13875, 2022. (13.7)
- ## 2023
323. Not Just Another Methanation Catalyst: Depleted Uranium Meets Nickel for a High-Performing Process Under Autothermal Regime.  
Truong-Phuoc L., Nhut J.-M., Sall S., Tuci G., Rossin A., Papaefthimiou V., Duong-Viet C., Petit C., Arab M., Jourdan A., Vidal L., Giambastiani G., Pham-Huu C.  
*ChemSusChem*, 16, e202201859, 2023. (9.1)
324. Pd-functionalized polydopamine-coated polyurethane foam as a highly reusable structured catalyst for selective alkyne semi-hydrogenation and Suzuki coupling under air.  
Peng H., Zhang X., Papaefthimiou V., Pham-Huu C., Ritleng V.  
*Green Chemistry*, 25, 264-279 (2023) (11.0)
325. Improving catalytic performance by induction heating: selective oxidation of H<sub>2</sub>S on nitrogen-doped carbon catalyst as model reaction.  
Wang W., Duong-Viet C., Truong-Huu T., Truong-Huu T., Nguyen M. H., Nguyen-Dinh L., Liu Y., Pham-Huu C.  
*New Journal of Chemistry*, 47, 1105-1116, 2023. (3.5)
326. NHC-olefin-nickel(0) particles as catalysts for the (Z)-selective hydrogenation of alkynes and ynamides.  
Gracia-Avello Mendez M., Golling S., Truong-Phuoc L., Vidal L., Romero T., Chetcuti M., Leroux F. R., Donnard M., Ritleng V., Pham-Huu C., Michon C.  
*Chemical Communications*, 59, 1537-1540, 2023. (6.1)
327. Activated Carbon Supported Nickel Catalyst for Selective CO<sub>2</sub> Hydrogenation to Methane by Induction Heating.  
Wang W., Truong-Phuoc L., Duong-Viet C., Nhut J.-M., Vidal L., Pham-Huu C.  
*Catalysis Today*, 418, 114073, 2023. (6.7)
328. Synergistic catalysis on atomic Ru-doped manganese oxide for aerobic oxidation of biomass-derived 5-hydroxymethylfurfural.  
Wang Y., Guo M., Wang Y., Liu X., Li X., Pham-Huu C., Liao X.  
*Applied Catalysis A: General*, 661, 119235 (2023) (5.7)
329. New development in carbon-based electrodes and electrolytes for enhancement of supercapacitor performance and safety.  
Zallouz S., Pronkin S.N., Le Meins J.-M., Pham-Huu C., Ghimbeu C. M.  
*Renewable Energy - Production and Distribution - Solution and Opportunities*, Elsevier Series Book Series, Jeguirim M., Dutourné P., Eds., pp. 353-408 (2022)
330. Durable M-N-C catalysts for Oxygen Reduction Reaction (ORR) and hydrogen peroxide reduction reaction (PRR) in platinum group metal-free direct borohydride fuel cells.  
Ko Y., Park J., Zhang X., Kang L., Pham T. H. M., Boureau V., Pham-Huu C., Kim J., Zhong L., Züttel A.  
*ChemRxiv*, DOI: 10.26434/chemrxiv-2023-p6bg9, 2023.
331. Metal-free electrocatalysts for the selective 2e-oxygen reduction reaction: a neverending story?  
Tuci G., Rossin A., Zhang X., Truong-Phuoc L., Berretti E., Liu Y., Pham-Huu C., Ali S., Jan F., Poggini L., Giambastiani G.  
*Chemistry: A European Journal*, 29, e202301036, 2023. (5.0)
332. Depleted uranium oxide supported nickel catalyst for autothermal CO<sub>2</sub> methanation in non-insulated reactor under induction heating.  
Truong-Phuoc L., Nhut J.-M., Vidal L., Duong-Viet C., Sall S., Petit C., Sutter C., Arab M., Jourdan A., Pham-Huu C.  
*Journal of Energy Chemistry*, 85, 310-323, 2023. (13.7)
333. Low-temperature synthesis of carbon nanofibers decorated graphite felt composites under inductive heating.  
Duong-Viet C., Truong-Phuoc L., Romero T., Nhut J.-M., Nguyen-Dinh L., Vidal L., Pham-Huu C.  
*Revista de Chimie*, 74, 47-65, 2023. (1.9)
334. Ultramicroporous N-doped activated carbon for high performance supercapacitors.  
Karakoc T., Ba H., Truong-Phuoc L., Bégin D., Pronkin S., Pham-Huu C.  
*Batteries*, 9, 436, 2023. (5.9)
335. Catalytic decomposition of methane to produce H<sub>2</sub> by induction heating: Efficiency evaluation via modelling approach.  
Dumont M., Essayed A., Pham X.-H., Truong-Phuoc L., Nhut J.-M., Pham-Huu C.  
*Comsol Conference Book*, 2023.
336. Catalytic pyrolysis of waste plastics to fuel on commercial porous carbon-based catalyst under contactless induction heating.  
Duong-Viet C., Truong-Phuoc L., Michon C., Nguyen-Dinh L., Nhut J.-M., Ba H., Pham C., Pham-Huu C.  
*Materials Today Catalysis*, 3, 100028, 2023.

## 2024

- Hierarchically porous, N-defect enriched C-nanosheets boost the H<sub>2</sub>S selective oxidation to elemental sulfur.**  
Li S., Fu H., Zhang X., Liu X., Xu C., Tuci G., Giambastiani G., Pham-Huu C., Liu Y.  
*Applied Catalysis B: Environment*, **343**, 123505, 2023. (22.1)
- Carbon-based catalysts as a sustainable and metal-free tool for gas-phase industrial oxidation processes.**  
Tuci G., Rossin A., Pugliesi M., Ba H., Duong-Viet C., Liu Y., Pham-Huu C., Giambastiani G.  
"Catalysis for a Sustainable Environment Reactions, Processes and Applied Technologies" Vol. 3, 1<sup>st</sup> Edition, Pombeiro A. J. L., Sutradhar M., Alegria E. C. B. A., John Wiley & Sons Ltd., pp. 225-245 (2024).
- All Platinum Group Metal-Free and Durable Catalysts for Direct Borohydride Fuel Cells.**  
Ko Y., Park J., Zhang X., Kang L., Pham T. H. M., Boureau V., Pham-Huu C., Kim J., Zhong L., Züttel A.  
*ACS Applied Energy Materials*, **7**, 639-648, 2024. (6.4)
- Structured carbon felt with chemical functionalization as Pd catalyst support for selective hydrogenation of cinnamaldehyde.**  
Xu Z., Li B., Bi J., Papaefthimiou V., Liu Y., Zafeiratos S., Romero T., Pham-Huu C.  
*Applied Surface Science*, **661**, 160055, 2024. (7.4)
- High-efficiency graphene-coated macroscopic composite for catalytic methane decomposition operated with induction heating.**  
Essyed A., Pham X.-H., Truong-Phuoc L., Romero T., Nhut J.-M., Duong-Viet C., Brazier A., Vidal L., Dath J.-P., Dumont M., Pham-Huu C.  
*Social Science Research Network*, DOI: 10.2139/ssrn.4672798, 2024.
- High-efficiency graphene-coated macroscopic composite for catalytic methane decomposition operated with induction heating.**  
Essyed A., Pham X.-H., Truong-Phuoc L., Romero T., Nhut J.-M., Duong-Viet C., Brazier A., Vidal L., Dath J.-P., Dumont M., Pham-Huu C.  
*Chemical Engineering Journal*, **485**, 150006, 2024. (15.1)

## C.2 Book Chapters

1. Study of the isomerization of C<sub>5</sub> and C<sub>6+</sub> alkanes over molybdenum oxycarbide catalysts.  
Ledoux M. J., Pham-Huu C., York A. P. E., Blekkan E. A., Delporte P., Del Gallo P.  
**The Chemistry of Transition Metal Carbides and Nitrides**, Oyama S. T., Ed., Blackie Academic and Professional, Chapman and Hall, 373-397, 1996.
2. Silicon carbide supports. New improvements in sulphur recovery.  
Ledoux M. J., Pham-Huu C., Keller N., Savin-Poncet S., Nougayrède J. B., Bousquet J., Boll W., Morgenroth R.  
**Sulphur**, 269, 41-47, 2000.
3. Silicon carbide: a novel catalyst support for heterogeneous catalysis.  
Ledoux M. J., Pham-Huu C.  
**CaTech**, Vol. 5(4), 226-246, 2001.
4. Carbon and silicon carbide nanotubes containing catalysts.  
Pham-Huu C., Ersen O., Ledoux M. J.  
**Nanoparticles in Catalysis**, Wiley-VCH, 2007.
5. Advances in the use of carbon nanomaterials in catalysis.  
Louis B., Bégin D., Ledoux M. J., Pham-Huu C.  
**Nanomaterials for Catalysis**, Elsevier Pub., 2007.

### C.3 Communications and Posters

1. New synthesis, activation and catalytic uses of high specific surface carbide ceramics.  
Ledoux M. J., Guille J., Hantzer S., Marin S., Pham-Huu C.  
**Fall Meeting Materials Research Society**, Boston, United-States 1990.
2. Oxidative coupling of methane on doped silicon carbide.  
Ledoux M. J., Marin S., Pham-Huu C., Guille J., Korf S. J., Ross J. R. H.  
**12th North American Meeting**, San Francisco, United-States 1991.
3. *n*-Hexane isomerization on high specific surface Mo<sub>2</sub>C activated by an oxidative treatment.  
Ledoux M. J., Pham-Huu C., Dunlop H. M., Guille J.  
**10th International Congress on Catalysis**, 1993.
4. *n*-Hexane isomerization on oxygen modified high surface area Mo<sub>2</sub>C catalyst.  
Pham-Huu C., Blekkan E. A., Del Gallo P., Ledoux M. J.  
**Europacat-I**, 1993.
5. HRTEM study of metal-additive interaction in Pt-Rh catalysts supported on Ce doped SiC.  
Benaïssa M., Pham-Huu C., Werckmann J., Ledoux M. J., Guille J.  
**13th International Congress on Electron Microscopy**, 1994.
6. Characterization of molybdenum oxycarbide as an active catalyst for hydrocarbons isomerization.  
Ledoux M. J., Delporte P., Pham-Huu C.  
**Fall Meeting Materials Research Society**, 1995.
7. Molybdenum oxycarbide isomerization catalyst for cleaner fuel production.  
Ledoux M. J., Del Gallo P., Pham-Huu C., York A. P. E.  
**1st World Conference on Environmental Catalysis**, 1995.
8. Evidence of a new very active and selective catalyst for hydrocarbon isomerization: molybdenum oxycarbide.  
Ledoux M. J., Pham-Huu C., Blekkan E. A., York A. P. E., Delporte P., Guille J., Fonseca A., Derouane E. G.  
**2nd TOCAT**, 1995.
9. Selective *n*-heptane isomerization: effect of basic nitrogen compounds on MoO<sub>3</sub>-carbon-modified and Pt/□-zeolithe.  
Del Gallo P., Pham-Huu C., Blekkan E. A., Ledoux M. J.  
**Proceedings of the Europacat-II**, 1, 639, 1995.
10. New alkane dehydrogenation catalyst based on molybdenum oxycarbide.  
Ledoux M. J., Pham-Huu C., Meunier F., Del Gallo P., Krause A. O. I., Niemi V.  
**11th International Congress on Catalysis**, 1996.
11. High temperature H<sub>2</sub>S removal over iron oxide supported on high surface area SiC.  
Pham-Huu C., Estournès C., Heinrich B., Crouzet C., Ledoux M. J.  
**7th International Congress on Ferrites**, 1997.
12. High surface area silicon carbide doped with zirconium for use as heterogeneous catalyst support.  
Ledoux M. J., Pham-Huu C., Bouchy C., Del Gallo P., Estournès C., Crouzet C., Heinrich B.  
**Congress of the Materials Research Society**, 1997.
13. Synthesis and characterization of high specific surface area vanadium carbide, application to catalytic oxidation.  
Delporte P., Heinrich B., Bouchy C., Crouzet C., Pham-Huu C., Lerou J. J., Ledoux M. J.  
**3rd European Congress on Catalysis**, 1, 201, 1997.
14. Selective branching of long chain *n*-alkanes.  
Roy S., Bouchy C., Pham-Huu C., Crouzet C., Ledoux M. J.  
**AIChE Meetings**, 201-207, 1998.
15. Preparation and characterization of the hollow high surface area SiC microfibers containing no whiskers and chromium carbide. Catalytic applications.  
Ledoux M. J., Keller N., Lamprell H., Pham-Huu C., Heinrich B., Estournès C., Harlin M. E.  
**7th International Symposium for the Preparation of Heterogeneous Catalysts**, Studied Surface Science and Catalysis, 118, 855-868, 1998.
16. Dehydrogenation of *n*-butane with molybdenum catalysts supported on SiC.  
Harlin M. E., Krause A. O. I., Ledoux M. J., Meunier F., Heinrich B., Pham-Huu C.  
**8th Nordic Symposium on Catalysis**, 28-29, 1998.
17. New catalysts and new processes based on SiC support for direct H<sub>2</sub>S oxidation into elemental sulfur.  
Ledoux M. J., Pham-Huu C., Keller N., Crouzet C., Savin-Poncet S., Nougayrède J. B., Bousquet J.  
**2nd International Conference on Environmental Catalysis**, AIChE, 80-81, 1998.
18. Nouvelle synthèse et caractérisation de céramiques carbure (SiC, Mo<sub>2</sub>C, WC) à haute surface spécifique, pour les applications en catalyse.  
Ledoux M. J., Pham-Huu C.  
**Journées d'Automne de la Société Française de Métallurgie et de Matériaux**, 45, 1998.
19. Characterization of the MoO<sub>3</sub>-carbon-modified supported on SiC deactivated in *n*-butane dehydrogenation reaction.

