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 g-index
68 all docs	68 docs citations	68 times ranked	7776 citing authors

#	Article	IF	Citations
1	Wearable Piezoelectric Nanogenerators Based on Coreâ€“Shell Ga-PZT@GaO_x Nanorod-Enabled P(VDF-TrFE) Composites. ACS Applied Materials & Interfaces, 2022, 14, 7990-8000.	8.0	21
2	Room temperature liquid metals for flexible alkali metalâ€chalcogen batteries. Exploration, 2022, 2, .	11.0	5
3	Galliumâ€based liquid metals for lithiumâ€ion batteries. , 2022, 1, 354-372.		39
4	Ultrafine multi-metallic carbide nanocrystals encased in a carbon matrix as durable electrocatalysts towards effective alkaline hydrogen evolution reaction. Materials Advances, 2021, 2, 336-344.	5.4	6
5	Morphology engineering of atomic layer defect-rich CoSe₂ nanosheets for highly selective electrosynthesis of hydrogen peroxide. Journal of Materials Chemistry A, 2021, 9, 21340-21346.	10.3	16
6	General Programmable Growth of Hybrid Coreâ€“Shell Nanostructures with Liquid Metal Nanodroplets. Advanced Materials, 2021, 33, e2008024.	21.0	28
7	Atomic Structural Evolution of Singleâ€Layer Pt Clusters as Efficient Electrocatalysts. Small, 2021, 17, e2100732.	10.0	26
8	Liquid metals and their hybrids as stimulusâ€“responsive smart materials. Materials Today, 2020, 34, 92-114.	14.2	78
9	Direct Vapor Deposition Growth of 1Tâ€² MoTe₂ on Carbon Cloth for Electrocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2020, 3, 3212-3219.	5.1	52
10	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metalâ€“Support Interaction Boosts Photocatalysis. Small, 2020, 16, e2002356.	10.0	45
11	Hydrogen Terminated Germanene for a Robust Selfâ€Powered Flexible Photoelectrochemical Photodetector. Small, 2020, 16, e2000283.	10.0	58
12	In-situ grafting of N-doped carbon nanotubes with Ni encapsulation onto MOF-derived hierarchical hybrids for efficient electrocatalytic hydrogen evolution. Carbon, 2020, 163, 178-185.	10.3	56
13	Laserâ€Generated Supranano Liquid Metal as Efficient Electron Mediator in Hybrid Perovskite Solar Cells. Advanced Materials, 2020, 32, e2001571.	21.0	46
14	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs1â^'xFAxPbI3 quantum dot solar cells with reduced phase segregation. Nature Energy, 2020, 5, 79-88.	39.5	412
15	Single Cobalt Atom Anchored Black Phosphorous Nanosheets as an Effective Cocatalyst Promotes Photocatalysis. ChemCatChem, 2020, 12, 3870-3879.	3.7	34
16	The role of oxygen vacancies in the high cycling endurance and quantum conductance in BiVO₄â€based resistive switching memory. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 960-967.	17.3	21
17	Enhanced photoresponse behavior of Au@Bi2Te3 based photoelectrochemical-type photodetector at solid-solid-liquid joint interface. Materials Today Energy, 2020, 16, 100401.	4.7	17
18	New monatomic layer clusters for advanced catalysis materials. Science China Materials, 2019, 62, 149-153.	6.3	12

