

PUBLICATIONS

PUBLICATIONS DANS DES JOURNAUX INTERNATIONAUX

- 121.** B. N. Sánchez-Eguía, H. Hernández-Toledo, E. Nordlander, S. Lidin, M. Torres-Flores, S. Bertaina, **M. Orio***, I. Castillo
“Hemilabile thio– and selenoether donors in PHM–inspired bis(benzimidazole)amine copper complexes.”
Chem. Cat. Chem., 2024, DOI: 10.1002/cctc.202401330.
- 120.** J. Mangué, I. Wehrung, J. Pécaut, S. Ménage, **M. Orio***, S. Torelli
"Copper complexes with Cu₂S cores: Structure and Solvent Effects on Oxygen Reduction Reactions."
Dalton Trans., 2024, DOI: 10.1039/d4dt01629g.
- 119.** T. Caradec, C. Ple, G. Sicoli, R. Petrov, E. Pradel, C. Sobieski, R. Antoine, **M. Orio**, A. Herledan, N. Willand, R. C. Hartkoorn
“Small molecule MarR modulators potentiate metronidazole antibiotic activity in aerobic *E. coli* by inducing activation by the nitroreductase NfsA.”
J. Biol. Chem., 2024, 300(7) 107431.
- 118.** A. Munzone, M. Pujol, A. Tamhankar, C. Joseph, I. Mazurenko, S. A. V. Jannuzzi, M. Réglier, A. Royant, G. Sicoli, S. DeBeer, **M. Orio***, A. J. Simaan, C. Decroos
“Integrated experimental and theoretical investigation of copper active site properties of Lytic Polysaccharide monooxygenase (LPMO) from *Serratia marcescens*.”
Inorg. Chem., 2024, 63, 11063–11078.
- 117.** M. Papadakis, J. Mehrez, I. Wehrung, L. Delmotte, M. Giorgi, R. Hardré, **M. Orio***
"Stereochemical tailoring of nickel-based electrocatalysts for hydrogen evolution reaction."
Chem. Cat. Chem., 2024, e202400426.
- 116.** S. Chandra Dantu, M. Khalil, M. Bria, C. Saint-Pierre, **M. Orio**, D. Gasparutto, G. Sicoli
“Cleaving DNA with DNA: cooperative tuning of structure and reactivity driven by copper ions.”
Adv. Sci., 2024, 2306710.
- 115.** M. Papadakis, G. Landrou, M. Poisson, L. Delmotte, K. Achileos, S. Bertaina, R. Hardré, K. Ladomenou, A. G. Coutsolelos, **M. Orio***
“A series of cobalt bis(thiosemicarbazone) catalysts for effective photocatalytic hydrogen evolution reaction.”
EurJIC, 2023, e202300352.
- 114.** M.-A. Carvalho, K. Merahi, J. Haumesser, N. Parizel, **M. Orio**, J.-P. Gisselbrecht, L. Ruhlmann, J. Weiss, S. Choua, R. Ruppert
“Synthesis, electrochemical and EPR studies of porphyrins functionalized with bulky donors.”
Molecules, 2023, 28, 4405.

