Liangliang Liang

List of Publications by Year
in descending order

41 papers	3,580 citations	236612 25 h-index	276539 41 g-index
43 all docs	43 docs citations	43 times ranked	5019 citing authors

#	Article	IF	Citations
1	Uncovering the Metabolic Origin of Aspartate for Tumor Growth Using an Integrated Molecular Deactivator. Nano Letters, 2021, 21, 778-784.	4.5	13
2	Lanthanide-doped nanoparticles in photovoltaics â€“ more than just upconversion. Journal of Materials Chemistry C, 2021, 9, 16110-16131.	2.7	19
3	Multiphoton Upconversion Enhanced by Deep Subwavelength Near-Field Confinement. Nano Letters, 2021, 21, 3044-3051.	4.5	48
4	Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. Nature Nanotechnology, 2021, 16, 975-980.	15.6	50
5	Photon upconversion through triplet exciton-mediated energy relay. Nature Communications, 2021, 12, 3704.	5.8	38
6	(INVITED) Opposing effects of energy migration and cross-relaxation on surface sensitivity of lanthanide-doped nanocrystals. Optical Materials: X, 2021, 12, 100104.	0.3	3
7	Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7â€Fold to 8â€Fold Interpenetrated Metalâ€“Organic Frameworks (MOFs). Angewandte Chemie, 2020, 132, 843-848.	1.6	36
8	Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7â€Fold to 8â€Fold Interpenetrated Metalâ€“Organic Frameworks (MOFs). Angewandte Chemie - International Edition, 2020, 59, 833-838.	7.2	52
9	Designing Subâ€2â€…nm Organosilica Nanohybrids for Farâ€Field Superâ€Resolution Imaging. Angewandte Chemie, 2020, 132, 756-761.	1.6	3
10	Designing Subâ€2â€…nm Organosilica Nanohybrids for Farâ€Field Superâ€Resolution Imaging. Angewandte Chemie - International Edition, 2020, 59, 746-751.	7.2	19
11	InnenrÃ¼cktitelbild: Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7â€Fold to 8â€Fold Interpenetrated Metalâ€“Organic Frameworks (MOFs) (Angew. Chem. 2/2020). Angewandte Chemie, 2020, 132, 971-971.	1.6	0
12	Upconversion Nanoparticle Powered Microneedle Patches for Transdermal Delivery of siRNA. Advanced Healthcare Materials, 2020, 9, e1900635.	3.9	57
13	Delicate manipulation of cobalt oxide nanodot clusterization on binder-free TiO2-nanorod photoanodes for efficient photoelectrochemical catalysis. Journal of Alloys and Compounds, 2020, 820, 153139.	2.8	5
14	Architecting epitaxial-lattice-mismatch-free (LMF) zinc oxide/bismuth oxyiodide nano-heterostructures for efficient photocatalysis. Journal of Materials Chemistry C, 2020, 8, 11263-11273.	2.7	19
15	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979.	7.3	30
16	Upconverting Nanorockers for Intracellular Viscosity Measurements During Chemotherapy. Advanced Biology, 2019, 3, e1900082.	3.0	12
17	Laserâ€Splashed Plasmonic Nanocrater for Ratiometric Upconversion Regulation and Encryption. Advanced Optical Materials, 2019, 7, 1900610.	3.6	19
18	Upconversion amplification through dielectric superlensing modulation. Nature Communications, 2019, 10, 1391.	5.8	114

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19	Suppression of Defect-Induced Quenching via Chemical Potential Tuning: A Theoretical Solution for Enhancing Lanthanide Luminescence. Journal of Physical Chemistry C, 2019, 123, 11151-11161.	1.5	26
20	Upconversion superburst with sub-2â€‰Î¼s lifetime. Nature Nanotechnology, 2019, 14, 1110-1115.	15.6	130
21	Energy Flux Manipulation in Upconversion Nanosystems. Accounts of Chemical Research, 2019, 52, 228-236.	7.6	82
22	Efficient nano-regional photocatalytic heterostructure design via the manipulation of reaction site self-quenching effect. Applied Catalysis B: Environmental, 2019, 243, 220-228.	10.8	19
23	Nanocrystals feel the heat. Nature Photonics, 2018, 12, 124-125.	15.6	34
24	Lightâ€Activated Upconverting Spinners. Advanced Optical Materials, 2018, 6, 1800161.	3.6	13
25	All-inorganic perovskite nanocrystal scintillators. Nature, 2018, 561, 88-93.	13.7	1,274
26	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Singleâ€Walled Carbon Nanotubes. Advanced Materials, 2017, 29, 1602432.	11.1	106
27	Confining Excitation Energy in Er³⁺â€Sensitized Upconversion Nanocrystals through Tm³⁺â€Mediated Transient Energy Trapping. Angewandte Chemie - International Edition, 2017, 56, 7605-7609.	7.2	259
28	Confining Excitation Energy in Er³⁺â€Sensitized Upconversion Nanocrystals through Tm³⁺â€Mediated Transient Energy Trapping. Angewandte Chemie, 2017, 129, 7713-7717.	1.6	56
29	STED Nanoscopy Goes Low Power. CheM, 2017, 2, 331-333.	5.8	6
30	Binary temporal upconversion codes of Mn2+-activated nanoparticles for multilevel anti-counterfeiting. Nature Communications, 2017, 8, 899.	5.8	290
31	Designing Upconversion Nanocrystals Capable of 745â€…nm Sensitization and 803â€…nm Emission for Deepâ€Tissue Imaging. Chemistry - A European Journal, 2016, 22, 10801-10807.	1.7	34
32	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. Nature Communications, 2016, 7, 13059.	5.8	164
33	A novel glowing electrolyte based on perylene accompany with spectrum compensation function for efficient dye sensitized solar cells. Journal of Power Sources, 2015, 280, 430-434.	4.0	8
34	Constructing hierarchical fastener-like spheres from anatase TiO2 nanosheets with exposed {001} facets for high-performance dye-sensitized solar cells. Journal of Power Sources, 2014, 262, 86-92.	4.0	31
35	Enhance the performance of dye-sensitized solar cells by balancing the light harvesting and electron collecting efficiencies of scattering layer based photoanodes. Electrochimica Acta, 2014, 132, 25-30.	2.6	15
36	Double-shell Î²-NaYF4:Yb3+, Er3+/SiO2/TiO2 submicroplates as a scattering and upconverting layer for efficient dye-sensitized solar cells. Chemical Communications, 2013, 49, 3958.	2.2	75

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37	Effects of Bis(imidazolium) Molten Salts with Different Substituents of Imidazolium Cations on the Performance of Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 3356-3361.	4.0	25
38	Highly Transparent Carbon Counter Electrode Prepared via an in Situ Carbonization Method for Bifacial Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 7432-7438.	4.0	67
39	Improved performance of dye-sensitized solar cells by trace amount Cr-doped TiO2 photoelectrodes. Journal of Power Sources, 2013, 224, 168-173.	4.0	72
40	Highly Uniform, Bifunctional Core/Doubleâ€Shellâ€Structured Î²â€NaYF₄:Er³⁺, Yb³⁺ @ SiO₂@TiO₂ Hexagonal Subâ€microprisms for Highâ€Performance Dye Sensitized Solar Cells. Advanced Materials, 2013, 25, 2174-2180.	11.1	221
41	Dye-sensitized solar cells enhanced by optical absorption, mediated by TiO2 nanofibers and plasmonics Ag nanoparticles. Electrochimica Acta, 2013, 112, 458-464.	2.6	34