

Liste des publications
Équipe de Chimie Organique pour les Matériaux, la Biologie et l'Optique
Période 2013-2018

Publications de 2018

Dyes and Pigments **2019**, 163, 475–482. Jacquemin, Denis; Khelladi, Mustapha; De Nicola, Antoinette; Ulrich, Gilles *Turning ESIPT-Based triazine fluorophores into dual emitters: From theory to experiment*

European Journal of Organic Chemistry (2018), Ahead of Print. , *Ethynyl-Tolyl Extended 2-(2'-Hydroxyphenyl)benzoxazole Dyes: Solution and Solid-state Excited-State Intramolecular Proton Transfer (ESIPT) Emitters* Munch, Maxime; Curtil, Mathieu; Verite, Pauline M.; Jacquemin, Denis; Massue, Julien; Ulrich, Gilles.

Journal of Organic Chemistry **2018**, 83, 14406-14418, *Synthesis of Indolo[3,2-b]carbazole-Based Boron Complexes with Tunable Photophysical and Electrochemical Properties* Mula, S.; Leclerc, N.; Leveque, P.; Retailleau, P.; Ulrich, G.

Chemistry Letters **2018**, 47, 1083-1089. Massue, J.; Jacquemin, D.; Ulrich, G. *Molecular engineering of excited-state intramolecular proton transfer (ESIPT) dual and triple emitters.*

Dyes and Pigments **2019**, 160, 915–922. Massue, J.; Felouat, A.; Curtil, M.; Vérité, P. M.; Jacquemin, D.; Ulrich, G. *Solution and Solid-State Excited-State Intramolecular Proton Transfer (ESIPT) Emitters Incorporating Bis-Triethyl-or Triphenylsilylethynyl Units*

J. Mater. Chem. C **2018**, 6 (37), 9925–9931. Huaulmé, Q.; Sutter, A.; Fall, S.; Jacquemin, D.; Lévêque, P.; Retailleau, P.; Ulrich, G.; Leclerc, N. *Versatile Synthesis of α -Fused BODIPY Displaying Intense Absorption in the NIR Region and High Electron Affinity*

ChemistrySelect **2018**, 3, 7674– 7679. Courrier, E.; Maret, C.; Charaoui-Boukerzaza, S.; Lambert, V.; De Nicola, A.; Muzuzu, W.; Ulrich, G. Raberin, H.; Flori, P.; Moine, B.; He, Z., Gain, P., Thuret G. *Synthesis of Fluorescent BODIPY-Labeled Analogue of Miltefosine for Staining of Acanthamoeba*

Physical Chemistry Chemical Physics **2018**, 10.1039/C8CP03814G. Massue, J.; Felouat, A.; Verite, P. M.; Jacquemin, D.; Cypriych, K.; Durko, M.; Sznitko, L.; Mysliwiec, J.; Ulrich, G. *Extended Excited-State Intramolecular Proton Transfer (ESIPT) Emitter for Random Lasing Application*

Chemistry - A European Journal **2018**, 24, 11119-11130. Sutter, A.; Elhabiri, M.; Ulrich, G. *Fluorescent pH-Responsive Probes Based on Water-Soluble Boron-Dipyrromethene (BODIPY) Derivatives, Featuring Long-Wavelength Emission*

Tetrahedron Letters **2018**, 59, 878-881. Khelladi, M.; Leclerc, N.; Jacquemin, D.; De Nicola, A.; Ulrich, G.. *Synthesis and spectral properties of non-symmetrical red and near IR emitter dibenzoBODIPYs*

Publications de 2017

D. Frath, P. Didier, Y. Mély, J. Massue, G. Ulrich, *ChemPhotoChem* **2017**, *1*, 109-112.
(cover) Vectorization and Intracellular Distribution of a Two-Photon-Absorbing,
Near-Infrared-Emitting π -Extended Boranil Dye

Chemistry - A European Journal **2017**, *23*, 7324-7336. Heyer, E.; Benelhadj, K.; Budzak, S.;
Jacquemin, D.; Massue, J.; Ulrich, G. *On the Fine-Tuning of the Excited-State
Intramolecular Proton Transfer (ESIPT) Process in 2-(2'-
Hydroxybenzofuran)benzazole (HBBX) Dyes*

Dyes and Pigments, **2017**, *143*, 18–24 E. Heyer, J. Massue and G. Ulrich,. *Modulation of the
Excited-State Intramolecular Proton Transfer (ESIPT) process in 2-(2'-
Hydroxybenzofuran)benzoxazole (HBBO) dimers*