- Heinrich B., Harlin M. E., Pham-Huu C., Krause A. O. I., Ledoux M. J.  
**8th International Symposium on Catalyst Deactivation**, Studied Surface Science and Catalysis, 126, pp. 163-170, 1999.
20. Oxydation sélective de l'H<sub>2</sub>S en soufre élémentaire sur catalyseur NiS<sub>2</sub>/SiC. Keller N., Pham-Huu C., Ledoux M. J. **GECAT**, C16, 1999.
21. Preparation and characterization of the alumina coated SiC material for use as heterogeneous catalysis support. Heinrich B., Pham-Huu C., Ledoux M. J. **Europacat-IV**, 43, 1999.
22. Selective oxidation of H<sub>2</sub>S into elemental sulfur over NiS<sub>2</sub>/SiC catalyst at low temperature (60 °C). Keller N., Pham-Huu C., Ledoux M. J. **Europacat-IV**, 1999.
23. Selective oxidation of H<sub>2</sub>S in the Claus tail-gas over SiC supported NiS<sub>2</sub> catalyst. Keller N., Pham-Huu C., Ledoux M. J., Nougayrède J. B., Savin-Poncet S., Bousquet J. **6th European Workshop on Selective Oxidation**, 1999.
24. Silicon carbide supported NiS<sub>2</sub> catalyst for the selective oxidation of H<sub>2</sub>S in Claus tail-gas. Keller N., Pham-Huu C., Ledoux M. J., Nougayrède J. B., Savin-Poncet S., Bousquet J. **12th International Congress on Catalysis**, 2000.
25. Selective isodewaxing catalyst based on the molybdenum oxycarbide. Roy S., Pham-Huu C., Bouchy C., Crouzet C., Ledoux M. J. **12th International Congress on Catalysis**, 2000.
26. Etude comparative de l'isomérisation des paraffines linéaires à longue chaîne sur Pt/zeolithe et sur oxycarbure de molybdène. Roy S., Pham-Huu C., Ledoux M. J. **Congrès de la Société Française de Chimie**, 2000.
27. Silicon carbide nanotubes and their use as catalyst support. Ledoux M. J., Pham-Huu C., Keller N. **Congress of the Materials Research Society**, 2000.
28. Decoration of silicon carbide nanotubes by Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub> spinel nanoparticles. Estournès C., Pham-Huu C., Keller N., Ledoux M. J. **Congress of the Materials Research Society**, 2000.
29. Decoration of silicon carbide nanotubes by Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub> spinel nanoparticles. Estournès C., Pham-Huu C., Keller N., Ledoux M. J. **Congress of the Materials Research Society**, 2001.
30. New catalysts and processes based on SiC support for selective oxidation of H<sub>2</sub>S into elemental sulfur. Keller N., Nhut J. M., Pham-Huu C., Ledoux M. J., Bousquet J. **2nd International Symposium on the Molecular Aspects of Catalysis by Sulfides (MACS II)**, 2001.
31. Selective oxidation of H<sub>2</sub>S into elemental sulfur over SiC supported iron based catalyst. Ledoux M. J., Pham-Huu C., Keller N. **4th World Congress on Oxidation Catalysis**, 2001.
32. Carbon nanotubes as catalyst for the oxidative dehydrogenation of ethylbenzene to styrene. N. Maksimova, N. Keller, V. Roddatis, G. Mestl, R. Schlögl, C., Pham-Huu C., Ledoux M. J. **17th North American Catalysis Society Meeting**, 2001.
33. Large scale synthesis of carbon nanofibers by catalytic decomposition of hydrocarbon. Pesant L., Winé G., Vieira R., Leroi P., Keller N., Pham-Huu C., Ledoux M. J. **Catalyst Preparation** 2002.
34. Carbon nanotubes: a highly selective support for the C=C bond hydrogenation reaction. Tessonnier J. P., Pesant L., Ehret G., Pham-Huu C., Ledoux M. J. **Catalyst Preparation**, 2002.
35. Carbon nanotubes-based catalysts: new perspectives for the low-temperature H<sub>2</sub>S removal. Nhut J. M., Vieira R., Keller N., Pham-Huu C., Boll W., Ledoux M. J. **Catalyst Preparation**, 2002.
36. Matériaux carbonés nanostructurés pour la catalyse: la synthèse du styrène. Keller N., Maksimova N., Roddatis V. V., Mestl G., Pham-Huu C., Kuznetsov V. L., Schlögl R., Ledoux M. J. **Congrès Matériaux 2002**, 2002.
37. Nanotubes de carbure de silicium: un nouveau support pour la catalyse. Keller N., Pham-Huu C., Ledoux M. J. **Congrès Matériaux 2002**, 2002.
38. New catalytic phenomena on nanostructured (fibres and tubes) catalysts. Ledoux M. J., Pham-Huu C., Keller N. **XXXV Jahrestreffen Deutscher Katalytiker**, 2002.
39. New carbon nanofibers composite with designed macroscopic shape as catalyst support. Vieira R., Nhut J. M., Pham-Huu C., Keller N., Ledoux M. J. **Carbon** 2003, 2003.
40. Carbon nanotubes as template for mild synthesis of CoFe<sub>2</sub>O<sub>4</sub> nanowires: a new use of the confinement effect. Keller N., Pham-Huu C., Estournès C., Ehret G., Ledoux M. J.



- Carbon 2003**, 2003.
41. Réaction de Friedel-Crafts en mode lit-fixe sur catalyseur à base de zéolithe supportée sur du carbure de silicium.  
Winé G., Tessonnier J. P., Rigolet S., Marichal C., Matta J., Pham-Huu C., Ledoux M. J.  
**GECAT**, 2003.
  42. Isothermal Diesel Carbon Particles (DCPs) catalytic combustion over Pt/b-SiC catalyst.  
Pesant L., Matta J., Garin F., Bernhardt P., Pham C., Pham-Huu C., Ledoux M. J.  
**Sixth International Congress on Catalysis and Automotive Pollution Control (CAPoC 6)**, 2003.
  43. Pd/SiC exhaust gas catalyst for heavy-duty engines. Improvement of catalytic performances by controlling the location of the active phase on the support.  
Nhut J. M., Pesant L., Keller N., Pham-Huu C., Ledoux M. J.  
**Sixth International Congress on Catalysis and Automotive Pollution Control (CAPoC 6)**, 2003.
  44. Zeolite supported on SiC as catalyst for Friedel-Crafts reaction.  
Winé G., Tessonnier J. P., Matta J., Rigolet S., Marichal C., Pham-Huu C., Ledoux M. J.  
**12<sup>th</sup> Brazilian Congress on Catalysis**, 2003.
  45. Large scale synthesis of carbon nanofibers for use as liquid-phase catalyst support.  
Pesant L., Winé G., Matta J., Vieira R., Keller N., Pham-Huu C., Ledoux M. J.  
**12<sup>th</sup> Brazilian Congress on Catalysis**, 2003.
  46. Carbon nanofibers with macroscopic shaping for use as catalyst support. Towards the design of catalyst with minimum mass transfer limitation.  
Vieira R., Matta J., Nhut J. M., Tessonnier J. P., Pham-Huu C., Keller N., Ledoux M. J.  
**12<sup>th</sup> Brazilian Congress on Catalysis**, 2003.
  47. Beta zeolite supported on SiC for use as catalyst in a fixed-bed Friedel-Crafts reaction.  
Winé G., Tessonnier J. P., Matta J., Pham-Huu C., Ledoux M. J.  
**Europacat-VI**, 2003.
  48. Catalytic partial oxidation of methane (CatPOx) over a strong Ni/SiC catalyst.  
Leroi P., Madani B., Pham-Huu C., Ledoux M. J.  
**Europacat-VI**, 2003.
  49. Macroscopic shaping of carbon nanofibers for use as catalyst support.  
Vieira R., Nhut J. M., Keller N., Pham-Huu C., Ledoux M. J.  
**Europacat-VI**, 2003.
  50. High yield synthesis of multi-walled carbon nanotubes by catalytic decomposition of hydrocarbons over iron supported catalysts.  
Gulino G., Milone C., Pham-Huu C., Ledoux M. J., Galvagno S.  
**XIV Congresso Nazionale di Catalisi**, 2004.
  51. Ni/SiC catalyst: a new and performant catalyst for catalytic partial oxidation of methane into synthesis gas.  
Leroi P., Madani B., Pham-Huu C., Ledoux M. J., Savin-Poncet S., Bousquet J. L.  
**Selective Oxidation Workshop**, 2004.
  52. Carbon nanotubes as nanosized catalytic reactor for the selective oxidation of H<sub>2</sub>S into elemental sulfur.  
Nhut J. M., Nguyen P., Pham-Huu C., Keller N., Ledoux M. J.  
**Selective Oxidation Workshop**, 2004.
  53. Synthèses de zéolithes 1D assistées par les nanotubes de carbone.  
Winé G., Tessonnier J. P., Pham-Huu C., Ledoux M. J.  
**Gecat**, 2004.
  54. Acétylation de l'anisole catalysée par une zéolithe bêta/SiC.  
Winé G., Tessonnier J. P., Pham-Huu C., Ledoux M. J.  
**Gecat**, 2004.
  55. Liquid-phase Friedel-Crafts reaction over H-BEA coated on silicon carbide.  
Winé G., Tessonnier J. P., Rigolet S., Marichal C., Pham-Huu C., Ledoux M. J.  
**13<sup>th</sup> International Congress on Catalysis**, 2004.
  56. Catalytic combustion of Diesel Carbon Particulates (DCPs) over a stable and active Pt/b-SiC catalyst.  
Pesant L., Pham C., Bernhardt P., Wolf M., Garin F., Pham-Huu C., Ledoux M. J.  
**13<sup>th</sup> International Congress on Catalysis**, 2004.
  57. Selective oxidation of H<sub>2</sub>S into elemental sulfur over NiS<sub>2</sub> casted in the multi-walled carbon nanotubes.  
Nhut J. M., Nguyen P., Pham-Huu C., Ledoux M. J.  
**13<sup>th</sup> International Congress on Catalysis**, 2004.
  58. High yield production of uniform multi-walled carbon nanotubes by catalytic decomposition of C<sub>2</sub>H<sub>6</sub>/H<sub>2</sub> over Fe/SiO<sub>2</sub> catalyst.  
Gulino G., Pham-Huu C., Galvagno S., Centi G., Ledoux M. J.  
**13<sup>th</sup> International Congress on Catalysis**, 2004.
  59. Hydrazine decomposition over iridium supported on carbon nanofibers composite for space applications.  
Vieira R., Pham-Huu C., Ledoux M. J.  
**3<sup>rd</sup> European Workshop on Hydrazine**, 2004.
  60. Carbon nanotubes as a 1D template for the synthesis of air sensitive materials.  
Tessonnier J. P., Estournès C., Leuvre C., Pham-Huu C., Ledoux M. J.  
**Carbocat**, 2004.
  61. High yield synthesis of multi-walled carbon nanotubes by catalytic decomposition of ethane over iron supported on alumina catalyst.  
Louis B., Gulino G., Amadou J., Vieira R., Galvagno S., Centi G., Pham-Huu C., Ledoux M. J.  
**Carbocat**, 2004.