- 113.** W. Wang, L.-M. Chamoreau, G. Izzet, A. Proust, **M. Orio***, S. Blanchard
“Visible light photoaccumulation of 3 electrons by the hybrid $[P_2V_3W_{15}O_{59}(\text{trisDPA}\{\text{Cu}(\text{OAc})\})]^{5-}$ polyoxometalate and its use to photocatalytically generate CF_3 radical.”
J. Am. Chem. Soc., 2023, 145, 12136–12147.
- 112.** M. Papadakis, A. Barrozo, L. Delmotte, T. Straistari, S. Shova, S. Bertaina, M. Réglie, V. Krewald, R. Hardré, **M. Orio***
“How Nuclearity Impacts H_2 Production in Thiocarbazone-based Complexes.”
Inorganics, 2023, 11, 149.
- 111.** A. Rančić, N. Babić, **M. Orio**, F. Peyrot
“32. Structural Features Governing the Metabolic Stability of Tetraethyl-Substituted Nitroxides in Rat Liver Microsomes.”
Antioxidants, 2023, 12, 402.
- 110.** L. Soriano, **M. Orio**, O. Pilone, O. Jeannin, E. Reinheimer, N. Quéméré, P. Auban-Senzier, M. Fourmigué, S. Bertaina
“A tetrathiafulvalene salt of the nitrite (NO_2^-) anion: investigations of the spin-Peierls phase”
J. Mat. Chem. C, 2023, 11, 8170–8177.
- 109.** A. Stoumpidi, A. Trapali, M. Poisson, A. Barrozo, S. Bertaina, **M. Orio***, G. Charalambidis, A. G. Coutsolelos
“Highly Efficient Light-Driven CO_2 to CO reduction by an Appropriately Decorated Iron Porphyrin Molecular Catalyst.”
ChemCatChem., 2023, e202200856.
- 108.** S. Gamboa, B. Faure, M. Réglie, A. J. Simaan, **M. Orio***
“Computational investigation of Cu-promoted intramolecular stereoselective O-atom transfer reaction with tridentate ligands.”
Chem. Eur. J., 2022, e202202206.
- 107.** L. Rulišek, M. Gruden, **M. Orio***, R. J. Deeth
“Quantum Bio-Inorganic Chemistry (QBIC) Society Special Collection.”
Chem. Eur. J., 2022, 28, e202202185.
- 106.** R. J. Gómez-Piñeiro, M. Drosou, C. Decroos, A. J. Simaan, D.A. Pantazis, **M. Orio***
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- 105.** M. Drosou, C.A. Mitsopoulou, **M. Orio**, D. A. Pantazis
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- 104.** A. Barrozo, **M. Orio***
“From ligand- to metal-centered reactivity: Metal substitution effect in thiosemicarbazone-based complexes for H_2 production .”
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- 103.** L. Soriano, O. Pilone, M.D. Kuz'min, H. Vezin, O. Jeannin, M. Fourmigué, **M. Orio**, S. Bertaina
"Electron spins interaction in the spin-Peierls phase of the organic spin chain (*o*-DMTTF)₂X (X = Cl, Br, I)."
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- 102.** A. Das, H. Jobelius, J. Schleinitz, S. Gamboa-Ramirez, G. Creste, G. Kervern, J. Raya, N. Le Breton, A. Guénet, Z. Boubegtiten-Fezoua, L. Grimaud, **M. Orio**, G. Rogez, P. Hellwig, S. Choua, S. Ferlay, M. Desage-El Murr.
"A hybrid bioinspired catechol-alloxazine triangular nickel complex stabilizing protons and electrons."
Inorg. Chem. Front., 2021, 8, 5286-5298.
- 101.** I. Castillo, A. P. Torres-Flores, D. F. Abad-Aguilar, A. Berlanga-Vázquez, **M. Orio**, D. Martínez-Otero
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ChemCatChem., 2021, 13, 4700-4704.
- 100.** G. Singh, S. Gamboa, **M. Orio***, D.A. Pantazis, M. Roemelt
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- 99.** A. C. García-Álvarez, S. Gamboa-Ramírez, D. Martínez-Otero, **M. Orio***, I. Castillo
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Chem. Comm., 2021, 57, 8608-8611.
- 98.** K. Ladomenou, M. Papadakis, G. Landrou, M. Giorgi, C. Drivas, S. Kennou, R. Hardré, J. Massin, A. G. Coutsolelos, **M. Orio***
"Nickel complexes and carbon dots for efficient light-driven hydrogen production."
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- 97.** **M. Orio***, J. Kaur, J. vanTol, M. Giorgi, N. Dalal, S. Bertaina
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J. Chem. Phys., 2021, 154, 154201.
- 96.** **M. Orio***, D. A. Pantazis
"Challenges and opportunities for theory in understanding metalloenzymes."
Chem. Comm., 2021, 57, 3952-3974.
- 95.** N. Queyriaux, C. Esmieu, A. K. Gupta, L. Vendier, S. Ott, **M. Orio**, L. Hammarström
"Electrochemical, spectroscopic and computational investigations of a series of polypyridyl ruthenium(II) complexes: reduced states characterizations."
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- 94.** A. Barrozo, **M. Orio***
"Unraveling the Catalytic Mechanisms of H₂ Production in Thiosemicarbazone Nickel Complexes."
RSC Adv., 2021, 11, 5232-5238.

