

Xiaowang Liu

List of Publications by Year in descending order

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papers

2,719
citations

304743

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017, 117, 4488-4527.	47.7	702
2	Magnetic Chitosan Nanocomposites: A Useful Recyclable Tool for Heavy Metal Ion Removal. <i>Langmuir</i> , 2009, 25, 3-8.	3.5	480
3	Binary temporal upconversion codes of Mn ²⁺ -activated nanoparticles for multilevel anti-counterfeiting. <i>Nature Communications</i> , 2017, 8, 899.	12.8	290
4	Probing the nature of upconversion nanocrystals: instrumentation matters. <i>Chemical Society Reviews</i> , 2015, 44, 1479-1508.	38.1	176
5	Aligned ZnO nanorods: A useful film to fabricate amperometric glucose biosensor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 154-158.	5.0	84
6	Thiazole derivative-modified upconversion nanoparticles for Hg ²⁺ detection in living cells. <i>Nanoscale</i> , 2016, 8, 276-282.	5.6	82
7	Recent Development in X-Ray Imaging Technology: Future and Challenges. <i>Research</i> , 2021, 2021, 9892152.	5.7	65
8	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13312-13317.	13.8	64
9	Cobalt Single-Atom-Intercalated Molybdenum Disulfide for Sulfide Oxidation with Exceptional Chemoselectivity. <i>Advanced Materials</i> , 2020, 32, e1906437.	21.0	62
10	Self-assembly of colloidal inorganic nanocrystals: nanoscale forces, emergent properties and applications. <i>Chemical Society Reviews</i> , 2021, 50, 2074-2101.	38.1	54
11	Carboxyl Enriched Monodisperse Porous Fe ₃ O ₄ Nanoparticles with Extraordinary Sustained-Release Property. <i>Langmuir</i> , 2009, 25, 7244-7248.	3.5	53
12	Ultrastable and efficient H ₂ production <i>via</i> membrane-free hybrid water electrolysis over a bifunctional catalyst of hierarchical Mo-Ni alloy nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16501-16507.	10.3	49
13	The Design and Bioimaging Applications of NIR Fluorescent Organic Dyes with High Brightness. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	45
14	Bimetallic Nanoparticles: Kinetic Control Matters. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3311-3313.	13.8	43
15	Colloidal Synthesis of Mo-Ni Alloy Nanoparticles as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800359.	3.7	42
16	Dual-Mode Long-Lived Luminescence of Mn ²⁺ -Doped Nanoparticles for Multilevel Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30146-30153.	8.0	42
17	SiO ₂ -Encompassed Co@N-Doped Porous Carbon Assemblies as Recyclable Catalysts for Efficient Hydrolysis of Ammonia Borane. <i>Langmuir</i> , 2019, 35, 671-677.	3.5	40
18	Hedgehog-Like Upconversion Crystals: Controlled Growth and Molecular Sensing at Single-Particle Level. <i>Advanced Materials</i> , 2017, 29, 1702315.	21.0	38

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19	Cu ₂ O microcrystals: a versatile class of self-templates for the synthesis of porous Au nanocages with various morphologies. RSC Advances, 2011, 1, 1119.	3.6	30
20	Pd@ZnO nanowire arrays as recyclable catalysts for 4-nitrophenol reduction and Suzuki coupling reactions. RSC Advances, 2017, 7, 7964-7972.	3.6	29
21	Tuning Long-Lived Mn(II) Upconversion Luminescence through Alkaline-Earth Metal Doping and Energy-Level Tailoring. Advanced Optical Materials, 2019, 7, 1900519.	7.3	24
22	Ag ₁ Pd ₁ Nanoparticles@Reduced Graphene Oxide as a Highly Efficient and Recyclable Catalyst for Direct Aryl C-H Olefination. Chemistry - A European Journal, 2017, 23, 17659-17662.	3.3	23
23	Enhancing Electrochemical Hydrogen Evolution Performance of CoMoO ₄ -Based Microrod Arrays in Neutral Media through Alkaline Activation. ACS Applied Materials & Interfaces, 2020, 12, 30905-30914.	8.0	22
24	A General Strategy for Hollow Metal-Phytate Coordination Complex Micropolyhedra Enabled by Cation Exchange. Angewandte Chemie - International Edition, 2020, 59, 20988-20995.	13.8	21
25	Core-shell N-doped carbon spheres for high-performance supercapacitors. Journal of Materials Science, 2017, 52, 9673-9682.	3.7	19
26	Dynamic isomers engaged fabrication of copper sulfide rattle-type structures and their optoelectronic properties. CrystEngComm, 2011, 13, 5653.	2.6	17
27	A facile approach for synthesizing Fe-based layered double hydroxides with high purity and its exfoliation. Journal of Colloid and Interface Science, 2016, 467, 28-34.	9.4	15
28	Detection of catechin in Chinese green teas at N-doped carbon-modified electrode. Ionics, 2017, 23, 1889-1895.	2.4	13
29	Enantiospecific Detection of Amino Acid through Synergistic Upconversion Energy Transfer. Angewandte Chemie - International Edition, 2021, 60, 19648-19652.	13.8	13
30	Ethylenediamine inducing growth of {100} facets exposed PbS nanosheets. Crystal Research and Technology, 2012, 47, 635-642.	1.3	12
31	Static pressure-induced neural differentiation of mesenchymal stem cells. Nanoscale, 2017, 9, 10031-10037.	5.6	9
32	Simultaneous and Reversible Triggering of the Phase Transfer and Luminescence Change of Amidine-Modified Carbon Dots by CO ₂ . ACS Applied Materials & Interfaces, 2019, 11, 22851-22857.	8.0	7
33	Tuning Luminescence of Lanthanide-Doped Upconversion Nanoparticles through Simultaneous Binary Cation Exchange. ACS Applied Materials & Interfaces, 2022, 14, 10947-10954.	8.0	7
34	A general and rapid approach to hybrid metal nanoparticle@ZnO nanowire arrays and their use as active substrates for surface-enhanced Raman scattering detection. RSC Advances, 2016, 6, 1542-1548.	3.6	6
35	A General Strategy for Hollow Metal-Phytate Coordination Complex Micropolyhedra Enabled by Cation Exchange. Angewandte Chemie, 2020, 132, 21174-21181.	2.0	6
36	Water Splitting Catalysts: Colloidal Synthesis of Mo-Ni Alloy Nanoparticles as Bifunctional Electrocatalysts for Efficient Overall Water Splitting (Adv. Mater. Interfaces 13/2018). Advanced Materials Interfaces, 2018, 5, 1870063.	3.7	4

#	ARTICLE	IF	CITATIONS
37	Enantiospecific Detection of Dâ€Amino Acid through Synergistic Upconversion Energy Transfer. Angewandte Chemie, 2021, 133, 19800-19804.	2.0	2