

HÃ©lÃ¨ne Serier

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,131
citations

430874

18
h-index

395702

33
g-index

51
all docs

51
docs citations

51
times ranked

1656
citing authors

#	ARTICLE	IF	CITATIONS
1	Al-doped ZnO powdered materials: Al solubility limit and IR absorption properties. <i>Solid State Sciences</i> , 2009, 11, 1192-1197.	3.2	121
2	Fluoride materials for optical applications: Single crystals, ceramics, glasses, and glass-ceramics. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 1165-1173.	1.7	105
3	Engineering of Mixed Eu ³⁺ /Tb ³⁺ Metal-Organic Frameworks Luminescent Thermometers with Tunable Sensitivity. <i>Advanced Optical Materials</i> , 2021, 9, 2001938.	7.3	89
4	Macroscopic Fibers of Oriented Vanadium Oxide Ribbons and Their Application as Highly Sensitive Alcohol Microsensors. <i>Advanced Materials</i> , 2005, 17, 2970-2974.	21.0	69
5	Synthesis and Photoluminescence Properties of Ca ₂ Ga ₂ SiO ₇ :Eu ³⁺ Red Phosphors with an Intense ⁵ D ₀ → ⁷ F ₄ Transition. <i>Inorganic Chemistry</i> , 2016, 55, 9144-9146.	4.0	65
6	Ratiometric mixed Eu-Tb metal-organic framework as a new cryogenic luminescent thermometer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10933-10937.	5.5	55
7	A high fatigue resistant, photoswitchable fluorescent spiropyran-polyoxometalate-BODIPY single-molecule. <i>Chemical Communications</i> , 2015, 51, 16088-16091.	4.1	49
8	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
9	Designing the Width and Texture of Vanadium Oxide Macroscopic Fibers: Towards Tuning Mechanical Properties and Alcohol-Sensing Performance. <i>Advanced Functional Materials</i> , 2006, 16, 1745-1753.	14.9	41
10	Thermochromism in Yttrium Iron Garnet Compounds. <i>Inorganic Chemistry</i> , 2014, 53, 12378-12383.	4.0	40
11	Wet-Route Synthesis and Characterization of Yb:CaF ₂ Optical Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1992-2000.	3.8	39
12	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
13	Oxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel Mg(Mg,Sn)O ₄ . <i>Chemistry of Materials</i> , 2017, 29, 1069-1075.	6.7	36
14	Investigation of Ga Substitution in ZnO Powder and Opto-Electronic Properties. <i>Inorganic Chemistry</i> , 2010, 49, 6853-6858.	4.0	31
15	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
16	Structural features of zinc hydroxyfluoride. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3485-3492.	2.9	25
17	A Chemical Route Towards Single-Phase Materials with Controllable Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11501-11503.	13.8	25
18	The design of new photochromic polymers incorporating covalently or ionically linked spiropyran/polyoxometalate hybrids. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6343-6351.	5.5	21

