

Long Ren

List of Publications by Year in descending order

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65
papers

4,668
citations

81900

39
h-index

110387

64
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68
docs citations

68
times ranked

7776
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs _{1-x} FaxPbI ₃ quantum dot solar cells with reduced phase segregation. <i>Nature Energy</i> , 2020, 5, 79-88.	39.5	412
2	Recent Development of Zeolitic Imidazolate Frameworks (ZIFs) Derived Porous Carbon Based Materials as Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1801257.	19.5	242
3	Band-gap engineering of BiOCl with oxygen vacancies for efficient photooxidation properties under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2193-2199.	10.3	232
4	Enhanced photocatalytic activities of three-dimensional graphene-based aerogel embedding TiO ₂ nanoparticles and loading MoS ₂ nanosheets as Co-catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19502-19512.	7.1	160
5	Large-scale production of ultrathin topological insulator bismuth telluride nanosheets by a hydrothermal intercalation and exfoliation route. <i>Journal of Materials Chemistry</i> , 2012, 22, 4921.	6.7	158
6	Photoelectrochemical-type sunlight photodetector based on MoS ₂ /graphene heterostructure. <i>2D Materials</i> , 2015, 2, 035011.	4.4	158
7	Nanodroplets for Stretchable Superconducting Circuits. <i>Advanced Functional Materials</i> , 2016, 26, 8111-8118.	14.9	158
8	Synthesis of CdS/ZnO/graphene composite with high-efficiency photoelectrochemical activities under solar radiation. <i>Applied Surface Science</i> , 2014, 299, 12-18.	6.1	144
9	Self-Assembled Three-Dimensional Graphene-Based Aerogel with Embedded Multifarious Functional Nanoparticles and Its Excellent Photoelectrochemical Activities. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 741-748.	6.7	143
10	Facile hydrothermal synthesis of NiMoO ₄ @CoMoO ₄ hierarchical nanospheres for supercapacitor applications. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20795-20804.	2.8	143
11	Activating Titania for Efficient Electrocatalysis by Vacancy Engineering. <i>ACS Catalysis</i> , 2018, 8, 4288-4293.	11.2	141
12	Self-assembled free-standing three-dimensional nickel nanoparticle/graphene aerogel for direct ethanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5689.	10.3	139
13	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. <i>Scientific Reports</i> , 2015, 5, 14229.	3.3	139
14	One-pot synthesis of hierarchically nanostructured Ni ₃ S ₂ dendrites as active materials for supercapacitors. <i>Electrochimica Acta</i> , 2014, 149, 316-323.	5.2	124
15	Three-dimensional-networked Ni-Co-Se nanosheet/nanowire arrays on carbon cloth: A flexible electrode for efficient hydrogen evolution. <i>Electrochimica Acta</i> , 2016, 200, 142-151.	5.2	121
16	Upconversion-P25-graphene composite as an advanced sunlight driven photocatalytic hybrid material. <i>Journal of Materials Chemistry</i> , 2012, 22, 11765.	6.7	119
17	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 1231-1240.	17.4	111
18	A Liquidâ€Metalâ€Based Magnetoactive Slurry for Stimuliâ€Responsive Mechanically Adaptive Electrodes. <i>Advanced Materials</i> , 2018, 30, e1802595.	21.0	106

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19	Recent progress on liquid metals and their applications. <i>Advances in Physics: X</i> , 2018, 3, 1446359.	4.1	85
20	Liquid metals and their hybrids as stimulus-responsive smart materials. <i>Materials Today</i> , 2020, 34, 92-114.	14.2	78
21	Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation. <i>Advanced Functional Materials</i> , 2019, 29, 1808084.	14.9	76
22	Photoresponse properties of ultrathin Bi ₂ Se ₃ nanosheets synthesized by hydrothermal intercalation and exfoliation route. <i>Applied Surface Science</i> , 2014, 316, 341-347.	6.1	75
23	3D Binder-free MoSe ₂ Nanosheets/Carbon Cloth Electrodes for Efficient and Stable Hydrogen Evolution Prepared by Simple Electrophoresis Deposition Strategy. <i>Scientific Reports</i> , 2016, 6, 22516.	3.3	75
24	Hydrothermal synthesis of Ni ₃ S ₂ /graphene electrode and its application in a supercapacitor. <i>RSC Advances</i> , 2014, 4, 37278-37283.	3.6	71
25	One-step electrochemical deposition of nickel sulfide/graphene and its use for supercapacitors. <i>Ceramics International</i> , 2014, 40, 8189-8193.	4.8	60
26	Hydrogen Terminated Germanene for a Robust Self-Powered Flexible Photoelectrochemical Photodetector. <i>Small</i> , 2020, 16, e2000283.	10.0	58
27	One-pot electrodeposition synthesis of ZnO/graphene composite and its use as binder-free electrode for supercapacitor. <i>Ceramics International</i> , 2015, 41, 4374-4380.	4.8	56
28	In-situ grafting of N-doped carbon nanotubes with Ni encapsulation onto MOF-derived hierarchical hybrids for efficient electrocatalytic hydrogen evolution. <i>Carbon</i> , 2020, 163, 178-185.	10.3	56
29	Direct Vapor Deposition Growth of 1T MoTe ₂ on Carbon Cloth for Electrocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2020, 3, 3212-3219.	5.1	52
30	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. <i>RSC Advances</i> , 2014, 4, 13673.	3.6	48
31	Ordered platinum-bismuth intermetallic clusters with Pt-skin for a highly efficient electrochemical ethanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5214-5220.	10.3	48
32	SnS ₂ nanoplates embedded in 3D interconnected graphene network as anode material with superior lithium storage performance. <i>Applied Surface Science</i> , 2015, 355, 7-13.	6.1	47
33	Electrostatic properties of few-layer MoS ₂ films. <i>AIP Advances</i> , 2013, 3, .	1.3	46
34	A ferroelectric photocatalyst Ag ₁₀ Si ₄ O ₁₃ with visible-light photooxidation properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10992-10999.	10.3	46
35	Laser-Generated Supranano Liquid Metal as Efficient Electron Mediator in Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2001571.	21.0	46
36	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metal-Support Interaction Boosts Photocatalysis. <i>Small</i> , 2020, 16, e2002356.	10.0	45

