

# Laurent Ruhlmann

## List of Publications by Citations

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88

papers

1,892

citations

25

h-index

39

g-index

99

ext. papers

2,160

ext. citations

5.1

avg, IF

4.61

L-index

#	Paper	IF	Citations
88	Hybrid Organic/Inorganic Porphyrin/Polyoxometalate Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 3433-3441	2.3	126
87	Synthesis and photocatalytic properties of mixed polyoxometalate-porphyrin copolymers obtained from Anderson-type polyoxomolybdates. <i>Langmuir</i> , <b>2010</b> , 26, 5101-9	4	100
86	The Impact of Antiaromatic Subunits in [4n+2] $\pi$ Systems: Bispentalenes with [4n+2] $\pi$ Electron Perimeters and Antiaromatic Character. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7178-88	16.4	94
85	Unprecedented replacement of bridging oxygen atoms in polyoxometalates with organic imido ligands. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2626-30	16.4	88
84	Immobilization of polyoxometalates in the Zr-based metal organic framework UiO-67. <i>Chemical Communications</i> , <b>2015</b> , 51, 2972-5	5.8	76
83	Carbon hydrangeas with typical ionic liquid matched pores for advanced supercapacitors. <i>Carbon</i> , <b>2020</b> , 168, 499-507	10.4	62
82	Synthesis, electrochemical and photophysical properties of covalently linked porphyrin-polyoxometalates. <i>Dalton Transactions</i> , <b>2013</b> , 42, 2745-54	4.3	58
81	A molecular photovoltaic system based on Dawson type polyoxometalate and porphyrin formed by layer-by-layer self assembly. <i>Chemical Communications</i> , <b>2013</b> , 49, 496-8	5.8	56
80	A Polycationic Zinc-5,15-dichlorooctaethylporphyrinate-viologen Wire. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6664-6667	16.4	47
79	Photocatalysis with polyoxometalates associated to porphyrins under visible light: an application of charge transfer in electrostatic complexes. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 6394-400	2.8	45
78	Naphthylimido-substituted hexamolybdate: preparation, crystal structures, solvent effects, and optical properties of three polymorphs. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 4960-7	5.1	44
77	An Electrosynthetic Path toward Pentaporphyrins. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 1352-1355	4.2	40
76	Synthesis and characterization of conjugated Dawson-type polyoxometalate-porphyrin copolymers. <i>Dalton Transactions</i> , <b>2013</b> , 42, 12688-98	4.3	38
75	Photocatalytic reduction of Ag <sub>2</sub> SO <sub>4</sub> by electrostatic complexes formed by tetracationic zinc porphyrins and tetracobalt Dawson-derived sandwich polyanion. <i>Applied Catalysis A: General</i> , <b>2010</b> , 373, 160-167	5.1	37
74	Photocatalytic reduction of Ag <sub>2</sub> SO <sub>4</sub> by the Dawson anion [P <sub>2</sub> W <sub>18</sub> O <sub>62</sub> ] <sup>6-</sup> and tetracobalt sandwich complexes. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 84, 835-842	21.8	36
73	Easy methods for the electropolymerization of porphyrins based on the oxidation of the macrocycles. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 10454-10463	6.7	35
72	Formation and photocatalytic properties of nanocomposite films containing both tetracobalt Dawson-derived sandwich polyanions and tetracationic porphyrins. <i>Langmuir</i> , <b>2011</b> , 27, 132-43	4	34

