

(40) *Immobilization of Mn(I) and Ru(II) polypyridyl complexes on TiO<sub>2</sub> nanoparticles for selective photoreduction of CO<sub>2</sub> to formic acid.*

Le-Quang, L.; Stanbury, M.; Mouesca, J.-M.; Chardon-Noblat, S.; Maurel, V.; Chauvin, J.\*; *Chemical Communications*, **2019**, 90, 13598–13601. DOI : [10.1039/c9cc05129e](https://doi.org/10.1039/c9cc05129e)

(39) *[Cr(tpy)<sub>2</sub>]<sup>3+</sup> as a multi-electron reservoir for photoinduced charge accumulation.*

Farran, R.; Le-Quang, L.; Mouesca, J.-M.; Maurel, V.; Jouvenot, D.; Loiseau, F.; Deronzier, A.; Chauvin, J.\*; *Dalton Transactions*, **2019**, 20, 23294–23300. DOI : [10.1039/c9dt00848a](https://doi.org/10.1039/c9dt00848a)

(38) *Highly Efficient Tuning of Ferromagnetic Spin Interactions in High-Spin Arylamine Structures by Incorporation of Spin Bearing Carbazole Units.*

Skorka, L.; Maurel, V.; Gosk, J. B.; Puzniak, R.; Mouesca, J.-M.\*; Kulszewicz-Bajer, I.\*; *Journal of Physical Chemistry B*, **2018**, 122 (41), 9584–9591. DOI : [10.1021/acs.jpcc.8b07496](https://doi.org/10.1021/acs.jpcc.8b07496)

(37) *Time-gated triplet-state optical spectroscopy to decipher organic luminophores embedded in rigid matrices.*

Sontakke, A. D.\*; Mouesca, J.-M.; Castaing, V.; Ferrier, A.; Salaun, M.; Gautier-Luneau, I.; Maurel, V.; Ibanez, A.; Viana, B.\*; *Physical Chemistry Chemical Physics*, **2018**, 20, 23294–23300. DOI : [10.1039/c8cp03952f](https://doi.org/10.1039/c8cp03952f)

(36) *Unveiling the Redox-Active Character of Imidazolin-2-Thiones Derived from Amino-Substituted N-Heterocyclic Carbenes.*

Ruamps, M.; Bastin, S.; Rechinat, L.; Sournia-Saquet, A.; Valyaev, D. A.; Mouesca, J.-M.; Lugan, N.; Maurel, V.\*; César, V.\*; *Chemical Communications*, **2018**, 54 (55), 7653–7656. DOI : [10.1039/c8cc03934h](https://doi.org/10.1039/c8cc03934h)

(35) *Crystallographic Insights into the Synthesis and Magnetic Properties of Oxoverdazyl Radicals Functionalized by Benzoic Acid.*

Kumar, V.; Shova, S.; Maurel, V.; Novitchi, G.; Train, C.\*; *European Journal of Inorganic Chemistry*, **2018**, No. 3–4, 517–524. DOI : [10.1002/ejic.201700950](https://doi.org/10.1002/ejic.201700950)

(34) *Afterglow Luminescence in Wet-Chemically Synthesized Inorganic Materials: Ultra-Long Room Temperature Phosphorescence Instead of Persistent Luminescence.*

Sontakke, A. D.\*; Ferrier, A.; Burner, P.; Guimaraes, V. F.; Salaun, M.; Maurel, V.; Gautier-Luneau, I.; Ibanez, A.; Viana, B.\*; *Journal of Physical Chemistry Letters* **2017**, 8, 4735–4739. DOI : [10.1021/acs.jpcllett.7b01702](https://doi.org/10.1021/acs.jpcllett.7b01702)

(33) *Towards Enhancing Spin States in Doped Arylamine Compounds through Extended Planarity of the Spin Coupling Moieties.*

