
Publications 1998-2023 (March) (in bold: publications in which I am the corresponding/principal author)

1. D. Chen, J. Zhang, M. Barreau, S. Turczyniak-Surdacka, O. Joubert, A.L.G. la Salle & S. Zafeiratos, S. (2023). Ni-doped CeO₂ nanoparticles to promote and restore the performance of Ni/YSZ cathodes for CO₂ electroreduction. *Applied Surface Science*, **611**, 155767.
<https://doi.org/10.1016/J.APSUSC.2022.155767>
2. P. Berling, M. Dolci, S. Zafeiratos, T. Gehin, C. Leuvrey, C. Kiefer, D. Wagner, F. Boulmedais & B.P. Pichon (2022). Chemical design of high performance SPR biosensor based on a dielectric nanoparticle assembly supported onto a gold thin film. *Sensors & Diagnostics*, **1**(5), 1069–1079.
<https://doi.org/10.1039/D2SD00069E>
3. D. Chen, M. Barreau, S. Turczyniak-Surdacka, K. Sobczak, M. Strawski, A.L.G. La Salle, A. Efimenko, D. Teschner, C. Petit, S. Zafeiratos, A. Le Gal La Salle, A. Efimenko, D. Teschner, C. Petit, S. Zafeiratos, Ceria nanoparticles as promoters of CO₂ electroreduction on Ni/YSZ: an efficient preparation strategy and insights into the catalytic promotion mechanism, *Nano Energy*. **101** (2022) 107564. doi:10.1016/j.nanoen.2022.107564.
4. M. Barreau, D. Chen, J. Zhang, V. Papaefthimiou, C. Petit, D. Salusso, E. Borfecchia, S. Turczyniak-Surdacka, K. Sobczak, S. Mauri, L. Braglia, P. Torelli, S. Zafeiratos, Synthesis of Ni-doped ceria nanoparticles and their unusual surface reduction in hydrogen, *Mater. Today Chem.* **26** (2022) 101011. doi:10.1016/j.mtchem.2022.101011.
5. D. Chen, M. Barreau, T. Dintzer, F. Bournel, J.-J. Gallet, S. Zafeiratos, Surface oxidation of Ni-cermet electrodes by CO₂ and H₂O and how to moderate it, *J. Energy Chem.* **67** (2022) 300–308. doi:10.1016/j.jechem.2021.10.002.
6. D. Chen, D.K. Niakolas, V. Papaefthimiou, E. Ioannidou, S.G. Neophytides, S. Zafeiratos, How the surface state of nickel/gadolinium-doped ceria cathodes influences the electrochemical performance in direct CO₂ electrolysis, *J. Catal.* **404** (2021) 518–528. doi:10.1016/j.jcat.2021.10.027.
7. L. Zhong, M. Barreau, V. Caps, V. Papaefthimiou, M. Haevecker, D. Teschner, W. Baaziz, E. Borfecchia, L. Braglia, S. Zafeiratos, Improving the Catalytic Performance of Cobalt for CO Preferential Oxidation by Stabilizing the Active Phase through Vanadium Promotion, *ACS Catal.*, **2021**, *11* 5369–5385.
8. P. Granger, J. Wu, H. Ba, W. Baaziz, O. Ersen, S. Zafeiratos, J.-M. Nhut, G. Giambastiani, C. Pham-Huu, Cooperative effect of Pt single-atoms and nanoparticles supported on carbonaceous materials: Catalytic NO decomposition as a probe reaction, *Appl. Catal. A Gen.* **2021**, *617*, 118103.
9. X. Zhang, L. Truong-Phuoc, X. Liao, G. Tuci, E. Fonda, V. Papaefthymiou, S. Zafeiratos, G. Giambastiani, S. Pronkin, C. Pham-Huu, An Open Gate for High-Density Metal Ions in N-Doped Carbon Networks: Powering Fe–N–C Catalyst Efficiency in the Oxygen Reduction Reaction, *ACS Catal.* **2021**, *11*, 8915–8928.
10. L. Zhong, M. Barreau, D. Chen, V. Caps, M. Haevecker, D. Teschner, D.H. Simonne, E. Borfecchia, W. Baaziz, B. Šmíd, S. Zafeiratos, Effect of manganese promotion on the activity and selectivity of cobalt catalysts for CO preferential oxidation, *Appl. Catal. B Environ.* **2021**, *297*, 120397.
11. Khouya, A. A.; Ba, H.; Baaziz, W.; Nhut, J.-M. M.; Rossin, A.; Zafeiratos, S.; Ersen, O.; Giambastiani, G.; Ritoleng, V.; Pham-Huu, C. Palladium Nanosheet-Carbon Black Powder Composites for Selective Hydrogenation of Alkenes to Alkenes. *ACS Appl. Nano Mater.* **2021**, *4* (2), 2265–2277.
12. Ba, H.; Sutter, C.; Papaefthimiou, V.; Zafeiratos, S.; Bahouka, A.; Lafue, Y.; Nguyen-Dinh, L.; Romero, T.; Pham-Huu, C. Foldable Flexible Electronics Based on Few-Layer Graphene Coated on Paper Composites. *Carbon N. Y.* **2020**, *167*, 169–180.