62. Electrocatalytic performance of nanostructured platinum-carbon materials.  
Gangeri M., Centi G., Perathoner S., Vieira R., Pham-Huu C., Ledoux M. J.  
**Carbocat**, 2004.
63. Carbon nanostructures for catalytic applications.  
Ledoux M. J., Pham-Huu C.  
**Carbocat**, 2004.
64. Synthesis and characterisation of 1D Y-zeolite confined inside multi-walled carbon nanotubes.  
Lacroix M., Louis B., Tessonnier J. P., Pham-Huu C., Ledoux M. J.  
**3<sup>rd</sup> FEZA conference**, 2005.
65. Quantitative Brønsted acid sites determination on zeolites : a new approach towards the chemical composition of zeolites.  
Louis B., Walspurger S., Tessonnier J. P., Pham-Huu C., Ledoux M. J., Sommer J.  
**3<sup>rd</sup> FEZA conference**, 2005.
66. Ga-SBA-15: a new and active Friedel-Crafts catalyst.  
El Berrichi Z., Louis B., Tessonnier J. P., Aouali L., Pham-Huu C., Ledoux M. J.  
**3<sup>rd</sup> FEZA conference**, 2005.
67. Monitoring of multi-walled carbon nanotubes growth by Tapered Element Oscillating Microbalance.  
Svercek V., Le Normand F., Amadou J., Dintzer Th., Pham-Huu C., Begin D., Louis B., Ledoux M. J.  
**Congress of the Materials Research Society**, 2005.
68. Experimental study of the multi-walled carbon nanotubes growth mechanism as a function of the catalyst supports.  
Svercek V., Le Normand F., Dintzer Th., Ersen O., Joulie S., Pham-Huu C., Begin D., Louis B., Ledoux M. J.  
**Sixth International Conference on the Science and Application of Nanotubes**, 2005.
69. Monitoring temperature dependence growth of carbon nanotubes by TEOM.  
Svercek V., Le Normand F., Dintzer Th., Ersen O., Joulie S., Pham-Huu C., Begin D., Louis B., Ledoux M. J.  
**Sixth International Conference on the Science and Application of Nanotubes**, 2005.
70. Déshydrogénation oxydante du 9,10-dihydroanthracène catalysée par des nanotubes de carbone (NTC).  
Winé G., Amadou J., Bégin D., Fu Qiang, Su D. S., Perathoner S., Centi G., Schlögl R., Ledoux M. J., Ziessel R., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
71. Electroréduction directe du CO<sub>2</sub> en hydrocarbure.  
Winé G., Gangeri M., Perathoner S., Centi G., Ledoux M. J., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
72. Lits catalytiques structurés formés par cristallisation in situ de zéolithes sur support b-SiC: un catalyseur performant pour la réaction MTO.  
Ivanova S., Louis B., Madani B., Tessonnier J. P., Ledoux M. J., Ziessel R., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
73. Combustion catalytique sur mousse de SiC alvéolaire des particules de suie issues des automobiles à moteur diesel.  
Vanhaecke E., Ledoux M. J., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
74. Elaboration de composites C/C/C renforcés par des nanofibres de carbone.  
Houllé M., Deneuve A., Amadou J., Bégin D., Ledoux M. J., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
75. Nanotubes de carbone sous forme de papier buvard comme support de catalyseur pour l'oxydation sélective de l'H<sub>2</sub>S en soufre élémentaire.  
Janowska I., Nguyen P., Vanhaecke E., Ledoux M. J., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
76. Désulfuration sélective des effluents gazeux contenant des traces d'H<sub>2</sub>S sur un catalyseur à base de Fe<sub>2</sub>O<sub>3</sub>/SiC.  
Nguyen P., Nhut J. M., Pham Ch., Ledoux M. J., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
77. Mise en forme des composites C/C/C par frittage flash (Spark Plasma Sintering).  
Houllé M., Amadou J., Estournès C., Ledoux M. J., Pham-Huu C.  
**Matériaux 2006**, 13-17 Novembre, Dijon France, 2006.
78. A kinetic model for growth of multi-walled carbon nanotubes by CCVD.  
Le Normand F., Svrcek V., Senger A., Dintzer Th., Ledoux M. J., Pham-Huu C.  
**Trends in Materials and Nanosciences**, 21-24 Novembre, Strasbourg, France, 2006.
79. Carbon nanofibers grown over graphite supported nickel catalyst: relationship between octopus-like growth mechanism and macro-shaping.  
Louis B., Pham-Huu C., Vieira R., Carvalho A., Amadou J., Dintzer Th., Ledoux M. J.  
**Trends in Materials and Nanosciences**, 21-24 Novembre, Strasbourg, France, 2006.
80. Structure and catalytic activity of heat treated multi-walled carbon nanotubes.  
Winé G., Amadou J., Fu Q., Perathoner S., Centi G., Su D. S., Schlögl R., Bégin D., Ziessel R., Ledoux M. J., Pham-Huu C.

- Trends in Materials and Nanosciences**, 21-24 Novembre, Strasbourg, France, 2006.
81. ZSM-5 nanowires assembly supported on medium surface area foam b-SiC composite with nanoscopic surface properties. Ivanova S., Vanhaecke E., Pham Ch., Pham-Huu C. **NanoSMat**, July 9-11, Algarve (Portugal), 2007.
  81. Utilisation de nanostructures de carbone comme support de catalyseurs. Houllé M., Bégin D., Ledoux M. J., Pham-Huu C. **PACTE (Piles A Combustible Tout Electrolyte)**, Nancy (France), pp.20-21, 2007.
  82. Benzoylation of anisole catalysed by Ga-SBA-15 supported on SiC. El Berrichi Z., Pham-Huu C., Chérif L., Louis B., Ledoux M. J. **VIII Europacat**, Turku (Finland), pp., 2007.
  83. Dual support SiC-nanofibers/SiC foam as diffusionless catalyst support. Vanhaecke E., Leroi P., Winé G., Pham-Huu C. **VIII Europacat**, Turku (Finland), pp., 2007.
  84. Aligned multi-walled carbon nanotubes with macroscopic shaping for direct use as catalyst support in liquid-phase reaction. Janowska I., Winé G., Pham-Huu C. **VIII Europacat**, pp., 2007.
  85. High strength C/C composite generated by catalytic route. Houllé M., Amadou J., Deneuve A., Bégin D., Pham-Huu C. **VIII Europacat**, Turku (Finland), pp., 2007.
  86. Microwaves (MW) assisted Friedel-Crafts reaction over BEA/SiC foam catalyst. Winé G., Ivanova S., Vanhaecke E., Pham-Huu C. **VIII Europacat**, Turku (Finland), pp., 2007.
  87. New electrocatalysts based on carbon nanotubes: enhanced properties and resistance to deactivation by CO by using short length carbon nanotubes. Perathoner S., Centi G., Gangeri M., Amadou J., Bégin D., Pham-Huu C., Ledoux M. J. **VIII Europacat**, Turku (Finland), pp., 2007.
  88. A new catalyst support for exothermic reactions: pressure drop measurements and hydrodynamic model description of SiC foams. Lacroix M., Schweich D., Nguyen P., Savin S., Pham-Huu C., Edouard D. **VIII Europacat**, Turku (Finland), pp., 2007.
  89. Carbon nanotubes bucky paper as catalyst support. Janowska I., Nguyen P., Pham-Huu C. **VIII Europacat**, Turku (Finland), pp., 2007.
  90. Combined CH<sub>4</sub> reforming on Ni/□-SiC. Influence of the oxygen pretreatment on the CO<sub>2</sub> reforming of methane. Nguyen D. L., Leroi P., Ledoux M. J., Pham-Huu C. **VIII Europacat**, Turku (Finland), pp., 2007.
  91. A new catalyst support for exothermic reactions: pressure drop measurements and hydrodynamic model description of SiC foams. Lacroix M., Schweich D., Nguyen P., Savin S., Pham-Huu C., Edouard D. **VIII Europacat**, Turku (Finland), pp., 2007.
  92. A new catalyst support for exothermic reactions: pressure drop measurements and hydrodynamic model description of SiC foams. Lacroix M., Schweich D., Nguyen P., Savin S., Pham-Huu C., Edouard D. **VIII Europacat**, Turku (Finland), pp., 2007.
  93. In situ monitoring the thermal dependence of the growth of carbon nanotubes by Chemical Vapour Deposition by Tapered Element Oscillating Microbalance. Le Normand F., Svrcek V., Senger A., Gulas M., Fleaca C., Dintzer Th., Pham-Huu C., Ledoux M. J. **E-MRS Spring Meeting**, pp., 2007.
  94. Synthesis of carbon "nano" filaments using CuNi as a catalyst. Influence of the support on their morphology and characteristics. Houllé M., Amadou J., Deneuve A., Bégin D., Pham-Huu C. **NT'07 (Formation and Characterization of Unusual Nanostructures)**, pp., 2007.
  95. Iron nanoparticles casted inside carbon nanotubes channel: microstructure and magnetic properties. Houllé M., Amadou J., Janowska I., Tessonnier J. P., Bégin D., Bégin S., Wang D., Schlögl R., Pham-Huu C. **NT'07 (Chemical Modification of Nanotubes)**, pp., 2007.
  96. Direct synthesis of nitrogen-doped carbon nanotubes. Changes in morphology and characteristics. Amadou J., Houllé M., Bégin D., Pham-Huu C. **NT'07 (Chemical Modification of Nanotubes)**, pp., 2007.
  97. Microwave-promoted hydrogenation and C-C coupling with palladium supported on multi-walled carbon nanotubes. Amadou J., Olivier J. H., Camerel F., Ziesel R., Pham-Huu C. **NT'07 (Morphology and Application of Modified Nanotubes)**, pp., 2007.
  98. ELCAT project: Electrocatalytic gas-phase conversion of CO<sub>2</sub> in catalytic confined in carbon nanotubes. Amadou J., Winé G., Tessonnier J. P., Gangeri M., Perathoner S., Bégin D., Su D. S., Schlögl R., Centi G., Pham-Huu C. **NT'07 (Morphology and Application of Modified Nanotubes)**, pp., 2007.
  99. Microwave-promoted hydrogenation and C-C coupling with palladium supported on multi-walled carbon nanotubes. Amadou J., Olivier J. H., Camerel F., Ziesel R., Pham-Huu C.

- NT'07** (Morphology and Application of Modified Nanotubes), pp., 2007.
100. Application de la microscopie électronique 3D à l'étude des matériaux pour la catalyse hétérogène.  
Ersen O., Werckmann J., Ulhaq C., Hirlimann Ch., Tihay F., Pham-Huu C., Crucifix C., Schultz P.  
**Colloque SFμ-2007**, 2007.
  101. Use and characterization of  $\alpha$ -SiC foams for heterogeneous catalysis applications.  
Lacroix M., Edouard D., Nguyen P., Pham-Huu C.  
**Fifth European Conference on Catalysis Paul Sabatier**, 12-16 September, Ottrott, France, 2007.
  102. Dual support SiC nanofibers/SiC foam as diffusionless catalyst support.  
Vanhaecke E., Leroi P., Winé G., Pham-Huu C.  
**Fifth European Conference on Catalysis Paul Sabatier**, 12-16 September, Ottrott, France, 2007.
  103. Direct synthesis of nitrogen-doped carbon nanotubes. Changes in morphology and characteristics.  
Amadou J., Houllé M., Bégin D., Pham-Huu C.  
**Fifth European Conference on Catalysis Paul Sabatier**, 12-16 September, Ottrott, France, 2007.
  104. Microstructural investigation of  $\text{CoFe}_2\text{O}_4$  nanowires inside carbon nanotubes by electron tomography.  
Houllé M., Amadou J., Janowska I., Pham-Huu C., Ersen O., Bégin S., Grenèche J. M., Crucifix C.  
**Fifth European Conference on Catalysis Paul Sabatier**, 12-16 September, Ottrott, France, 2007.
  105. Synthèse des nanotubes de carbone dopés à l'azote.  
Amadou J., Houllé M., Janowska I., Bégin D., Pham-Huu C.  
**GDR PACTE**, 23-25 Octobre, Nancy, France, 2007.
  106. Macroscopic aligned carbon nanotubes for fine chemical processes.  
Janowska I., Winé G., Chizari K., Houllé M., Amadou J., Ersen O., Pham-Huu C.  
**ChemOnTubes**, 6-9 April, Saragoza, Spain, pp. 48, 2008.
  107. Magnetic nanoparticles casted inside carbon nanotubes:  $\text{CoFe}_2\text{O}_4$  nanowires.  
Houllé M., Amadou J., Grenèche J. M., Bégin S., Ersen O., Pham-Huu C.  
**ChemOnTubes**, 6-9 April, Saragoza, Spain, pp. 52, 2008.
  109. 3D-TEM as a new investigation tool for the characterisation of catalytic active phases.  
Houllé M., Ersen O., Ledoux M. J., Pham-Huu C.  
**ChemOnTubes**, 6-9 April, Saragoza, Spain, pp. 92, 2008.
  108. Microwaves assisted Sonogashira reaction on Pd/carbon nanotubes catalyst.  
Janowska I., Amadou J., Olivier J. H., Ziessel R., Ersen O., Pham-Huu C.  
**ChemOnTubes**, 6-9 April, Saragoza, Spain, pp. 93, 2008.
  109. High aspect ratio titanate nanotubes decorated by Au or Wox nanoparticles. 3D electron microscopy study and photocatalytic efficiency.  
Keller N., Rosseler O., Grandcolas M., Keller V., Pham-Huu C., Louvet A., Ersen O., Werckmann J.  
**ChemOnTubes**, 6-9 April, Saragoza, Spain, pp. 95, 2008.
  110. N-doped carbon nanotubes as support for selective hydrogenation catalysts.  
Amadou J., Houllé M., Chizari K., Janowska I., Bégin D., Pham-Huu C.  
**ChemOnTubes**, 6-9 April, Saragoza, Spain, pp. 170, 2008.
  111. Nanostructured reactor (NSR) concept for chemical processes.  
Janowska I., Carvalho A., Ersen O., Keller-Spitzer V., Keller N., Ledoux M. J., Pham-Huu C.  
**NT'08**, Montpellier (France), 2008.
  112. Nanostructured reactor (NSR) concept for chemical processes.  
Janowska I., Carvalho A., Ersen O., Keller-Spitzer V., Keller N., Ledoux M. J., Pham-Huu C.  
**NT'08**, Montpellier (France), 2008.
  113. Nanostructured reactor (NSR) concept for chemical processes.  
Janowska I., Carvalho A., Ersen O., Keller-Spitzer V., Keller N., Ledoux M. J., Pham-Huu C.  
**NT'08**, Montpellier (France), 2008.
  114. Nanostructured reactor (NSR) concept for chemical processes.  
Janowska I., Carvalho A., Ersen O., Keller-Spitzer V., Keller N., Ledoux M. J., Pham-Huu C.  
**NT'08**, Montpellier (France), 2008.
  115. Nanocarbon and carbide materials for selectivity in heterogeneous catalysis.  
Ledoux M. J., Pham-Huu C.  
**Pre-Symposium ICC (Invited lecture)**, Kyoto (Japan), 2008.
  115. Nanostructured reactor (NSR) concept for chemical processes.  
Janowska I., Carvalho A., Ersen O., Keller-Spitzer V., Keller N., Ledoux M. J., Pham-Huu C.  
**Pre-Symposium ICC**, Kyoto (Japan), 2008.
  116. Nanostructured reactor (NSR) concept for chemical processes.  
Janowska I., Carvalho A., Ersen O., Keller V., Keller N., Ledoux M. J., Pham-Huu C.  
**14th International Congress on Catalysis**, Seoul (Korea), 2008.