Skorka, L.; Mouesca, J.-M.; Gosk, J. B.; Puzniak, R.; Pecaut, J.; Maurel, V.\*; Kulszewicz-Bajer, I.\*; *Journal of Materials Chemistry C*, **2017**, 5 (26), 6563–6569. DOI : [10.1039/c7tc01932g](https://doi.org/10.1039/c7tc01932g)

(32) *Large Enhancement of the Spin Hall Effect in Au by Side-Jump Scattering on Ta Impurities.*

Laczkowski, P.; Fu, Y.; Yang, H.; Rojas-Sanchez, J.-C.; Noel, P.; Pham, V. T.; Zahnd, G.; Deranlot, C.; Collin, S.; Bouard, C.; Warin, P.; Maurel, V.; Chshiev, M.; Marty, A.; Attané, J.-P.; Fert, A.; Jaffrès, H.; Vila, L.\*; George, J.-M.\*; *Physical Review B*, **2017**, 96 (14), 140405. DOI : [10.1103/PhysRevB.96.140405](https://doi.org/10.1103/PhysRevB.96.140405)

(31) *Evidence of Organic Luminescent Centers in Sol–Gel-Synthesized Yttrium Aluminum Borate Matrix Leading to Bright Visible Emission.*

Burner, P.; Sontakke, A. D.; Salaün, M.; Bardet, M.; Mouesca, J.-M.; Gambarelli, S.; Barra, A.-L.; Ferrier, A.; Viana, B.; Ibanez, A.; Maurel, V.\*; Gautier-Luneau, I.\*; *Angewandte Chemie International Edition*, **2017**, 56 (45), 13995–13998. DOI : [10.1002/anie.201706070](https://doi.org/10.1002/anie.201706070)

(30) *Laser Synthesized TiO<sub>2</sub>-Based Nanoparticles and Their Efficiency in the Photocatalytic Degradation of Linear Carboxylic Acids.*

Bouhadoun, S.; Guillard, C.; Sorgues, S.; Herissan, A.; Colbeau-Justin, C.; Dapozze, F.; Habert, A.; Maurel, V.; Herlin-Boime, N.\*; *Science and Technology of Advanced Materials*, **2017**, 18 (1), 805–815. DOI : [10.1080/14686996.2017.1379858](https://doi.org/10.1080/14686996.2017.1379858)

(29) *High-Spin Polymers: Ferromagnetic Coupling of  $S = 1$  Hexaazacyclophane Units up to a Pure  $S = 2$  Polycyclophane.*

Skorka, L.; Kurzep, P.; Chauviré, T.; Dubois, L.; Mouesca, J. M.; Maurel, V.\*; Kulszewicz-Bajer, I.\*; *Journal of Physical Chemistry B*, **2017**, 121, 4293-4298. DOI : [10.1021/acs.jpcc.7b01531](https://doi.org/10.1021/acs.jpcc.7b01531)

(28) *Redox Photocatalysis with Water-Soluble Core Shell CdSe-ZnS Quantum Dots.*

Chauviré, T.; Mouesca, J. M.; Gasparutto, D.; Ravanat, J. L.; Lebrun, C.; Gromova, M.; Jouneau, P. H.; Chauvin, J.; Gambarelli, S.; Maurel, V.\*; *Journal of Physical Chemistry C*, **2015**, 119, 17857-17866. DOI : [10.1021/acs.jpcc.5b04396](https://doi.org/10.1021/acs.jpcc.5b04396)

(27) *Formation of High-Spin States ( $S = 3/2$  and 2) in Linear Oligo- and Polyarylamines.*

Skorka, L.; Mouesca, J. M.; Dubois, L.; Szewczyk, E.; Wielgus, I.; Maurel, V.\*; Kulszewicz-Bajer, I.\*; *Journal of Physical Chemistry B* **2015**, 119, 13462–13471. DOI : [10.1021/acs.jpcc.5b08390](https://doi.org/10.1021/acs.jpcc.5b08390)

(26) *Synthesis and physico-chemical properties of the first water soluble Cu(II)@hemicryptophane complex.*