Carbohydrate Polymers **2017**, *157*, 1922–1932 Oyervides-Munoz, Ernesto; Pollet, Eric;
Ulrich, Gilles; de Jesus Sosa-Santillan, Gerardo; Averous, Luc *Original method for
synthesis of chitosan-based antimicrobial agent by quaternary ammonium grafting*

Publications de 2016

Journal of Organic Chemistry **2016**, *81*, 9658-9668 Frath, D.; Benelhadj, K.; Munch, M.;
Massue, J.; Ulrich, G.. *Polyanils and Polyboranils: Synthesis, Optical Properties,
and Aggregation-Induced Emission*

Tetrahedron, **2016**, *72*, 2593-2599 Benelhadj, K.; Munch, M.; Massue, J.; Ulrich, G.
*Synthesis and optical properties of π -conjugated push-pull dyes incorporating a
functionalized benzo[1,2-b:3,4-b']difuran spacer*

Chemical Communications **2016**, *52*, 9216-9219. Raoui, M.; Massue, J.; Azarias, C.;
Jacquemin, D.; Ulrich, G. *Highly fluorescent extended 2-(2'-
hydroxyphenyl)benzazole dyes: synthesis, optical properties and first-principle
calculations*

New Journal of Chemistry **2016**, *40*, 5877-5884 Benelhadj, K.; Massue, J.; Ulrich, G. *2,4 and
2,5-bis(benzoxazol-2'-yl)hydroquinone (DHBO) and their borate complexes:
synthesis and optical properties*

Tetrahedron Letters **2016**, *57*, 1976-1980. Benelhadj, K.; Retailleau, P.; Massue, J.; Ulrich,
G. *5-Quinolinecarboxaldehyde as a precursor of luminescent boron complexes:
synthesis and optical studies*

Chemical Science **2016**, *7*, 3763-3774 Azarias, C.; Budzak, S.; Laurent, A. D.; Ulrich, G.;
Jacquemin, D. *Tuning ESIPT fluorophores into dual emitters*

Publications de 2015

Dalton Transactions, **2015**, 44, 17516 - 17528.. Gomez-Iglesias, P.; Guyon, F.; Khatyr, A.; Ulrich, G.; Knorr, M.; Martin-Alvarez, J. M.; Miguel, D.; Villafane, F. *Luminescent rhenium(I) tricarbonyl complexes with pyrazolylamidino ligands: photophysical, electrochemical, and computational studies*

Chem. Eur. J. **2015**, 21, 14589 – 14601 B. Roubinet, C. Massif, M. Moreau, F. Boschetti, G. Ulrich, R. Ziessel, P.-Y. Renard, A. Romieu. *New 3-(Heteroaryl)-2-iminocoumarin-based Borate Complexes: Synthesis, Photophysical Properties, and Rational Functionalization for Biosensing/Biolabeling Applications.*

Chemistry of Materials **2015**, 27, 2332-2342. Mula, S.; Frein, S.; Russo, V.; Ulrich, G.; Ziessel, R.; Barbera, J.; Deschenaux, R. *Red and Blue Liquid-Crystalline Borondipyrrromethene Dendrimers*

European Journal of Organic Chemistry **2015**, 1664-1669 Jacquemet, Alicia; Rihn, Sandra; Ulrich, Gilles; Renard, Pierre-Yves; Romieu, Anthony; Ziessel, Raymond *Rational Design of Latent Fluorophores from Water-Soluble Hydroxyphenyltriazine Dyes Suitable for Lipase Sensing.*

Publications de 2014

J. Phys. Chem. A **2014**, 20, 12843-12857 S. Azizi, G. Ulrich, M. Guglielmino, S. le Calvé, J. P. Hagon, A. Harriman, R. Ziessel. *Photoinduced Proton Transfer Promoted by Peripheral Subunits for Some Hantzsch Esters.*

Chemistry - A European Journal **2015**, 21, 1312-1327 J. Dobkowski, P. Wnuk, J. Buczynska, M. Pszona, G. Orzanowska, D. Frath, G. Ulrich, J. Massue, S. Mosquera-Vazquez, E. Vauthey, C. Radzewicz, R. Ziessel, J. Waluk *Substituent and Solvent Effects on the Excited State Deactivation Channels in Anils and Boranils*

European Journal of Organic Chemistry **2014**, 7156-7164 Benelhadj, K.; Massue, J.; Retailleau, P.; Chibani, S.; Le Guennic, B.; Jacquemin, D.; Ziessel, R.; Ulrich, G. *Solution- and Solid-State Luminescent Borate Complexes Based on a Substituted π -Conjugated 2-(6'-Hydroxy-5'-benzofuryl) Scaffold*