71	N-Heterocyclic Carbene Based Tri-organyl-Zn-Alkyl Cations: Synthesis, Structures, and Use in CO Functionalization. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5509-5519	4.8	33
70	Heteroanionic Materials Based on Copper Clusters, Bisphosphonates, and Polyoxometalates: Magnetic Properties and Comparative Electrocatalytic NO(x) Reduction Studies. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 1551-61	5.1	31
69	Porphyrin-polyoxometalate hybrids connected via a Tris-alkoxo linker for the generation of photocurrent. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 726-734	6.7	29
68	Catalytic Emulsion Based on Janus Nanosheets for Ultra-Deep Desulfurization. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1920-1929	4.8	28
67	A simple way for the electropolymerization of porphyrins. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 638, 70-75	4.1	28
66	Single-Molecule Magnet Behavior of Individual Polyoxometalate Molecules Incorporated within Biopolymer or Metal-Organic Framework Matrices. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 6564-74	4.8	27
65	The [2 + 2] Cycloaddition-Retroelectrocyclization and [4 + 2] Hetero-Diels-Alder Reactions of 2-(Dicyanomethylene)indan-1,3-dione with Electron-Rich Alkynes: Influence of Lewis Acids on Reactivity. <i>Organic Letters</i> , <b>2015</b> , 17, 3506-9	6.2	26
64	Self-oriented polycationic copolymers obtained from bipyridinium meso-substituted-octaethylporphyrins. <i>Journal of Electroanalytical Chemistry</i> , <b>2008</b> , 621, 22-30	4.1	25
63	Anderson-Type Polyoxometalates Functionalized by Tetrathiafulvalene Groups: Synthesis, Electrochemical Studies, and NLO Properties. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 3742-3752	5.1	24
62	Bis-porphyrin copolymers covalently linked by pyridinium spacers obtained by electropolymerization from octaethylporphyrins and pyridyl-substituted porphyrins. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 588-596	3.6	23
61	Amphiphilic polyoxometalates for the controlled synthesis of hybrid polystyrene particles with surface reactivity. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 2948-53	4.8	22
60	Photocatalytic synthesis of silver dendrites using electrostatic hybrid films of porphyrin-polyoxometalate. <i>Applied Catalysis A: General</i> , <b>2012</b> , 447-448, 89-99	5.1	22
59	Generation of photocurrent by visible-light irradiation of conjugated dawson polyoxophosphovanadotungstate-porphyrin copolymers. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8271-80	4.8	21
58	Supramolecular assemblies obtained by large counteranion incorporation in a well-oriented polycationic copolymer. <i>Langmuir</i> , <b>2008</b> , 24, 1600-3	4	21
57	Design and Synthesis of Aviram-Ratner-Type Dyads and Rectification Studies in Langmuir-Blodgett (LB) Films. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 10539-47	4.8	19
56	Synthesis of Well-Defined Dawson-Type Poly(N,N-diethylacrylamide) Organopolyoxometalates. <i>ChemPlusChem</i> , <b>2014</b> , 79, 250-256	2.8	19
55	SECM investigations of immobilized porphyrins films. <i>Langmuir</i> , <b>2010</b> , 26, 14983-9	4	19
54	Electrochemical behavior of the tetracationic porphyrins and. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 635, 20-28	4.1	19

53	Porphyrin Donor and Tunable Push-Pull Acceptor Conjugates-Experimental Investigation of Marcus Theory. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 6357-6369	4.8	18
52	Electrosynthesis and electrochemical properties of porphyrin dimers with pyridinium as bridging spacer. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 2534	3.6	18
51	Cyclic(Alkyl)(Amino)Carbene (CAAC)-Supported Zn Alkyls: Synthesis, Structure and Reactivity in Hydrosilylation Catalysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 8061-8069	4.8	17
50	Electrochemical and electrocatalytical investigations on the trimanganese sandwich complex [NaMn <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> (P <sub>2</sub> W <sub>15</sub> O <sub>56</sub> ) <sub>2</sub> ] <sup>17-</sup> . <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 603, 260-268	4.1	17
49	Ultrafast Singlet Energy Transfer in Porphyrin Dyads. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10329-10336	5.1	17
48	Spectroscopic and electrochemical study of the interconversion and decomplexation of cobalt(II) sandwich polyoxometalates based on a Dawson-type anion. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8202-11	5.1	16
47	An Unprecedented Trinuclear Dawson Sandwich Complex with Internal Lacuna: Synthesis and 31P NMR Spectroscopic Analysis of the Symmetrical [NaNi <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> (P <sub>2</sub> W <sub>15</sub> O <sub>56</sub> ) <sub>2</sub> ] <sup>17-</sup> and [CoNi <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> (P <sub>2</sub> W <sub>15</sub> O <sub>56</sub> ) <sub>2</sub> ] <sup>16-</sup> Anions. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 5004-5009	2.3	16
46	A Highly Stable Organic Radical Cation. <i>Organic Letters</i> , <b>2018</b> , 20, 8004-8008	6.2	15
45	Dinuclear iridium and rhodium complexes with bridging arylimidazolide-N(3),C(2) ligands: synthetic, structural, reactivity, electrochemical and spectroscopic studies. <i>Dalton Transactions</i> , <b>2015</b> , 44, 17030-44	4.3	14
44	Green synthesis of NiO nanoparticles using Nigella sativa extract and their enhanced electro-catalytic activity for the 4-nitrophenol degradation. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 153, 110020	3.9	14
43	Synthesis and characterization of Lindqvist-type polyoxometalate-porphyrin copolymers. <i>Electrochimica Acta</i> , <b>2015</b> , 179, 326-335	6.7	13
42	Photoredox-Switchable Resorcin[4]arene Cavitands: Radical Control of Molecular Gripping Machinery via Hydrogen Bonding. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 1431-1440	4.8	13
41	Polyoxovanadate-iodobodipy supramolecular assemblies: new agents for high efficiency cancer photochemotherapy. <i>Chemical Communications</i> , <b>2020</b> , 56, 2869-2872	5.8	13
40	Study of the temperature-induced aggregation of polyoxometalate-poly(N,N-diethylacrylamide) hybrids in water. <i>Polymer</i> , <b>2015</b> , 57, 173-182	3.9	12
39	An original electrochemical pathway for the synthesis of porphyrin oligomers. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1712-9	4.8	12
38	Ester-Substituted Electron-Poor Alkenes for Cycloaddition-Retroelectrocyclization (CARE) and Related Reactions. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 7264-7275	3.2	12
37	Paramagnetic Molecular Grippers: The Elements of Six-State Redox Switches. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2470-7	6.4	11
36	Push-pull chromophores by reaction of 2,3,5,6-tetrahalo-1,4-benzoquinones with 4-(N,N-dialkylanilino)acetylenes. <i>Tetrahedron</i> , <b>2016</b> , 72, 1213-1224	2.4	11