Schmitt, A.; Collin, S.; Bucher, C.; Maurel, V.; Dutasta, J.-P.\*; Martinez, A.\*; *Organic & Biomolecular Chemistry* **2015**, 13, 2157-2161. DOI : [10.1039/c4ob02085e](https://doi.org/10.1039/c4ob02085e)

(25) *Matrix-Free DNP-Enhanced NMR Spectroscopy of Liposomes Using a Lipid-Anchored Biradical.*

Fernandez-de-Alba, C.; Takahashi, H.; Richard, A.; Chenavier, Y.; Dubois, L.; Maurel, V.; Lee, D.; Hediger, S.; De Paepe, G.\*: *Chemistry-a European Journal* **2015**, *21*, 4512. DOI: [10.1002/chem.201404588](https://doi.org/10.1002/chem.201404588)

(24) *Optimization of an absolute sensitivity in a glassy matrix during DNP-enhanced multidimensional solid-state NMR experiments.*

Takahashi, H.; Fernandez-de-Alba, C.; Lee, D.; Maurel, V.; Gambarelli, S.; Bardet, M.; Hediger, S.; Barra, A. L.; De Paepe, G.\*: *Journal of Magnetic Resonance* **2014**, *239*, 91-9. DOI: [10.1016/j.jmr.2013.12.005](https://doi.org/10.1016/j.jmr.2013.12.005)

(23) *Ferromagnetic Spin Coupling through the 3,4'-Biphenyl Moiety in Arylamine Oligomers-Experimental and Computational Study.*

Maurel, V.\*; Skorka, L.; Onofrio, N.; Szewczyk, E.; Djurado, D.; Dubois, L.; Mouesca, J. M.; Kulszewicz-Bajer, I.\*: *Journal of Physical Chemistry B* **2014**, *118*, 7657-7667. DOI: [10.1021/jp504223v](https://doi.org/10.1021/jp504223v)

(22) *Monothioanthraquinone as an organic active material for greener lithium batteries.*

Iordache, A.; Maurel, V.; Mouesca, J. M.; Pecaut, J.; Dubois, L.\*; Gutel, T.\*: *Journal of Power Sources*, **2014**, *267*, 553-559. DOI: [10.1016/j.jpowsour.2014.05.050](https://doi.org/10.1016/j.jpowsour.2014.05.050)

(21) *Polymers for electronics and spintronics.*

Bujak, P.\*; Kulszewicz-Bajer, I.; Zagorska, M.; Maurel, V.; Wielgus, I.; Pron, A.\*: *Chemical Society Reviews*, **2013**, *42*, 8895-8999. DOI: [10.1039/c3cs60257e](https://doi.org/10.1039/c3cs60257e)

(20) *4-Demethylwyosine Synthase from *Pyrococcus abyssi* Is a Radical-S-adenosyl-L-methionine Enzyme with an Additional [4Fe-4S](+2) Cluster That Interacts with the Pyruvate Co-substrate.*

Perche-Letueve, P.; Kathirvelu, V.; Berggren, G.; Clemancey, M.; Latour, J. M.; Maurel, V.; Douki, T.; Armengaud, J.; Mulliez, E.; Fontecave, M.; Garcia-Serres, R.\*; Gambarelli, S.\*; Atta, M.\*: *Journal of Biological Chemistry* **2012**, *287*, 41174-41185. DOI: [10.1074/jbc.M112.405019](https://doi.org/10.1074/jbc.M112.405019)

(19) *Magnetic properties of a doped linear polyarylamine bearing a high concentration of coupled spins ( $S=1$ ).*

Maurel, V.\*; Jouni, M.; Baran, P.; Onofrio, N.; Gambarelli, S.; Mouesca, J. M.; Djurado, D.; Dubois, L.; Jacquot, J. F.; Desfonds, G.; Kulszewicz-Bajer, I.\*: *Physical Chemistry Chemical Physics*, **2012**, *14*, 1399-1407. DOI: [10.1039/c1cp22766a](https://doi.org/10.1039/c1cp22766a)

