

Chaorui Xue

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,031
citations

471371

17
h-index

434063

31
g-index

40
all docs

40
docs citations

40
times ranked

1129
citing authors

#	ARTICLE	IF	CITATIONS
1	Full-colour carbon dots: from energy-efficient synthesis to concentration-dependent photoluminescence properties. <i>Chemical Communications</i> , 2017, 53, 3074-3077.	2.2	164
2	Self-assembly carbon dots for powerful solar water evaporation. <i>Carbon</i> , 2019, 149, 556-563.	5.4	109
3	Dynamic restructuring of carbon dots/copper oxide supported on mesoporous hydroxyapatite brings exceptional catalytic activity in the reduction of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118299.	10.8	62
4	Assembling carbon dots on vertically aligned acetate fibers as ideal salt-rejecting evaporators for solar water purification. <i>Chemical Engineering Journal</i> , 2021, 421, 129822.	6.6	57
5	Dual photoluminescence centers from inorganic-salt-functionalized carbon dots for ratiometric pH sensing. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9849-9853.	2.7	46
6	Carbon dots-stabilized Cu ₄ O ₃ for a multi-responsive nanozyme with exceptionally high activity. <i>Chemical Engineering Journal</i> , 2020, 394, 125045.	6.6	43
7	A Cu ₂ O-CDs-Cu three component catalyst for boosting oxidase-like activity with hot electrons. <i>Chemical Engineering Journal</i> , 2020, 382, 122484.	6.6	41
8	Boosting adsorption of heavy metal ions in wastewater through solar-driven interfacial evaporation of chemically-treated carbonized wood. <i>Science of the Total Environment</i> , 2021, 759, 144317.	3.9	38
9	Cu _{1.8} S-Passivated carbon dots for enhancing photocatalytic activity. <i>Chemical Communications</i> , 2017, 53, 2343-2346.	2.2	32
10	Facile Synthesis of Carbon Dots@2D MoS ₂ Heterostructure with Enhanced Photocatalytic Properties. <i>Inorganic Chemistry</i> , 2019, 58, 5746-5752.	1.9	31
11	Combining carbon dots with WO _{3-x} nanodots for utilizing the full spectrum of solar radiation in photocatalysis. <i>Chemical Engineering Journal</i> , 2022, 428, 131139.	6.6	31
12	Double-Wall TiO ₂ Nanotube Arrays: Enhanced Photocatalytic Activity and <i>In Situ</i> TEM Observations at High Temperature. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19924-19932.	4.0	28
13	Solar-irradiated carbon dots as high-density hot spots in sponge for high-efficiency cleanup of viscous crude oil spill. <i>Journal of Materials Chemistry A</i> , 2022, 10, 585-592.	5.2	28
14	A Gelation-Stabilized Strategy toward Photothermal Architecture Design for Highly Efficient Solar Water Evaporation. <i>Solar Rrl</i> , 2021, 5, 2100133.	3.1	27
15	3D-carbon dots decorated black TiO ₂ nanotube Array@Ti foam with enhanced photothermal and photocatalytic activities. <i>Ceramics International</i> , 2019, 45, 17512-17520.	2.3	26
16	A solid reaction towards in situ hybridization of carbon dots and conjugated polymers for enhanced light absorption and conversion. <i>Chemical Communications</i> , 2017, 53, 9426-9429.	2.2	25
17	Hybrid carbon dot/Ni ₃ S ₂ architecture supported on nickel foam for effective light collection and conversion. <i>Chemical Engineering Journal</i> , 2017, 321, 608-613.	6.6	20
18	A carbonized carbon dot-modified starch aerogel for efficient solar-powered water evaporation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11712-11720.	5.2	19