35	Stable isoporphyrin copolymer: Electrochemical mechanism and behavior and photovoltaic properties. <i>Electrochimica Acta</i> , <b>2019</b> , 309, 432-449	6.7	10
34	Copolymeric films obtained by electropolymerization of porphyrins and dipyrindyl-spacers including Dawson-type polyoxometalates. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 2611-2621	2.6	10
33	Light-Responsive Pyrazine-Based Systems: Probing Aromatic Diarylethene Photocyclization. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19100-19109	3.8	10
32	A Four-Step Synthesis of Substituted 5,11-Dicyano-6,12-diaryltetracenes with Enhanced Stability and High Fluorescence Emission. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 159-168	4.8	10
31	Conjugated hybrid films based on a new polyoxotitanate monomer. <i>Chemical Communications</i> , <b>2018</b> , 54, 14132-14135	5.8	10
30	Flexible Viologen Cyclophanes: Odd/Even Effects on Intramolecular Interactions. <i>ChemPhysChem</i> , <b>2017</b> , 18, 796-803	3.2	8
29	Electrochemical properties of the [SiW <sub>10</sub> O <sub>36</sub> (M <sub>2</sub> O <sub>2</sub> E <sub>2</sub> ) <sub>6</sub> ] polyoxometalate series (M = Mo(V) or W(V); E = S or O). <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1146-1155	3.6	8
28	Alternating electro-copolymerization of zinc-βctaethylporphyrin with a flexible bipyridinium. <i>Electrochimica Acta</i> , <b>2014</b> , 122, 108-117	6.7	8
27	Solution and solid-state 31P NMR study of paramagnetic polyoxometalates. <i>Comptes Rendus Chimie</i> , <b>2008</b> , 11, 415-422	2.7	8
26	Metal Linkage Effects on Ultrafast Energy Transfer. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 10484-93	4.8	8
25	Photovoltaic properties of supramolecular assemblies obtained by incorporation of PreyslerQ type polyoxometalate in a polycationic copolymer of porphyrin. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 177-191	6.7	7
24	Oxidative esterification of alcohols by a single-side organically decorated Anderson-type chrome-based catalyst. <i>Green Chemistry</i> , <b>2021</b> , 23, 2652-2657	10	7
23	Enhancement of PushPull Properties of Pentafulvene and Pentafulvalene Derivatives by Protonation at Carbon. <i>European Journal of Organic Chemistry</i> , <b>2018</b> , 2018, 739-749	3.2	6
22	Light-actuated resorcin[4]arene cavitands. <i>Tetrahedron</i> , <b>2018</b> , 74, 5615-5626	2.4	6
21	An Efficient Electrochromic Supercapacitor Based on Solution-Processable Nanoporous Poly{tris[4-(3,4-ethylenedioxythiophene)phenyl]amine}. <i>ChemSusChem</i> , <b>2020</b> , 13, 3844	8.3	5
20	Directing the solid-state photochromic and luminescent behaviors of spiromolecules with Dawson and Anderson polyoxometalate units. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 637-649	7.1	5
19	Synthesis of Dicyano-Substituted Benzo[c]fluorenes from Tetraaryl[3]cumulenes. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 2919-2924	3.2	5
18	Spectro-electrochemical toolbox for monitoring and controlling quinone-mediated redox-driven molecular gripping. <i>Electrochimica Acta</i> , <b>2019</b> , 313, 544-560	6.7	4

