

Chenxi Qian

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,772
citations

331670

21
h-index

302126

39
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42
all docs

42
docs citations

42
times ranked

4430
citing authors

#	ARTICLE	IF	CITATIONS
1	Greening Ammonia toward the Solar Ammonia Refinery. <i>Joule</i> , 2018, 2, 1055-1074.	24.0	603
2	Synthesis of Black TiO ₂ Nanoparticles by Mg Reduction of TiO ₂ Nanocrystals and their Application for Solar Water Evaporation. <i>Advanced Energy Materials</i> , 2017, 7, 1601811.	19.5	326
3	Heterogeneous catalytic hydrogenation of CO ₂ by metal oxides: defect engineering – perfecting imperfection. <i>Chemical Society Reviews</i> , 2017, 46, 4631-4644.	38.1	304
4	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7847-7852.	13.8	252
5	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. <i>Joule</i> , 2018, 2, 1369-1381.	24.0	148
6	Spatial Separation of Charge Carriers in In ₂ O ₃ (OH) Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. <i>ACS Nano</i> , 2016, 10, 5578-5586.	14.6	118
7	Catalytic CO ₂ reduction by palladium-decorated silicon-hydride nanosheets. <i>Nature Catalysis</i> , 2019, 2, 46-54.	34.4	116
8	Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO ₂ with High Activity and Tailored Selectivity. <i>Advanced Science</i> , 2017, 4, 1700252.	11.2	97
9	Heterogeneous reduction of carbon dioxide by hydride-terminated silicon nanocrystals. <i>Nature Communications</i> , 2016, 7, 12553.	12.8	93
10	Raman-guided subcellular pharmaco-metabolomics for metastatic melanoma cells. <i>Nature Communications</i> , 2020, 11, 4830.	12.8	88
11	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. <i>Angewandte Chemie</i> , 2017, 129, 7955-7960.	2.0	78
12	Size-Tunable Photothermal Germanium Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6329-6334.	13.8	47
13	Switching On Quantum Size Effects in Silicon Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 746-749.	21.0	43
14	Morphology-controlled In ₂ O ₃ nanostructures enhance the performance of photoelectrochemical water oxidation. <i>Nanoscale</i> , 2015, 7, 3683-3693.	5.6	37
15	Solar Urea: Towards a Sustainable Fertilizer Industry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	37
16	Manipulating Oxidation of Silicon with Fresh Surface Enabling Stable Battery Anode. <i>Nano Letters</i> , 2021, 21, 3127-3133.	9.1	33
17	Non-wettable, Oxidation-Stable, Brightly Luminescent, Perfluorodecyl-Capped Silicon Nanocrystal Film. <i>Journal of the American Chemical Society</i> , 2014, 136, 15849-15852.	13.7	32
18	Porous NIR Photoluminescent Silicon Nanocrystals-POSS Composites. <i>Advanced Functional Materials</i> , 2016, 26, 5102-5110.	14.9	31

#	ARTICLE	IF	CITATIONS
19	Silicon monoxide “ a convenient precursor for large scale synthesis of near infrared emitting monodisperse silicon nanocrystals. <i>Nanoscale</i> , 2016, 8, 3678-3684.	5.6	30
20	Super-resolution label-free volumetric vibrational imaging. <i>Nature Communications</i> , 2021, 12, 3648.	12.8	29
21	Electrolyte-Phobic Surface for the Next-Generation Nanostructured Battery Electrodes. <i>Nano Letters</i> , 2020, 20, 7455-7462.	9.1	25
22	Metal Complexes Based on Tetrathiafulvalene“Fused “Extended Schiff Base Ligands “ Syntheses, Characterization, and Properties. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 234-245.	2.0	23
23	Hydrosilylation kinetics of silicon nanocrystals. <i>Chemical Communications</i> , 2013, 49, 11361.	4.1	20
24	Toward photoswitchable electronic pre-resonance stimulated Raman probes. <i>Journal of Chemical Physics</i> , 2021, 154, 135102.	3.0	20
25	Exploring the Possibilities and Limitations of a Nanomaterials Genome. <i>Small</i> , 2015, 11, 64-69.	10.0	19
26	UV“Blocking Photoluminescent Silicon Nanocrystal/Polydimethylsiloxane Composites. <i>Advanced Optical Materials</i> , 2017, 5, 1700237.	7.3	17
27	Tailoring CO ₂ Reduction with Doped Silicon Nanocrystals. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700118.	5.3	15
28	The next big thing for silicon nanostructures “ CO ₂ photocatalysis. <i>Faraday Discussions</i> , 2020, 222, 424-432.	3.2	13
29	Permanently porous hydrogen-bonded frameworks of rod-like thiophenes, selenophenes, and tellurophenes capped with MIDA boronates. <i>Dalton Transactions</i> , 2016, 45, 9754-9757.	3.3	12
30	Silicon Nanocrystals: It's Simply a Matter of Size. <i>ChemNanoMat</i> , 2016, 2, 847-855.	2.8	11
31	High spatial-resolution imaging of label-free <i>in vivo</i> protein aggregates by VISTA. <i>Analyst</i> , The, 2021, 146, 4135-4145.	3.5	11
32	Ionic iridium complex coordinated with tetrathiafulvalene-fused phenanthroline ligand: Synthesis, photophysical, electrochemical and electrochemiluminescence properties. <i>Journal of Organometallic Chemistry</i> , 2014, 750, 7-12.	1.8	10
33	Enhanced cellular uptake of size-separated lipophilic silicon nanoparticles. <i>Scientific Reports</i> , 2017, 7, 43731.	3.3	10
34	Dye colour switching by hydride-terminated silicon particles and its application as an oxygen indicator. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4577-4583.	5.5	9
35	Size“Tunable Photothermal Germanium Nanocrystals. <i>Angewandte Chemie</i> , 2017, 129, 6426-6431.	2.0	6
36	Syntheses, characterization and properties of oxo-centered triruthenium cluster with tetrathiafulvalene-fused ligands. <i>Journal of Organometallic Chemistry</i> , 2012, 716, 275-280.	1.8	3

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37	Photothermal Catalysis: Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO ₂ with High Activity and Tailored Selectivity (Adv. Sci. 10/2017). Advanced Science, 2017, 4, .	11.2	2
38	Nanomaterials: Exploring the Possibilities and Limitations of a Nanomaterials Genome (Small 1/2015). Small, 2015, 11, 63-63.	10.0	0