

Publication list

28. A. Aliprandi, D. Genovese, **M. Mauro**,* L. De Cola, Recent advances in phosphorescent Pt(II) complexes featuring metallophilic interactions: properties and applications, *Chemistry Letters*, *accepted*;
27. G. Dahm, E. Borré, C. Fu, S. Bellemin-Laponnaz and **M. Mauro**,* Tridentate Complexes of Pd(II) and Pt(II) Bearing *bis*-Aryloxy Triazole Ligands: a Joint Experimental and Theoretical Investigation, *Chemistry – An Asian Journal*, **2015**, doi: 10.1002/asia.201500600;
26. M. El Garah, N. Marets, **M. Mauro**, A. Aliprandi, S. Bonacchi, L. De Cola, A. Ciesielski, V. Bulach, M. W. Hosseini, P. Samorì, Nanopatterning of surfaces with mono- and hetero bi-metallic 1D coordination polymers: a molecular tectonics approach at the solid/liquid interface, *Journal of the American Chemical Society*, **2015**, doi:10.1021/jacs.5b02283;
25. C. Cebrián, M. Natali, D. Villa, M. Panigati, **M. Mauro**,* G. D'Alfonso, L. De Cola, Luminescent supramolecular soft nanostructures from amphiphilic dinuclear Re(I) complexes, *Nanoscale*, **2015**, *7*, 12000–12009;
24. A. Colombo, D. Septiadi, F. Fiorini, C. Dragonetti, F. Nisic, A. Valore, D. Roberto, **M. Mauro**,* L. De Cola, Neutral N⁺C⁻N⁻ terdentate luminescent Pt(II) complexes: synthesis, photophysical properties and bio-imaging application, *Dalton Transaction*, **2015**, *44*, 8478–8487;
23. E. Miyako, J. Russier, **M. Mauro**, C. Cebrián, H. Yawo, C. Ménard-Moyon, J. A. Hutchison, M. Yudasaka, S. Iijima, L. De Cola, and A. Bianco, Photofunctional nanomodulators for bioexcitation, *Angewandte Chemie International Edition*, **2014**, *53*, 13121–13125;
22. S. Zhang, R. Pattacini, P. Braunstein, L. De Cola, E. Plummer, **M. Mauro**, C. Gourlaouen, C. Daniel, Synthesis, Structure and Optical Properties of Pt(II) and Pd(II) Complexes with Oxazolyl- and Pyridyl-Functionalized DPPM-Type Ligands: a Combined Experimental and Theoretical Study, *Inorganic Chemistry*, **2014**, *53*, 12739–12756;
21. R. Soldati, A. Aliprandi, **M. Mauro**,* L. De Cola, D. Giacomini, Beta-lactam bio-conjugates bearing luminescent platinum(II) tags: synthesis and photophysical characterization, *European Journal of Organic Chemistry*, **2014**, 7113–7121;
20. E. Borré, G. Dahm, A. Aliprandi, **M. Mauro**,* S. Dagher, S. Bellemin-Laponnaz, Tridentate complexes of group 10 bearing *bis*-aryloxy *N*-heterocyclic carbene ligands: synthesis, structural, spectroscopic and computational characterization, *Organometallics*, **2014**, *33*, 4374–4384;
19. D. Septiady, A. Aliprandi, **M. Mauro**,* L. De Cola, Bio-imaging with neutral luminescent Pt(II) complexes showing metal···metal interactions, *RSC Advances*, **2014**, *4*, 25709–25718;
18. **M. Mauro**,* A. Aliprandi, C. Cebrián, D. Wang, C. Kübel, L. De Cola, Self-assembling a neutral platinum(II) complex into highly emitting microcrystalline fibers through metallophilic interactions, *Chemical Communications*, **2014**, *50*, 7269–7272;

