

Chunhui Yang

List of Publications by Year in descending order

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60
papers

3,318
citations

257101

24
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143772

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60
all docs

60
docs citations

60
times ranked

5300
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanochemistry and Nanomedicine for Nanoparticle-based Diagnostics and Therapy. <i>Chemical Reviews</i> , 2016, 116, 2826-2885.	23.0	1,201
2	Energy-Cascaded Upconversion in an Organic Dye-Sensitized Core/Shell Fluoride Nanocrystal. <i>Nano Letters</i> , 2015, 15, 7400-7407.	4.5	341
3	Enhancing Solar Cell Efficiency Using Photon Upconversion Materials. <i>Nanomaterials</i> , 2015, 5, 1782-1809.	1.9	142
4	Temporal Multiplexed in Vivo Upconversion Imaging. <i>Journal of the American Chemical Society</i> , 2020, 142, 2023-2030.	6.6	138
5	Lanthanide-doped ultrasmall yttrium fluoride nanoparticles with enhanced multicolor upconversion photoluminescence. <i>Journal of Materials Chemistry</i> , 2012, 22, 20190.	6.7	126
6	Enhancing dye-sensitized solar cell efficiency through broadband near-infrared upconverting nanoparticles. <i>Nanoscale</i> , 2017, 9, 6711-6715.	2.8	99
7	Ethylenediaminetetraacetic acid (EDTA)-controlled synthesis of multicolor lanthanide doped BaYF ₅ upconversion nanocrystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 17202.	6.7	93
8	Enhanced Upconversion Luminescence in Yb ³⁺ /Tm ³⁺ -Codoped Fluoride Active Core/Active Shell/Inert Shell Nanoparticles through Directed Energy Migration. <i>Nanomaterials</i> , 2014, 4, 55-68.	1.9	76
9	Suppression of Polysulfide Dissolution and Shuttling with Glutamate Electrolyte for Lithium Sulfur Batteries. <i>ACS Nano</i> , 2019, 13, 14172-14181.	7.3	64
10	Dual-Mode Upconversion Nanoprobe Enables Broad-Range Thermometry from Cryogenic to Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42455-42461.	4.0	63
11	Confining excitation energy of Er ³⁺ -sensitized upconversion nanoparticles through introducing various energy trapping centers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3869-3875.	2.7	62
12	High-Polarity Fluoroalkyl Ether Electrolyte Enables Solvation-Free Li ⁺ Transfer for High-Rate Lithium Metal Batteries. <i>Advanced Science</i> , 2022, 9, e2104699.	5.6	54
13	A self-supported NiCo ₂ O ₄ /Cu _x O nanoforest with electronically modulated interfaces as an efficient electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14466-14476.	5.2	52
14	Lanthanide-Doped Fluoride Core/Multishell Nanoparticles for Broadband Upconversion of Infrared Light. <i>Advanced Optical Materials</i> , 2015, 3, 575-582.	3.6	50
15	Vertically grown p-n heterojunction FeCoNi LDH/CuO arrays with modulated interfacial charges to facilitate the electrocatalytic oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11938-11947.	5.2	50
16	Low threshold lasing emissions from a single upconversion nanocrystal. <i>Nature Communications</i> , 2020, 11, 6156.	5.8	49
17	Synthesis of Upconversion I ² -NaYF ₄ :Nd ³⁺ /Yb ³⁺ /Er ³⁺ Particles with Enhanced Luminescent Intensity through Control of Morphology and Phase. <i>Nanomaterials</i> , 2015, 5, 218-232.	1.9	43
18	Effective strategy to fabricate ZIF-8@ZIF-8/polyacrylonitrile nanofibers with high loading efficiency and improved removing of Cr(VI). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125292.	2.3	41