117. TEM tomography (3D TEM) study of the metal particles location inside carbon nanotubes. Houllé M., Amadou J., Deneuve A., Ersen O., Ledoux M. J., Pham-Huu C.  
**14th International Congress on Catalysis**, Seoul (Korea), 2008.
118. Highly selective catalyst for dimethyl ether production by methanol dehydration: catalytic system optimisation. Ivanova S., Vanhaecke E., Pham Ch., Ledoux M. J., Pham-Huu C.  
**14th International Congress on Catalysis**, Seoul (Korea), 2008.
118. A new option in CO<sub>2</sub> recycle: conversion to long-chain alcohols and hydrocarbons. Gangari M., Caudo S., Perathoner S., Centi G., Bégin D., Pham-Huu C., Tessonnier J. P., Su D. S.  
**5th International Conference on Environmental Catalysis**, 31st August - 3rd September, Belfast (Ireland), 2008.
120. CNTs-microreactor concept for chemical processes. Janowska I., Liu Y., Carvalho A., Edouard D., Keller V., Keller N., Ledoux M. J., Pham-Huu C.  
**E-MRS Fall Meeting**, Warsaw (Poland), 2008.
121. Highly selective catalyst for dimethyl ether production by methanol dehydration: catalytic system optimisation. Ivanova S., Vanhaecke E., Pham Ch., Ledoux M. J., Pham-Huu C.  
**E-MRS Fall Meeting**, Warsaw (Poland), 2008.
122. Hybrid micro-structured reactor (HMSR) concept for chemical processes. Liu Y., Janowska I., Edouard D., Pham-Huu C.  
**3rd International Carbocat**, Berlin (Germany), 2008.
123. Influence of the synthesis parameters on the physical properties of the N-doped carbon nanotubes. Chizari K., Janowska I., Ovidiu E., Houllé M., Bégin D., Pham-Huu C.  
**3rd International Carbocat**, Berlin (Germany), 2008.
124. New catalyst design for conversion of H<sub>2</sub>S into elemental sulfur: iron supported on C and SiC. Deneuve A., Houllé M., Nguyen P., Nhut J. M., Pham-Huu C.  
**3rd International Carbocat**, Berlin (Germany), 2008.
125. CO<sub>2</sub> electrocatalytic reduction in gas phase using novel nanoconfined electrocatalysts based on iron carbon nanotubes. Caudo S., Gangeri M., Perathoner S., Centi G., Amadou J., Bégin D., Pham-Huu C., Ledoux M. J., Tessonnier J. P., Su D. S., Schlögl R.  
**3rd International Carbocat**, Berlin (Germany), 2008.
126. Dehydration of methanol to dimethylether with H-ZSM5-based catalyst in a Micro-Structured Reactor (MSR). Liu Y., Janowska I., Romero Th., Pham-Huu C., Edouard D.  
**3rd International Symposium on Structured Catalysts and Reactors (ICOSCAR-3)**, Ischia, Italy, Sep. 27-30, 2009.
127. Effect of structure and thermal properties of a F-T catalyst in a fixed bed. Philippe R., Lacroix M., Dreibine L., Pham-Huu C., Edouard D., Savin S., Luck F., Schweich D.  
**3rd International Symposium on Structured Catalysts and Reactors (ICOSCAR-3)**, Ischia, Italy, Sep. 27-30, 2009.
128. Effect of structure and thermal properties of a F-T catalyst in a fixed bed. Philippe R., Lacroix M., Dreibine L., Pham-Huu C., Edouard D., Savin S., Luck F., Schweich D.  
**Europacat-IX**, Salamanca, Spain, August 30-September 4, 2009.
129. Effect of structure and thermal properties of a F-T catalyst in a fixed bed. Philippe R., Lacroix M., Dreibine L., Pham-Huu C., Edouard D., Savin S., Luck F., Schweich D.  
**Europacat-IX**, Salamanca, Spain, August 30-September 4, 2009.
130. New graphene and few-layer graphene (FLG) synthesis methods. Janowska I., Ersen O., Chizari K., Jacob T., Zafeiratos S., Soubane D., Da Costa V., Bégin D., Ledoux M. J., Pham-Huu C.  
**ChemOnTubes, International Meeting on the Chemistry of Nanotubes and Graphene**, April 11-15, Arcachon, France, 2010.
131. Tuning of nitrogen-doped carbon nanotubes for liquid-phase heterogeneous catalytic reaction. Chizari K., Janowska I., Houllé M., Florea I., Ersen O., Romero Th., Bernhardt P., Ledoux M. J., Pham-Huu C.  
**ChemOnTubes, International Meeting on the Chemistry of Nanotubes and Graphene**, April 11-15, Arcachon, France, 2010.
132. A simple and realistic model for investigating FTS catalyst activity at lab-scale and extrapolating to industrial conditions. Sharma A., Philippe R., de Tymowski B., Pham-Huu C., Luck Fr., Schweich D.  
**NGCS**, May 30<sup>th</sup>-June 3<sup>rd</sup>, Lyon, France, 2010.
133. Fischer-Tropsch synthesis on re-usable silicon carbide containing cobalt catalyst. Lacroix M., Dreibine L., Madani B., de Tymowski B., Edouard D., Ledoux M. J., Janowska I., Nguyen P., Pham Ch., Savin-Poncet S., Bousquet J., Luck Fr., Schweich D., Philippe R., Pham-Huu C.  
**NGCS**, May 30<sup>th</sup>-June 3<sup>rd</sup>, Lyon, France, 2010.
134. New graphene and few-layer graphene (FLG) high yield synthesis methods. Janowska I., Ersen O., Chizari K., Jacob T., Zafeiratos S., Soubane D., Da Costa V., Bégin D., Ledoux M. J., Pham-Huu C.

- E-MRS Spring Meeting**, June 6<sup>th</sup>- 11<sup>nd</sup>, Strasbourg, France, 2010.
135. Analytical electron tomography mapping of the SiC pore oxidation at the nanoscale.  
Florea I., Roiban L., Deneuve A., Chizari K., Janowska I., Ihiawakrim D., Hirliman C., Pham-Huu C., Ersen O.  
**E-MRS Spring Meeting**, June 6<sup>th</sup>- 11<sup>nd</sup>, Strasbourg, France, 2010.
136. Nitrogen-doped carbon nanotubes as a highly active metal-free catalyst for selective oxidation.  
Chizari K., Wang K., Deneuve A., Janowska I., Ersen O., Florea I., Liu Y., Edouard D., Ledoux M. J., Pham-Huu C.  
**NT'10**, June 27<sup>th</sup>-July 2<sup>nd</sup>, Montréal, Canada, 2010.
137. Nitrogen-doped carbon nanotubes for catalytic reaction.  
Chizari K., Janowska I., Ersen O., Florea I., Houllé M., Pham-Huu C.  
**NT'10**, June 27<sup>th</sup>-July 2<sup>nd</sup>, Montréal, Canada, 2010.
138. Composite of aligned CNT/SiC foam with macroscopic shaping for Fischer-Tropsch synthesis reaction.  
Liu Y., de Tymowski B., Janowska I., Edouard D., Romero Th., Ledoux M. J., Pham-Huu C.  
**NT'10**, June 27<sup>th</sup>-July 2<sup>nd</sup>, Montréal, Canada, 2010.
139. Few-layer graphene synthesis and catalytic applications.  
Janowska I., Bégin D., Ersen O., Pham-Huu C.  
**NT'10**, June 27<sup>th</sup>-July 2<sup>nd</sup>, Montréal, Canada, 2010.
140. Large-scale synthesis methods for producing graphene and few-layer graphene.  
Janowska I., Chizari K., Moldovan S. M., Ersen O., Bégin D., Ledoux M. J., Pham-Huu C.  
**IDECAT Meeting**, September 6<sup>th</sup>-7<sup>th</sup>, Messine, Italie, 2010.
141. Liquid-phase hydrogenation on Pt supported on few-layer graphene catalyst.  
Chizari K., Janowska I., Chenniki W., Macher N., Moldovan S. M., Ersen O., Bégin D., Ledoux M. J., Pham-Huu C.  
**IDECAT Meeting**, September 6<sup>th</sup>-7<sup>th</sup>, Messine, Italie, 2010.
142. Fischer-Tropsch synthesis on re-usable silicon carbide containing cobalt catalyst.  
de Tymowski B., Edouard D., Ledoux M. J., Nguyen P., Pham Ch., Savin-Poncet S., Luck Fr., Pham-Huu C.  
**IDECAT Meeting**, September 6<sup>th</sup>-7<sup>th</sup>, Messine, Italie, 2010.
143. Electrocatalysis on 3D electrodes based on aligned carbon nano-filaments.  
Ruvinskiy P., Bonnefont A., Houllé M., Pham-Huu C., Savinova E. R.
- Annual Meeting of the International Society of Electrochemistry**, September 26<sup>th</sup>-October 1<sup>st</sup>, Nice, France, 2010.
144. 3D distribution of nitrogen in N-CNTs using analytical electron tomography.  
Ersen O., Roiban L., Florea I., Pham-Huu C., Janowska I., Chizari K., Hirlimann Ch.  
**International Microscopy Congress (IMC-17)**, September 19-24, Rio de Janeiro, Brazil, 2010.
145. In-situ HRTEM study of the high-temperature stability of Pt nanoparticles onto FLG supports.  
Moldovan S., Bulou H., Janowska I., Wang K., Ledoux M. J., Pham-Huu C., Ersen O.  
**International Microscopy Congress (IMC-17)**, September 19-24, Rio de Janeiro, Brazil, 2010.
146. Nitrogen-doped carbon nanotubes as a platform for nanoparticles anchorage.  
Chizari K., Moldovan S., Ersen O., Janowska I., Pham-Huu C.  
**Matériaux 2010**, France, 2010.
147. Few-layer graphene containing palladium particles for the liquid-phase hydrogenation of C=C bond.  
Chizari K., Janowska I., Bégin D., Ersen O., Ledoux M. J., Pham-Huu C.  
**Graphene 2011**, April 11-15, Bilbao, Spain, 2011.
148. Few-layer graphene containing palladium particles for the liquid-phase hydrogenation of C=C bond.  
Chizari K., Janowska I., Bégin D., Ersen O., Ledoux M. J., Pham-Huu C.  
**Graphene 2011**, April 11-15, Bilbao, Spain, 2011.
149. Mechanical ablation method for making graphene and few-layer graphene.  
Chizari K., Janowska I., Bégin D., Ersen O., Ledoux M. J., Pham-Huu C.  
**Graphene 2011**, April 11-15, Bilbao, Spain, 2011.
150. Nouvelle method de synthèse de graphène multi-couches.  
Chizari K., Janowska I., Bégin D., Ersen O., Ledoux M. J., Pham-Huu C.  
**Journées du GFEC**, April 4-7, Orbey, France, 2011.
151. Catalyseur 2D pour réaction en phase liquide.  
Pham-Huu C., Chizari K., Janowska I., Bégin D., Ersen O., Ledoux M. J.  
**Journées du GFEC**, April 4-7, Orbey, France, 2011.
152. Few-layer graphene containing palladium particles for the liquid-phase hydrogenation of C=C bond.  
Chizari K., Janowska I., Bégin D., Ersen O., Ledoux M. J., Pham-Huu C.  
**New Advanced Materials for Energy (ECAMP)**, 23-27 Mai, Turkey, 2011.
153. Synthesis of graphene and few-layer graphene by a mechanical exfoliation process.  
Janowska I., Bégin D., Ersen O., Ledoux M. J., Pham-Huu C.