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37	An architected TiO ₂ nanosheet with discrete integrated nanocrystalline subunits and its application in lithium batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 21513.	6.7	44
38	Photoresponse properties of large-area MoS ₂ atomic layer synthesized by vapor phase deposition. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	42
39	Ultraviolet, visible, and near infrared photoresponse properties of solution processed graphene oxide. <i>Applied Surface Science</i> , 2013, 266, 332-336.	6.1	39
40	Gallium-based liquid metals for lithium-ion batteries. , 2022, 1, 354-372.		39
41	Hydrothermal exfoliated molybdenum disulfide nanosheets as anode material for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2014, 23, 207-212.	12.9	36
42	Selective Ferroelectric BiO ₁ /Bi ₄ /Ti ₃ O ₁₂ Heterostructures for Visible Light-Driven Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 517-525.	3.1	36
43	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. <i>ChemCatChem</i> , 2020, 12, 3870-3879.	3.7	34
44	Construction of 2D lateral pseudoheterostructures by strain engineering. <i>2D Materials</i> , 2017, 4, 025102.	4.4	31
45	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13629-13634.	10.3	30
46	General Programmable Growth of Hybrid Core-Shell Nanostructures with Liquid Metal Nanodroplets. <i>Advanced Materials</i> , 2021, 33, e2008024.	21.0	28
47	One-step hydrothermal fabrication and enhancement of the photocatalytic performance of CdMoO ₄ /CdS hybrid materials. <i>RSC Advances</i> , 2014, 4, 8772.	3.6	27
48	Graphene-supported flocculent-like TiO ₂ nanostructures for enhanced photoelectrochemical activity and photodegradation performance. <i>Ceramics International</i> , 2015, 41, 7471-7477.	4.8	26
49	Atomic Structural Evolution of Single-layer Pt Clusters as Efficient Electrocatalysts. <i>Small</i> , 2021, 17, e2100732.	10.0	26
50	Growth and surface potential characterization of Bi ₂ Te ₃ nanoplates. <i>AIP Advances</i> , 2012, 2, .	1.3	25
51	Enhancement of charge separation in ferroelectric heterogeneous photocatalyst Bi ₄ (SiO ₄) ₃ /Bi ₂ SiO ₅ nanostructures. <i>Dalton Transactions</i> , 2017, 46, 15582-15588.	3.3	25
52	The role of oxygen vacancies in the high cycling endurance and quantum conductance in BiVO ₄ -based resistive switching memory. <i>Informa-Materially</i> , 2020, 2, 960-967.	17.3	21
53	Wearable Piezoelectric Nanogenerators Based on Core-Shell Ga-PZT@GaO _x Nanorod-Enabled P(VDF-TrFE) Composites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7990-8000.	8.0	21
54	Enhanced photoresponse behavior of Au@Bi ₂ Te ₃ based photoelectrochemical-type photodetector at solid-solid-liquid joint interface. <i>Materials Today Energy</i> , 2020, 16, 100401.	4.7	17

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55	Morphology engineering of atomic layer defect-rich CoSe ₂ nanosheets for highly selective electrosynthesis of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21340-21346.	10.3	16
56	In-situ investigation of graphene oxide under UV irradiation: Evolution of work function. <i>AIP Advances</i> , 2015, 5, .	1.3	14
57	New monatomic layer clusters for advanced catalysis materials. <i>Science China Materials</i> , 2019, 62, 149-153.	6.3	12
58	Rational design of two-dimensional hybrid Co/N-doped carbon nanosheet arrays for efficient bi-functional electrocatalysis. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1757-1763.	4.9	11
59	Significant photoluminescence quenching and charge transfer in the MoS ₂ /Bi ₂ Te ₃ heterostructure. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 128, 337-342.	4.0	11
60	Morphological alteration of anatase titania nanostructures depend on the amount of Na ion intercalation. <i>Crystal Research and Technology</i> , 2012, 47, 738-745.	1.3	10
61	Synthesis, characterization and electrostatic properties of WS ₂ nanostructures. <i>AIP Advances</i> , 2014, 4, .	1.3	9
62	Native Surface Oxides Featured Liquid Metals for Printable Self-Powered Photoelectrochemical Device. <i>Frontiers in Chemistry</i> , 2019, 7, 356.	3.6	6
63	Ultrafine multi-metallic carbide nanocrystals encased in a carbon matrix as durable electrocatalysts towards effective alkaline hydrogen evolution reaction. <i>Materials Advances</i> , 2021, 2, 336-344.	5.4	6
64	Room temperature liquid metals for flexible alkali metal-chalcogen batteries. <i>Exploration</i> , 2022, 2, .	11.0	5
65	2D Heterostructures: Monolayer Epitaxial Heterostructures for Selective Visible-Light-Driven Photocatalytic NO Oxidation (<i>Adv. Funct. Mater.</i> 15/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970100.	14.9	1