

Cheng Zhu

List of Publications by Year in descending order

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37
papers

2,344
citations

212478

28
h-index

355658

38
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39
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39
docs citations

39
times ranked

3744
citing authors

#	ARTICLE	IF	CITATIONS
1	Amyloid-like amelogenin nanoribbons template mineralization via a low-energy interface of ion binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2106965119.	3.3	19
2	Carbon dots modified WO ₂ -Na _x WO ₃ composite as UV-Vis-NIR broad spectrum-driven photocatalyst for overall water splitting. <i>Catalysis Today</i> , 2020, 340, 152-160.	2.2	14
3	Highly mesoporous carbon nitride photocatalysts for efficient and stable overall water splitting. <i>Applied Surface Science</i> , 2020, 509, 144706.	3.1	15
4	Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. <i>Chemical Science</i> , 2020, 11, 8708-8722.	3.7	32
5	Understanding the Surface Reactivity of Ligand-Protected Metal Nanoparticles for Biomass Upgrading. <i>ACS Catalysis</i> , 2020, 10, 5462-5474.	5.5	32
6	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. <i>Nanoscale</i> , 2019, 11, 15984-15990.	2.8	28
7	Carbon-Supported Oxygen Vacancy-Rich Co ₃ O ₄ for Robust Photocatalytic H ₂ O ₂ Production via Coupled Water Oxidation and Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 8737-8746.	2.5	66
8	Highly Selective and Efficient Electroreduction of Carbon Dioxide to Carbon Monoxide with Phosphate Silver-Derived Coral-like Silver. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3536-3543.	3.2	35
9	Negatively Charged Carbon Nanodots with Bacteria Resistance Ability for High-Performance Antibiofilm Formation and Anticorrosion Coating Design. <i>Small</i> , 2019, 15, e1900007.	5.2	46
10	Highly selective conversion of CO ₂ to C ₂ H ₆ on graphene modified chlorophyll Cu through multi-electron process for artificial photosynthesis. <i>Nanoscale</i> , 2019, 11, 22980-22988.	2.8	22
11	Synergistic Cu@CoO _x core-cage structure on carbon layers as highly active and durable electrocatalysts for methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 795-801.	10.8	42
12	Construction of CDs/CdS photocatalysts for stable and efficient hydrogen production in water and seawater. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 178-185.	10.8	174
13	“O ⁺ ”/“K ⁺ ” (Na ⁺) groups in non-doped carbon as active sites for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8955-8961.	5.2	28
14	Highly Tunable Heterojunctions from Multimetallic Sulfide Nanoparticles and Silver Nanowires. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5374-5378.	7.2	57
15	CoMn-S/CDs nanocomposite for effective long wavelength visible-light-driven photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 295-302.	10.8	30
16	Cascaded photo-potential in a carbon dot-hematite system driving overall water splitting under visible light. <i>Nanoscale</i> , 2018, 10, 2454-2460.	2.8	43
17	CoO and g-C ₃ N ₄ complement each other for highly efficient overall water splitting under visible light. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 412-420.	10.8	176
18	A g-C ₃ N ₄ based photoelectrochemical cell using O ₂ /H ₂ O redox couples. <i>Energy and Environmental Science</i> , 2018, 11, 1841-1847.	15.6	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.	1.6	58
20	Enhanced Activity for CO ₂ Electroreduction on a Highly Active and Stable Ternary Au-CDots-C ₃ N ₄ Electro-catalyst. ACS Catalysis, 2018, 8, 188-197.	5.5	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.	3.0	30
22	Photocatalytic H ₂ O ₂ and H ₂ Generation from Living <i>Chlorella vulgaris</i> and Carbon Micro Particle Comodified g-C ₃ N ₄ . Advanced Energy Materials, 2018, 8, 1802525.	10.2	78
23	Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst. Applied Catalysis B: Environmental, 2018, 237, 166-174.	10.8	46
24	High-performance NiO/g-C ₃ N ₄ composites for visible-light-driven photocatalytic overall water splitting. Inorganic Chemistry Frontiers, 2018, 5, 1646-1652.	3.0	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.	5.0	38
26	Control Strategy on Two-/Four-Electron Pathway of Water Splitting by Multidoped Carbon Based Catalysts. ACS Catalysis, 2017, 7, 1637-1645.	5.5	66
27	Achieving electroreduction of CO ₂ to CH ₃ OH with high selectivity using a pyrite-nickel sulfide nanocomposite. RSC Advances, 2017, 7, 1376-1381.	1.7	60
28	Carbon Dots as Fillers Inducing Healing/Self-Healing and Anticorrosion Properties in Polymers. Advanced Materials, 2017, 29, 1701399.	11.1	142
29	Carbon dots enhance the stability of CdS for visible-light-driven overall water splitting. Applied Catalysis B: Environmental, 2017, 216, 114-121.	10.8	217
30	New Insight of Water-Splitting Photocatalyst: H ₂ O ₂ -Resistance Poisoning and Photothermal Deactivation in Sub-micrometer CoO Octahedrons. ACS Applied Materials & Interfaces, 2017, 9, 20585-20593.	4.0	51
31	A Pt-Co ₃ O ₄ -CD electrocatalyst with enhanced electrocatalytic performance and resistance to CO poisoning achieved by carbon dots and Co ₃ O ₄ for direct methanol fuel cells. Nanoscale, 2017, 9, 5467-5474.	2.8	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.	5.2	100
33	A Co ₃ O ₄ -CDots-C ₃ N ₄ three component electrocatalyst design concept for efficient and tunable CO ₂ reduction to syngas. Nature Communications, 2017, 8, 1828.	5.8	140
34	Cu-CDots nanocorals as electrocatalyst for highly efficient CO ₂ reduction to formate. Nanoscale, 2017, 9, 298-304.	2.8	49
35	Air activation by a metal-free photocatalyst for "totally-green" hydrocarbon selective oxidation. Catalysis Science and Technology, 2016, 6, 7252-7258.	2.1	32
36	One-step synthesis of chiral carbon quantum dots and their enantioselective recognition. RSC Advances, 2016, 6, 59956-59960.	1.7	78

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37	Mesoporous carbon nanoparticles: a super catalyst support for fuel cells. <i>New Journal of Chemistry</i> , 2015, 39, 8667-8672.	1.4	5