

PAPERS IN INTERNATIONAL JOURNALS

1. **N. Armaroli**, E. Bandini, A. Barbieri
"Hydrogen as an Energy Carrier: Constraints and Opportunities"
Submitted
2. T.-A. Phan, M. Jouffroy, D. Matt, **N. Armaroli**, A. Saavedra Moncada, E. Bandini, B. Delavaux-Nicot, J. F. Nierengarten, D. Armsbach
"Cavity-shaped *cis*-Chelating Diphosphanes with Metal Confining Properties Capable of Stabilizing Luminescent Mononuclear Three-Coordinate Cu^I Complexes "
Submitted
3. B. Ventura, D. Veclani, A. Venturini, **N. Armaroli**, M. Baroncini, P. Ceroni, M. Marchini
"Elucidating the Excited State Behavior of Pyridyl Pyridinium Systems via Computational and Transient Absorption studies of Tetrahedral Multichromophoric Arrays and their Model Compounds"
[Chem. Eur. J. 2023, 29, DOI: 10.1002/chem.202301853](#)
4. A. Edo-Osagie, D. Serillon, X. Barril, F. Ruani, **N. Armaroli**, C. Gourlaouen, B. Ventura, H.-P. Jacquot de Rouville, V. Heitz
"A Multi-Responsive 8-State bis(Acridinium-Zn(II) Porphyrin) Receptor"
[J. Am. Chem. Soc. 2023, 145, 10691–10699](#)
5. J. Cerezo, S. Gao, **N. Armaroli**, F. Ingrosso, G. Prampolini, F. Santoro, B. Ventura, M. Pastore
"Non-Phenomenological Description of the Time-Resolved Emission in Solution with Quantum-Classical Vibronic Approaches—Application to Coumarin C153 in Methanol"
[Molecules 2023, 28, 3910](#)
6. F. Ruani, A. Edo-Osagie, H.-P. Jacquot de Rouville, C. Gourlaouen, V. Heitz, B. Ventura, **N. Armaroli**
"Photophysical characterization of a bisacridinium-diphenylporphyrin conjugate"
[J. Porphyrins Phthalocyanines 2023, 27, 569–575](#)
7. A. Baschieri, F. Aleotti, E. Matteucci, L. Sambri, M. Mancinelli, A. Mazzanti, E. Leoni, **N. Armaroli**, F. Monti
"Pyridyl-1,2-azaborine Ligand for Phosphorescent Neutral Iridium(III) Complexes"
[Inorg. Chem. 2023, 62, 2456–2469](#)
8. T.-A. Phan, **N. Armaroli**, A. Saavedra Moncada, E. Bandini, B. Delavaux-Nicot, J. F. Nierengarten, D. Armsbach
"Stable Luminescent [Cu(NN)(PP)]⁺ Complexes Incorporating a β-Cyclodextrin-based Diphosphane Ligand with Metal Confining Properties"
[Angew. Chem. Int. Ed. 2023, 62, e202214638 – COVER PAGE ARTICLE](#)
9. D. Veclani, A. Melchior, A. Llobet, **N. Armaroli**, A. Venturini

- "Analysis of the role of the pH in the anchoring of alkylphosphonic acid on a TiO₂ surface:
A DFTB study"
Comput. Mater. Sci. **2023**, *219*, 111997
10. **N. Armaroli**, C. Carraro, P. Cazzola, E. Cherchi, M. Tanelli, M. Tavoni, A. Tilche, M. Torsello
"The road ahead: how to reduce emissions and energy use for Italy's transport sector"
Nat. Italy **2022**, doi: [10.1038/d43978-022-00098-x](https://doi.org/10.1038/d43978-022-00098-x)
11. A. Di Girolamo, F. Monti, A. Mazzanti, E. Matteucci, **N. Armaroli**, L. Sambri, A. Baschieri "4-Phenyl-1, 2, 3-triazoles as Versatile Ligands for Cationic Cyclometalated Iridium (III) Complexes"
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12. **N. Armaroli**, A. Barbieri
"The hydrogen dilemma in Italy's energy transition"
Nat. Italy **2021**, DOI: [10.1038/d43978-021-00109-3](https://doi.org/10.1038/d43978-021-00109-3)
13. M. Marchini, A. Luisa, G. Bergamini, **N. Armaroli**, B. Ventura, M. Baroncini, N. Demitri. E. Iengo, P. Ceroni
"Giant shape-persistent tetrahedral porphyrin system: light-induced charge separation"
Chem. Eur. J. **2021**, DOI: [10.1002/chem.202102135](https://doi.org/10.1002/chem.202102135)
14. S. Gao, Y. Gisbert, G. Erbland, S. Abid, C. Kammerer, A. Venturini, G. Rapenne, B. Ventura, **N. Armaroli**
"Photophysical properties of 1,2,3,4,5-pentaarylcylopentadienyl hydrotris(indazolyl)borate ruthenium(II) complexes"
Phys. Chem. Chem. Phys. **2021**, *23*, 17049-17056
15. F. Monti, A. Baschieri, L. Sambri, **N. Armaroli**
"Excited-State Engineering in Heteroleptic Ionic Iridium(III) Complexes"
Acc. Chem. Res., **2021**, *59*, 1492-1505
16. A. Baschieri, L. Sambri, A. Mazzanti, A. Carlone, F. Monti, **N. Armaroli**
"Iridium(III) Complexes with Fluorinated Phenyl-tetrazoles as Cyclometalating Ligands: Enhanced Excited-State Energy and Blue Emission"
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17. S. Gao, B. Balan, K. Yoosaf, F. Monti, E. Bandini, A. Barbieri, **N. Armaroli**
"Highly Efficient Luminescent Solar Concentrators Based on Benzoheterodiazole Dyes with Large Stokes' Shifts"
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Cover page article. Invited paper and hot paper. Special Issue on for the 8th EuChemS Chemistry Conference.
18. F. Monti, A. Barbieri, **N. Armaroli**
"Battery Electric Vehicles: Perspectives and Challenges"

[Substantia 2019, 3\(2\), 75-89](#)

Invited paper, Special Issue on Sustainability and Energy in the occasion of the International Year of the Periodic Table.