- 13.** Djokić, V. R.; Marinković, A. D.; Petrović, R. D.; Ersen, O.; Zafeiratos, S.; Mitrić, M.; Ophus, C.; Radmilović, V. R.; Janaćković, D. T. Highly Active Rutile TiO₂Nanocrystalline Photocatalysts. *ACS Appl. Mater. Interfaces* **2020**, *12* (29), 33058–33068.
- 14.** Saveleva, V. A.; Wang, L.; Kasian, O.; Batuk, M.; Hadermann, J.; Gallet, J.; Bournel, F.; Alonso-vante, P. N.; Ozouf, G.; Beauger, C.; Mayrhofer, K. J. J.; Cherevko, S.; Gago, A. S.; Friedrich, K. A.; Zafeiratos, S.; Savinova, E. R. Insight into the Mechanisms of High Activity and Stability of Iridium Supported on Antimony-Doped Tin Oxide Aerogel for Anodes of Proton Exchange Membrane Water Electrolyzers. *ACS Catal.* **2020**, *10*, 2508–2516.
- 15.** Chen, D.; Mewafy, B.; Paloukis, F.; Zhong, L.; Papaefthimiou, V.; Dintzer, T.; Papazisi, K. M.; Balomenou, S. P.; Tsiplikides, D.; Teschner, D.; Pérez-Dieste, V.; Escudero, C.; Zafeiratos, S. Revising the Role of Chromium on the Surface of Perovskite Electrodes: Poison or Promoter for the Solid Oxide Electrolysis Cell Performance? *J. Catal.* **2020**, *381*, 520–529.
- 16.** Mewafy, B.; Paloukis, F.; Papazisi, K. M.; Balomenou, S. P.; Luo, W.; Teschner, D.; Joubert, O.; Le Gal La Salle, A.; Niakolas, D. K.; Zafeiratos, S. Influence of Surface State on the Electrochemical Performance of Nickel-Based Cermet Electrodes during Steam Electrolysis. *ACS Appl. Energy Mater.* **2019**, *2* (10), 7045–7055.
- 17.** Zhang, G.; Liu, M.; Heil, T.; Zafeiratos, S.; Savateev, A.; Antonietti, M.; Wang, X. Electron Deficient Monomers That Optimize Nucleation and Enhance the Photocatalytic Redox Activity of Carbon Nitrides. *Angew. Chemie - Int. Ed.* **2019**, *58* (42), 14950–14954.
- 18.** Zhong, L.; Kropp, T.; Baaziz, W.; Ersen, O.; Teschner, D.; Schlögl, R.; Mavrikakis, M.; Zafeiratos, S. Correlation Between Reactivity and Oxidation State of Cobalt Oxide Catalysts for CO Preferential Oxidation. *ACS Catal.* **2019**, *9*, 8325–8336.
- 19.** Zhong, L.; Chen, D.; Zafeiratos, S. A mini review of *in situ* near-ambient pressure XPS studies on non-noble, late transition metal catalysts. *Catal. Sci. Technol.* **2019**, *9*, 3851–3867.
- 20.** Wang, X.; Savateev, A.; Li, G.; Heil, T.; Zafeiratos, S.; Zhang, G.; Antonietti, M. Tailoring Grain Boundary Chemistry of Polymeric Carbon Nitride for Enhanced Solar H₂ Production and CO₂ Reduction. *Angew. Chemie Int. Ed.* **2019**, *58*, 3433–3437.
- 21.** Dolci, M.; Toulemon, D.; Chaffar, Z.; Bubendorff, J.-L.; Tielens, F.; Calatayud, M.; Zafeiratos, S.; Begin-Colin, S.; Pichon, B. P. Nanoparticle Assembling through Click Chemistry Directed by Mixed SAMs for Magnetic Applications. *ACS Appl. Nano Mater.* **2019**, *2* (1), 554–565.
- 22.** Crake, A.; Christoforidis, K. C.; Godin, R.; Moss, B.; Kafizas, A.; Zafeiratos, S.; Durrant, J. R.; Petit, C. Titanium Dioxide/Carbon Nitride Nanosheet Nanocomposites for Gas Phase CO₂ Photoreduction under UV-Visible Irradiation. *Appl. Catal. B Environ.* **2019**, *242*, 369–378.
- 23.** Katsaounis, A.; Teschner, D.; Zafeiratos, S. The Effect of Polarization and Reaction Mixture on the Rh/YSZ Oxidation State During Ethylene Oxidation Studied by Near Ambient Pressure XPS. *Top. Catal.* **2018**, *61* (20), 2142–2151.
- 24.** Dolci, M.; Bryche, J.-F.; Leuvrey, C.; Zafeiratos, S.; Gree, S.; Begin-Colin, S.; Barbillon, G.; Pichon, B. P. Robust Clicked Assembly Based on Iron Oxide Nanoparticles for a New Type of SPR Biosensor. *J. Mater. Chem. C* **2018**, *6* (34), 9102–9110.
- 25.** Desplancq, D.; Groysbeck, N.; Chiper, M.; Weiss, E.; Frisch, B.; Strub, J.-M.; Cianferani, S.; Zafeiratos, S.; Moeglin, E.; Holy, X.; Favier, A. L.; De Carlo, S.; Schultz, P.; Spehner, D.; Zuber, G. Cytosolic Diffusion and Peptide-Assisted Nuclear Shuttling of Peptide-Substituted Circa 102 Gold Atom Nanoclusters in Living Cells. *ACS Appl. Nano Mater.* **2018**, *1* (8), 4236–4246.