- New Advanced Materials for Energy (ECAMP)**, 23-27 Mai, Turkey, 2011.
154. Challenges for cathode materials for polymer electrolyte fuel cells.  
M.V. Lebedeva, P. S. Ruvinskiy, M. Rouhet, A. Bonnefont, S. Zafeiratos, V. Papaefthymiou, V. Pierron-Bohnes, C. Pham-Huu, E.R. Savinova  
**New Advanced Materials for Energy (ECAMP)**, 23-27 Mai, Turkey, 2011.
155. High efficient and re-usable Co-Ru/SiC catalyst for the Fischer-Tropsch synthesis.  
B. de Tymowski, Y. Liu, D. Bégin, P. Nguyen, Ch. Pham, Fr. Luck, C. Pham-Huu  
**International Symposium on Heterogeneous and Homogeneous Catalysis**, 12-16 September, Berlin, 2011.
156. Self-supported few-layer graphene beads with high external surface area.  
Y. Liu, T. H. Truong, L. D. Nguyen, I. Janowska, C. Pham-Huu,  
**International Symposium on Heterogeneous and Homogeneous Catalysis**, 12-16 September, Berlin, 2011.
157. Graphene and few-layer graphene (FLG) synthesis methods.  
I. Janowska, O. Ersen, K. Chizari, S. Zafeiratos, D. Bégin, M. J. Ledoux, C. Pham-Huu,  
**6<sup>th</sup> Sabatier Conference on Catalysis**, 26-29 September, Klingenthal, 2011.
158. High-temperature stability of platinum nanoparticles on few-layer graphene investigated by in-situ HR-TEM.  
I. Janowska, M. S. Moldovan, O. Ersen, H. Bulou, K. Chizari, M. J. Ledoux, C. Pham-Huu,  
**6<sup>th</sup> Sabatier Conference on Catalysis**, 26-29 September, Klingenthal, 2011.
159. Palladium supported on few-layer graphene as an efficient 2D catalyst for a liquid-phase selective hydrogenation.  
C. Pham-Huu, I. Janowska, K. Chizari, M. S. Moldovan, O. Ersen, D. Bégin  
**6<sup>th</sup> Sabatier Conference on Catalysis**, 26-29 September, Klingenthal, 2011.
160. Substrate crystallinity and H<sub>2</sub>/Ar ratio influence on the CNT morphology synthesized by floated CCVD.  
O. Guellati, I. Janowska, D. Bégin, S. Moldovan, M. Guerioune, Z. Mekhalif, J. Delhalle, C. Pham-Huu  
**6<sup>th</sup> Sabatier Conference on Catalysis**, 26-29 September, Klingenthal, 2011.
161. Palladium and platinum nanoparticles (NPs) supported on few-layer graphene (FLG). Investigation of the NPs-FLG stability and catalytic application.  
I. Janowska, K. Chizari, S. Moldovan, O. Ersen, D. Bégin, M. J. Ledoux, C. Pham-Huu  
**Graphene based hybrid structures**, 12-13 October, Mulhouse, 2011.
162. Graphene and few layer graphene (FLG) synthesis methods.  
G. Dalmás, I. Janowska, O. Ersen, K. Chizari, D. Bégin, M. J. Ledoux, C. Pham-Huu  
**Graphene based hybrid structures**, 12-13 October, Mulhouse, 2011.
163. Macroscopic carbon nanotubes foam with high specific surface area and full accessibility.  
Y. Liu, L. D. Nguyen, H. Ba, T. Truong-Huu, F. Vigneron, I. Janowska, D. Bégin, C. Pham-Huu  
**Carbocat V**, 28-30 June, Bressanone-Brixens, Italy, 2012.
164. Size-controlled iron oxide nanoparticles encapsulated inside the carbon nanotubes channel for electrochemical energy storage.  
X. Liu, W. Baaziz, S. Bégin, B. Pichon, D. Bégin, O. Ersen, S. Zafeiratos, I. Janowska, C. Pham-Huu  
**Carbocat V**, 28-30 June, Bressanone-Brixens, Italy, 2012.
165. High density monodispersed cobalt nanoparticles filled into multi-walled carbon nanotubes.  
W. Baaziz, S. Bégin, B. Pichon, D. Bégin, O. Ersen, S. Zafeiratos, C. Pham-Huu  
**Carbocat V**, 28-30 June, Bressanone-Brixens, Italy, 2012.
166. High surface area composite made by  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> support decorated with a network of carbon nanotubes for catalytic applications.  
Y. Liu, H. Ba, T. Romero, I. Janowska, D. Bégin, C. Pham-Huu  
**Carbocat V**, 28-30 June, Bressanone-Brixens, Italy, 2012.
167. 1D and 2D carbon nanomaterials for catalysis and energy applications.  
C. Pham-Huu, I. Janowska, D. Bégin, M. J. Ledoux, O. Ersen  
**Carbocat V**, 28-30 June, Bressanone-Brixens, Italy, 2012.
168. Surface chemistry of iron decorated graphene in H<sub>2</sub> and O<sub>2</sub> environments.  
Papaefthymiou V., Janowska I., Bégin D., Hävecker M., Knop-Gericke, Baaziz W., Bégin-Colin S., Pichon B., Ersen O., Pham-Huu C., Zafeiratos S.  
**Graphel 2012**, Mykonos, Greece, 2012.
169. Surface chemistry of iron decorated graphene in H<sub>2</sub> and O<sub>2</sub> environments.  
Papaefthymiou V., Janowska I., Bégin D., Hävecker M., Knop-Gericke, Baaziz W., Bégin-Colin S., Pichon B., Ersen O., Pham-Huu C., Zafeiratos S.  
**Graphel 2012**, Mykonos, Greece, 2012.
170. Palladium supported on few-layer graphene as a highly active catalyst in the liquid-phase hydrogenation reaction.  
T. Truong-Huu, I. Janowska, O. Ersen, C. Pham-Huu,  
**15<sup>th</sup> International Congress on Catalysis**, 1-6 July, Munich, Germany, 2012.

171. High efficiency and re-usable Co-Ru/SiC catalyst for the Fischer-Tropsch synthesis. Y. Liu, B. de Tymowski, C. Pham-Huu, P. Nguyen, C. Pham, F. Luck  
**15<sup>th</sup> International Congress on Catalysis**, 1-6 July, Munich, Germany, 2012.
172. Titania-doped silicon carbide containing cobalt catalyst for synthetic fuel production. Y. Liu, C. Pham-Huu,  
**2<sup>nd</sup> ChemEnergy**, 27-30 January, Berlin, Germany, 2013.
173. High surface area composite made by  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> support decorated with a network of carbon nanotubes for the Fischer-Tropsch reaction. Y. Liu, T. Dintzer, O. Ersen, C. Pham-Huu,  
**2<sup>nd</sup> ChemEnergy**, 27-30 January, Berlin, Germany, 2013.
174. Titania-decorated silicon carbide containing cobalt catalyst for the Fischer-Tropsch synthesis. Y. Liu, B. de Tymowski, F. Vigneron, I. Florea, O. Ersen, P. Nguyen, C. Pham, F. Luck, C. Pham-Huu,  
**10<sup>th</sup> Natural Gas Conversion Symposium**, 22-26 March, Doha, Qatar, 2013.
175. Titania-decorated silicon carbide containing cobalt catalyst for the Fischer-Tropsch synthesis. Y. Liu, B. de Tymowski, O. Ersen, P. Nguyen, C. Pham, F. Luck, C. Pham-Huu,  
**AICHe Meeting**, 3-8 November, San Francisco, United States, 2013.
176. Few-layer graphene (FLG) from pencil lead. I. Janowska, D. Begin, M. J. Ledoux, C. Pham-Huu,  
**Carbon 2013**, 14-19 July, Rio de Janeiro, Brazil, 2013.
177. High density Fe<sub>3-x</sub>O<sub>4</sub> or cobalt nanoparticles filled into multi-walled carbon nanotubes. D. Begin, W. Baaziz, X. J. Liu, C. Pham-Huu, S. Begin-Colin, B. Pichon, I. Janowska,  
**Carbon 2013**, 14-19 July, Rio de Janeiro, Brazil, 2013.
178. Crystallographic cutting of few-layer graphenes: a comprehensive TEM study. O. Ersen, G. Melinte, I. Florea, S. Begin-Colin, I. Janowska, W. Baaziz, C. Pham-Huu, R. Arenal,  
**4<sup>th</sup> International Conference on Nanotechnology: Fundamentals and Applications**, 12-14 August, Toronto, Canada, 2013.
179. Hydrophobic gold catalysts: Synthesis and applications in oxidation catalysis. F. Vigneron, A. Piquet, W. Baaziz, I. Janowska, C. Pham-Huu, V. Pitchon, C. Petit, V. Caps  
**7<sup>th</sup> WCOG (World Congress on Oxidation Catalysis)**, 9-12 June, St Louis, Missouri, 2013.
180. Hydrophobic gold catalysts: from synthesis on passivated silica to synthesis on few layers graphene. F. Vigneron, A. Piquet, W. Baaziz, S. Zafeiratos, I. Janowska, C. Pham-Huu, I. Florea, O. Ersen, V. Pitchon, C. Petit, V. Caps,  
**11<sup>th</sup> European Conference on Catalysis**, 1-6 September, Lyon, France, 2013.
181. Titania-decorated silicon carbide containing cobalt catalyst for the Fischer-Tropsch synthesis. Y. Liu, B. de Tymowski, F. Vigneron, I. Florea, O. Ersen, C. Meny, F. Luck, C. Pham-Huu,  
**11<sup>th</sup> European Conference on Catalysis**, 1-6 September, Lyon, France, 2013.
182. Les mousses cellulaires: de la modélisation à l'intensification des procédés. C. Pham-Huu, D. Edouard  
**9<sup>ème</sup> Congrès Francophone de Génie des Procédés**, 28-30 Avril, Agadir, Maroc, 2014.
183. Ex-situ decoration of carbon nanotubes with pyridine-based frameworks; an easy tunable approach towards efficient N-doped metal-free catalysts for the oxygen reduction reaction. G. Tucci, L. Luconi, M. Innocenti, C. Pham-Huu, G. Giambastiani  
**ChemOnTubes**, March 30-April 3, Riva del Garda, Italy, 2014.
184. Tribological study of PMMA/carbon nanocomposites for anfriction coatings. A. Al-Kawaz, A. Rubin, I. Janowska, C. Pham-Huu, P. Mésini, C. Gauthier  
**12<sup>th</sup> Biennial Conference on Engineering Systems Design and Analysis**, June 25-27, Copenhagen, Denmark, 2014.
185. New gold catalysts from the reaction between gold complexes and pristine few-layer graphene surfaces. F. Vigneron, A. Piquet, S. Zafeiratos, S. Sall, C. Petit, C. Pham-Huu, V. Caps  
**Workshop Nanoalliages et Nanohybrides**, June 10-13, Strasbourg, France, 2014.
186. Low-temperature synthesis of macroscopic porous nitrogen-doped carbon composite with high doping content and exclusive localization. H. Ba, Y. Liu, C. Duong-Viet, J. M. Nhut, O. Ersen, D. Begin, I. Janowska, C. Pham-Huu  
**Carbocat VI**, June 22-25, Trondheim, Norway, 2014.
187. Nitrogen-doped carbon nanotubes decorated silicon carbide for selective oxidation of H<sub>2</sub>S. C. Duong-Viet, L. Truong-Phuoc, J. M. Nhut, L. Nguyen-Dinh, I. Janowska, D. Begin, C. Pham-Huu  
**Carbocat VI**, June 22-25, Trondheim, Norway, 2014.
188. Graphene containing nanodiamonds composite as metal-free dehydrogenation catalyst for styrene production. H. Ba, Y. Liu, T. Tran-Thanh, L. Truong-Phuoc, J. M. Nhut, D. Begin, I. Janowska, P. Granger, C. Pham-Huu  
**Carbocat VI**, June 22-25, Trondheim, Norway, 2014.
189. Bare nitrogen-doped carbon nanotubes as efficient catalyst in the oxygen reduction reaction.



