

Xiaogang Liu

List of Publications by Year in descending order

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papers

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citations

147801

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docs citations

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times ranked

8644
citing authors

#	ARTICLE	IF	CITATIONS
1	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93.	27.8	1,274
2	Controlling upconversion nanocrystals for emerging applications. <i>Nature Nanotechnology</i> , 2015, 10, 924-936.	31.5	1,221
3	Temporal full-colour tuning through non-steady-state upconversion. <i>Nature Nanotechnology</i> , 2015, 10, 237-242.	31.5	834
4	Advances in highly doped upconversion nanoparticles. <i>Nature Communications</i> , 2018, 9, 2415.	12.8	793
5	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017, 117, 4488-4527.	47.7	702
6	Preparation of core-shell NaGdF ₄ nanoparticles doped with luminescent lanthanide ions to be used as upconversion-based probes. <i>Nature Protocols</i> , 2014, 9, 1634-1644.	12.0	501
7	Rare-Earth Doping in Nanostructured Inorganic Materials. <i>Chemical Reviews</i> , 2022, 122, 5519-5603.	47.7	338
8	Instantaneous ballistic velocity of suspended Brownian nanocrystals measured by upconversion nanothermometry. <i>Nature Nanotechnology</i> , 2016, 11, 851-856.	31.5	292
9	Remote manipulation of upconversion luminescence. <i>Chemical Society Reviews</i> , 2018, 47, 6473-6485.	38.1	210
10	Electroluminescence from europium(III) complexes. <i>Coordination Chemistry Reviews</i> , 2015, 293-294, 228-249.	18.8	189
11	Activating Antitumor Immunity and Antimetastatic Effect Through Polydopamine-Encapsulated Core-Shell Upconversion Nanoparticles. <i>Advanced Materials</i> , 2019, 31, e1905825.	21.0	179
12	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. <i>Nature Communications</i> , 2016, 7, 13059.	12.8	164
13	Remote C-H Activation of Quinolines through Copper-Catalyzed Radical Cross-Coupling. <i>Chemistry - an Asian Journal</i> , 2016, 11, 882-892.	3.3	130
14	Upconversion superburst with sub-1/4s lifetime. <i>Nature Nanotechnology</i> , 2019, 14, 1110-1115.	31.5	130
15	Energy-Transfer Editing in Lanthanide-Activated Upconversion Nanocrystals: A Toolbox for Emerging Applications. <i>ACS Central Science</i> , 2019, 5, 29-42.	11.3	127
16	Rewritable Optical Memory Through High-Registry Orthogonal Upconversion. <i>Advanced Materials</i> , 2018, 30, e1801726.	21.0	124
17	Lanthanide-Activated Nanoparticles: A Toolbox for Bioimaging, Therapeutics, and Neuromodulation. <i>Accounts of Chemical Research</i> , 2020, 53, 2692-2704.	15.6	123
18	Expanding the Toolbox of Upconversion Nanoparticles for In Vivo Optogenetics and Neuromodulation. <i>Advanced Materials</i> , 2019, 31, e1803474.	21.0	118

#	ARTICLE	IF	CITATIONS
19	Unraveling Epitaxial Habits in the NaLnF ₄ System for Color Multiplexing at the Single-Particle Level. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5718-5722.	13.8	83
20	Spectral converters for photovoltaics – What’s ahead. <i>Materials Today</i> , 2020, 33, 105-121.	14.2	83
21	Energy Flux Manipulation in Upconversion Nanosystems. <i>Accounts of Chemical Research</i> , 2019, 52, 228-236.	15.6	82
22	Anomalous upconversion amplification induced by surface reconstruction in lanthanide sublattices. <i>Nature Photonics</i> , 2021, 15, 732-737.	31.4	77
23	Unraveling Epitaxial Habits in the NaLnF ₄ System for Color Multiplexing at the Single-Particle Level. <i>Angewandte Chemie</i> , 2016, 128, 5812-5816.	2.0	72
24	Self-assembly of colloidal inorganic nanocrystals: nanoscale forces, emergent properties and applications. <i>Chemical Society Reviews</i> , 2021, 50, 2074-2101.	38.1	54
25	Surface Plasmon-Photon Coupling in Lanthanide-Doped Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1520-1541.	4.6	52
26	Improving Cancer Immunotherapy Outcomes Using Biomaterials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17332-17343.	13.8	48
27	High-Specificity In Vivo Tumor Imaging Using Bioorthogonal NIR-II Nanoparticles. <i>Advanced Materials</i> , 2021, 33, e2102950.	21.0	46
28	Subwavelength imaging through ion-beam-induced upconversion. <i>Nature Communications</i> , 2015, 6, 8832.	12.8	38
29	Hedgehog-Like Upconversion Crystals: Controlled Growth and Molecular Sensing at Single-Particle Level. <i>Advanced Materials</i> , 2017, 29, 1702315.	21.0	38
30	Dynamic upconversion multicolour editing enabled by molecule-assisted opto-electrochemical modulation. <i>Nature Communications</i> , 2021, 12, 2022.	12.8	36
31	Designing Upconversion Nanocrystals Capable of 745-nm Sensitization and 803-nm Emission for Deep-Tissue Imaging. <i>Chemistry - A European Journal</i> , 2016, 22, 10801-10807.	3.3	34
32	Photo-Induced Cross-Dehydrogenative Alkylation of Heteroarenes with Alkanes under Aerobic Conditions. <i>Journal of Organic Chemistry</i> , 2021, 86, 17816-17832.	3.2	32
33	Expanding the toolbox for lanthanide-doped upconversion nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 383002.	2.8	27
34	Suppression of Defect-Induced Quenching via Chemical Potential Tuning: A Theoretical Solution for Enhancing Lanthanide Luminescence. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11151-11161.	3.1	26
35	Oxidative Sulfonylation of Hydrazones Enabled by Synergistic Copper/Silver Catalysis. <i>Journal of Organic Chemistry</i> , 2021, 86, 3706-3720.	3.2	19
36	Lanthanide-doped nanoparticles in photovoltaics – more than just upconversion. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16110-16131.	5.5	19

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37	Enantiospecific Detection of D-Aspartic Acid through Synergistic Upconversion Energy Transfer. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19648-19652.	13.8	13
38	Upconverting Nanorockers for Intracellular Viscosity Measurements During Chemotherapy. <i>Advanced Biology</i> , 2019, 3, e1900082.	3.0	12
39	Improving Cancer Immunotherapy Outcomes Using Biomaterials. <i>Angewandte Chemie</i> , 2020, 132, 17484-17495.	2.0	12
40	Noninvasive Manipulation of Ion Channels for Neuromodulation and Theranostics. <i>Accounts of Materials Research</i> , 2022, 3, 247-258.	11.7	11
41	Plasmonic bimetallic nanodisk arrays for DNA conformation sensing. <i>Nanoscale</i> , 2019, 11, 19291-19296.	5.6	10
42	Photolithographic Fabrication of Upconversion Barcodes for Multiplexed Molecular Detection. <i>Advanced Optical Materials</i> , 2020, 8, 2001168.	7.3	8
43	(INVITED) Opposing effects of energy migration and cross-relaxation on surface sensitivity of lanthanide-doped nanocrystals. <i>Optical Materials: X</i> , 2021, 12, 100104.	0.8	3
44	Enantiospecific Detection of D-Aspartic Acid through Synergistic Upconversion Energy Transfer. <i>Angewandte Chemie</i> , 2021, 133, 19800-19804.	2.0	2