- 26. Derafa, W.; Paloukis, F.; Mewafy, B.; Baaziz, W.; Ersen, O.; Petit, C.; Corbel, G.; Zafeiratos, S. Synthesis and Characterization of Nickel-Doped Ceria Nanoparticles with Improved Surface Reducibility. *RSC Adv.* **2018**, *8* (71), 40712–40719.**
- 27. Azeredo, B.; Carton, A.; Leuvrey, C.; Kiefer, C.; Ihawakrim, D.; Zafairatos, S.; Gallart, M.; Gilliot, P.; Pichon, B. P. Synergistic Photo Optical and Magnetic Properties of a Hybrid Nanocomposite Consisting of a Zinc Oxide Nanorod Array Decorated with Iron Oxide Nanoparticles. *J. Mater. Chem. C* **2018**, *6* (39), 10502–10512.**
- 28. G. Zhang, L. Lin, G. Li, Y. Zhang, A. Savateev, S. Zafeiratos, X. Wang, M. Antonietti, Ionothermal Synthesis of Triazine-Heptazine-Based Copolymers with Apparent Quantum Yields of 60 % at 420 nm for Solar Hydrogen Production from “Sea Water,” *Angew. Chemie Int. Ed.* **57** (2018) 9372–9376. doi:10.1002/anie.201804702.**
- 29. Saveleva, V. A.; Wang, L.; Teschner, D.; Jones, T.; Gago, A. S.; Friedrich, K. A.; Zafeiratos, S.; Schlägl, R.; Savinova, E. R. Operando Evidence for a Universal Oxygen Evolution Mechanism on Thermal and Electrochemical Iridium Oxides. *J. Phys. Chem. Lett.* **2018**, *9* (11), 3154–3160.**
- 30. Lettenmeier, P.; Majchel, J.; Wang, L.; Saveleva, V. A.; Zafeiratos, S.; Savinova, E. R.; Gallet, J. J.; Bournel, F.; Gago, A. S.; Friedrich, K. A. Highly Active Nano-Sized Iridium Catalysts: Synthesis and Operando Spectroscopy in a Proton Exchange Membrane Electrolyzer. *Chem. Sci.* **2018**, *9* (14), 3570–3579.**
- 31. Reggente, M.; Masson, P.; Dollinger, C.; Palkowski, H.; Zafeiratos, S.; Jacomine, L.; Passeri, D.; Rossi, M.; Vrana, N. E.; Pourroy, G.; Carradò, A. Novel Alkali Activation of Titanium Substrates to Grow Thick and Covalently Bound PMMA Layers. *ACS Appl. Mater. Interfaces* **2018**, *10* (6).**
- 32. Luo, W.; Mélart, C.; Rach, A.; Sutter, C.; Zafeiratos, S. Interaction of Bimetallic PtCo Layers with Bare and Graphene-Covered ZnO(0001) Supports. *Surf. Sci.* **2018**, *669*, 64–70.**
- 33. Turczyniak, S.; Greluk, M.; Słowik, G.; Gac, W.; Zafeiratos, S.; Machocki, A. Surface State and Catalytic Performance of Ceria-Supported Cobalt Catalysts in the Steam Reforming of Ethanol. *ChemCatChem* **2017**, *9* (5), 782–797.**
- 34. Ponzio, F.; Le Houerou, V.; Zafeiratos, S.; Gauthier, C.; Garnier, T.; Jierry, L.; Ball, V. Robust Alginate-Catechol@Polydopamine Free-Standing Membranes Obtained from the Water/Air Interface. *Langmuir* **2017**, *33* (9), 2420–2426.**
- 35. Luo, W.; Baaziz, W.; Cao, Q.; Ba, H.; Baati, R.; Ersen, O.; Pham-Huu, C.; Zafeiratos, S. Design and Fabrication of Highly Reducible PtCo Particles Supported on Graphene-Coated ZnO. *ACS Appl. Mater. Interfaces* **2017**, *9* (39), 34256–34268.**
- 36. Paloukis, F.; Papazisi, K. M.; Dintzer, T.; Papaefthimiou, V.; Saveleva, V. A.; Balomenou, S. P.; Tsiplikides, D.; Bournel, F.; Gallet, J.-J.; Zafeiratos, S. Insights into the Surface Reactivity of Cermet and Perovskite Electrodes in Oxidizing, Reducing, and Humid Environments. *ACS Appl. Mater. Interfaces* **2017**, *9* (30), 25265–25277.**
- 37. Díez-Ramírez, J.; Sánchez, P.; Kyriakou, V.; Zafeiratos, S.; Marnellos, G. E.; Konsolakis, M.; Dorado, F. Effect of Support Nature on the Cobalt-Catalyzed CO₂ Hydrogenation. *J. CO₂ Util.* **2017**, *21*, 562–571.**
- 38. Kurpil, B.; Savateev, A.; Papaefthimiou, V.; Zafeiratos, S.; Heil, T.; Özenler, S.; Dontsova, D.; Antonietti, M. Hexaazatriphenylene Doped Carbon nitrides—Biomimetic Photocatalyst with Superior Oxidation Power. *Appl. Catal. B Environ.* **2017**, *217*, 622–628.**
- 39. Papaefthimiou, V.; Niakolas, D. K. D. K.; Paloukis, F.; Teschner, D.; Knop-Gericke, A.; Haevecker, M.; Zafeiratos, S. Operando Observation of Nickel/ceria Electrode Surfaces during Intermediate Temperature Steam Electrolysis. *J. Catal.* **2017**, *352*, 305–313.**
- 40. Crake, A.; Christoforidis, K. C.; Kafizas, A.; Zafeiratos, S.; Petit, C. CO₂ Capture and Photocatalytic Reduction Using Bifunctional TiO₂/MOF Nanocomposites under UV-vis Irradiation. *Appl. Catal. B Environ.* **2017**, *210*, 131–140.**