(18) *Tuning of Ferromagnetic Spin Interactions in Polymeric Aromatic Amines via Modification of Their pi-Conjugated System.*

Dobrzynska, E.; Jouni, M.; Gawrys, P.; Gambarelli, S.; Mouesca, J. M.; Djurado, D.; Dubois, L.; Wielgus, I.; Maurel, V.\*; Kulszewicz-Bajer, I.\*; *Journal of Physical Chemistry B*, **2012**, *116*, 14968-14978. [DOI : 10.1021/jp309935a](https://doi.org/10.1021/jp309935a)

(17) *Modulation of self-assembly and magnetism of Cu(II) grids in solution.*

Parizel, N.; Ramirez, J.; Burg, C.; Choua, S.; Bernard, M.; Gambarelli, S.; Maurel, V.; BreLOT, L.; Lehn, J. M.; Turek, P.\*; Stadler, A. M.\*; *Chemical Communications*, **2011**, *47*, 10951-10953. [DOI : 10.1039/c0cc01612h](https://doi.org/10.1039/c0cc01612h)

(16) *Structure and magnetism of Ge<sub>3</sub>Mn<sub>5</sub> clusters.*

Jain, A.; Jamet, M.\*; Barski, A.; Devillers, T.; Yu, I. S.; Porret, C.; Bayle-Guillemaud, P.; Favre-Nicolin, V.; Gambarelli, S.; Maurel, V.; Desfonds, G.; Jacquot, J. F.; Tardif, S.; *J. Appl. Phys.* **2011**, *109*, 013911. [DOI : 10.1063/1.3531222](https://doi.org/10.1063/1.3531222)

(15) *Ferromagnetic spins interaction in alternating branched polyarylamines.*

Gosk, J.\*; Maurel, V.; Gambarelli, S.; Djurado, D.; Szymczak, R.; Twardowski, A.; Kulszewicz-Bajer, I.; *Journal of Applied Physics*, **2011**, *109*, 074911. [DOI : 10.1063/1.3553882](https://doi.org/10.1063/1.3553882)

(14) *A Triple Spin-Labeling Strategy Coupled with DEER Analysis to Detect DNA Modifications and Enzymatic Repair.*

Flaender, M.; Sicoli, G.; Aci-Seche, S.; Reignier, T.; Maurel, V.; Saint-Pierre, C.; Boulard, Y.; Gambarelli, S.\*; Gasparutto, D.\*; *ChemBioChem* **2011**, *12*, 2560-2563. [DOI : 10.1002/cbic.201100550](https://doi.org/10.1002/cbic.201100550)

(13) *Inclusion of a Nitronyl Nitroxyl Radical and Its Hydrochloride in Cucurbit[8]uril.*

PeresyPKina, E. V.; Fedin, V. P.; Maurel, V.; Grand, A.; Rey, P.; Vostrikova, K. E.\*; *Chemistry-a European Journal*, **2010**, *16*, 12481-12487. [DOI : 10.1002/chem.201001194](https://doi.org/10.1002/chem.201001194)

(12) *"Chain-Like" Trimetallic Ruthenium Complexes with C-7 Carbon-Rich Bridges: Experimental and Theoretical Investigations of Electronic Communication Tuning in Five Distinct Oxidation States.*

Olivier, C.; Costuas, K.\*; Choua, S.\*; Maurel, V.; Turek, P.; Saillard, J. Y.; Touchard, D.; Rigaut, S.\*; *Journal of the American Chemical Society*, **2010**, *132*, 5638-5651. [DOI : 10.1021/ja908948g](https://doi.org/10.1021/ja908948g)

(11) *Investigation of magnetic anisotropy of (Ge,Mn) nanocolumns.*

Jain, A.; Jamet, M.\*; Barski, A.; Devillers, T.; Porret, C.; Bayle-Guillemaud, P.; Gambarelli, S.; Maurel, V.; Desfonds, G.; *Applied Physics Letters*, **2010**, *97*, 202502. [DOI : 10.1063/1.3505501](https://doi.org/10.1063/1.3505501)

