



Yann Pellegrin

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Current appointment and research interests

Since 2019 CNRS research director in CEISAM laboratory (Chimie Et Interdisciplinarité: Synthèse, Analyse et Modélisation, UMR6230, Nantes Université).

Current work is focused on the interaction between light and matter, and is notably devoted to (i) the elaboration of original copper(I) complexes to explore the relationships between their structure and their excited state properties, (ii) the exploration of the reactivity of the copper(I) complexes as photocatalysts, (iii) the synthesis of hybrid photosensitive architectures based on silica nanoparticles and (iv) the construction and study of dye sensitized solar cells.

Education

2000: *agrégation* in chemistry

2000-2001: master degree in inorganic chemistry (Orsay)

2001-2004: PhD in Inorganic chemistry at Orsay University in 2004 under the supervision of Pr. A. Aukauloo

2012: Habilitation degree, Nantes Université

Career and employment

2004-2007: Post-doctoral fellow in the National Centre for Sensor Research in Dublin (DCU) between 2004 and 2007 under the supervision of Pr. R. Forster and Pr. T. Keyes.

2007: Hired as CNRS fellow in 2007 in CEISAM (Nantes Université).

Responsibilities, panel membership, editorial activities

2021-now: panel member for the scientific board of the LUMOMAT EUR

2021-2022: guest editor of a special issue of *Frontiers in Chemistry* on photochemistry

2021-now: responsible for public outreach in CEISAM lab.

Since 2007: participation to 11 PhD defense committees.

Awards and distinction

2014: CNRS bronze medal (INC)

2015: recognition for work in chemistry for energy (SCF)

Publications

5 relevant publications:

"Bulky and Stable Copper(I)-Phenanthroline Complex: Impact of Steric Strain and Symmetry on the Excited-State Properties", Gimeno, Lea; Phelan, Brian T.; Sprague-Klein, Emily A. ; Roisnel, Thierry; Blart, Errol; Gourlaouen, Christophe; Chen, Lin X.; Pellegrin, Yann, *Inorganic Chemistry*, **2022**, 61(19), 7296-7307

"Dehalogenation reaction photocatalyzed by homoleptic copper(I) complexes associated with strongly reductive sacrificial donors", Lea Gimeno, Clémence Queffélec, * Kevin Mall Haidaraly, Errol Blart and Yann Pellegrin, *Catal. Sci. Technol.*, **2021**, 11, 6041

"Non-Symmetrical Sterically Challenged Phenanthroline Ligands and Their Homoleptic Copper(I) Complexes with Improved Excited-State Properties", Gimeno, Lea; Blart, Errol; Rebilly, Jean-Noel; Coupeau, Marina; Allain, Magali; Roisnel, Thierry; Quarre de Verneuil, Alexis; Gourlaouen, Christophe; Daniel, Chantal; Pellegrin, Yann *Chemistry - A European Journal* **2020**, 26(51), 11887-11899

"A Comparative Investigation of the Role of the Anchoring Group on Perylene Monoimide Dyes in NiO-Based Dye-Sensitized Solar Cells", Farre, Yoann; Maschietto, Federica; Foehlinger, Jens; Wykes, Mike; Planchat, Aurelien; Pellegrin, Yann; Blart, Errol; Ciofini, Ilaria; Hammarstroem, Leif; Odobel, Fabrice *ChemSusChem* **2020**, 13, 1844-1855

"Sacrificial electron donor reagents for solar fuel production", Yann Pellegrin, Fabrice Odobel *C. R. Chim.* **2017**, 20, 283-295.