- 41.** Paloukis, F.; Papazisi, K. M.; Balomenou, S. P.; Tsipakides, D.; Bournel, F.; Gallet, J.-J.; Zafeiratos, S. In Situ X-Ray Photoelectron Spectroscopy Study of Complex Oxides under Gas and Vacuum Environments. *Appl. Surf. Sci.* **2017**, *423*, 1176–1181.
- 42.** Wang, L.; Saveleva, V. A.; Zafeiratos, S.; Savinova, E. R.; Lettenmeier, P.; Gazdzicki, P.; Gago, A. S.; Friedrich, K. A. Highly Active Anode Electrocatalysts Derived from Electrochemical Leaching of Ru from Metallic Ir 0.7 Ru 0.3 for Proton Exchange Membrane Electrolyzers. *Nano Energy* **2017**, *34*, 385–391.
- 43.** Zhang, G.; Li, G.; Lan, Z.-A.; Lin, L.; Savateev, A.; Heil, T.; Zafeiratos, S.; Wang, X.; Antonietti, M. Optimizing Optical Absorption, Exciton Dissociation, and Charge Transfer of a Polymeric Carbon Nitride with Ultrahigh Solar Hydrogen Production Activity. *Angew. Chemie Int. Ed.* **2017**, *56* (43), 13445–13449.
- 44.** Luo, W.; Zafeiratos, S. A Brief Review of Synthesis and Catalytic Applications of Graphene-Coated Oxides. *ChemCatChem* **2017**, *9* (13), 2432–2442.
- 45.** Papaefthimiou, V.; Niakolas, D. K. D. K.; Paloukis, F.; Dintzer, T.; Zafeiratos, S. Is Steam an Oxidant or a Reductant for Nickel/Doped-Ceria Cermets? *ChemPhysChem* **2017**, *18* (1), 164–170.
- 46.** Christoforidis, K. C.; Melchionna, M.; Montini, T.; Papoulis, D.; Stathatos, E.; Zafeiratos, S.; Kordouli, E.; Fornasiero, P., Solar and visible light photocatalytic enhancement of halloysite nanotubes/g-C₃N₄ heteroarchitectures. *Rsc Advances* **2016**, *6* (89), 86617-86626.
- 47.** Christoforidis, K. C.; Montini, T.; Bontempi, E.; Zafeiratos, S.; Delgado Jaen, J. J.; Fornasiero, P., Synthesis and photocatalytic application of visible-light active beta-Fe₂O₃/g-C₃N₄ hybrid nanocomposites. *Applied Catalysis B-Environmental* **2016**, *187*, 171-180.
- 48.** Demchenko, A.; Chang, Y.; Chikoidze, E.; Berini, B.; Lefevre, C.; Roulland, F.; Ulhaq-Bouillet, C.; Versini, G.; Barre, S.; Leuvrey, C.; Favre-Nicolin, V.; Boudet, N.; Zafeiratos, S.; Dumont, Y.; Viart, N., Tuning the conductivity type in a room temperature magnetic oxide: Ni-doped Ga_{0.6}Fe_{1.4}O₃ thin films. *Rsc Advances* **2016**, *6* (34), 28248-28256.
- 49.** Luo, W.; Zafeiratos, S., Graphene-Coated ZnO and SiO₂ as Supports for CoO Nanoparticles with Enhanced Reducibility. *Chemphyschem* **2016**, *17* (19), 3055-3061.
- 50.** Luo, W.; Zafeiratos, S., Tuning Morphology and Redox Properties of Cobalt Particles Supported on Oxides by an in between Graphene Layer. *Journal of Physical Chemistry C* **2016**, *120* (26), 14130-14139.
- 51.** Oshchepkov, A. G.; Bonnefont, A.; Saveleva, V. A.; Papaefthimiou, V.; Zafeiratos, S.; Pronkin, S. N.; Parmon, V. N.; Savinova, E. R., Exploring the Influence of the Nickel Oxide Species on the Kinetics of Hydrogen Electrode Reactions in Alkaline Media. *Topics in Catalysis* **2016**, *59* (15-16), 1319-1331.
- 52.** Saveleva, V. A.; Papaefthimiou, V.; Daletou, M. K.; Doh, W. H.; Ulhaq-Bouillet, C.; Diebold, M.; Zafeiratos, S.; Savinova, E. R., Operando Near Ambient Pressure XPS (NAP-XPS) Study of the Pt Electrochemical Oxidation in H₂O and H₂O/O₂ Ambients. *Journal of Physical Chemistry C* **2016**, *120* (29), 15930-15940.
- 53.** Saveleva, V. A.; Wang, L.; Luo, W.; Zafeiratos, S.; Ulhaq-Bouille, C.; Gago, A. S.; Friedrich, K. A.; Savinova, E. R., Uncovering the Stabilization Mechanism in Bimetallic Ruthenium-Iridium Anodes for Proton Exchange Membrane Electrolyzers. *Journal of Physical Chemistry Letters* **2016**, *7* (16), 3240-3245.
- 54.** Turczyniak, S.; Luo, W.; Papaefthimiou, V.; Ramgir, N. S.; Haevecker, M.; Machocki, A.; Zafeiratos, S., A Comparative Ambient Pressure X-ray Photoelectron and Absorption Spectroscopy Study of Various Cobalt-Based Catalysts in Reactive Atmospheres. *Topics in Catalysis* **2016**, *59* (5-7), 532-542.
- 55.** Turczyniak, S.; Teschner, D.; Machocki, A.; Zafeiratos, S., Effect of the surface state on the catalytic performance of a Co/CeO₂ ethanol steam-reforming catalyst. *Journal of Catalysis* **2016**, *340*, 321-330.
- 56.** Ba, H.; Liu, Y.; Lai, T.-P.; Cuong, D.-V.; Mu, X.; Won Hui, D.; Tung, T.-T.; Baaziz, W.; Lam, N.-D.; Jean-Mario, N.; Janowska, I.; Begin, D.; Zafeiratos, S.; Granger, P.; Tuci, G.; Giambastiani, G.; Banhart, F.; Ledoux, M. J.; Cuong, P.-H., A highly N-doped carbon phase "dressing" of macroscopic supports for catalytic applications. *Chemical Communications* **2015**, *51* (76), 14393-14396.
- 57.** Ba, H.; Podila, S.; Liu, Y.; Mu, X.; Nhut, J.-M.; Papaefthimiou, V.; Zafeiratos, S.; Granger, P.; Cuong, P.-H., Nanodiamond decorated few-layer graphene composite as an efficient metal-free dehydrogenation catalyst for styrene production. *Catalysis Today* **2015**, *249*, 167-175.
- 58.** Baaziz, W.; Florea, I.; Moldovan, S.; Papaefthimiou, V.; Zafeiratos, S.; Begin-Colin, S.; Begin, D.; Ersen, O.; Cuong, P.-H., Microscopy investigations of the microstructural change and thermal response of cobalt-