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19	Drastic solid-state luminescence color tuning of an archetypal Ir(III) complex using polyoxometalates and its application as a vapoluminescence chemosensor. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11392-11395.	5.5	18
20	Dilute magnetic semi-conductor properties of Ga/Al/Co-codoped ZnO oxides. <i>Materials Research Bulletin</i> , 2012, 47, 755-762.	5.2	17
21	Directing the solid-state photochromic and luminescent behaviors of spiro molecules with Dawson and Anderson polyoxometalate units. <i>Journal of Materials Chemistry C</i> , 2020, 8, 637-649.	5.5	16
22	Controlling Photooxygenation with a Bifunctional Quinine-BODIPY Catalyst: towards Asymmetric Hydroxylation of α,β -Dicarbonyl Compounds. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6352-6358.	2.4	15
23	Strong Solid-State Luminescence Enhancement in Supramolecular Assemblies of Polyoxometalate and α -Aggregation-Induced Emission-Active Phospholium. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1642-1646.	3.3	15
24	Coupling of high-quality-factor optical resonators. <i>Physica Scripta</i> , 2013, T157, 014024.	2.5	13
25	Infrared absorptive properties of Al-doped ZnO divided powder. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1523-1529.	2.9	10
26	Fully Oxidized and Mixed-Valent Polyoxomolybdates Structured by Bisphosphonates with Pendant Pyridine Groups: Synthesis, Structure and Photochromic Properties. <i>Inorganics</i> , 2015, 3, 279-294.	2.7	10
27	Influence of electronic vs. steric factors on the solid-state photochromic performances of new polyoxometalate/spirooxazine and spiropyran hybrid materials. <i>RSC Advances</i> , 2015, 5, 79635-79643.	3.6	10
28	Surface modification of phyllosilicate minerals by fluorination methods. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 373-381.	2.1	9
29	High-gain wavelength-selective amplification and cavity ring down spectroscopy in a fluoride glass erbium-doped microsphere. <i>Optics Letters</i> , 2012, 37, 4735.	3.3	8
30	Plasmonic properties of an $\text{Ag}@ \text{Ag}_2\text{Mo}_2\text{O}_7$ hybrid nanostructure easily designed by solid-state photodeposition from very thin $\text{Ag}_2\text{Mo}_2\text{O}_7$ nanowires. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11086-11095.	5.5	8
31	Integrative chemistry portfolio toward designing and tuning vanadium oxide macroscopic fibers sensing and mechanical properties. <i>Comptes Rendus Chimie</i> , 2010, 13, 154-166.	0.5	7
32	Properties and high-pressure behavior of a ternary lead oxide Pb_2MnO_4 . <i>Solid State Sciences</i> , 2011, 13, 326-330.	3.2	6
33	New Robust Luminescent Supramolecular Assemblies Based on $[\text{Ln}(\text{Mo}_8\text{O}_{26})_2]^{5+}$ ($\text{Ln} = \text{Eu}, \text{Sm}$) Polyoxometalates. <i>Inorganic Chemistry</i> , 2019, 58, 16322-16325.	4.0	5
34	Enhanced reversible solid-state photoswitching of a cationic dithienylethene assembled with a polyoxometalate unit. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13072-13076.	5.5	5
35	Polymorphism and Structural Filiations in Five New Organic-Inorganic Hybrid Salts of the Heteroleptic Cationic Iridium(III) Complex and Polyoxometalates. <i>Crystal Growth and Design</i> , 2018, 18, 7426-7434.	3.0	4
36	Substrate-Selectivity in Catalytic Photooxygenation Processes Using a Quinine-BODIPY System. <i>Synlett</i> , 2020, 31, 463-468.	1.8	4

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37	Tailoring the Solid-State Fluorescence of BODIPY by Supramolecular Assembly with Polyoxometalates. <i>Inorganic Chemistry</i> , 2021, 60, 12602-12609.	4.0	4
38	Stabilization of U^{2+} -octamolybdate with large counterions. <i>Journal of Molecular Structure</i> , 2017, 1141, 698-702.	3.6	3
39	Lanthanide Isophthalate Metal-Organic Frameworks: Crystal Structure, Thermal Behavior, and White Luminescence. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 398-404.	2.0	3
40	Microwave-assisted synthesis of anhydrous lanthanide-based coordination polymers built upon benzene-1,2,4,5-tetracarboxylic acid. <i>Polyhedron</i> , 2021, 204, 115261.	2.2	2
41	Combining Sol-Gel Chemistry and Extrusion Process Toward Generating First Vanadium Oxide Macroscopic Fibers. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	1
42	Microwave-assisted synthesis to prepare metal-organic framework for luminescence thermometry. <i>Journal of Solid State Chemistry</i> , 2022, 312, 123183.	2.9	1
43	Integrative Chemistry Toward Designing Polyvinyl Alcohol/Poly-aniline/Vanadium Oxide Nanocomposite-based Macroscopic Fibers: 1D-Highly Sensitive Alcohol Sensors Bearing Enhanced Toughness. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1135, 31101.	0.1	0
44	High gain selective amplification in whispering gallery mode resonators: analysis by cavity ring down method. , 2013, , .		0
45	Synthesis and Characterization of F^{-} -Doped Zinc Oxides, Al-Doped Zinc Hydroxyfluoride, and Oxide-Fluoride Composites for Transparent Visible/Infrared Absorbers. , 2016, , 89-112.		0
46	Reply to Comment on "Oxygen-Vacancy-Induced Midgap States Responsible for the Fluorescence and the Long-Lasting Phosphorescence of the Inverse Spinel $\text{Mg}(\text{Mg},\text{Sn})\text{O}_4$ ". <i>Chemistry of Materials</i> , 2020, 32, 7568-7568.	6.7	0
47	Microwave-Assisted Synthesis to Prepare Metal-Organic Framework for Luminescence Thermometry. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0