

Pierre Mialane

List of Publications by Year in descending order

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36
papers

3,394
citations

218677

26
h-index

345221

36
g-index

36
all docs

36
docs citations

36
times ranked

3174
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Organic-Inorganic Polyoxometalate Compounds: From Structural Diversity to Applications. <i>Chemical Reviews</i> , 2010, 110, 6009-6048.	47.7	1,583
2	Polyoxometalate-based materials for efficient solar and visible light harvesting: application to the photocatalytic degradation of azo dyes. <i>Journal of Materials Chemistry</i> , 2012, 22, 24509.	6.7	190
3	Heterogenisation of polyoxometalates and other metal-based complexes in metal-organic frameworks: from synthesis to characterisation and applications in catalysis. <i>Chemical Society Reviews</i> , 2021, 50, 6152-6220.	38.1	164
4	Co-immobilization of a Rh Catalyst and a Keggin Polyoxometalate in the UiO-67 Zr-Based Metal-Organic Framework: In Depth Structural Characterization and Photocatalytic Properties for CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 9428-9438.	13.7	138
5	Immobilization of polyoxometalates in the Zr-based metal organic framework UiO-67. <i>Chemical Communications</i> , 2015, 51, 2972-2975.	4.1	96
6	Polyoxometalates Functionalized by Bisphosphonate Ligands: Synthesis, Structural, Magnetic, and Spectroscopic Characterizations and Activity on Tumor Cell Lines. <i>Inorganic Chemistry</i> , 2012, 51, 7921-7931.	4.0	74
7	Hexa- and Dodecanuclear Polyoxomolybdate Cyclic Compounds: Application toward the Facile Synthesis of Nanoparticles and Film Electrodeposition. <i>Chemistry - A European Journal</i> , 2009, 15, 733-741.	3.3	72
8	Photo- and electrochromic properties of covalently connected symmetrical and unsymmetrical spiropyran-polyoxometalate dyads. <i>Chemical Communications</i> , 2012, 48, 12103.	4.1	72
9	Tetra- to Dodecanuclear Oxomolybdate Complexes with Functionalized Bisphosphonate Ligands: Activity in Killing Tumor Cells. <i>Chemistry - A European Journal</i> , 2010, 16, 13741-13748.	3.3	70
10	A Stable Hybrid Bisphosphonate Polyoxometalate Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , 2012, 18, 3845-3849.	3.3	70
11	Synthesis of various crystalline gold nanostructures in water: The polyoxometalate $[H_4PMo_{12}O_{40}]^{3-}$ as the reducing and stabilizing agent. <i>Journal of Materials Chemistry</i> , 2009, 19, 8639.	6.7	65
12	Photochromism and Dual-Color Fluorescence in a Polyoxometalate-Benzospiropyran Molecular Switch. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4872-4876.	13.8	64
13	Dual Photochromic/Electrochromic Compounds Based On Cationic Spiroyrans and Polyoxometalates. <i>Chemistry - A European Journal</i> , 2010, 16, 5572-5576.	3.3	63
14	MoV/Pyrophosphate Polyoxometalate: An Inorganic Cryptate. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2808-2810.	13.8	58
15	Functionalized polyoxometalates with intrinsic photochromic properties and their association with spiropyran cations. <i>Chemical Communications</i> , 2010, 46, 7733.	4.1	55
16	An unprecedented $\{Ni_{14}SiW_9\}$ hybrid polyoxometalate with high photocatalytic hydrogen evolution activity. <i>Chemical Communications</i> , 2019, 55, 4166-4169.	4.1	51
17	A high fatigue resistant, photoswitchable fluorescent spiropyran-polyoxometalate-BODIPY single-molecule. <i>Chemical Communications</i> , 2015, 51, 16088-16091.	4.1	49
18	New photoresponsive charge-transfer spiropyran/polyoxometalate assemblies with highly tunable optical properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1628.	5.5	48

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19	Polyoxomolybdate Bisphosphonate Heterometallic Complexes: Synthesis, Structure, and Activity on a Breast Cancer Cell Line. <i>Chemistry - A European Journal</i> , 2015, 21, 10537-10547.	3.3	43
20	Design and optical investigations of a spironaphthoxazine/polyoxometalate/spiropyran triad. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4748-4758.	5.5	41
21	Photochromic Properties of Polyoxotungstates with Grafted Spiropyran Molecules. <i>Inorganic Chemistry</i> , 2013, 52, 11156-11163.	4.0	38
22	Temperature sensors based on europium polyoxometalate and mesoporous terbium metal-organic framework. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8323-8328.	5.5	38
23	Properties of a Tunable Multinuclear Nickel Polyoxotungstate Platform. <i>Chemistry - A European Journal</i> , 2013, 19, 6753-6765.	3.3	37
24	Heteroanionic Materials Based on Copper Clusters, Bisphosphonates, and Polyoxometalates: Magnetic Properties and Comparative Electrocatalytic NO _x Reduction Studies. <i>Inorganic Chemistry</i> , 2016, 55, 1551-1561.	4.0	37
25	A Multifunctional Dual-Luminescent Polyoxometalate@Metal-Organic Framework EuW10@UiO-67 Composite as Chemical Probe and Temperature Sensor. <i>Frontiers in Chemistry</i> , 2018, 6, 425.	3.6	31
26	Sequential Synthesis of 3d, 3d, and 3d Hybrid Polyoxometalates and Application to the Electrocatalytic Oxygen Reduction Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 12153-12160.	3.3	26
27	Cobalt based water oxidation catalysis with photogenerated Ru(bpy) ₃ ³⁺ : Different kinetics and competent species starting from a molecular polyoxometalate and metal oxide nanoparticles capped with a bisphosphonate alendronate pendant. <i>Catalysis Today</i> , 2017, 290, 39-50.	4.4	20
28	Directing the solid-state photochromic and luminescent behaviors of spiromolecules with Dawson and Anderson polyoxometalate units. <i>Journal of Materials Chemistry C</i> , 2020, 8, 637-649.	5.5	16
29	Gold/Polyoxometalate Core/Shell Nanoparticles for Combined Chemotherapy-Photothermal Cancer Therapy. <i>ACS Applied Nano Materials</i> , 2021, 4, 2339-2344.	5.0	15
30	One-pot synthesis of a new generation of hybrid bisphosphonate polyoxometalate gold nanoparticles as antibiofilm agents. <i>Nanoscale Advances</i> , 2019, 1, 3400-3405.	4.6	14
31	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8419-8424.	13.8	13
32	Proton coupled electron transfer from Co ₃ O ₄ nanoparticles to photogenerated Ru(bpy) ₃ ³⁺ : base catalysis and buffer effect. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1951-1956.	4.9	12
33	Influence of electronic vs. steric factors on the solid-state photochromic performances of new polyoxometalate/spiropoxazine and spiropyran hybrid materials. <i>RSC Advances</i> , 2015, 5, 79635-79643.	3.6	10
34	Photochromism and Dual-Color Fluorescence in a Polyoxometalate-Benzospiropyran Molecular Switch. <i>Angewandte Chemie</i> , 2017, 129, 4950-4954.	2.0	10
35	Photoactive Polyoxometalate/DASA Covalent Hybrids for Photopolymerization in the Visible Range. <i>Chemistry - A European Journal</i> , 2019, 25, 14349-14357.	3.3	8
36	Photoactive Organic/Inorganic Hybrid Materials with Nanosegregated Donor-Acceptor Arrays. <i>Angewandte Chemie</i> , 2021, 133, 8500-8505.	2.0	3