- based nanoparticles confined inside a carbon nanotube medium. *Journal of Materials Chemistry A* **2015**, *3* (21), 11203-11214.
59. Davesne, V.; Gruber, M.; Studniarek, M.; Doh, W. H.; Zafeiratos, S.; Joly, L.; Sirotti, F.; Silly, M. G.; Gaspar, A. B.; Real, J. A.; Schmerber, G.; Bowen, M.; Weber, W.; Boukari, S.; Da Costa, V.; Arabski, J.; Wulfhekel, W.; Beaurepaire, E., Hysteresis and change of transition temperature in thin films of Fe{ Me(2)Pyrz (3)BH}(2), a new sublimable spin-crossover molecule. *Journal of Chemical Physics* **2015**, *142* (19).
60. Law, Y. T.; Zafeiratos, S.; Neophytides, S. G.; Orfanidi, A.; Costa, D.; Dintzer, T.; Arrigo, R.; Knop-Gericke, A.; Schloegl, R.; Savinova, E. R., In situ investigation of dissociation and migration phenomena at the Pt/electrolyte interface of an electrochemical cell. *Chemical Science* **2015**, *6* (10), 5635-5642.
61. Papaefthimiou, V.; Diebold, M.; Ulhaq-Bouillet, C.; Doh, W. H.; Blume, R.; Zafeiratos, S.; Savinova, E. R., Potential-Induced Segregation Phenomena in Bimetallic PtAu Nanoparticles: An In Situ Near-Ambient-Pressure Photoelectron Spectroscopy Study. *Chemelectrochem* **2015**, *2* (10), 1519-1526.
62. Baaziz, W.; Lai, T.-P.; Cuong, D.-V.; Melinte, G.; Janowska, I.; Papaefthimiou, V.; Ersen, O.; Zafeiratos, S.; Begin, D.; Begin-Colin, S.; Pham-Huu, C., Few layer graphene decorated with homogeneous magnetic Fe₃O₄ nanoparticles with tunable covering densities. *Journal of Materials Chemistry A* **2014**, *2* (8), 2690-2700.
63. Doh, W. H.; Gregoratti, L.; Amati, M.; Zafeiratos, S.; Law, Y. T.; Neophytides, S. G.; Orfanidi, A.; Kiskinova, M.; Savinova, E. R., Scanning Photoelectron Microscopy Study of the Pt/Phosphoric-Acid-Imbibed Membrane Interface under Polarization. *Chemelectrochem* **2014**, *1* (1), 180-186.
- 64. Doh, W. H.; Papaefthimiou, V.; Dintzer, T.; Dupuis, V.; Zafeiratos, S., Synchrotron Radiation X-ray Photoelectron Spectroscopy as a Tool To Resolve the Dimensions of Spherical Core/Shell Nanoparticles.** *Journal of Physical Chemistry C* **2014**, *118* (46), 26621-26628.
65. Law, Y. T.; Doh, W. H.; Luo, W.; Zafeiratos, S., A comparative study of ethanol reactivity over Ni, Co and NiCo-ZnO model catalysts. *Journal of Molecular Catalysis a-Chemical* **2014**, *381*, 89-98.
66. Luo, W.; Doh, W. H.; Law, Y. T.; Aweke, F.; Ksiazek-Sobieszek, A.; Sobieszek, A.; Salamacha, L.; Skrzypiec, K.; Le Normand, F.; Machocki, A.; Zafeiratos, S., Single-Layer Graphene as an Effective Mediator of the Metal-Support Interaction. *Journal of Physical Chemistry Letters* **2014**, *5* (11), 1837-1844.
67. Papaefthimiou, V.; Tournus, F.; Hillion, A.; Khadra, G.; Teschner, D.; Knop-Gericke, A.; Dupuis, V.; Zafeiratos, S., Mixing Patterns and Redox Properties of Iron-Based Alloy Nanoparticles under Oxidation and Reduction Conditions. *Chemistry of Materials* **2014**, *26* (4), 1553-1560.
68. Schlur, L.; Begin-Colin, S.; Gilliot, P.; Gallart, M.; Carre, G.; Zafeiratos, S.; Keller, N.; Keller, V.; Andre, P.; Greneche, J.-M.; Hezard, B.; Desmonts, M.-H.; Pourroy, G., Effect of ball-milling and Fe-/Al-doping on the structural aspect and visible light photocatalytic activity of TiO₂ towards Escherichia coli bacteria abatement. *Materials Science & Engineering C-Materials for Biological Applications* **2014**, *38*, 11-19.
69. Baaziz, W.; Liu, X.; Florea, I.; Begin-Colin, S.; Pichon, B. P.; Ulhaq, C.; Ersen, O.; Soria-Sanchez, M.; Zafeiratos, S.; Janowska, I.; Begin, D.; Pham-Huu, C., Carbon nanotube channels selectively filled with monodispersed Fe_{3-x}O₄ nanoparticles. *Journal of Materials Chemistry A* **2013**, *1* (44), 13853-13861.
- 70. Barbosa, R. L.; Papaefthimiou, V.; Law, Y. T.; Teschner, D.; Haevecker, M.; Knop-Gericke, A.; Zapf, R.; Kolb, G.; Schloegl, R.; Zafeiratos, S., Methanol Steam Reforming over Indium-Promoted Pt/Al₂O₃ Catalyst: Nature of the Active Surface.** *Journal of Physical Chemistry C* **2013**, *117* (12), 6143-6150.
71. Lebedeva, M. V.; Pierron-Bohnes, V.; Goyhenex, C.; Papaefthimiou, V.; Zafeiratos, S.; Nazmutdinov, R. R.; Da Costa, V.; Acosta, M.; Zosiak, L.; Kozubski, R.; Muller, D.; Savinova, E. R., Effect of the chemical order on the electrocatalytic activity of model PtCo electrodes in the oxygen reduction reaction. *Electrochimica Acta* **2013**, *108*, 605-616.
72. Liu, Y.; Ba, H.; Dinh-Lam, N.; Ersen, O.; Romero, T.; Zafeiratos, S.; Begin, D.; Janowska, I.; Cuong, P.-H., Synthesis of porous carbon nanotubes foam composites with a high accessible surface area and tunable porosity. *Journal of Materials Chemistry A* **2013**, *1* (33), 9508-9516.
- 73. Papaaeftimiou, V.; Florea, I.; Baaziz, W.; Janowska, I.; Doh, W. H.; Begin, D.; Blume, R.; Knop-Gericke, A.; Ersen, O.; Pham-Huu, C.; Zafeiratos, S., Effect of the Specific Surface Sites on the Reducibility of alpha-Fe₂O₃/Graphene Composites by Hydrogen.** *Journal of Physical Chemistry C* **2013**, *117* (39), 20313-20319.