17	Thioether-Functionalized Quinone-Based Resorcin[4]arene Cavitands: Electroswitchable Molecular Actuators. <i>Helvetica Chimica Acta</i> , <b>2019</b> , 102, e1800225	2	4
16	Synthesis of new Mn analogues and their structural, electrochemical and catalytic properties. <i>Dalton Transactions</i> , <b>2019</b> , 48, 4830-4836	4.3	4
15	Sphalerite Cu/ZnS Nanoparticles Derived from Cu/Zn-ZIF-8 for the Photocatalytic Degradation and Adsorption of Dyes. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 1038-1046	2.3	4
14	Synthesis and Characterization of Neutral and Cationic Magnesium Complexes Supported by NHC Ligands. <i>Organometallics</i> , <b>2019</b> , 38, 2748-2757	3.8	4
13	Photocatalytic Reduction of Ag <sub>2</sub> SO <sub>4</sub> by Dawson-Derived Sandwich Complex. <i>Macromolecular Symposia</i> , <b>2008</b> , 270, 117-122	0.8	4
12	Fluorinated Oleophilic Electrochromic Copolymer Based on 3-(N-Trifluoroacetamido)thiophene and 3,4-Ethylenedioxythiophene (EDOT). <i>ChemElectroChem</i> , <b>2020</b> , 7, 3038-3043	4.3	3
11	Oxidation of Porphyrins in the Presence of Nucleophiles: From the Synthesis of Multisubstituted Porphyrins to the Electropolymerization of the Macrocycles <b>2011</b> ,		3
10	Photocurrent generation from visible light irradiation of covalent polyoxometalate-porphyrin copolymers. <i>Electrochimica Acta</i> , <b>2021</b> , 368, 137635	6.7	3
9	A 3D electropolymerized thin film based on an isoporphyrin and on a pyridine end-decorated molybdenum(II) halide cluster: Photoelectrochemical and impedance properties. <i>Electrochimica Acta</i> , <b>2021</b> , 388, 138493	6.7	3
8	Electronic and magnetic interactions in diporphyrinylamines. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2016</b> , 20, 1233-1243	1.8	2
7	Electrosynthesis of Oligo- and Polyporphyrins Based on Oxidative Coupling of Macrocycles <b>2016</b> , 395-432		2
6	Recycling Iron-Containing Sludges from the Electroflocculation of Printing and Dyeing Wastewater into Anode Materials for Lithium-Ion Batteries. <i>ChemSusChem</i> , <b>2020</b> , 13, 3469-3478	8.3	2
5	Enhancement of photocurrent by incorporation of Preyssler type polyoxometalate protected nanoparticles in polyporphyrin films. <i>Chemical Communications</i> , <b>2021</b> , 57, 1482-1485	5.8	2
4	Electrosynthesis Processes Based on Oxidative Couplings of Porphyrins for the Formation of Supramolecular Assemblies. <i>Handbook of Porphyrin Science</i> , <b>2014</b> , 127-171	0.3	1
3	Fate of Cobaltacycles in Cp*Co-Mediated C-H Bond Functionalization Catalysis: Cobaltacycles May Collapse upon Oxidation via Co(IV) Species. <i>Organometallics</i> , <b>2021</b> , 40, 2624-2642	3.8	1
2	Porphyrins and Polyoxometalate Scaffolds. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 16071-16081	4.8	1
1	Synthesis and Characterization of Bisthiénylene-Porphyrin Photoswitchable Copolymers. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 6636	3.2	