19. E. Matteucci, A. Baschieri, L. Sambri, F. Monti, E. Pavoni, E. Bandini, **N. Armaroli**
“Carbazole-Terpyridine Donor-Acceptor Dyads with Rigid π -Conjugated Bridges”
[ChemPlusChem 2019, 84, 1353-1365](#)
Invited paper, Special Issue on pi-Conjugated Macro(molecules)
20. J.-F. Nierengarten, I. Nierengarten, M. Holler, A. Sournia-Saquet, B. Delavaux-Nicot, E. Leoni, F. Monti, **N. Armaroli**
“Dinuclear Copper(I) Complexes Combining Bis(diphenylphosphanyl)acetylene with 1,10-Phenanthroline Ligands”.
[Eur. J. Inorg. Chem. 2019, 2665-2673 - COVER PAGE ARTICLE](#)
21. **N. Armaroli**
“In my Element: Iridium”
[Chem. Eur. J. 2019, 25, 5104 – IYPT 2019 Invited Essay](#)
22. A. Baschieri, F. Monti, **N. Armaroli**, G. Mazzotti, L. Giorgini, L. Sambri, T. Benelli
“Luminescent methacrylic copolymers with side-chain cyclometalated iridium(III) complexes”
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23. E. Leoni, J. Mohanraj, M. Holler, M. Mohankumar, I. Nierengarten, F. Monti, A. Sournia-Saquet, B. Delavaux-Nicot, J.-F. Nierengarten, **N. Armaroli**
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“Unconventional Synthesis of a Cu^I Rotaxane with a Superacceptor Stopper: Ultrafast Excited-State Dynamics and Near-Infrared Luminescence”
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25. M. Mohankumar, M. Holler, E. Meichsner, J.-F. Nierengarten, F. Niess, J.-P. Sauvage, B. Delavaux-Nicot, E. Leoni, F. Monti, J. M. Malicka, M. Cocchi, E. Bandini, **N. Armaroli**
“Heteroleptic Copper(I) Pseudorotaxanes Incorporating Macrocyclic Phenanthroline Ligands of Different Sizes”
[J. Am. Chem. Soc. 2018, 150, 6291-6299](#)
26. P.-H. Lanoë, J. Chan, A. Groué, G. Gontard, A. Jutand, M.-N. Rager, **N. Armaroli**, F. Monti, A. Barbieri, H. Amouri
“Cyclometalated N-heterocyclic carbene iridium(III) complexes with naphthalimide chromophores: a novel class of phosphorescent heteroleptic compounds”

27. E. Matteucci, A. Baschieri, A. Mazzanti, L. Sambri, J. Ávila, A. Pertegás, H. J. Bolink, F. Monti, E. Leoni, **N. Armaroli**
“Anionic Cyclometalated Iridium(III) Complexes with a Bis-Tetrazolate Ancillary Ligand for Light-Emitting Electrochemical Cells”
[*Inorg. Chem.* **2017**, *56*, 10584-10595](#)
28. J. Mohanraj, A. Barbieri, **N. Armaroli**, M. Vizuete, F. Langa, B. Delavaux-Nicot, M. Vartanian, J. Iehl, U. Hahn, J.-F. Nierengarten
“Efficient photoinduced energy- and electron-transfer in Zn^{II}-Porphyrin / Fullerene dyads with interchromophoric distance up to 2.6 nm and no wire-like connectivity”
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29. A. Gualandi, D. Mazzarella, A. Ortega-Martínez, L. Mengozzi, F. Calcinelli, E. Matteucci, F. Monti, **N. Armaroli**, L. Sambri, P. G. Cozzi
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30. A. Nano, M.P. Gullo, B. Ventura, A. Barbieri, **N. Armaroli**, R. Ziessel
“Color-Tunable Heterodinuclear Pt(II)/B(III) and Pt(II)/Ir(III) Arrays with N⁺O-julolidine Ligands”
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34. A. Barbieri, E. Bandini, F. Monti, V. K. Praveen, **N. Armaroli**
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[*Top. Curr. Chem.* **2016**, *374*, 47](#)
35. **N. Armaroli**, H. J. Bolink
“Luminescence: The Never-Ending Story”

36. P.-H. Lanoë, J. Chan, G. Gontard, F. Monti, **N. Armaroli**, A. Barbieri, H. Amouri
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41. A. Kremer, C. Aurisicchio, F. De Leo, B. Ventura, J. Wouters, **N. Armaroli**, A. Barbieri, D. Bonifazi
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J. Am. Chem. Soc. **2015**, *137*, *8150-8160*
43. F. Monti, M. G. I. La Placa, **N. Armaroli**, R. Scopelliti, M. Grätzel, Md. K. Nazeeruddin, F. Kessler
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50. F. Monti, U. Hahn, E. Pavoni, B. Delavaux-Nicot, J.-F. Nierengarten, **N. Armaroli**
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51. V. K. Praveen, C. Ranjith, E. Bandini, A. Ajayaghosh, **N. Armaroli**
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57. J. M. Malicka, A. Sandeep, F. Monti, E. Bandini, M. Gazzano, C. Ranjith, V. K. Praveen, A. Ajayaghosh, **N. Armaroli**

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