74. Papaefthimiou, V.; Shishkin, M.; Niakolas, D. K.; Athanasiou, M.; Law, Y. T.; Arrigo, R.; Teschner, D.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Ziegler, T.; Neophytides, S. G.; Zafeiratos, S., On the Active Surface State of Nickel-Ceria Solid Oxide Fuel Cell Anodes During Methane Electrooxidation. *Advanced Energy Materials* **2013**, *3* (6), 762-769.
75. Toulemon, D.; Pichon, B. P.; Leuvrey, C.; Zafeiratos, S.; Papaefthimiou, V.; Cattoen, X.; Begin-Colin, S., Fast Assembling of Magnetic Iron Oxide Nanoparticles by Microwave-Assisted Copper(I) Catalyzed Alkyne-Azide Cycloaddition (CuAAC). *Chemistry of Materials* **2013**, *25* (14), 2849-2854.
76. Zemlyanov, D.; Kloetzer, B.; Gabasch, H.; Smeltz, A.; Ribeiro, F. H.; Zafeiratos, S.; Teschner, D.; Schnoerch, P.; Vass, E.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R., Kinetics of Palladium Oxidation in the mbar Pressure Range: Ambient Pressure XPS Study. *Topics in Catalysis* **2013**, *56* (11), 885-895.
77. Baaziz, W.; Begin-Colin, S.; Pichon, B. P.; Florea, I.; Ersen, O.; Zafeiratos, S.; Barbosa, R.; Begin, D.; Pham-Huu, C., High-Density Monodispersed Cobalt Nanoparticles Filled into Multiwalled Carbon Nanotubes. *Chemistry of Materials* **2012**, *24* (9), 1549-1551.
78. Law, Y. T.; Skala, T.; Pis, I.; Nehasil, V.; Vondracek, M.; Zafeiratos, S., Bimetallic Nickel-Cobalt Nanosized Layers Supported on Polar ZnO Surfaces: Metal-Support Interaction and Alloy Effects Studied by Synchrotron Radiation X-ray Photoelectron Spectroscopy. *Journal of Physical Chemistry C* **2012**, *116* (18), 10048-10056.
79. Papaefthimiou, V.; Dintzer, T.; Lebedeva, M.; Teschner, D.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Pierron-Bohnes, V.; Savinova, E.; Zafeiratos, S., Probing Metal-Support Interaction in Reactive Environments: An in Situ Study of PtCo Bimetallic Nanoparticles Supported on TiO₂. *Journal of Physical Chemistry C* **2012**, *116* (27), 14342-14349.
80. Rocha, T. C. R.; Oestereich, A.; Demidov, D. V.; Haevecker, M.; Zafeiratos, S.; Weinberg, G.; Bukhtiyarov, V. I.; Knop-Gericke, A.; Schloegl, R., The silver-oxygen system in catalysis: new insights by near ambient pressure X-ray photoelectron spectroscopy. *Physical Chemistry Chemical Physics* **2012**, *14* (13), 4554-4564.
81. Zafeiratos, S.; Piccinin, S.; Teschner, D., Alloys in catalysis: phase separation and surface segregation phenomena in response to the reactive environment. *Catalysis Science & Technology* **2012**, *2* (9), 1787-1801.
82. Law, Y. T.; Dintzer, T.; Zafeiratos, S., Surface oxidation of NiCo alloy: A comparative X-ray photoelectron spectroscopy study in a wide pressure range. *Applied Surface Science* **2011**, *258* (4), 1480-1487.
83. Papaefthimiou, V.; Dintzer, T.; Dupuis, V.; Tamion, A.; Tournus, F.; Hillion, A.; Teschner, D.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Zafeiratos, S., Nontrivial Redox Behavior of Nanosized Cobalt: New Insights from Ambient Pressure X-ray Photoelectron and Absorption Spectroscopies. *Acs Nano* **2011**, *5* (3), 2182-2190.
84. Papaefthimiou, V.; Dintzer, T.; Dupuis, V.; Tamion, A.; Tournus, F.; Teschner, D.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Zafeiratos, S., When a Metastable Oxide Stabilizes at the Nanoscale: Wurtzite CoO Formation upon Dealloying of PtCo Nanoparticles. *Journal of Physical Chemistry Letters* **2011**, *2* (8), 900-904.
85. Tamion, A.; Hillenkamp, M.; Hillion, A.; Tournus, F.; Tuailon-Combes, J.; Boisron, O.; Zafeiratos, S.; Dupuis, V., Demixing in cobalt clusters embedded in a carbon matrix evidenced by magnetic measurements. *Journal of Applied Physics* **2011**, *110* (6).
86. Janowska, I.; Chizari, K.; Ersen, O.; Zafeiratos, S.; Soubane, D.; Da Costa, V.; Speisser, V.; Boeglin, C.; Houle, M.; Begin, D.; Plee, D.; Ledoux, M.-J.; Pham-Huu, C., Microwave synthesis of large few-layer graphene sheets in aqueous solution of ammonia. *Nano Research* **2010**, *3* (2), 126-137.
87. Piccinin, S.; Zafeiratos, S.; Stampfl, C.; Hansen, T. W.; Haevecker, M.; Teschner, D.; Bukhtiyarov, V. I.; Girgsdies, F.; Knop-Gericke, A.; Schloegl, R.; Scheffler, M., Alloy Catalyst in a Reactive Environment: The Example of Ag-Cu Particles for Ethylene Epoxidation. *Physical Review Letters* **2010**, *104* (3).
88. Zafeiratos, S.; Dintzer, T.; Teschner, D.; Blume, R.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R., Methanol oxidation over model cobalt catalysts: Influence of the cobalt oxidation state on the reactivity. *Journal of Catalysis* **2010**, *269* (2), 309-317.

89. Zafeiratos, S.; Paloukis, F.; Papakonstantinou, G.; Teschner, D.; Havecker, M.; Vass, E.; Schnorch, P.; Knop-Gericke, A.; Schlogl, R.; Moreno, B.; Chinarro, E.; Jurado, J. R.; Neophytides, S. G., A comparative in situ XPS study of PtRuCo catalyst in methanol steam reforming and water gas shift reactions. *Catalysis Today* **2010**, *157* (1-4), 250-256.
90. Hofmann, S.; Blume, R.; Wirth, C. T.; Cantoro, M.; Sharma, R.; Ducati, C.; Haevecker, M.; Zafeiratos, S.; Schnoerch, P.; Oestereich, A.; Teschner, D.; Albrecht, M.; Knop-Gericke, A.; Schloegl, R.; Robertson, J., State of Transition Metal Catalysts During Carbon Nanotube Growth. *Journal of Physical Chemistry C* **2009**, *113* (5), 1648-1656.
91. Knop-Gericke, A.; Kleimenov, E.; Haevecker, M.; Blume, R.; Teschner, D.; Zafeiratos, S.; Schloegl, R.; Bukhtiyarov, V. I.; Kachev, V. V.; Prosvirin, I. P.; Nizovskii, A. I.; Bluhm, H.; Barinov, A.; Dudin, P.; Kiskinova, M., X-Ray Photoelectron Spectroscopy for Investigation of Heterogeneous Catalytic Processes. *Advances in Catalysis*, Vol 52 **2009**, *52*, 213-272.
92. Paloukis, F.; Zafeiratos, S.; Drakopoulos, V.; Neophytides, S. G., Electronic structure modifications and HER of annealed electrodeposited Ni overlayers on Mo polycrystalline surface. *Electrochimica Acta* **2008**, *53* (27), 8015-8025.
93. Vass, E. M.; Haevecker, M.; Zafeiratos, S.; Teschner, D.; Knop-Gericke, A.; Schloegl, R., The role of carbon species in heterogeneous catalytic processes: an in situ soft x-ray photoelectron spectroscopy study. *Journal of Physics-Condensed Matter* **2008**, *20* (18).
94. Blume, R.; Haevecker, M.; Zafeiratos, S.; Teschner, D.; Knop-Gericke, A.; Schloegl, R.; Dudin, P.; Barinov, A.; Kiskinova, M., Oxidation of methanol on Ru catalyst: Effect of the reagents partial pressures on the catalyst oxidation state and selectivity. *Catalysis Today* **2007**, *124* (1-2), 71-79.
95. Blume, R.; Haevecker, M.; Zafeiratos, S.; Teschner, D.; Vass, E.; Schnoerch, P.; Knop-Gericke, A.; Schloegl, R.; Lizzit, S.; Dudin, P.; Barinov, A.; Kiskinova, M., Monitoring in situ catalytically active states of Ru catalysts for different methanol oxidation pathways. *Physical Chemistry Chemical Physics* **2007**, *9* (27), 3648-3657.
96. Gabasch, H.; Hayek, K.; Kloetzer, B.; Unterberger, W.; Kleimenov, E.; Teschner, D.; Zafeiratos, S.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Aszalos-Kiss, B.; Zemlyanov, D., Methane oxidation on Pd(111): In situ XPS identification of active phase. *Journal of Physical Chemistry C* **2007**, *111* (22), 7957-7962.
97. Teschner, D.; Wootsch, A.; Pozdnyakova-Tellinger, O.; Kroehnert, J.; Vass, E. M.; Haevecker, M.; Zafeiratos, S.; Schnoerch, P.; Jentoft, P. C.; Knop-Gericke, A.; Schloegl, R., Partial pressure dependent in situ spectroscopic study on the preferential CO oxidation in hydrogen (PROX) over Pt/ceria catalysts. *Journal of Catalysis* **2007**, *249* (2), 318-327.
98. Blume, R.; Havecker, M.; Zafeiratos, S.; Teschner, D.; Kleimenov, E.; Knop-Gericke, A.; Schlogl, R.; Barinov, A.; Dudin, P.; Kiskinova, M., Catalytically active states of Ru(0001) catalyst in CO oxidation reaction. *Journal of Catalysis* **2006**, *239* (2), 354-361.
99. Gabasch, H.; Kleimenov, E.; Teschner, D.; Zafeiratos, S.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Zemlyanov, D.; Aszalos-Kiss, B.; Hayek, K.; Kloetzer, B., Carbon incorporation during ethene oxidation on Pd(111) studied by in situ X-ray photoelectron spectroscopy at 2×10^{-3} mbar. *Journal of Catalysis* **2006**, *242* (2), 340-348.
100. Gabasch, H.; Unterberger, W.; Hayek, K.; Kloetzer, B.; Kleimenov, E.; Teschner, D.; Zafeiratos, S.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R.; Han, J.; Ribeiro, F. H.; Aszalos-Kiss, B.; Curtin, T.; Zemlyanov, D., In situ XPS study of Pd(111) oxidation at elevated pressure, Part 2: Palladium oxidation in the 10(-1) mbar range. *Surface Science* **2006**, *600* (15), 2980-2989.
101. Gassenbauer, Y.; Schafranek, R.; Klein, A.; Zafeiratos, S.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R., Surface potential changes of semiconducting oxides monitored by high-pressure photoelectron spectroscopy: Importance of electron concentration at the surface. *Solid State Ionics* **2006**, *177* (35-36), 3123-3127.
102. Gassenbauer, Y.; Schafranek, R.; Klein, A.; Zafeiratos, S.; Haevecker, M.; Knop-Gericke, A.; Schloegl, R., Surface states, surface potentials, and segregation at surfaces of tin-doped In₂O₃. *Physical Review B* **2006**, *73* (24).
103. Teschner, D.; Vass, E.; Havecker, M.; Zafeiratos, S.; Schnoerch, P.; Sauer, H.; Knop-Gericke, A.; Schloegl, R.; Chamam, M.; Wootsch, A.; Canning, A. S.; Gamman, J. J.; Jackson, S. D.; McGregor, J.; Gladden, L. F., Alkyne hydrogenation over Pd catalysts: A new paradigm. *Journal of Catalysis* **2006**, *242* (1), 26-37.