Chemistry - A European Journal **2014**, 20, 12843-12857 Benelhadj, K.; Muzuzu, W.; Massue, J.; Retailleau, P.; Charaf-Eddin, A.; Laurent, A. D.; Jacquemin, D.; Ulrich, G.; Ziessel, R. *White Emitters by Tuning the Excited-State Intramolecular Proton-Transfer Fluorescence Emission in 2-(2'-Hydroxybenzofuran)benzoxazole Dyes*

Tetrahedron Letters **2014**, 55, 4136-4140 Massue, J.; Benelhadj, K.; Chibani, S.; Le Guennic, B.; Jacquemin, D.; Retailleau, P.; Ulrich, G.; Ziessel, R.. *Fluorescent 2-(2'-hydroxybenzofuran)benzoxazole (HBBO) borate complexes: synthesis,*

95. *ChemPhysChem* **2014**, 15, 2693-2700. Ulrich, G.; Barsella, A.; Boeglin, A.; Niu, S.; Ziessel, R.. *BODIPY-Bridged Push-Pull Chromophores for Nonlinear Optical Applications*

Angewandte Chemie, International Edition **2014**, *53*, 2290-2310 **Frath, D.; Massue, J.; Ulrich, G.; Ziessel, R.** Luminescent Materials: Locking π -Conjugated and Heterocyclic Ligands with Boron(III)

Highly cited paper

Physical Chemistry Chemical Physics **2014**, *16*, 1319-1321 **Houari, Y.; Charaf-Eddin, A.; Laurent, A. D.; Massue, J.; Ziessel, R.; Ulrich, G.; Jacquemin, D.** Modeling optical signatures and excited-state reactivities of substituted hydroxyphenylbenzoxazole (HBO) ESIPT dyes

Publications de 2013

ChemPhysChem **2013**, *14*, 3348-3354. **Frath, D.; Yarnell, J. E.; Ulrich, G.; Castellano, F. N.; Ziessel, R.** Ultrafast Photoinduced Electron Transfer in Viologen-Linked BODIPY Dyes

Eur. J. Org. Chem. **2013**, 5701-5709. **Massue, J.; Ulrich, G.; Ziessel, R.** Effect of 3,5-disubstitution on the optical properties of luminescent 2-(2'-hydroxyphenyl)benzoxazoles and their borate complexes.

J. Am. Chem. Soc. **2013**, *135*, 11330-11344. **Ziessel, R.; Ulrich, G.; Haefele, A.; Harriman, A.** An artificial light-harvesting array constructed from multiple Bodipy dyes.

Chem. Commun. **2013**, *49*, 4908-4910 **Frath, D.; Poirel, A.; Ulrich, G.; De Nicola, A.; Ziessel, R.** Fluorescent boron (III) iminocoumarins (BORICOS)

Organic Letters. **2013**, *15*, 2918-2921 **Benhelhadj, K.; Massue, J.; Retailleau, P.; Ulrich, G.; Ziessel, R.** 2-(2'-Hydroxyphenyl)benzimidazole and 9,10-phenanthroimidazole chelates and borate complexes : solution and solid-state emitters. *Corr. Ibid* **2014**, *16*, 2298.

Phys. Chem. Chem. Phys. **2013**, *15*, 7534-7540 **Le Guennic, B.; Chibani, S.; Charaf-Eddin, A.; Massue, J.; Ziessel, R.; Ulrich, G.; Jacquemin, D.** The NBO pattern in luminescent chromophores : unravelling excited-state features using TD-DFT

Dyes & Pigments. **2013**, *96*, 296-303 **Dubuisson, E.; Badré, S.; Gautier Luneau, I.; Ulrich, G.; Lemaistre, J. P.; Pansu, R.; Ibanez, A.** Elaboration, structure and fluorescence spectroscopy of iodophenyl-BODIPY crystals.

New J. Chem. **2013**, *37*, 1224-1230 **Massue, J.; Retailleau, P.; Ulrich, G.; Ziessel, R.** Synthesis of luminescent BPh₂-coordinated 2-(2'-hydroxyphenyl)benzoxazole (HBO)

New J. Chem. **2013**, *37*, 1016-1027 **Romieu, A.; Massif, C.; Rihn, S.; Ulrich, G.; Ziessel, R.; Renard, P.-Y.** The first comparative study of the ability of different hydrophilic groups to water-solubilise fluorescent BODIPY dyes.

Chem. Eur. J. **2013**, *19*, 5375-5386 **Massue, J.; Frath, D.; Retailleau, P.; Ulrich, G.; Ziesel, R.** Synthesis of luminescent ethynyl-extended regioisomers of borate complexes based on 2-(2'-Hydroxyphenyl)benzoxazole.