- 93.** R. J. Gómez-Piñeiro, D. A. Pantazis, **M. Orio***
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- 92.** T. Straistari, A. Morozan, S. Sergiu, M. Réglie, **M. Orio***, V. Artero
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- 91.** C. Pieri, A. Bhattacharjee, A. Barrozo, B. Faure, M. Giorgi, J. Fize, M. Réglie, M. Field, **M. Orio***, V. Artero, R. Hardré
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"Electron Spin Resonance of Defects in Spin Chains. o-(DMTTF)2X: a versatile system behaving like molecular magnet."
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- 89.** N. Babić, **M. Orio**, F. Peyrot
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- 88.** N. Queyriaux, K. Abel, J. Fize, J. Pécaut, **M. Orio***, L. Hammarström
"Carbon Dioxide Reduction Catalyzed by a Cobalt(II)-Polypyridyl Complex: An Experimental and Theoretical Study."
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- 87.** M. Papadakis, A. Barrozo, T. Straistari, N. Queyriaux, A. Putri, J. Fize, M. Giorgi, M. Réglie, J. Massin, R. Hardré, **M. Orio***
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Dalton Trans., 2020, 49, 5064-5073.
- 86.** O. Cuzan-Munteanu, D. Sirbu, M. Giorgi, S. Shova, E. A. Gibson, M. Réglie, **M. Orio**, L. M. D. R. S. Martins, A. C. Benniston
"Neutral Lipophilic Palladium(II) Complexes and their Applications in Electrocatalytic Hydrogen Production and C-C Coupling Reactions."
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- 85.** M. S. Askari, F. Effaty, F. Gennarini, **M. Orio**, N. Le Poul, X. Ottenwaelder
"Sequential Inner-Sphere Electron Transfers in a Family of Copper-Nitrosoarene Adducts."
Inorg. Chem., 2020, 59, 8678-8689.

- 84.** Y. Ren, R. Forté, K. Cheaib, N. Vanthuyne, L. Fensterbank, H. Vezin, **M. Orio**, S. Blanchard, M. Desage-El Murr.
"High-performance group transfer catalysis by copper complex with redox-active ligand in an entatic state."
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- 83.** L. Wang, M. Gennari, A. Barrozo, J. Fize, A. Barrozo, C. Philouze, S. Demeshko, F. Meyer, **M. Orio**, V. Artero, C. Duboc
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- 82.** C. Guerrin, Y. Aidibi, L. Sanguinet, P. Leriche, S. Aloise, **M. Orio**, S. Delbaere
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J. Am. Chem. Soc., 2019, 141, 19151-19160.
- 81.** A. Barrozo, **M. Orio***
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- 80.** C. Esmieu, **M. Orio**, S. Ménage, S. Torelli
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- 78.** S. Panagiotakis, G. Landrou, V. Nikolaou, A. Putri, R. Hardré, J. Massin, G. Charalambidis, A. G. Coutsolelos, **M. Orio***
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- 77.** N. Abhyankar, S. Bertaina, **M. Orio**, N. Dalal
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Ferroelectrics, 2018, 534, 11-18.
- 76.** D. Brazzolotto, L. Wang, H. Tang, M. Gennari, N. Queyriaux, C. Philouze, S. Demeshko, F. Meyer, **M. Orio**, V. Artero, M. B. Hall, C. Duboc
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- 75.** A. Kochem, B. Faure, S. Bertaina, E. Rivière, M. Giorgi, M. Réglie, **M. Orio***, J. Simaan
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- 74.** C.-E. Dutoit, A. Stepanov, J. van Tol, **M. Orio**, S. Bertaina
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- 73.** C. Guerrin, G. Szalóki, J. Berthet, L. Sanguinet, **M. Orio***, S. Delbaere
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- 71.** M. Eckshtain-Levi, R. Lavi, **M. Orio***, L. Benisvy
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- 63.** B. Debus, **M. Orio**, J. Rehaut, G. Burdzinski, C. Ruckebusch, M. Sliwa
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