104. Zemlyanov, D.; Aszalos-Kiss, B.; Kleimenov, E.; Teschner, D.; Zafeiratos, S.; Havecker, M.; Knop-Gericke, A.; Schlogl, R.; Gabasch, H.; Unterberger, W.; Hayek, K.; Koltzer, B., In situ XPS study of Pd(111) oxidation. Part 1: 2D oxide formation in 10(-3) mbar O₂). *Surface Science* **2006**, *600* (5), 983-994.
105. Neophytides, S. G.; Murase, K.; Zafeiratos, S.; Papakonstantinou, G.; Paloukis, F. E.; Krstajic, N. V.; Jaksic, M. M., Composite hypo-hyper-d-intermetallic and interionic phases as supported interactive electrocatalysts. *Journal of Physical Chemistry B* **2006**, *110* (7), 3030-3042.
106. Jaksic, J. M.; Vracar, L.; Neophytides, S. G.; Zafeiratos, S.; Papakonstantinou, G.; Krstajic, N. V.; Jaksic, M. M., Structural effects on kinetic properties for hydrogen electrode reactions and CO tolerance along Mo-Pt phase diagram. *Surface Science* **2005**, *598* (1-3), 156-173.
107. Neophytides, S. G.; Zafeiratos, S.; Papakonstantinou, G. D.; Jaksic, J. M.; Paloukis, F. E.; Jaksic, M. M., Extended Brewer hypo-hyper-d-interionic bonding theory - I. Theoretical considerations and examples for its experimental confirmation. *International Journal of Hydrogen Energy* **2005**, *30* (2), 131-147.
108. Neophytides, S. G.; Zafeiratos, S.; Papakonstantinou, G. D.; Jaksic, J. M.; Paloukis, F. E.; Jaksic, M. M., Extended Brewer hypo-hyper-d-interionic bonding theory II. Strong metal-support interaction grafting of composite electrocatalysts. *International Journal of Hydrogen Energy* **2005**, *30* (4), 393-410.
109. Zafeiratos, S.; Papakonstantinou, G.; Jaksic, M. M.; Neophytides, S. G., The effect of Mo oxides and TiO₂ support on the chemisorption features of linearly adsorbed CO on Pt crystallites: an infrared and photoelectron spectroscopy study. *Journal of Catalysis* **2005**, *232* (1), 127-136.
110. Palloukis, F.; Zafeiratos, S.; Jaksic, M. M.; Neophytides, S. G., The chemical state of electrodeposited thin Cr films on a polycrystalline Ni foil. *Journal of New Materials for Electrochemical Systems* **2004**, *7* (3), 173-177.
111. Zafeiratos, S.; Paloukis, F. E.; Jaksic, M. M.; Neophytides, S. G., Thermal stability of electrodeposited nickel on vanadium: evidence for oxygen diffusion and intermetallic phase formation. *Surface Science* **2004**, *552* (1-3), 215-228.
112. Zafeiratos, S.; Paloukis, F. E.; Neophytides, S. G., Nickel electrodeposition on a gold polycrystalline foil: A combined voltammetric and photoelectron spectroscopy study. *Journal of Physical Chemistry B* **2004**, *108* (4), 1371-1379.
113. Neophytides, S. G.; Zafeiratos, S. H.; Jaksic, M. M., Selective interactive grafting of composite bifunctional electrocatalysts for simultaneous anodic hydrogen and CO oxidation - I. Concepts and embodiment of novel-type composite catalysts. *Journal of the Electrochemical Society* **2003**, *150* (10), E512-E526.
114. Zafeiratos, S.; Kennou, S., The interaction of ultrathin nickel films with yttria-stabilized, zirconia (100). *Surface Science* **2003**, *532*, 402-408.
115. Kennou, S.; Zafeiratos, S., Photoemission studies of bimetallic ultrathin films: Au-Ni on YTTRIA-stabilised ZrO₂(100). *2002; Vol. 65*, p 551-560.
116. Sygellou, L.; Zafeiratos, S.; Tsud, N.; Matolin, V.; Kennou, S.; Ladas, S., Interaction of ultrathin nickel oxide films with single-crystal zirconia and alumina surfaces. *Surface and Interface Analysis* **2002**, *34* (1), 545-549.
117. Zafeiratos, S.; Kennou, S., Gold/nickel ultrathin bimetallic overlayers on yttria-stabilized ZrO₂ (100). *Journal of Physical Chemistry B* **2002**, *106* (1), 41-48.
118. Zafeiratos, S.; Kennou, S., Photoelectron spectroscopy study of surface alloying in the Au/Ni (s) 5(001) x (111) system. *Applied Surface Science* **2001**, *173* (1-2), 69-75.
119. Zafeiratos, S.; Kennou, S., The interaction of oxygen with ultrathin Ni deposits on yttria-stabilized ZrO₂(100). *Surface Science* **2001**, *482*, 266-271.
120. Zafeiratos, S.; Neophytides, S.; Kennou, S., A photoelectron spectroscopy study of Au thin films on ZrO₂ (100). *Thin Solid Films* **2001**, *386* (1), 53-58.
121. Nehasil, V.; Hrcic, T.; Zafeiratos, S.; Ladas, S.; Matolin, V., Study of CO adsorption on Rh/alumina model catalysts in dependence on substrate orientation. *Surface Science* **2000**, *454*, 289-294.
122. Tripanagnostopoulos, Y.; Yianoulis, P.; Papaefthimiou, S.; Zafeiratos, S., CPC solar collectors with flat bifacial absorbers. *Solar Energy* **2000**, *69* (3), 191-203.
123. Neophytides, S. G.; Zafeiratos, S.; Kennou, S., XPS characterization of the electrochemically generated O species on a Au electrode evaporated on Y₂O₃-stabilized ZrO₂ (100). *Solid State Ionics* **2000**, *136*, 801-806.
124. Nehasil, V.; Zafeiratos, S.; Ladas, S.; Matolin, V., The interaction of carbon monoxide with Rh/Al₂O₃ model catalysts: influence of the support structure. *Surface Science* **1999**, *433*, 215-220.
125. Zafeiratos, S.; Kennou, S., A study of gold ultrathin film growth on yttria-stabilized ZrO₂(100). *Surface Science* **1999**, *443* (3), 238-244.
126. Zafeiratos, S.; Nehasil, V.; Ladas, S., X-ray photoelectron spectroscopy study of rhodium particle growth on different alumina surfaces. *Surface Science* **1999**, *433*, 612-616.
127. Nehasil, V.; Zafeiratos, S.; Matolin, V.; Ladas, S., XPS study of Pd particle growth on different alumina surfaces. *Vacuum* **1998**, *50* (1-2), 143-145.