17. **M. Mauro**,* A. Aliprandi, D. Septiadi, N. S. Kehr, L. De Cola, When self-assembly meets biology: luminescent platinum complexes for imaging applications, *Chemical Society Reviews*, **2014**, *43*, 4144–4166;
16. N. Darmawan, C.-H. Yang, **M. Mauro**, R. Fröhlich, L. De Cola, C.-H. Chang, Z.-J. Wu, C.-W. Tai, Highly efficient blue and deep-blue emitting zwitterionic iridium(III) complexes: synthesis, photophysics and electroluminescence, *Journal of Material Chemistry C*, **2014**, *2*, 2569–2582;
15. P. R. Ewen, J. Sanning, N. L. Doltsinis, **M. Mauro**, C. A. Strassert, D. Wegner, Unraveling orbital hybridization of triplet emitters at the metal-organic interface, *Physical Review Letters*, **2013**, *111*, 267401–267405;
14. N. Darmawan, C.-H. Yang, **M. Mauro**, M. Raynal, S. Heun, J. Pan, H. Buchholz, P. Braunstein, L. De Cola, Cationic bis-pincer iridium(III)-carbene complexes: efficient emitters for near-UV light-emitting electrochemical cells, *Inorganic Chemistry*, **2013**, 10756–10765;
13. C. Cebrian, **M. Mauro**, D. Kourkoulos, P. Mercandelli, D. Hertel, K. Meerholz, C. A. Strassert, L. De Cola, Luminescent neutral platinum complexes bearing an asymmetric N^NN ligand for high-performance solution-processed OLEDs, *Advanced Materials*, **2013**, *25*, 437–442;
14. C.-H. Yang, **M. Mauro**, F. Polo, S. Watanabe, I. Muenster, R. Fröhlich, L. De Cola, Deep-blue-emitting heteroleptic iridium(III) complexes suited for high-efficient phosphorescent OLEDs, *Chemistry of Materials*, **2012**, *24*, 3684–3695;
11. M. Panigati, **M. Mauro**, D. Donghi, P. Mercandelli, P. Mussini, L. De Cola, G. D'Alfonso, Luminescent dinuclear rhenium(I) complexes containing bridging 1,2-diazine ligands: photophysical properties and application, *Coordination Chemistry Reviews*, **2012**, *256*, 1621–1643;
10. **M. Mauro**,* C.-H. Yang, C.-Y. Shin, M. Panigati, C.-H. Chang, G. D'Alfonso, L. De Cola, Phosphorescent Organic Light-Emitting Diodes (PhOLEDs) using rhenium complexes as emitting material with outstanding external quantum efficiency, *Advanced Materials*, **2012**, 2054–2058;
9. A. Ruggi, **M. Mauro**, F. Polo, D. N. Reinhoudt, L. De Cola, A. H. Velders, Structure-photoluminescence quenching relationships of iridium(III)-tris(phenylpyridine) complexes, *European Journal of Inorganic Chemistry*, **2012**, 1025–1037 (**cover issue**);
8. **M. Mauro**, G. De Paoli, M. Otter, D. Donghi, G. D'Alfonso, L. De Cola, Aggregation-induced colour change for phosphorescent iridium(III) complex-based anionic surfactants, *Dalton Transactions*, **2011**, *40*, 12106–12116 (**inside cover**);
7. M. Mydlak, **M. Mauro**, F. Polo, M. Felicetti, J. Leonhardt, G. Diener, L. De Cola, C. A. Strassert, Controlling aggregation in highly emissive Pt(II) complexes bearing tridentate dianionic N^NN ligands. Synthesis, photophysics, and electroluminescence, *Chemistry of Materials*, **2011**, *23*, 3659–3667;
6. C. A. Strassert, **M. Mauro**, L. De Cola, Photophysics of soft and hard molecular assemblies based on luminescent complexes, in *Advances in Inorganic Chemistry*, vol. 63, R. van Eldik and G. Stokel (Eds.), Elsevier Inc., **2011**, 47–103;

5. E. Quartapelle Procopio, **M. Mauro**, M. Panigati, D. Donghi, P. Mercandelli, A. Sironi, G. D'Alfonso, L. De Cola, Highly emitting concomitant polymorphic crystals of a dinuclear rhenium complex, *Journal of the American Chemical Society*, **2010**, *132*, 14397–14399 (cited in ACS Noteworthy Chemistry);
4. **M. Mauro**, K. C. Schuermann, R. Prétôt, A. Hafner, P. Mercandelli, A. Sironi, L. De Cola, Complex iridium(III) salts: luminescent porous crystalline materials, *Angewandte Chemie International Edition*, **2010**, *49*, 1222–1226 (**hot paper**);
3. **M. Mauro**, E. Quartapelle Procopio, C.-H. Chien, D. Donghi, M. Panigati, P. Mercandelli, P. Mussini, G. D'Alfonso, L. De Cola, Highly emitting neutral dinuclear rhenium complexes as phosphorescent dopants for electroluminescent devices, *Advanced Functional Materials*, **2009**, *19*, 2607–2614; (**Advance in Advanced Article and inside cover**)
2. **M. Mauro**, M. Panigati, D. Donghi, P. Mercandelli, P. Mussini, A. Sironi, and G. D'Alfonso, Tricarbonyl rhenium(I) complexes containing a bridging 2,5-diphenyl-1,3,4-oxadiazole ligand: structural, spectroscopic, electrochemical, and computational characterization, *Inorganic Chemistry*, **2008**, *47*, 11154–11165;
1. D. Donghi, G. D'Alfonso, **M. Mauro**; M. Panigati, P. Mercandelli, A. Sironi, P. Mussini, L. D'Alfonso, A new class of luminescent tricarbonyl rhenium(I) complexes containing bridging 1,2-diazine Ligands: electrochemical, photophysical, and computational characterization, *Inorganic Chemistry* **2008**, *47*, 4243–4255.

Patents

4. L. De Cola, **M. Mauro**, C. Cebrián, A. Aliprandi, *Platinum complexes*, Eur. Pat. Appl. EP13306572;
3. L. De Cola, **M. Mauro**, S. Kehr, C. A. Strassert, *Platinum complexes and their use*, PCT Int. Pat. Appl. WO2012117082 A1;
2. L. De Cola, C. A. Strassert, M. Mydlak, **M. Mauro**, M. Felicetti, G. Diener, J. Leonhardt, *New platinum(II) complexes as triplet emitter for OLED application*, Ger. Pat. Appl. (2011), DE 10 2011011007 A1 20120906;
1. L. De Cola, **M. Mauro**, R. Prétôt, *Preparation of organometallic complex salts useful as organic light emitting diodes*, PCT Int. Appl. (2010), WO2010037667 A1 20100408.