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19	Tuning the size and upconversion emission of NaYF ₄ :Yb ³⁺ /Pr ³⁺ nanoparticles through Yb ³⁺ doping. RSC Advances, 2014, 4, 56302-56306.	1.7	38
20	Constructing a "Native" Oxyfluoride Layer on Fluoride Particles for Enhanced Upconversion Luminescence. Advanced Functional Materials, 2018, 28, 1803946.	7.8	38
21	High performance removal of sulfamethoxazole using large specific area of biochar derived from corncob xylose residue. Biochar, 2022, 4, 1.	6.2	30
22	CO ₂ -Assisted propane aromatization over phosphorus-modified Ga/ZSM-5 catalysts. Catalysis Science and Technology, 2020, 10, 1881-1888.	2.1	28
23	A Nanostructured Si/SiOC Composite Anode with Volume Change Buffering Microstructure for Lithium Ion Batteries. Chemistry - A European Journal, 2019, 25, 2604-2609.	1.7	27
24	Metal Oxides with Distinctive Valence States in an Electron-Rich Matrix Enable Stable High-Capacity Anodes for Li Ion Batteries. Small Methods, 2020, 4, 1900753.	4.6	27
25	A core "multiple shell" nanostructure enabling concurrent upconversion and quantum cutting for photon management. Nanoscale, 2017, 9, 1934-1941.	2.8	26
26	Enhancement of dye sensitized solar cell efficiency through introducing concurrent upconversion/downconversion core/shell nanoparticles as spectral converters. Electrochimica Acta, 2018, 282, 743-749.	2.6	24
27	Synthesis and Cr adsorption of a super-hydrophilic polydopamine-functionalized electrospun polyacrylonitrile. Environmental Chemistry Letters, 2021, 19, 743-749.	8.3	22
28	Sol-gel synthesis of preceramic polyphenylsilsesquioxane aerogels and their application toward monolithic porous SiOC ceramics. Ceramics International, 2018, 44, 14947-14951.	2.3	19
29	Synthesis, Growth of Crack-Free Large-Size BaGa ₄ Se ₇ Crystal, and Annealing Studies. Crystal Growth and Design, 2019, 19, 1282-1287.	1.4	19
30	ZSM-5 functionalized in situ with manganese ions for the catalytic oxidation of cyclohexane. RSC Advances, 2017, 7, 50619-50625.	1.7	17
31	Synthesis of Multicolor Core/Shell NaLuF ₄ :Yb ³⁺ /Ln ³⁺ @CaF ₂ Upconversion Nanocrystals. Nanomaterials, 2017, 7, 34.	1.9	17
32	Organic-inorganic hybridization for the synthesis of robust <i>in situ</i> hydrophobic polypropylsilsesquioxane aerogels with fast oil absorption properties. RSC Advances, 2018, 8, 5695-5701.	1.7	16
33	Enhance the performance of dye-sensitized solar cells by constructing upconversion-core/semiconductor-shell structured NaYF ₄ :Yb,Er @BiOCl microprisms. Solar Energy, 2021, 224, 563-568.	2.9	16
34	A facile solution-phase synthesis of cobalt phosphide nanorods/hollow nanoparticles. Nanoscale, 2016, 8, 4898-4902.	2.8	15
35	Poly(vinylidene fluoride) separators for next-generation lithium based batteries. Nano Select, 2021, 2, 2308-2345.	1.9	14
36	Facile synthesis of hierarchical hollow Mn-ZSM-5 zeolite for enhanced cyclohexane catalytic oxidation. Progress in Natural Science: Materials International, 2020, 30, 35-40.	1.8	13