Book Editor:

2D Nanomaterials for Energy Applications: Graphene and Beyond, (1st Edition)

No. of pages: 352

Language: English

Copyright: © Elsevier 2020

Published: 22nd November 2019

Imprint: Elsevier

Paperback ISBN: 9780128167236

eBook ISBN: 9780128168899

Book Charters:

1. W. Luo, S. Zafeiratos, Graphene at the Metal–Oxide Interface: A New Approach to Modify the Chemistry of Supported Metals. In *Handbook of Graphene, Volume 2*, T. Stauber Ed. Wiley, Apr. 2019, ISBN: 978-1-119-46959-9
2. W. Luo, S. Zafeiratos, XPS characterization of metal free functionalized carbons. In *Metal-free Functionalized Carbons in Catalysis: Synthesis, Characterization and Applications*, A. Villa, N. Dimitratos Ed. Royal Society of Chemistry, Cambridge 2018 ; chapter 5, pp 138-175, May 2018, ISBN 978-1-78262-863-7
3. Doh, W. H.; Papaefthimiou, V.; Zafeiratos, S., Applications of Synchrotron-Based X-Ray Photoelectron Spectroscopy in the Characterization of Nanomaterials. In *Surface Science Tools for Nanomaterials Characterization*, Kumar, C. S. S. R., Ed. Springer Berlin Heidelberg: 2015; pp 317-366.
4. Blume, R.; Havecker, M.; Zafeiratos, S.; Techner, D.; Knop-Gericke, A.; Schlogl, R.; Gregoratti, L.; Barinov, A.; Kiskinova, M., Chapter 10 Ruthenium Active Catalytic States: Oxidation States and Methanol Oxidation Reactions. In *Nanostructured Catalysts: Selective Oxidations*, The Royal Society of Chemistry: 2011; pp 248-265.

Publications in Proceedings and non-peer reviewed journals:

1. "La naissance de la chimie des surfaces, F. Garin, P. Légaré, S. Zafeiratos, LA RECHERCHE, Janvier 2008, № 415 pp. 58
2. "Novel Trends in Electrocatalysis Extended Brewer Hypo-Hyper-d-Interionic Bonding Theory and Selective Interactive Grafting of Composite Bifunctional Electrocatalysts for Simultaneous Anodic Hydrogen and CO Oxidation" S.G. Neophytides, S.H. Zafeiratos and M.M. Jaksic, Chemical Industry 57 (9) 368-392 (2003).
3. "Selective gas-phase hydrogenation of C-5 hydrocarbons using palladium and nickel based catalysts", D. Teschner, A. Knop-Gericke, E. Vass, S. Zafeiratos, A. Pestryakov, E. Kleimenov, M. Hävecker, H. Bluhm, R. Schlögl, BESSY Annual Rep., 273 (2004) ed. K. Godehusen
4. "Combined in situ XPS and in situ soft XAS study of Cu/ZnO catalysts for methanol steam reforming", M. Hävecker, B.L. Kniep, E. Kleimenov, P. Schnoch, D. Teschner, S. Zafeiratos, H. Bluhm, A. Knop-Gericke, T. Ressler, R. R. Schlögl, BESSY Annual Rep., 281 (2004) ed. K. Godehusen
5. "Oxygen dissolution: in situ XPS investigation of Pd(111) oxidation", B. A. Kiss, D. Zemlyanov, H. Gabasch, W. Unterberger, B. Klötzer, E. Kleimenov, D. Teschner, S. Zafeiratos, M. Hävecker, A. Knop-Gericke and R. Schlögl BESSY Annual Rep., 287 (2004) ed. K. Godehusen
6. "A comparative in situ XPS study of PtRuCo catalyst for CH₃OH and CO oxidation using water". S. Zafeiratos, G. Papakonstantinou, F. Paloukis, A. Knop-Gericke, S.G. Neophytides, R. Schlögl,. BESSY Annual Report 283, 2006 March 2006. K. Godehusen