

Xirui Wang

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

863
citations

687363

13
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled Colloidal Superparticles from Nanorods. <i>Science</i> , 2012, 338, 358-363.	12.6	332
2	Shape-Controlled Synthesis of Colloidal Superparticles from Nanocubes. <i>Journal of the American Chemical Society</i> , 2012, 134, 18225-18228.	13.7	121
3	Nickel and cobalt metal-organic-frameworks-derived hollow microspheres porous carbon assembled from nanorods and nanospheres for outstanding supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 96-107.	9.4	50
4	Transformation of the greenhouse gas carbon dioxide to graphene. <i>Journal of CO2 Utilization</i> , 2020, 36, 288-294.	6.8	40
5	Exploration of alkali cation variation on the synthesis of carbon nanotubes by electrolysis of CO2 in molten carbonates. <i>Journal of CO2 Utilization</i> , 2019, 34, 303-312.	6.8	37
6	An insight into the solar demulsification of highly emulsified water produced from oilfields by monitoring the viscosity, zeta potential, particle size and rheology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 575, 144-154.	4.7	34
7	Macroscale Lateral Alignment of Semiconductor Nanorods into Freestanding Thin Films. <i>Journal of the American Chemical Society</i> , 2013, 135, 6022-6025.	13.7	30
8	Three-Dimensional Hierarchical Porous Carbon Cathode Derived from Waste Tea Leaves for the Electrocatalytic Degradation of Phenol. <i>Langmuir</i> , 2019, 35, 12914-12926.	3.5	25
9	Carbon Nano-Onions Made Directly from CO2 by Molten Electrolysis for Greenhouse Gas Mitigation. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900056.	5.3	24
10	STEP polymer degradation: Solar thermo-coupled electrochemical depolymerization of plastics to generate useful fuel plus abundant hydrogen. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110208.	6.2	24
11	Magnetic carbon nanotubes: Carbide nucleated electrochemical growth of ferromagnetic CNTs from CO2. <i>Journal of CO2 Utilization</i> , 2020, 40, 101218.	6.8	16
12	One pot facile transformation of CO2 to an unusual 3-D nano-scaffold morphology of carbon. <i>Scientific Reports</i> , 2020, 10, 21518.	3.3	16
13	Calcium metaborate induced thin walled carbon nanotube syntheses from CO2 by molten carbonate electrolysis. <i>Scientific Reports</i> , 2020, 10, 15146.	3.3	13
14	Controlled Growth of Unusual Nanocarbon Allotropes by Molten Electrolysis of CO2. <i>Catalysts</i> , 2022, 12, 125.	3.5	13
15	E-carbon antenna-assembled TiO2 nanotubes for sensitization of photocatalytic reaction exemplified by enhanced oxidation of nitrobenzene. <i>Chemical Engineering Journal</i> , 2019, 375, 121992.	12.7	11
16	Solar-driven highly thermal electrochemical oxidation in the temperature of more than 100 °C for sustainable treatment of organic pollutants in wastewater. <i>Renewable Energy</i> , 2020, 147, 2171-2178.	8.9	10
17	Positive P/g-C3N4 thermo-coupled photocatalytic oxidation of refractory organics in wastewater for total utilization of solar Vis-IR region. <i>Materials Chemistry and Physics</i> , 2020, 253, 123307.	4.0	9
18	Green and scalable separation and purification of carbon materials in molten salt by efficient high-temperature press filtration. <i>Separation and Purification Technology</i> , 2021, 255, 117719.	7.9	9

#	ARTICLE	IF	CITATIONS
19	An alternative electron-donor and highly thermo-assisted strategy for solar-driven water splitting redox chemistry towards efficient hydrogen production plus effective wastewater treatment. <i>Renewable Energy</i> , 2021, 176, 388-401.	8.9	9
20	Corrugated Paper-Based Activated Carbon as a Bifunctional Material for the Electrocatalytic Degradation and High-Performance Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2199-A2208.	2.9	8
21	Controlled Transition Metal Nucleated Growth of Carbon Nanotubes by Molten Electrolysis of CO ₂ . <i>Catalysts</i> , 2022, 12, 137.	3.5	8
22	CO ₂ Utilization by Electrolytic Splitting to Carbon Nanotubes in Non-Lithiated, Cost-Effective, Molten Carbonate Electrolytes. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	6
23	Towards efficient solar demulsification (I): A solar electrical role on interfacial film of emulsions. <i>Sustainable Materials and Technologies</i> , 2021, 30, e00344.	3.3	5
24	Preparation and electrochemical property of TiO ₂ /porous carbon composite cathode derived from waste tea leaves for electrocatalytic degradation of phenol. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 653-667.	2.9	4
25	Solar Multifield-Driven Hybrid Chemical System for Purification of Organic Wastewater Focused on a Nano-Carbon/TiO ₂ /Ti Central Electrode. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 11527-11536.	3.7	4
26	Chelation-assisted assembly of multidentate colloidal nanoparticles into metal-organic nanoparticles. <i>Nanoscale</i> , 2018, 10, 21369-21373.	5.6	2
27	An insight into solar thermo-assisted and organic-molecule alternated water splitting chemistry for hydrogen production and wastewater treatment by elucidating redox model and thermodynamics. <i>Energy Conversion and Management</i> , 2020, 226, 113551.	9.2	2