Frédéric Lafolet

List of Publications by Year in descending order

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53 papers 1,170 citations

394421 19 h-index 414414 32 g-index

54 all docs

54 docs citations

54 times ranked 1413 citing authors

#	Article	IF	Citations
1	New Insights into the Redox Properties of Pyridinium Appended 1,2â€Dithienylcyclopentenes. ChemPhysChem, 2022, , .	2.1	2
2	Visualization and Comprehension of Electronic and Topographic Contrasts on Cooperatively Switched Diarylethene-Bridged Ditopic Ligand. Nanomaterials, 2022, 12, 1318.	4.1	3
3	From Multi-Switchable Self-Assemblies towards Surface Coordination Chemistry: An STM Investigation of Bipyridine-Terminated Ditopic Ligands. ECS Journal of Solid State Science and Technology, 2022, $11,055007$.	1.8	1
4	Nanopatterning by Length-Dependent Self-Assembly from Fluorene-Terpyridine Derivatives. Journal of Physical Chemistry C, 2022, 126, 10833-10841.	3.1	2
5	Photochromic Metallopolymer Based on Dithienylethene as a Molecular Calculator. Chemistry of Materials, 2022, 34, 5912-5918.	6.7	6
6	Rull tris-bipyridine-modified electrode as a sensor for battery electrolyte. Electrochemistry Communications, 2021, 125, 106990.	4.7	1
7	Unprecedented ON/OFF Ratios in Photoactive Diarylethene-Bisthienylbenzene Molecular Junctions. Nano Letters, 2021, 21, 7555-7560.	9.1	14
8	Combining Photomodulation and Rectification in Coordination Molecular Wires Based on Dithienylethene Molecular Junctions. Journal of Physical Chemistry C, 2020, 124, 26304-26309.	3.1	22
9	Long-Range Charge Transport in Diazonium-Based Single-Molecule Junctions. Nano Letters, 2020, 20, 6899-6907.	9.1	26
10	Molecular Junctions: Molecular Signature and Activationless Transport in Cobaltâ€Terpyridineâ€Based Molecular Junctions (Adv. Electron. Mater. 7/2020). Advanced Electronic Materials, 2020, 6, 2070033.	5.1	1
11	All Visible Light Switch Based on the Dimethyldihydropyrene Photochromic Core. Journal of Physical Chemistry Letters, 2020, 11, 2682-2688.	4.6	21
12	Catalytic Lightâ€Triggered Reduction Promoted by a Dithienylethene Derivative. Chemistry - A European Journal, 2020, 26, 13359-13362.	3.3	5
13	Highly Efficient Photoswitch in Diarylethene-Based Molecular Junctions. Journal of the American Chemical Society, 2020, 142, 7732-7736.	13.7	60
14	Molecular Signature and Activationless Transport in Cobaltâ€Terpyridineâ€Based Molecular Junctions. Advanced Electronic Materials, 2020, 6, 1901416.	5.1	27
15	Photochemical and photophysical properties of photochromic osmium terpyridine-dimethyldihydropyrene complexes. Dyes and Pigments, 2019, 160, 93-98.	3.7	6
16	ZnO Nanowires as a Promotor of High Photoinduced Efficiency and Voltage Gain for Cathode Battery Recharging. ACS Applied Energy Materials, 2019, 2, 6254-6262.	5.1	7
17	One-Dimensional Double Wires and Two-Dimensional Mobile Grids: Cobalt/Bipyridine Coordination Networks at the Solid/Liquid Interface. Journal of Physical Chemistry Letters, 2019, 10, 4164-4169.	4. 6	16
18	A solvent-free and vacuum-free melt-processing method to fabricate organic semiconducting layers with large crystal size for organic electronic applications. Journal of Materials Chemistry C, 2019, 7, 3190-3198.	5 . 5	13

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19	Multi-functional switches of ditopic ligands with azobenzene central bridges at a molecular scale. Nanoscale, 2019, 11, 23042-23048.	5. 6	6
20	Bidirectional light-induced conductance switching in molecular wires containing a dimethyldihydropyrene unit. Nanoscale, 2018, 10, 5436-5441.	5.6	34
21	Ultrathin Molecular Layer Junctions Based on Cyclometalated Ruthenium Complexes. Journal of Physical Chemistry C, 2018, 122, 29069-29074.	3.1	14
22	Orbital Control of Long-Range Transport in Conjugated and Metal-Centered Molecular Electronic Junctions. Journal of Physical Chemistry C, 2018, 122, 29028-29038.	3.1	16
23	Supramolecular Networks and Wires Dominated by Intermolecular BiEDOT Interactions. Journal of Physical Chemistry C, 2018, 122, 22760-22766.	3.1	11
24	Highly Efficient Long-Range Electron Transport in a Viologen-Based Molecular Junction. Journal of the American Chemical Society, 2018, 140, 10131-10134.	13.7	54
25	Robust Bipolar Light Emission and Charge Transport in Symmetric Molecular Junctions. Journal of the American Chemical Society, 2017, 139, 7436-7439.	13.7	55
26	Efficient Photoswitch System Combining a Dimethyldihydropyrene Pyridinium Core and Ruthenium(II) Bis-Terpyridine Entities. Inorganic Chemistry, 2017, 56, 4357-4368.	4.0	19
27	Light assisted rechargeable batteries: a proof of concept with BODIPY derivatives acting as a combined photosensitizer and electrical storage unit. Journal of Materials Chemistry A, 2017, 5, 1902-1905.	10.3	10
28	Molecular Isomerization and Multiscale Phase Transitions of a Ditopic Ligand on a Surface. Journal of Physical Chemistry C, 2017, 121, 20925-20930.	3.1	14
29	Electrografted monolayer based on a naphthalene diimide–ruthenium terpyridine complex dyad: efficient creation of large-area molecular junctions with high current densities. Chemical Communications, 2017, 53, 10997-11000.	4.1	23
30	Electrochemical control of the switching process of photochromic dimethyldihydropyrene derivatives. Chemical Communications, 2017, 53, 9360-9363.	4.1	14
31	Control of Rectification in Molecular Junctions: Contact Effects and Molecular Signature. Journal of the American Chemical Society, 2017, 139, 11913-11922.	13.7	61
32	Conductance in a bis-terpyridine based single molecular breadboard circuit. Chemical Science, 2017, 8, 1576-1591.	7.4	25
33	Surface functionalization with redox active molecule-based imidazolium via click chemistry. Electrochemistry Communications, 2016, 70, 13-17.	4.7	8
34	Unprecedented Self-Organized Monolayer of a Ru(II) Complex by Diazonium Electroreduction. Journal of the American Chemical Society, 2016, 138, 9381-9384.	13.7	60
35	Dimethyldihydropyrene–cyclophanediene photochromic couple functionalized with terpyridyl metal complexes as multi-addressable redox- and photo-switches. Dalton Transactions, 2016, 45, 13700-13708.	3.3	19
36	A redox- and photo-responsive quadri-state switch based on dimethyldihydropyrene-appended cobalt complexes. Journal of Materials Chemistry C, 2016, 4, 1139-1143.	5 . 5	29