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19	Chemical treatment of biomass wastes as carbon dot carriers for solar-driven water purification. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 33-40.	5.0	18
20	Hydroxypropylmethyl Cellulose Modified with Carbon Dots Exhibits Light-Responsive and Reversible Optical Switching. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12375-12382.	4.0	17
21	Air-water interface solar heating using titanium gauze coated with reduced TiO ₂ nanotubes. <i>Journal of Materials Science</i> , 2018, 53, 9742-9754.	1.7	16
22	Interaction Promotes the Formation and Photothermal Conversion of Carbon Dots/Polydopamine Composite for Solar-Driven Water Evaporation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100332.	1.9	15
23	Photothermal, photocatalytic, and anti-bacterial Ti-Ag-O nanoporous powders for interfacial solar driven water evaporation. <i>Ceramics International</i> , 2021, 47, 19800-19808.	2.3	15
24	Fluoride doped SrTiO ₃ /TiO ₂ nanotube arrays with a double layer walled structure for enhanced photocatalytic properties and bioactivity. <i>RSC Advances</i> , 2017, 7, 49759-49768.	1.7	14
25	Electronic and photocatalytic properties of modified MoS ₂ /graphene quantum dots heterostructures: A computational study. <i>Applied Surface Science</i> , 2019, 473, 70-76.	3.1	14
26	Cladding Layer on Well-Defined Double-Wall TiO ₂ Nanotubes. <i>Langmuir</i> , 2015, 31, 1575-1580.	1.6	13
27	MIL-125 and NH ₂ -MIL-125 Modified TiO ₂ Nanotube Array as Efficient Photocatalysts for Pollute Degradation. <i>Chemistry Letters</i> , 2018, 47, 711-714.	0.7	12
28	Direct SEM Observation of Non-electroconductive TiO ₂ Nanotube Arrays Prepared by Anodization Using an Ionic Liquid as a Visualizing Reagent. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 239-242.	1.9	9
29	TiCr alloy anodization for Cr-doped TiO ₂ nanotube array with improved photocatalytic activity. <i>Materials Research Express</i> , 2019, 6, 075014.	0.8	9
30	Fabrication of high-performance graphene oxide/CuO/Cu ₂ O film-coated copper foam for interfacial solar-driven water evaporation. <i>Journal of Materials Science</i> , 2022, 57, 3322-3336.	1.7	9
31	All-in-One Solar Interfacial Evaporation System with Highly Effective Heat Management and Water Collection. <i>Solar Rrl</i> , 2021, 5, .	3.1	8
32	Green, energy-efficient preparation of CDs-embedded BiPO ₄ heterostructure for better light harvesting and conversion. <i>Chemical Engineering Journal</i> , 2020, 391, 123551.	6.6	7
33	Design of ultrathin TiO ₂ nanosheets coated Ti plate for enhanced interfacial solar driven water evaporation performance. <i>Journal of Alloys and Compounds</i> , 2022, 909, 164843.	2.8	6
34	In Situ Transmission Electron Microscopic Observation of Double-wall TiO ₂ Nanotube Arrays at High Temperature. <i>Chemistry Letters</i> , 2014, 43, 1514-1516.	0.7	5
35	Double-Walled ZrO ₂ Nanotube Array: Preparation and Enhanced Photocatalytic Activity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700239.	0.8	4
36	Molybdenum Selenide/Porous Carbon Nanomaterial Heterostructures with Remarkably Enhanced Light-Boosting Peroxidase-like Activities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54274-54283.	4.0	4

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37	Hierarchical Pore-Gradient Silica Aerogel Balancing Heat and Water Management for Efficient Solar-Driven Water Evaporation. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	4
38	Structural phase transition and electrical properties of Sr ²⁺ substituted porous PMN- δ -PZT ceramics. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2197-2201.	1.9	3
39	TiO ₂ nanotube array with "multi-layer" walled structure and its vulnerability to water. <i>Functional Materials Letters</i> , 2017, 10, 1750019.	0.7	1
40	Secondary granulation-assisted CVD growth of WS ₂ , TiS ₂ and NbS ₂ crystals. <i>Functional Materials Letters</i> , 2021, 14, 2151029.	0.7	1