Cheng Zhu

List of Publications by Year
in descending order

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		186254	315719
37	2,344	28	38
papers	citations	h-index	g-index

39	39	39	3311
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Amyloid-like amelogenin nanoribbons template mineralization via a low-energy interface of ion binding sites. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2106965119.	7.1	19
2	Carbon dots modified WO2-NaxWO3 composite as UV-Vis-NIR broad spectrum-driven photocatalyst for overall water splitting. Catalysis Today, 2020, 340, 152-160.	4.4	14
3	Highly mesoporous carbon nitride photocatalysts for efficient and stable overall water splitting. Applied Surface Science, 2020, 509, 144706.	6.1	15
4	Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. Chemical Science, 2020, 11, 8708-8722.	7.4	32
5	Understanding the Surface Reactivity of Ligand-Protected Metal Nanoparticles for Biomass Upgrading. ACS Catalysis, 2020, 10, 5462-5474.	11.2	32
6	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. Nanoscale, 2019, 11, 15984-15990.	5.6	28
7	Carbon-Supported Oxygen Vacancy-Rich Co₃O₄ for Robust Photocatalytic H₂O₂ Production via Coupled Water Oxidation and Oxygen Reduction Reaction. ACS Applied Energy Materials, 2019, 2, 8737-8746.	5.1	66
8	Highly Selective and Efficient Electroreduction of Carbon Dioxide to Carbon Monoxide with Phosphate Silver-Derived Coral-like Silver. ACS Sustainable Chemistry and Engineering, 2019, 7, 3536-3543.	6.7	35
9	Negatively Charged Carbon Nanodots with Bacteria Resistance Ability for Highâ€Performance Antibiofilm Formation and Anticorrosion Coating Design. Small, 2019, 15, e1900007.	10.0	46
10	Highly selective conversion of CO₂ to C₂H₆ on graphene modified chlorophyll Cu through multi-electron process for artificial photosynthesis. Nanoscale, 2019, 11, 22980-22988.	5.6	22
11	Synergistic Cu@CoOx core-cage structure on carbon layers as highly active and durable electrocatalysts for methanol oxidation. Applied Catalysis B: Environmental, 2019, 244, 795-801.	20.2	42
12	Construction of CDs/CdS photocatalysts for stable and efficient hydrogen production in water and seawater. Applied Catalysis B: Environmental, 2019, 242, 178-185.	20.2	174
13	Câ€“O^{â^'}â€“K⁺ (Na⁺) groups in non-doped carbon as active sites for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 8955-8961.	10.3	28
14	Highly Tunable Heterojunctions from Multimetallic Sulfide Nanoparticles and Silver Nanowires. Angewandte Chemie - International Edition, 2018, 57, 5374-5378.	13.8	57
15	CoMn-S/CDs nanocomposite for effective long wavelength visible-light-driven photocatalytic water splitting. Applied Catalysis B: Environmental, 2018, 226, 295-302.	20.2	30
16	Cascaded photo-potential in a carbon dot-hematite system driving overall water splitting under visible light. Nanoscale, 2018, 10, 2454-2460.	5.6	43
17	CoO and g-C3N4 complement each other for highly efficient overall water splitting under visible light. Applied Catalysis B: Environmental, 2018, 226, 412-420.	20.2	176
18	A g-C₃N₄ based photoelectrochemical cell using O₂/H₂O redox couples. Energy and Environmental Science, 2018, 11, 1841-1847.	30.8	41

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19	Cobalt phosphide/carbon dots composite as an efficient electrocatalyst for oxygen evolution reaction. Dalton Transactions, 2018, 47, 5459-5464.	3.3	58
20	Enhanced Activity for CO₂ Electroreduction on a Highly Active and Stable Ternary Au-CDots-C₃N₄ Electrocatalyst. ACS Catalysis, 2018, 8, 188-197.	11.2	94
21	A nitrogen and boron co-doped metal-free carbon electrocatalyst for an efficient oxygen reduction reaction. Inorganic Chemistry Frontiers, 2018, 5, 2985-2991.	6.0	30
22	Photocatalytic H₂O₂ and H₂ Generation from Living Chlorella vulgaris and Carbon Micro Particle Comodified gâ€C₃N₄. Advanced Energy Materials, 2018, 8, 1802525.	19.5	78
23	Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst. Applied Catalysis B: Environmental, 2018, 237, 166-174.	20.2	46
24	High-performance NiO/g-C₃N₄ composites for visible-light-driven photocatalytic overall water splitting. Inorganic Chemistry Frontiers, 2018, 5, 1646-1652.	6.0	92
25	Strong coupling effect at the interface of cobalt phosphate-carbon dots boost photocatalytic water splitting. Journal of Colloid and Interface Science, 2018, 530, 256-263.	9.4	38
26	Control Strategy on Two-/Four-Electron Pathway of Water Splitting by Multidoped Carbon Based Catalysts. ACS Catalysis, 2017, 7, 1637-1645.	11.2	66
27	Achieving electroreduction of CO₂to CH₃OH with high selectivity using a pyriteâ€"nickel sulfide nanocomposite. RSC Advances, 2017, 7, 1376-1381.	3.6	60
28	Carbon Dots as Fillers Inducing Healing/Selfâ€Healing and Anticorrosion Properties in Polymers. Advanced Materials, 2017, 29, 1701399.	21.0	142
29	Carbon dots enhance the stability of CdS for visible-light-driven overall water splitting. Applied Catalysis B: Environmental, 2017, 216, 114-121.	20.2	217
30	New Insight of Water-Splitting Photocatalyst: H₂O₂-Resistance Poisoning and Photothermal Deactivation in Sub-micrometer CoO Octahedrons. ACS Applied Materials & Interfaces, 2017, 9, 20585-20593.	8.0	51
31	A Ptâ€"Co₃O₄â€"CD electrocatalyst with enhanced electrocatalytic performance and resistance to CO poisoning achieved by carbon dots and Co₃O₄ for direct methanol fuel cells. Nanoscale, 2017, 9, 5467-5474.	5.6	65
32	Carbon dots anchored on octahedral CoO as a stable visible-light-responsive composite photocatalyst for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 19800-19807.	10.3	100
33	A Co3O4-CDots-C3N4 three component electrocatalyst design concept for efficient and tunable CO2 reduction to syngas. Nature Communications, 2017, 8, 1828.	12.8	140
34	Cu-CDots nanocorals as electrocatalyst for highly efficient CO₂reduction to formate. Nanoscale, 2017, 9, 298-304.	5.6	49
35	Air activation by a metal-free photocatalyst for â€œtotally-greenâ€•hydrocarbon selective oxidation. Catalysis Science and Technology, 2016, 6, 7252-7258.	4.1	32
36	One-step synthesis of chiral carbon quantum dots and their enantioselective recognition. RSC Advances, 2016, 6, 59956-59960.	3.6	78

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37	Mesoporous carbon nanoparticles: a super catalyst support for fuel cells. New Journal of Chemistry, 2015, 39, 8667-8672.	2.8	5