- L. Truong-Phuoc, C. Duong-Viet, J. M. Nhut, D. Begin, I. Janowska, P. Bonnefont, E. R. Savinova, C. Pham-Huu  
**Carbocat VI**, June 22-25, Trondheim, Norway, 2014.
190. Exploring new routes for 1D and 2D carbon synthesis.  
Tran-Thanh T., Ba H., Duong-Viet C., Melinte G., Ersen O., Liu Y., Schlatter G., Hebraud A., Begin D., Janowska I., C. Pham-Huu  
**Carbocat VI**, June 22-25, Trondheim, Norway, 2014.
191. Hydrogen-promoted oxidation over hydrophobic Au/FLG catalysts.  
F. Vigneron, J. M. Nhut, A. Rach, A. Piquet, C. Pham-Huu, V. Caps  
**8<sup>th</sup> International Conference on Environmental Catalysis (ICEC)**, August 24-27, Asheville, United of America, 2014.
192. Microwave assisted growth of SAPO-34 on SiC foams and its application in methanol dehydration to dimethyl ether.  
M. M. Elamin, O. Muraza, Z. Malibari, H. Ba, J. M. Nhut, C. Pham-Huu  
**FEZA conference**, June 22-25, Lepziz, Germany, 2014.
193. Tribological study of PMMA/carbon nanocomposites for anfriction coatings.  
A. Al-Kawaz, A. Rubin, I. Janowska, C. Pham-Huu, P. Mésini, C. Gauthier  
**12<sup>th</sup> Biennial Conference on Engineering Systems Design and Analysis**, June 25-27, Copenhagen, Denmark, 2014.
194. Design of water soluble magnetic carbon nanotubes for biomedical applications.  
X. Liu, S. Bégin-Colin, I. Marangon, C. Wilhelm, F. Gazeau, B. Pichon, G. Melinte, O. Ersen, W. Baaziz, C. Pham-Huu, D. Bégin  
**GDR Nanoalliages et Nanohybrides à base de Métaux**, June 10-13, Strasbourg, France, 2014.
195. Modulation of magnetic properties of core-shell structure Fe<sub>3</sub>O<sub>4</sub>@CoO nanoparticles.  
X. Liu, W. Baaziz, Y. Liu, S. Bégin-Colin, B. Pichon, C. Ulhaq, C. Pham-Huu, D. Bégin  
**NanoFunMat 2014**, June 15-18, Plustuk, Poland, 2014.
196. Electrocatalysis of the oxygen reduction in alkaline media: comparison of predominant reaction pathways on various electrode materials.  
T. Poux, E. R. Savinova, A. Bonnefont, L. Truong-Phuoc, A. Ryabova, G. Kéranguéven, G. Tsirlina, C. Pham-Huu  
**226<sup>th</sup> Meeting of the Electrochemical Society**, October 5-9, Cancun, 2014.
197. Nitrogen-doped carbon nanotubes as metal-free catalyst.  
C. Duong-Viet, L. Truong-Phuoc, T. Tran-Thanh, H. Ba, J. M. Nhut, C. Pham-Huu  
**Scientific Conference on Oil and Petrochemical Engineering**, October 8-10, Ha-Noi, Viet-Nam, 2014.
198. Carbon nanotubes containing defects as metal-free catalyst.  
C. Duong-Viet, H. Ba, L. Truong-Phuoc, W. H. Doh, Y. Liu, J. M. Nhut, S. Zafeiratos, D. Begin, I. Janowska, P. Granger, C. Pham-Huu  
**6<sup>th</sup> International Workshop on Advanced Materials Science and Nanotechnology**, November 2-6, Ha-Long, Viet-Nam, 2014.
199. Elaboration de composites nanotubes de carbone/nanoparticules d'oxyde métallique (Fe, Co).  
X. Liu, W. Baaziz, S. Bégin-Colin, B. Pichon, I. Florea, O. Ersen, C. Pham-Huu, D. Begin  
**Matériaux 2014**, November 24-28, Montpellier, France, 2014.
200. Elaboration de nouveaux composites à base de graphène et nanoparticules d'oxyde métallique : application dans les batteries Li-ion.  
O. Gerber, X. Liu, S. Bégin-Colin, B. Pichon, C. Pham-Huu, J. Come, L. Taberna, P. Simon, D. Begin  
**Matériaux 2014**, November 24-28, Montpellier, France, 2014.
201. L'utilisation de la RMN <sup>59</sup>Co pour l'étude des catalyseurs.  
C. Meny, Y. Liu, C. Pham-Huu  
**Congrès Instrumenter et Innover en Chimie Physique pour Préparer l'Avenir**, January 22-23, University of Pierre and Marie Curie, France, 2015.
- 202-O. Hydrogen-promoted CO oxidation over hydrophobic Au/FLG catalysts.  
F. Vigneron, A. Rach, J. M. Nhut, A. Piquet, C. Pham-Huu, V. Caps  
**Gold World Conference 2015**, July 26-29, University of Cardiff, UK, 2015.
- 203-O. Carbon-based hierarchical composites for selective dehydrogenation of ethylbenzene.  
Ba H., Liu Y., Tran-Thanh T., Doh W. H., Granger P., C. Pham-Huu  
International Workshop **Design of New Catalysts and Reactions for Sustainable Catalysis**, January 23, UCCS, Lille, France (2015).
- 204-O. Design of novel hydride hierarchical catalysts for direct synthesis of dimethyl ether from syngas.  
A. Y. Khodakov, V.V. Ordonsky, M. Cai, V. Subramanian, C. Lancelot, A. Palcic, V. Valtchev, J.-M. Nhut, C. Pham-Huu, S. Moldovan and O. Ersen  
**12<sup>th</sup> European Congress on Catalysis – EuropaCat-XI**, Kazan, Russia, 30 August – 4 September (2015).
- 205-O. Probing structural and chemical inhomogeneities in assemblies of nanoparticles with wide size distributions by ferromagnetic nuclear resonance.  
Y. Liu, Y. Shin, C. Pham-Huu, C. Meny  
**International Conference on Magnetism**, July 5-10, Barcelona, Spain, 2015.

- 206-O. Tailoring carbon nanotube N-dopants while designing truly metal-free electrocatalysts for the oxygen reduction reaction.  
G. Tuci, A. Rossin, L. Luconi, C. Pham-Huu, G. Giambastiani  
**ISHHC 17**, July 12-15, Utrecht, The Netherlands, 2015.
- 207-O. Catalyseur "sans-métaux" biosourcé à base de carbone dopé à l'azote pour des applications en énergie et en dépollution.  
C. Pham-Huu, H. Ba, Y. Liu, L. Truong-Phuoc, C. Duong-Viet, J. M. Nhut, X. Mu, L. Nguyen-Dinh, P. Granger, G. Tuci, G. Giambastiani  
**PAEES**, October 12-16, Québec, Canada, 2015.
- 208-O. Fundamental investigation of graphene surface catalytic patterning with ambient environmental TEM.  
G. Melinte, S. Moldovan, W. Baaziz, I. Janowska, C. Hirlimann, O. Ersen, C. Pham-Huu  
**4<sup>th</sup> International Symposium on Advanced Electron Microscopy for Catalysis and Energy Storage Materials**, January 27-29, Berlin, Germany, 2016.
- 209-O. Covalent triazine frameworks as supports and metal-free catalysts for dehydration and hydrogenation reactions  
G. Tuci, A. Rossin, L. Luconi, G. Giambastiani, S. Caporali, H. Ba, C. Pham-Huu, M. Pilaski, J. Artz R. Palkovits  
**German Catalysis Conference**, March 15-17, Weimar, Germany, 2017.
- 210-O. Covalent triazine frameworks as supports and metal-free catalysts for dehydration and hydrogenation reactions  
G. Tuci, A. Rossin, L. Luconi, G. Giambastiani, S. Caporali, H. Ba, C. Pham-Huu, M. Pilaski, J. Artz R. Palkovits  
**German Catalysis Conference**, March 15-17, Weimar, Germany, 2017.

## C.4 Invited Conferences

- Dehydrogenation of n-butane with molybdenum catalysts supported on SiC. Elina M. Harlin, Outi A. I. Krause, Marc Jacques Ledoux, Frédéric Meunier, Baudouin Heinrich, Cuong Pham-Huu  
**8th Nordic Symposium on Catalysis, Helsinki (1998).**
- Nouvelle synthèse et caractérisation de céramiques carbure (SiC, Mo<sub>2</sub>C, WC) à haute surface spécifique pour les applications en catalyse. Marc Jacques Ledoux, Cuong Pham-Huu  
**Journées d'Automne de la Société Française de Métallurgie et de Matériaux, Paris, France (1998).**
- New catalysts and processes based on SiC support for selective oxidation of H<sub>2</sub>S into elemental sulfur. Nicolas Keller, Jean-Mario Nhut, Cuong Pham-Huu, Marc Jacques Ledoux, Jacques Bousquet  
**2<sup>nd</sup> International Symposium on the Molecular Aspects of Catalysis by Sulfides, Italie (2001).**
- New catalytic phenomena on nanostructured (fibres and tubes) catalysts. Marc-Jacques Ledoux, Cuong Pham-Huu, Nicolas Keller  
**XXXV Jahrestreffen Deutscher Katalytiker, Twente, Hollande (2002).**
- Vers un contrôle efficace de la sélectivité des produits issus de la synthèse de Fischer-Tropsch basé sur l'effet de confinement dans les nanotubes de carbone.. Cuong Pham-Huu  
**Direction Scientifique TotalFinaElf, Tour Coupole, Paris, France (2002).**
- Carbon nanotubes as template for mild synthesis of CoFe<sub>2</sub>O<sub>4</sub> nanowires : a new use of the confinement effect. Nicolas Keller, Cuong Pham-Huu, Claude Estournès, Gabrielle Ehret, Marc-Jacques Ledoux  
**Carbon 2003, Oviedo, Espagne (2003).**
- Synthèse des nanofibres de carbone avec mise en forme comme support pour la catalyse. Cuong Pham-Huu, Marc-Jacques Ledoux  
**GECAT, Ambleteuse, France (2003).**
- High yield synthesis of multi-walled carbon nanotubes by catalytic decomposition of hydrocarbons over iron supported catalysts. Giuseppe Gulino, Claudia Milone, Cuong Pham-Huu, Marc-Jacques Ledoux, S. Galvagno  
**XIV Congresso Nazionale di Catalisi, Florence, Italie (2004).**
- Nanomatériaux carbonés pour la catalyse. Cuong Pham-Huu  
**CIRIMAT, Toulouse, France (2004).**
- Synthèse et utilisations des nanostructures carbonées pour les composites C/C/C. Cuong Pham-Huu  
**Journées Scientifiques de Marcoule (CEA), 15-19 Mai, Grande-Motte, France (2006).**
- Pressure measurements and modelling on SiC foams for Fischer-Tropsch application. Maxime Lacroix, Lamia Dreibine, David Edouard, Cuong Pham-Huu  
**Total Catalysis Club 2007, 24-25 Janvier, Namur, Belgique (2007).**
- Carbon and ceramic nanomaterials with macroscopic shaping for catalysis applications. Cuong Pham-Huu  
**Catalysis Seminar, Norwegian University of Technology, 15-16 Février, Trondheim, Norway (2007).**
- Ceramic foams for energy. Dreibine L., Lacroix M., Ledoux M. J., Edouard D., Cuong Pham-Huu  
**Total Catalysis Club 2008, 27-29 Janvier, Lille, France (2008).**
- Carbon nanotubes containing nanomagnets for catalytic applications. Matthieu Houllé, Cuong Pham-Huu  
**Idecat Workshop, 11-12 March, Florence, Italia (2008).**
- Silicon carbide: from laboratory to industrial development. Cuong Pham-Huu, Charlotte Pham  
**Idecat SME's Workshop, 10-11 April, Saragoza, Spain (2008).**
- Nanoparticules: ange ou démon? Cuong Pham-Huu  
**Conférence Nanomatériaux et Santé, APPA, 17 Juin, Strasbourg, France (2008).**
- Nanocarbon and SiC for selective heterogeneous catalysis. Marc-Jacques Ledoux, Cuong Pham-Huu  
**International Symposium on Creation and Control of Advanced Selective Catalysis, 8-12 July, Kyoto, Japan (2008).**
- Catalytic processes to convert CO<sub>2</sub> into chemicals. Cuong Pham-Huu  
**Carbon dioxide : a waste, a raw material. Fate or opportunity, 16-17 December, Toulouse, France (2008).**
- Silicon carbide for catalysis : success and questions ? Cuong Pham-Huu  
**Journées Catalyse de Saint-Gobain, 28-29 Avril, Lyon, France (2009).**

20. Silicon carbide for catalysis. Alternative fuels development.  
Cuong Pham-Huu, Izabela Janowska  
**New energy catalysis and environment, 31 Mai, Chengdu, China (2009).**
21. Nano/Micro structured reactor (NMSR) for catalytic applications.  
Izabela Janowska, Yu Liu, Alain Carvalho, David Edouard, Cuong Pham-Huu  
**New energy catalysis and environment, 31 Mai, Chengdu, China (2009).**
22. Fischer-Tropsch synthesis on cobalt containing ceramic SiC foam catalyst.  
Cuong Pham-Huu  
**Institut Français du Pétrole Energies Nouvelles, 13 Juillet, Lyon, France (2010).**
23. Graphène et ses applications.  
Cuong Pham-Huu, Izabela Janowska, Dominique Bégin, Marc J. Ledoux, Ovidiu Ersen  
**Journée du Pôle Matériaux et Nanoscience d'Alsace, 18 Février, Strasbourg (2011).**
24. New ways to produce graphene and few-layer graphene (FLG).  
Dominique Bégin, Izabela Janowska, Ovidiu Ersen, Marc J. Ledoux, Cuong Pham-Huu  
**Graphene and Nanotubes Science and Applications, Annual Meeting of the GDR-I GNT, February 7-11, Dourdan, France (2011).**
25. Challenges for cathode materials for polymer electrolyte fuel cells.  
M.V. Lebedeva, P. S. Ruvinskiy, M. Rouhet, A. Bonnefont, S. Zafeiratos, V. Papaefthymiou, V. Pierron-Bohnes, C. Pham-Huu, E.R. Savinova  
**New Advanced Materials for Energy (ECAMP), 23-27 Mai, Turkey (2011).**
26. Cathode materials for polymer electrolyte fuel cells based on vertically aligned carbon nanotubes.  
E. R. Savinova, M. Rouhet, P. S. Ruvinskiy, C. Pham-Huu, A. Bonnefont, K. A. Friedrich  
**ECS Meeting, October, Boston, USA (2011).**
27. Nanocarbon (1D and 2D) materials for catalysis.  
Cuong Pham-Huu  
**ICCOMC, Florence, Italia (2011).**
28. Synthesis of Fe<sub>3</sub>O<sub>4</sub> and Co nanoparticles either free-assembled or decorated carbon-based materials.  
Walid Baaziz, Sylvie Begin-Colin, Benoit Pichon, Dominique Bégin, Ovidiu Ersen, Izabela Janowska, Cuong Pham-Huu  
**Total Petrochemicals Research Center, Feluy, Belgium (2011).**
29. 1D and 2D carbon nanomaterials for catalysis and energy applications.  
Cuong Pham-Huu, Izabela Janowska, Dominique Bégin, Marc J. Ledoux  
**Carbocat V, 28-30 June, Brixen-Bressanone, Italy (2012).**
30. 2D and 3D TEM investigations of carbon nanomaterials for catalysis.  
Izabela Janowska, Ovidiu Ersen, Cuong Pham-Huu  
**ISSIS, Krakow, Poland (2012).**
31. Titania-based catalysts for synthetic fuel and H<sub>2</sub> production.  
Cuong Pham-Huu, Yuefeng Liu  
**2<sup>nd</sup> International Symposium on Chemistry of Energy Conversion, January 27-30, Berlin, Germany (2013).**
32. Catalyseurs sans métaux à base de nanodiamants pour la production de styrène.  
Cuong Pham-Huu  
**Chimie et Matériaux pour un Environnement Durable, 12-14 June, Da-Nang, Viet-Nam (2013).**
33. 1D and 2D carbon materials: what challenges lying ahead?  
C. Pham-Huu  
**Séminaire Institut Charles Sadron, May 21-22, Goerdorff, France (2014).**
34. Challenges for 1D and 2D carbon materials.  
C. Pham-Huu  
**Nanodual, Saint-Louis Research Institute, June 2, Saint-Louis, France (2014).**
35. Exploring new routes for 1D and 2D carbon synthesis.  
C. Pham-Huu  
**Carbocat VI, June 22-25, Trondheim, Norway (2014).**
36. Engineering new carbon structures for advanced catalytic processes.  
C. Pham-Huu  
**Séminaire Catalyse, December 18, UCCS, Lille, France (2014).**
37. Carbon-based hierarchical composites for selective dehydrogenation of ethylbenzene.  
Ba H., Liu Y., Tran-Thanh T., Doh W. H., Granger P., C. Pham-Huu  
International Workshop **Design of New Catalysts and Reactions for Sustainable Catalysis, January 23, UCCS, Lille, France (2015).**
38. Design of novel hydride hierarchical catalysts for direct synthesis of dimethyl ether from syngas.  
A. Y. Khodakov, V.V. Ordonsky, M. Cai, V. Subramanian, C. Lancelot, A. Palcic, V. Valtchev, J.-M. Nhut, C. Pham-Huu, S. Moldovan and O. Ersen  
**12<sup>th</sup> European Congress on Catalysis – EuropaCat-XI, Kazan, Russia, 30 August – 4 September (2015).**
39. Engineering new carbon composites for catalytic processes.  
C. Pham-Huu  
**Seminar at Chimie, Catalyse, Polymères et Procédés (C2P2), January 21, Lyon, France (2016).**
40. L'acte catalytique par l'imagerie résolue en temps.  
C. Pham-Huu, O. Ersen