- (10) *Ferromagnetic spins interaction in tetraaza- and hexaazacyclophanes.*  
Kulszewicz-Bajer, I.\*; Maurel, V.; Gambarelli, S.; Wielgus, I.; Djurado, D.; *Physical Chemistry Chemical Physics*, **2009**, *11*, 1362-1368. [DOI : 10.1039/b814957g](https://doi.org/10.1039/b814957g)
- (9) *Dynamics of the dissociation of a disulfide biradical on a CdSe nanoparticle surface.*  
Billone, P. S.; Maretti, L.; Maurel, V.; Scaiano, J. C.\*; *Journal of the American Chemical Society*, **2007**, *129*, 14150-14151. [DOI : 10.1021/ja076118y](https://doi.org/10.1021/ja076118y)
- (8) *Non-linear effects in the quenching of fluorescent semiconductor nanoparticles by paramagnetic species.*  
Scaiano, J. C.\*; Laferriere, M.; Galian, R. E.; Maurel, V.; Billone, P.; *Physica Status Solidi a-Applications and Materials Science*, **2006**, *203*, 1337-1343. [DOI : 10.1002/pssa.200566186](https://doi.org/10.1002/pssa.200566186)
- (7) *Detection of reactive free radicals derived from nucleosides by liquid chromatography coupled to tandem mass spectrometry of DMPO spin trapping adducts.*  
Maurel, V.; Ravanat, J. L.\*; Gambarelli, S.\*; *Rapid Communications in Mass Spectrometry* **2006**, *20*, 2235-2242. [DOI : 10.1002/rcm.2579](https://doi.org/10.1002/rcm.2579)
- (6) *Free radical sensor based on CdSe quantum dots with added 4-amino-2,2,6,6-tetramethylpiperidine oxide functionality.*  
Maurel, V.; Laferriere, M.; Billone, P.; Godin, R.; Scaiano, J. C.\*; *Journal of Physical Chemistry B*, **2006**, *110*, 16353-16358. [DOI : 10.1021/jp061115d](https://doi.org/10.1021/jp061115d)
- (5) *Non-linear effects in the quenching of fluorescent quantum dots by nitroxyl free radicals.*  
Laferriere, M.; Galian, R. E.; Maurel, V.; Scaiano, J. C.\*; *Chemical Communications*, **2006**, 257-259. [DOI : 10.1039/b511515a](https://doi.org/10.1039/b511515a)
- (4) *Photochemistry of 2,6-diisopropylphenol (propofol).*  
Heyne, B.; Tfibel, F.; Hoebeke, M.; Hans, P.; Maurel, V.; Fontaine-Aupart, M. P.\*; *Photochemical & Photobiological Sciences*, **2006**, *5*, 1059-1067. [DOI : 10.1039/b605782a](https://doi.org/10.1039/b605782a)
- (3) *Mechanism of action of sensors for reactive oxygen species based on fluorescein-phenol coupling: the case of 2-[6-(4'-hydroxy)phenoxy-3H-xanthen-3-on-9-yl]benzoic acid.*  
Heyne, B.; Maurel, V.; Scaiano, J. C.\*; *Organic & Biomolecular Chemistry* **2006**, *4*, 802-807. [DOI : 10.1039/b515751j](https://doi.org/10.1039/b515751j)
- (2) *Study of photoinduced N-hydroxy-arylnitroxide radicals (ArNO<sup>o</sup>OH) by time-resolved EPR.*  
Maurel, V.; Mouesca, J. M.; Desfonds, G.; Gambarelli, S.\*; *Journal of Physical Chemistry A*, **2005**, *109*, 148-156. [DOI : 10.1021/jp040634i](https://doi.org/10.1021/jp040634i)

(1) *Ring-opening metathesis polymerization in emulsion.*

Claverie, J. P.\*; Viala, S.; Maurel, V.; Novat, C. ; *Macromolecules*, **2001**, *34*, 382-388. [DOI: 10.1021/ma001570m](https://doi.org/10.1021/ma001570m)

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