

Cheng Zhu

List of Publications by Year in descending order

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37
papers

2,344
citations

186254

28
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315719

38
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docs citations

39
times ranked

3311
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dots enhance the stability of CdS for visible-light-driven overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 114-121.	20.2	217
2	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.	20.2	176
3	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.	20.2	174
4	Carbon Dots as Fillers Inducing Healing/Self-Healing and Anticorrosion Properties in Polymers. <i>Advanced Materials</i> , 2017, 29, 1701399.	21.0	142
5	A Co ₃ O ₄ -CDots-C ₃ N ₄ three component electrocatalyst design concept for efficient and tunable CO ₂ reduction to syngas. <i>Nature Communications</i> , 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. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19800-19807.	10.3	100
7	Enhanced Activity for CO ₂ Electroreduction on a Highly Active and Stable Ternary Au-CDots-C ₃ N ₄ Electro-catalyst. <i>ACS Catalysis</i> , 2018, 8, 188-197.	11.2	94
8	High-performance NiO/g-C ₃ N ₄ composites for visible-light-driven photocatalytic overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1646-1652.	6.0	92
9	One-step synthesis of chiral carbon quantum dots and their enantioselective recognition. <i>RSC Advances</i> , 2016, 6, 59956-59960.	3.6	78
10	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 . <i>Advanced Energy Materials</i> , 2018, 8, 1802525.	19.5	78
11	Control Strategy on Two-/Four-Electron Pathway of Water Splitting by Multidoped Carbon Based Catalysts. <i>ACS Catalysis</i> , 2017, 7, 1637-1645.	11.2	66
12	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.	5.1	66
13	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. <i>Nanoscale</i> , 2017, 9, 5467-5474.	5.6	65
14	Achieving electroreduction of CO ₂ to CH ₃ OH with high selectivity using a pyrite-nickel sulfide nanocomposite. <i>RSC Advances</i> , 2017, 7, 1376-1381.	3.6	60
15	Cobalt phosphide/carbon dots composite as an efficient electrocatalyst for oxygen evolution reaction. <i>Dalton Transactions</i> , 2018, 47, 5459-5464.	3.3	58
16	Highly Tunable Heterojunctions from Multimetallic Sulfide Nanoparticles and Silver Nanowires. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5374-5378.	13.8	57
17	New Insight of Water-Splitting Photocatalyst: H ₂ O ₂ -Resistance Poisoning and Photothermal Deactivation in Sub-micrometer CoO Octahedrons. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20585-20593.	8.0	51
18	Cu-CDots nanocorals as electrocatalyst for highly efficient CO ₂ reduction to formate. <i>Nanoscale</i> , 2017, 9, 298-304.	5.6	49

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19	Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 166-174.	20.2	46
20	Negatively Charged Carbon Nanodots with Bacteria Resistance Ability for High-Performance Antibiofilm Formation and Anticorrosion Coating Design. <i>Small</i> , 2019, 15, e1900007.	10.0	46
21	Cascaded photo-potential in a carbon dot-hematite system driving overall water splitting under visible light. <i>Nanoscale</i> , 2018, 10, 2454-2460.	5.6	43
22	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.	20.2	42
23	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.	30.8	41
24	Strong coupling effect at the interface of cobalt phosphate-carbon dots boost photocatalytic water splitting. <i>Journal of Colloid and Interface Science</i> , 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. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3536-3543.	6.7	35
26	Air activation by a metal-free photocatalyst for "totally-green" hydrocarbon selective oxidation. <i>Catalysis Science and Technology</i> , 2016, 6, 7252-7258.	4.1	32
27	Interpretable molecular models for molybdenum disulfide and insight into selective peptide recognition. <i>Chemical Science</i> , 2020, 11, 8708-8722.	7.4	32
28	Understanding the Surface Reactivity of Ligand-Protected Metal Nanoparticles for Biomass Upgrading. <i>ACS Catalysis</i> , 2020, 10, 5462-5474.	11.2	32
29	CoMn-S/CDs nanocomposite for effective long wavelength visible-light-driven photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 295-302.	20.2	30
30	A nitrogen and boron co-doped metal-free carbon electrocatalyst for an efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2985-2991.	6.0	30
31	"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.	10.3	28
32	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. <i>Nanoscale</i> , 2019, 11, 15984-15990.	5.6	28
33	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.	5.6	22
34	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.	7.1	19
35	Highly mesoporous carbon nitride photocatalysts for efficient and stable overall water splitting. <i>Applied Surface Science</i> , 2020, 509, 144706.	6.1	15
36	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.	4.4	14

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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.	2.8	5