- Colloque Interdisciplinaire Temps**, June 9-10, Strasbourg, France (2016).
41. Advanced electron microscopy techniques applied to carbon-based nanostructures. O. Ersen, S. Moldovan, G. Melinte, C. Hirlimann, H. Bulou, S. Begin-Colin, W. Baaziz, D. Bégin, C. Pham-Huu  
**7<sup>th</sup> International Symposium on Carbon for Catalysis (Carbocat-VII)**, June 12-16, Strasbourg, France (2016).
42. Materials for catalysis: Challenges and opportunities. C. Pham-Huu  
**Catalysis Seminar, Institute of Materials and Catalysis**, March 16, Seville, Spain, 2017.
43. Hierarchical biosourced carbon for catalysis and energy storage. C. Pham-Huu  
**Design and hierarchical assemblies of nanomaterials towards energy, sensing, electronic, catalysis and detection applications, E-MRS Spring Meeting 2017**, May 22-26, Strasbourg, France, 2017.
44. Graphene-based composites as lubricants for heavy oil. C. Pham-Huu  
**Ecole Centrale de Lyon**, June 2, Lyon, France, 2017.
45. Nitrogen-doped carbon as metal-free catalyst and oil sorbent. C. Pham-Huu  
**1<sup>st</sup> Molecular Technology Workshop**, June 28-30, Strasbourg, France, 2017.
46. Nitrogen-doped carbon as metal-free catalyst for sour gas desulfurization process. C. Pham-Huu  
**Industrial Development Seminar**, September 23, SATT Conectus Investissment Committee, Strasbourg, France, 2017.
47. Carbon-based materials for catalysis and energy storage. C. Pham-Huu  
**Catalysis Seminar, Department of Chemical Engineering, Universidade Federal Do Rio Grande Do Sul**, November 23, Brazil, 2017.
48. L'uranium en catalyse. C. Pham-Huu  
**Direction de Recherche et de Programme, ORANO**, June 07, Tricastin, France, 2018.
49. Air quality improvements through structured reusable porous solid trap. C. Pham-Huu  
**Direction Recherche et Technique, EUROVIA**, June 19, Strasbourg, France, 2018.
50. Système de piégeage passif des particules en milieu semi-confiné. C. Pham-Huu  
**Région Ile de France**, July 13, Saint-Oeune, France, 2018.
51. High BTX resistance metal-free catalyst for direct oxidation of H<sub>2</sub>S into sulphur. C. Pham-Huu  
**MESPO 2018**, October 14-19, Abu Dhabi, United Arabian States, 2018.
52. Passive trap to remove PM from polluted air in urban areas. C. Pham, C. Pham-Huu  
**Direction Recherche et Développement Véolia**, January 21, Aubervilliers, France, 2019.
53. Piège passif pour le captage des particules en milieu souterrain. C. Pham-Huu, C. Pham  
**SNCF Réseau, Direction Générale Ile de France**, February 6, Aubervilliers, France, 2019.
54. Electrospinning as a mean to elaborate hierarchical carbon-based nanofibrous composites for catalytic applications. G. Schlatter, Y. Liu, H. Ba, M. Behr, A. Hébraud, C. Pham-Huu  
**Indo-French Symposium "Functionalized MATerials for Sustainable CATalytic and Related Applications"** – NCL, India, February 26- March 1, 2019.
55. Inductive heating for carbon nanomaterials synthesis. C. Pham-Huu C. Duong-Viet, G. Giambastiani  
**Indo-French Symposium "Functionalized MATerials for Sustainable CATalytic and Related Applications"** – NCL, India, February 26- March 1, 2019.
56. Inductive heating for chemical energy storage process. G. Giambastiani, C. Pham-Huu  
**Indo-French Symposium "Functionalized MATerials for Sustainable CATalytic and Related Applications"** – NCL, India, February 26- March 1, 2019.
57. Carbon and catalysis: opportunities and challenges in the framework of sustainable development. C. Pham-Huu  
**Colloque francophone du carbone**, April 23-26, Samatan, France, 2019.
58. Carbon as innocent or non-innocent materials for catalysis. C. Pham-Huu  
**France-Brazil-China Catalysis Summer School**, July 3, Lille, France, 2019.



## **C.5 Consulting**

1. L'uranium pour la catalyse  
ORANO  
Octobre 2017 – Février 2018

## **C.6 Startup creation**

1. BlackLeaf SAS  
Création le 08-2018  
Production et applications du graphène multi-feuillets dans les domaines thermiques et électroniques

## C.6 Patents

1. Obtention des carbures de métaux lourds à surface spécifique élevée (Production of heavy metal carbides of high specific surface area). Ledoux M. J., Guille J., Pham-Huu C., Marin S. Déposé par Pechiney en 1989. Extension: Européen No. 0 396 475, Etats-Unis No. 5 308 597, No. 5 391 524, Afrique du Sud No. 90-2388, Australie No. 621740, Brésil No. 9 006 018, Canada No. 2 013 142-0, Corée du Sud No. 65824, Japon No. 505805-90, Norvège No. 904867, Vénézuéla No. 436-90.
2. Procédé d'activation de la surface de carbures de métaux lourds à surface spécifique élevée en vue de réactions catalytiques (Process for activating the surface of carbides of heavy metals with a large specific surface for catalytic reactions). Ledoux M. J., Guille J., Pham-Huu C., Marin S. Déposé par Pechiney en 1990. Extension: Européen No. 0 474 570, Etats-Unis No. 5 139 987, Afrique du Sud No. 91-7053, Australie No. 635483, Brésil No. 9 103 798, Canada No. 2 050 712-8, Corée du Sud No. 91-15498, Finlande No. 914204, Japon No. 227100-91, Norvège No. 913452, Vénézuéla No. 1204-91.
3. Préparation de catalyseur à partir d'oxydes métalliques par réduction et carburation partielle par les gaz réactionnels (Preparation of a catalyst from metal oxides by reduction and partial carburization by reaction gases). Ledoux M. J., Guille J., Pham-Huu C., Dunlop H. M., Prin M. Déposé par Pechiney en 1991. Extension: Européen No. 0 534 867, Etats-Unis No. 5 468 370, Afrique du Sud No. 92-6718, Australie No. 644750, Brésil No. 9 203 440, Canada No. 2 077 316-2, Corée du Sud No. 92-16191, Finlande No. 923973, Japon No. 23706-92, Norvège No. 923439, Vénézuéla No. 1302-92.
4. Procédé d'isomérisation d'hydrocarbures linéaires contenant plus de six atomes de carbone à l'aide de catalyseurs à base d'oxycarbure de molybdène (Process for the isomerization of straight hydrocarbons containing at least 7 carbon atoms using catalysts with a base of molybdenum oxycarbide). Ledoux M. J., Guille J., Pham-Huu C., Blekkan E. A., Peschiera E. Déposé par Pechiney en 1993. Extension: Européen No. 0 654 458, Etats-Unis No. 5 576 466.
5. Procédé pour oxyder directement en soufre par voie catalytique l'H<sub>2</sub>S contenu en faible concentration dans un gaz et catalyseur pour la mise en oeuvre de ce procédé (Method and catalyst for catalytically oxidizing a low concentration of H<sub>2</sub>S in a gas to give sulphur). Philippe A., Savin-Poncet S., Nougayrède J., Ledoux M. J., Pham-Huu C., Crouzet C. Déposé par Elf Aquitaine Production en 1994. Français, PCT No. WO97/19019. Extension: Etats-Unis (US 6,083,471), Canada, Norvège.
6. Process for production of olefins using a molybdenum oxycarbide dehydrogenation catalyst. Krause O. I., Ledoux M. J., Meunier F., Del Gallo P., Pham-Huu C., Niemi V., Hiltunen J. Déposé par Neste Oy en 1995. Finlande, No. 950751. Extension: Etats-Unis.
7. Catalyseurs à base d'oxycarbure de molybdène modifié préparé à partir d'oxyde de molybdène orienté et son procédé d'obtention. Ledoux M. J., Pham-Huu C., Bouchy C., Delporte P., Del Gallo P. Déposé par Pechiney en 1997. Brevet Français No. FR 2 760 979-B1.
8. Procédé catalytique pour oxyder directement en soufre à basse température l'H<sub>2</sub>S contenu en faible concentration dans un gaz et catalyseur pour la mise en oeuvre de ce procédé (Direct oxidation of hydrogen sulphide to sulphur at low reaction temperature using catalytically active phase supported on silicon carbide exhibiting improved selectivity to sulphur). Ledoux M. J., Nougayrède J., Savin-Poncet S., Pham-Huu C., Keller N., Crouzet C. Déposé par Elf Aquitaine Production en 1997. Demande de brevet Français No. 97-16617
9. Procédé pour oxyder directement en soufre, par voie catalytique et en phase vapeur, l'H<sub>2</sub>S contenu à faible teneur dans un gaz (Catalytic process for direct oxidation in a gas phase of hydrogen sulphide to sulphur). Ledoux M. J., Nougayrède J., Pham-Huu C., Keller N., Savin-Poncet S., Crouzet C. Déposé par Elf Aquitaine Production en 1998. Demande de brevet Français No. 98-11941
10. Catalyst and process for aromatic hydrocarbons production from methane. Allison J. D., Basso S., Ledoux M. J., Pham-Huu C., Wright H. A. Déposé par Conoco Inc. en 2000. US Patent No. 6,552,243 (2003).
11. Procédé d'obtention de gaz de synthèse avec ou sans flamme (Method for obtaining synthesis gas by partial catalytic oxidation). Pham-Huu C., Leroi P., Ledoux M. J., Savin-Poncet S., Bousquet J. Déposé par TotalFinaElf en 2001. Demande de brevet Français No. 01-08170, déposé le 21 Juin 2001. Extension PCT WO-03/000398 A2.
12. Composites à base de nanotubes ou nanofibres de carbone déposés sur un support active pour application en catalyse.