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37	3,4-Ethylenedioxythiophene-based cobalt complex: an efficient co-mediator in dye-sensitized solar cells with poly(3,4-ethylenedioxythiophene) counter-electrode. Electrochimica Acta, 2015, 179, 237-240.	5.2	13
38	A new surface-bound molecular switch based on the photochromic dimethyldihydropyrene with light-driven release of singlet oxygen properties. Journal of Materials Chemistry C, 2015, 3, 12014-12017.	5 . 5	13
39	A Multiâ€Addressable Switch Based on the Dimethyldihydropyrene Photochrome with Remarkable Protonâ€Triggered Photoâ€opening Efficiency. Chemistry - A European Journal, 2015, 21, 455-467.	3.3	48
40	Electron Transfer Across Modular Oligo- <i>p</i> p-phenylene Bridges in Ru(bpy) ₂ (bpyâ€"ph _{<i>n</i>} â€"DQ) ⁴⁺ (<i>n</i> = 1â€"5) Dyads. Unusual Effects of Bridge Elongation. Journal of Physical Chemistry A, 2012, 116, 119-131.	2.5	20
41	One-Step Vs Stepwise Immobilization of 1-D Coordination-Based Rh–Rh Molecular Wires on Gold Surfaces. Langmuir, 2012, 28, 11779-11789.	3.5	12
42	Towards New Molecular Photocatalysts for CO ₂ Reduction: Photoâ€Induced Electron Transfer versus CO Dissociation within [Os(NN)(CO) ₂ Cl ₂] Complexes. Chemistry - A European Journal, 2011, 17, 4313-4322.	3.3	45
43	Soluble {[Rh2(μ-OOCCH3)2(dbbpy)2][BF4]}n molecular wire and [Rh2(μ-OOCCH3)2(dbbpy)2L2]2+ complexes; dbbpy=4,4′-di-tert-butyl-2,2′-bipyridine: Synthesis and physicochemical characterization. Polyhedron, 2010, 29, 3059-3065.	2.2	7
44	Structural characterization of metal–metal bonded polymer [Ru(L)(CO)2]n (L = 2,2′-bipyridine) in the solid state using high-resolution NMR and DFT chemical shift calculations. Physical Chemistry Chemical Physics, 2010, 12, 15428.	2.8	19
45	Synthesis and Structural and Physicochemical Characterization of {[Rh ₂ (μâ€OOCCH ₃) ₂ (dmbpy) ₂][BF ₄]} <i>_{Molecular Wire. European Journal of Inorganic Chemistry, 2009, 2009, 111-118.}</i>	b ₂.no ×/sub>	& /i>
46	Soluble Redox-Active Polymetallic Chains [{RuO(CO)(L)(bpy)}m]n(bpy = 2,2′-bipyridine, L = PrCN, Clâ^';m= 0,) T	j <u>E</u> TQq0 0	0 rgBT /Ove
47	Electrochemical characterisation of an Os (II) conjugated polymer in aqueous electrolytes. Electrochimica Acta, 2006, 51, 3484-3488.	5.2	6
48	Ultrathin Luminescent Films of Rigid Dinuclear Ruthenium(II) Trisbipyridine Complexes. Advanced Functional Materials, 2006, 16, 625-632.	14.9	18
49	Oligothiophene Bipyridine Alternate Copolymers and Their Ruthenium Metalated Analogues:  In Situ ESR and UVâ°'Vis Investigations of Metalâ°'Chain Interactions. Journal of Physical Chemistry B, 2005, 109, 12755-12761.	2.6	21
50	Energy Transfer by a Hopping Mechanism in Dinuclear IrlII/Rull Complexes: A Molecular Wire?. ChemPhysChem, 2005, 6, 2417-2427.	2.1	93
51	Iridium complexes containing p-phenylene units. The influence of the conjugation on the excited state properties. Journal of Materials Chemistry, 2005, 15, 2820.	6.7	95
52	Control of field-effect mobilities in oligothiophene–bipyridine alternated copolymers. Synthetic Metals, 2004, 142, 201-206.	3.9	4
53	Photoinduced energy and electron transfer processes in heteropolynuclear polypyridyl complexes of Ru(ii) and Fe(ii). Physical Chemistry Chemical Physics, 2003, 5, 2520-2527.	2.8	23