Cheng Zhu

List of Publications by Year
in descending order

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		186265	315739
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	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
2	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
3	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
4	Carbon Dots as Fillers Inducing Healing/Selfâ€Healing and Anticorrosion Properties in Polymers. Advanced Materials, 2017, 29, 1701399.	21.0	142
5	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
6	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
7	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
8	High-performance NiO/g-C₃N₄ composites for visible-light-driven photocatalytic overall water splitting. Inorganic Chemistry Frontiers, 2018, 5, 1646-1652.	6.0	92
9	One-step synthesis of chiral carbon quantum dots and their enantioselective recognition. RSC Advances, 2016, 6, 59956-59960.	3.6	78
10	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
11	Control Strategy on Two-/Four-Electron Pathway of Water Splitting by Multidoped Carbon Based Catalysts. ACS Catalysis, 2017, 7, 1637-1645.	11.2	66
12	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
13	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
14	Achieving electroreduction of CO₂to CH₃OH with high selectivity using a pyriteâ€“nickel sulfide nanocomposite. RSC Advances, 2017, 7, 1376-1381.	3.6	60
15	Cobalt phosphide/carbon dots composite as an efficient electrocatalyst for oxygen evolution reaction. Dalton Transactions, 2018, 47, 5459-5464.	3.3	58
16	Highly Tunable Heterojunctions from Multimetallic Sulfide Nanoparticles and Silver Nanowires. Angewandte Chemie - International Edition, 2018, 57, 5374-5378.	13.8	57
17	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
18	Cu-CDots nanocorals as electrocatalyst for highly efficient CO₂reduction to formate. Nanoscale, 2017, 9, 298-304.	5.6	49

#	Article	IF	Citations
19	Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst. Applied Catalysis B: Environmental, 2018, 237, 166-174.	20.2	46
20	Negatively Charged Carbon Nanodots with Bacteria Resistance Ability for Highâ€Performance Antibiofilm Formation and Anticorrosion Coating Design. Small, 2019, 15, e1900007.	10.0	46
21	Cascaded photo-potential in a carbon dot-hematite system driving overall water splitting under visible light. Nanoscale, 2018, 10, 2454-2460.	5.6	43
22	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
23	A g-C₃N₄ based photoelectrochemical cell using O₂/H₂O redox couples. Energy and Environmental Science, 2018, 11, 1841-1847.	30.8	41
24	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
25	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
26	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
27	Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. Chemical Science, 2020, 11, 8708-8722.	7.4	32
28	Understanding the Surface Reactivity of Ligand-Protected Metal Nanoparticles for Biomass Upgrading. ACS Catalysis, 2020, 10, 5462-5474.	11.2	32
29	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
30	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
31	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
32	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. Nanoscale, 2019, 11, 15984-15990.	5.6	28
33	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
34	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
35	Highly mesoporous carbon nitride photocatalysts for efficient and stable overall water splitting. Applied Surface Science, 2020, 509, 144706.	6.1	15
36	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

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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