- Pham-Huu Ch., Pham-Huu C., Vieira R., Ledoux M. J., Charbonnière L., Ziessel R.  
Déposé par Sicat en 2001.  
Demande de brevet Français No. 01-15178.  
Extension PCT/WO 03/048039 A2 (2003).
13. Photocatalyseur et procédé de purification d'effluents gazeux (Photocatalyst and a method of purifying gaseous effluents). Keller-Spitzer V., Bernhardt P., Pham-Huu C., Garin F., Ledoux M. J.  
Déposé par Sicat en 2002.  
Brevet Français No. FR 2 831 467-A1.
  14. Composites zéolithe/SiC et leur utilisation en catalyse. Basso S., Tessonnier J. P., Pham-Huu C., Ledoux M. J.  
Déposé par Sicat en 2002.  
Demande de brevet Français No. 02-00541.  
Extension PCT/FR02-00541 (2003).
  15. Offshore conversion of methane to transportable liquid aromatics. Allison J. D., Basso S., Ledoux M. J., Pham-Huu C., Wright H. A.  
Déposé par Conoco Inc. en 2002.  
Demande de brevet US Application No. 60-352,445.
  16. Méthode de préparation par impregnation biphasique de nouveaux catalyseurs pour la catalyse hétérogène, et utilisation desdits catalyseurs. Pham-Huu C., Keller N., Ledoux M. J., Nhut J. M., Pesant L., Estournès C.  
Déposé par Sicat en 2002.  
Demande de brevet Français No. 02-08635.
  17. Composites zéolithe/SiC et leur utilisation en catalyse. Basso S., Tessonnier J. P., Pham-Huu C., Ledoux M. J., Winé G.  
Déposé par Sicat en 2003.  
US Patent Application No. 20030162649 A1.
  18. Matériau céramique à base de carbure de silicium pour utilisation dans les milieux agressifs. Pham-Huu C., Nguyen P., Pham Ch., Ledoux M. J.  
Déposé par Sicat en 2003.  
Demande de brevet Français No. 03-04749.
  19. Photocatalyst and process for purifying gas effluents. Keller-Spitzer V., Bernhardt P., Pham-Huu C., Garin F., Ledoux M. J., Pham Ch.  
Déposé par Sicat en 2003.  
Extension PCT WO 03/037509 A1 (2002). US Patent Application No. 10-380,290.
  20. Filtre catalytique à base de carbure de silicium ( $\square$ -SiC) pour la combustion des suies issues des gaz d'échappement d'un moteur à combustion. Pham Ch., Pesant L., Bernhardt P., Wolf M., Garin F., Pham-Huu C., Ledoux M. J.  
Déposé par Sicat en 2003.  
Demande de brevet Français No. 03-12085.
  21. Procédé de traitement des mélanges méthane, dioxyde de carbone et sa mise en œuvre sur un champ pétrolier. Pham-Huu C., Leroi P., Ledoux M. J., Savin-Poncet S., Bousquet J.  
Déposé par Total en 2003.  
Demande de brevet Français No. 03-
  22. Procédé de transformation d'un gaz de synthèse en hydrocarbures en présence de SiC bêta et effluent de ce procédé. Pham-Huu C., Ledoux M. J., Savin-Poncet S.  
Déposé par Total France le 31 Décembre 2003.  
Demande de brevet Français No. 03-15622.  
Extension WO 2005/073345 A1.
  23. Procédé de transformation d'un gaz de synthèse en hydrocarbures en présence de SiC bêta et effluent de ce procédé. Savin-Poncet S., Ledoux M. J., Pham-Huu C., Bousquet J., Madani B.  
Déposé par Total France le 31 Décembre 2003.  
Extension WO 2005/073345 A1.
  24. Matériau céramique composite à base de carbure de silicium pour utilisation dans les milieux agressifs. Pham-Huu C., Nguyen P., Pham Ch., Ledoux M. J.  
Déposé par Sicat en 2004.  
Demande de brevet Français No. 04-03930.
  25. Filtre catalytique à base de carbure de silicium ( $\square$ -SiC) pour la combustion des suies issues des gaz d'échappement d'un moteur à combustion. Pham Ch., Pesant L., Bernhardt P., Wolf M., Pham-Huu C., Ledoux M. J., Karthausser M., Vanhaecke E.  
Déposé par Sicat en 2004.  
Demande de brevet Français No. 04-07635.
  26. Traitement de milieux aqueux comprenant des espèces hydrophobes par des matériaux nanostructurés à base de carbone. Ledoux M. J., Pham-Huu C., Ulrich G., Vieira R., Nguyen P., Amadou J., Tessonnier J. P., Begin D., Ziessel R.  
Déposé par le CNRS et l'Université Louis Pasteur (Strasbourg) en 2005.  
Demande de brevet Français No. 05-01107.
  27. Matériaux à base de nanofibres ou nanotubes de carbone enchevêtrés, leur préparation et utilisations. Ledoux M. J., Pham-Huu C., Begin D., Nguyen P., Amadou J., Tessonnier J. P.  
Déposé par le CNRS et l'Université Louis Pasteur (Strasbourg) en 2005.  
Demande de brevet Français No. 05-01105.
  28. Procédé de transformation d'un gaz de synthèse en hydrocarbures en présence de mousse de SiC. Pham-Huu C., Madani B., Lacroix M., Dreibine L., Ledoux M. J., Savin-Poncet S., Bousquet J.  
Déposé par TotalFinaElf en 2005.  
Demande de brevet Français No. 05-

29. Procédé de fabrication d'un catalyseur à base de mousse de carbone en une seule étape pour les applications en catalyse.  
Pham-Huu C., Pham Ch., Nguyen P., Vanhaecke E., Lacroix M., Ledoux M. J.  
Déposé par Sicat en 2006.  
Demande de brevet Français No. 06-
30. Déshydratation du méthanol en diméthyl éther employant des catalyseurs à base d'une zéolithe supportée sur du carbure de silicium.  
Ivanova S., Vanhaecke E., Libs S., Louis B., Pham-Huu C., Ledoux M. J.  
Déposé par le CNRS en 2006.  
Demande de brevet Français No. 06-10743.
31. Procédé de transformation d'un gaz de synthèse en hydrocarbures en présence de mousse de SiC.  
Schweich D., Bousquet J. L., Pham-Huu C., Savin-Poncet S.  
Déposé par Total en 2006.  
Demande de brevet Français No. 06-
32. Composite de nanotubes ou nanofibres sur mousse de  $\square$ -SiC.  
Pham-Huu C., Pham Ch., Nguyen P., Vanhaecke E., Winé G., Ivanova S.  
Déposé par Sicat, CNRS et l'Université Louis Pasteur en 2007.  
Demande de brevet Français No. 07-04805.
33. Support de catalyseur à base de  $\square$ -SiC avec une couche d'alumine.  
Nguyen P., Pham Ch., Lacroix M., Dreibine L., Pham-Huu C.  
Déposé par Sicat, CNRS et l'Université Louis Pasteur en 2007.  
Demande de brevet Français No. 07-05213.
34. Procédé d'oxydation sélective de  $H_2S$  en soufre à l'aide d'un catalyseur supporté par une mousse poreuse.  
Nguyen P., Pham Ch., Pham-Huu C.  
Déposé par Sicat, CNRS et l'Université Louis Pasteur le 21 Décembre 2007.  
Demande de brevet Français No. 07-08988.
35. Réacteurs chimique avec superstructure nanométrique.  
Pham-Huu C., Janowska I., Edouard D., Keller-Spitzer V., Keller N., Ledoux M. J.  
Déposé par le CNRS et l'Université Louis Pasteur le 30 Novembre 2007.  
Demande de brevet Français No. 07-08411.
36. Photocatalyseurs à base de mousses tridimensionnelles structurées en carbone ou matériau carboné.  
Pham-Huu C., Keller N., Ledoux M. J., Keller-Spitzer V., Bégin D., Grandcolas M., Josset S., Hajesmaili Sh., Romero Th., Wurtz N.  
Déposé par le CNRS et l'Université Louis Pasteur le 12 Septembre 2008.  
Demande de brevet Français No. 08-05023.
37. Photocatalyseurs à base de mousses tridimensionnelles structurées en carbure et notamment en  $\square$ -SiC.  
Pham-Huu C., Keller N., Ledoux M. J., Keller-Spitzer V., Bégin D., Grandcolas M., Janowska I., Hajesmaili Sh.  
Déposé par le CNRS et l'Université Louis Pasteur le 12 Septembre 2008.  
Demande de brevet Français No. 08-05021.
38. Procédé de préparation de graphène.  
Janowska I., Pham-Huu C., Ersen O., Bégin D., Ledoux M. J.  
Déposé par le CNRS et l'Université de Strasbourg le 12 Janvier 2009.  
Demande de brevet Français No. 09-0100.
39. Procédé de préparation du graphène par amincissement mécanique des composés graphitiques.  
Janowska I., Bégin D., Chizari K., Ersen O., Bernhardt P., Romero Th., Ledoux M. J., Pham-Huu C.  
Déposé par le CNRS et l'Université de Strasbourg le 03 Novembre 2009.  
Demande de brevet Français No. 09-05252.
40. Catalyseur composite à base de carbure de silicium et zéolithe Y.  
Lopes T., Pham-Huu C., Bouchy Ch.  
Déposé par l'IFP, l'ENI Spa, CNRS et l'Université de Strasbourg le 06 Octobre 2009.  
Demande de brevet Français No. 09-04767.
41. Préparation de graphène par amincissement mécanique de matériaux graphitiques.  
Janowska I., Bégin D., Chizari K., Ersen O., Bernhardt P., Romero Th., Ledoux M. J., Pham-Huu C.  
Déposé par le CNRS et l'Université de Strasbourg en 2010.  
Demande de brevet Français No. 10-02719 le 30 Juin 2010.  
Extension PCT/FR2010/000730 déposé le 4 Novembre 2010.
42. Réacteur à plaques pour la synthèse de Fischer-Tropsch.  
**Pham-Huu C.**, Liu Y., Edouard D., Janowska I., Romero Th., Bégin D., Ledoux M. J.  
Déposé par le CNRS et l'Université de Strasbourg en 2010.  
Demande de brevet Français No. 10-03777 le 23 Septembre 2010.
43. Procédé catalytique pour la conversion d'un gaz de synthèse en hydrocarbures.  
Nguyen P., Pham Ch., de Tymowski B., **Pham-Huu C.**, Luck Fr.  
Déposé par SICAT, TOTAL SA, CNRS et l'Université de Strasbourg en 2011.  
Demande de brevet Français No. 11-01704 déposée le 01 Juin 2011.  
Internationale WO 2012164231-A1.
44. Procédé catalytique pour la conversion d'un gaz de synthèse en hydrocarbures.  
Liu Y., Nguyen P., Pham Ch., **Pham-Huu C.**  
Demande de brevet français No. FR 2992236 déposée par SICAT, le CNRS et l'Université de Strasbourg en 2012.  
Internationale WO 2014001697-A1.

45. Procédé pour la détermination des caractéristiques morphologiques d'un matériau solide cellulaire.  
**Edouard D.,** Belkadi A., **Pham-Huu C.**  
Demande de brevet Français No. 13-62869 déposée par le CNRS et l'Université de Strasbourg, déposée le 18 Décembre 2013.
46. Method for preparing highly nitrogen-doped mesoporous carbon composites.  
Liu Y., Nguyen-Dinh L., Ba H., **Nhut J. M.,** Giambastiani G., **Pham-Huu C.**  
Déposée par le CNRS, l'Université de Strasbourg et le CNR, déposée le 21 Janvier 2015.  
Demande de brevet Européen No. EP 15-152038.
47. Use of highly nitrogen-doped mesoporous carbon composites for catalytic advanced oxidation processes (AOP) for water and wastewater treatment.  
Liu Y., Nguyen-Dinh L., Ba H., **Nhut J. M.,** Giambastiani G., **Pham-Huu C.**  
Déposée par le CNRS, l'Université de Strasbourg et le CNR, déposée le 21 Janvier 2015.  
Demande de brevet Européen No. EP 15-152039.
48. Nanocomposites nanomatériau/système polymoléculaire colloïdaux et méthodes de préparation.  
**Janowska I.,** Ba H., Truong-Phuoc L., **Pham-Huu C.**  
Déposée par le CNRS et l'Université de Strasbourg, 10 Novembre 2016.  
Demande de brevet Français No. 16-1000374965.
49. Process for the non-oxidative dehydrogenation of a hydrocarbon and uses thereof.  
Ba H., Giambastiani G., Tuci G., Nguyen-Dinh L., **Granger P., Pham-Huu C.**  
Demande de brevet Européen déposée par le CNRS et l'Université de Strasbourg, déposée le 26 mars 2018.  
Demande de brevet Européen No. EP 18-305336.
50. Eléments de construction pour l'assainissement du milieu urbain routier.  
Masquida J. P., Pham C., Ba H., **Millet M., Jeltsch J. M.,** Héraud J. A., Laurent J., **Pham-Huu C.**  
Déposée par La Ville Propre SAS, SICAT SARL, le CNRS et l'Université de Strasbourg, déposée le 29 Janvier 2018.  
Demande de brevet Français No. FR 18-50654.
51. Méthode de fabrication d'un composite conducteur comprenant au moins une couche superficielle comprenant du graphène multi-feuillets.  
Ba H., **Sutter C.,** Bahouka A., Lafue Y., Nguyen-Dinh L., **Pham-Huu C.**  
Déposée par le CNRS et l'Université de Strasbourg, déposée le 19 octobre 2018.  
Demande de brevet Français No. FR 18-59684.
52. Procédé de réalisation, d'application et de fixation d'un revêtement de surface multicouches à base de matériau(x) 2D et/ou carboné(s) sur un substrat hôte et dispositif de substrat hôte susceptible d'être obtenu par ledit procédé.  
**Pham-Huu C.,** Ba H., Lafue Y., Bahouka A.  
Déposée par BlackLeaf SAS, le CNRS et l'Université de Strasbourg, déposée le 27 novembre 2018.  
Demande de brevet Européen No. FR 18-71908.
53. Procédé de conversion du CO<sub>2</sub> en méthane.  
Truong-Phuoc L., Nhut J.-M., Giambastiani G., Pham-Huu C., Jourdan A.  
Déposé par ORANO Chimie-Enrichissement le 29 avril 2021.  
Demande de brevet française No. FR2104508.
54. Process for catalytic non-oxidative conversion of saturated hydrocarbons using a carbon-based catalyst.  
Van Daele S., Kettner M., Nesterenko N., Dath J.-P., Nhut J.-M., Pham-Huu C., Xu Z.  
Déposée par TotalEnergies, le CNRS et l'Université de Strasbourg le 27 octobre 2021.  
Demande de brevet Européen No. EP21306494.2.
55. Process for the production of hydrogen and carbon by catalytic non-oxidative decomposition of hydrocarbons.  
Francke L., Benquet C., Dath J.-P., Truong-Phuoc L., Nhut J.-M., Pham-Huu C.  
Déposée par TotalEnergies, le CNRS et l'Université de Strasbourg le 27 octobre 2021.  
Demande de brevet Européen No. EP21306495.9.
56. Dispositif passif de capture des microparticules en suspension dans l'air.  
Pham C., Viéville C., Hertel N., Ba H., Vigneron F., Truong-Phuoc L., Nhut J.-M., Pham-Huu C.  
Déposée par TrapAparT, le CNRS et l'Université de Strasbourg le 14 décembre 2021.  
Demande de brevet française No. FR2113509.