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37	Synthesis and growth of GaSe single crystals. <i>Journal of Crystal Growth</i> , 2015, 421, 53-57.	0.7	12
38	Optimizing concurrent extension of near-infrared and ultraviolet light harvesting of dye sensitized solar cells by introducing sandwich-nanostructured upconversion-core/inert-shell/downconversion-shell nanoparticles. <i>Journal of Power Sources</i> , 2019, 430, 43-50.	4.0	12
39	Activators Confined Upconversion Nanoprobe with Near-Unity Förster Resonance Energy Transfer Efficiency for Ultrasensitive Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19826-19835.	4.0	12
40	Plasma-initiated polymerization of N-isopropylacrylamide and functionalized with dopamine for the adhesion to Hela cells. <i>Polymer Bulletin</i> , 2020, 77, 963-974.	1.7	11
41	High-Sensitivity Sensing of Divalent Copper Ions at the Single Upconversion Nanoparticle Level. <i>Analytical Chemistry</i> , 2021, 93, 11686-11691.	3.2	11
42	Fabrication of a scratch & heat resistant superhydrophobic SiO ₂ surface with self-cleaning and semi-transparent performance. <i>RSC Advances</i> , 2018, 8, 25008-25013.	1.7	10
43	Silica nanowires reinforced self-hydrophobic silica aerogel derived from crosslinking of propyltriethoxysilane and tetraethoxysilane. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 545-554.	1.1	9
44	Catalytic NO reduction by CO over ceria-cobalt oxide catalysts. <i>New Journal of Chemistry</i> , 2019, 43, 18611-18618.	1.4	9
45	Laser-Induced Damage Threshold of Single Crystal ZnGeP ₂ at 2.1 μm: The Effect of Crystal Lattice Quality at Various Pulse Widths and Repetition Rates. <i>Crystals</i> , 2022, 12, 652.	1.0	9
46	Recent Trends in Elpasolite Single Crystal Scintillators for Radiation Detection. <i>Crystals</i> , 2022, 12, 887.	1.0	9
47	Ethyl cyanoacrylate reinforced polyvinylidene fluoride separators for robust lithium ion batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2434-2441.	3.2	8
48	Polydopamine assists the continuous growth of zeolitic imidazolate framework-8 on electrospun polyacrylonitrile fibers as efficient adsorbents for the improved removal of Cr(VI). <i>New Journal of Chemistry</i> , 2021, 45, 15503-15513.	1.4	8
49	Synthesis of a fumed silica-supported poly-3-(2-aminoethylamino)propylsiloxane platinum complex and its catalytic behavior in the hydrosilylation of olefins with triethoxysilane. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 728-733.	0.8	7
50	Electrospun P(NVCL-co-MAA) nanofibers and their pH/temperature dual-response drug release profiles. <i>Colloid and Polymer Science</i> , 2020, 298, 629-636.	1.0	7
51	Laser-Induced Damage Threshold of Nonlinear GaSe and GaSe:In Crystals upon Exposure to Pulsed Radiation at a Wavelength of 2.1 μm. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1208.	1.3	7
52	Growth of high quality non-linear optical crystal zinc germanium phosphide for Mid-infrared optical parametric oscillator. <i>Laser Physics</i> , 2011, 21, 1366-1370.	0.6	6
53	Zeolitic imidazolate framework enables practical room-temperature operation of solid-state lithium batteries. <i>Materials Today Physics</i> , 2021, 21, 100554.	2.9	6
54	Tuning the upconversion luminescence of cubic KMnF ₃ :Yb ³⁺ /Er ³⁺ nanocrystals through inert lanthanide ion doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2847-2851.	2.7	5

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55	Reproducible Single-Droplet multiplexed detection through Excitation-Encoded Tri-mode upconversion solid sensors. <i>Chemical Engineering Journal</i> , 2022, 430, 131242.	6.6	4
56	Talcum-doped composite separator with superior wettability and heatproof properties for high-rate lithium metal batteries. <i>Chinese Chemical Letters</i> , 2023, 34, 107087.	4.8	4
57	Investigation on the blue photorefractive properties varied with MgO codoping in Ru:Fe:LiNbO ₃ crystals. <i>Crystal Research and Technology</i> , 2012, 47, 863-867.	0.6	1
58	Voltage Dependence of Nanopattern Morphology and Size in Electropolished Monocrystalline Aluminum: An Experimental Study. <i>Journal of the Electrochemical Society</i> , 2022, 169, 053512.	1.3	1
59	The heteroepitaxial growth of KDP/ADP. <i>Crystal Research and Technology</i> , 2012, 47, 517-522.	0.6	0
60	IMPROVEMENT OF NONVOLATILE BLUE PHOTOREFRACTIVE PROPERTIES IN In:Ce:Cu:LiNbO ₃ CRYSTALS. <i>Modern Physics Letters B</i> , 2013, 27, 1350148.	1.0	0