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19	Native Surface Oxides Featured Liquid Metals for Printable Self-Powered Photoelectrochemical Device. Frontiers in Chemistry, 2019, 7, 356.	3.6	6
20	Boosting NIR-driven photocatalytic water splitting by constructing 2D/3D epitaxial heterostructures. Journal of Materials Chemistry A, 2019, 7, 13629-13634.	10.3	30
21	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. ACS Energy Letters, 2019, 4, 1231-1240.	17.4	111
22	Rational design of two-dimensional hybrid Co/N-doped carbon nanosheet arrays for efficient bi-functional electrocatalysis. Sustainable Energy and Fuels, 2019, 3, 1757-1763.	4.9	11
23	2D Heterostructures: Monolayer Epitaxial Heterostructures for Selective Visibleâ€Lightâ€Driven Photocatalytic NO Oxidation (Adv. Funct. Mater. 15/2019). Advanced Functional Materials, 2019, 29, 1970100.	14.9	1
24	Monolayer Epitaxial Heterostructures for Selective Visibleâ€Lightâ€Driven Photocatalytic NO Oxidation. Advanced Functional Materials, 2019, 29, 1808084.	14.9	76
25	Selective Ferroelectric BiOI/Bi₄Ti₃O₁₂ Heterostructures for Visible Light-Driven Photocatalysis. Journal of Physical Chemistry C, 2019, 123, 517-525.	3.1	36
26	Significant photoluminescence quenching and charge transfer in the MoS2/Bi2Te3 heterostructure. Journal of Physics and Chemistry of Solids, 2019, 128, 337-342.	4.0	11
27	Ordered platinumâ€“bismuth intermetallic clusters with Pt-skin for a highly efficient electrochemical ethanol oxidation reaction. Journal of Materials Chemistry A, 2019, 7, 5214-5220.	10.3	48
28	Recent progress on liquid metals and their applications. Advances in Physics: X, 2018, 3, 1446359.	4.1	85
29	Activating Titania for Efficient Electrocatalysis by Vacancy Engineering. ACS Catalysis, 2018, 8, 4288-4293.	11.2	141
30	Band-gap engineering of BiOCl with oxygen vacancies for efficient photooxidation properties under visible-light irradiation. Journal of Materials Chemistry A, 2018, 6, 2193-2199.	10.3	232
31	A Liquidâ€Metalâ€Based Magnetoactive Slurry for Stimuliâ€Responsive Mechanically Adaptive Electrodes. Advanced Materials, 2018, 30, e1802595.	21.0	106
32	Recent Development of Zeolitic Imidazolate Frameworks (ZIFs) Derived Porous Carbon Based Materials as Electrocatalysts. Advanced Energy Materials, 2018, 8, 1801257.	19.5	242
33	Construction of 2D lateral pseudoheterostructures by strain engineering. 2D Materials, 2017, 4, 025102.	4.4	31
34	Enhancement of charge separation in ferroelectric heterogeneous photocatalyst Bi₄(SiO₄)₃/Bi₂SiO₅ nanostructures. Dalton Transactions, 2017, 46, 15582-15588.	3.3	25
35	Three-dimensional-networked Ni-Co-Se nanosheet/nanowire arrays on carbon cloth: A flexible electrode for efficient hydrogen evolution. Electrochimica Acta, 2016, 200, 142-151.	5.2	121
36	Nanodroplets for Stretchable Superconducting Circuits. Advanced Functional Materials, 2016, 26, 8111-8118.	14.9	158

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37	3D Binder-free MoSe2 Nanosheets/Carbon Cloth Electrodes for Efficient and Stable Hydrogen Evolution Prepared by Simple Electrophoresis Deposition Strategy. Scientific Reports, 2016, 6, 22516.	3.3	75
38	A ferroelectric photocatalyst Ag₁₀Si₄O₁₃ with visible-light photooxidation properties. Journal of Materials Chemistry A, 2016, 4, 10992-10999.	10.3	46
39	3D hierarchical porous graphene aerogel with tunable meso-pores on graphene nanosheets for high-performance energy storage. Scientific Reports, 2015, 5, 14229.	3.3	139
40	In-situ investigation of graphene oxide under UV irradiation: Evolution of work function. AIP Advances, 2015, 5, .	1.3	14
41	Graphene-supported flocculent-like TiO2 nanostructures for enhanced photoelectrochemical activity and photodegradation performance. Ceramics International, 2015, 41, 7471-7477.	4.8	26
42	Photoelectrochemical-type sunlight photodetector based on MoS ₂ /graphene heterostructure. 2D Materials, 2015, 2, 035011.	4.4	158
43	SnS 2 nanoplates embedded in 3D interconnected graphene network as anode material with superior lithium storage performance. Applied Surface Science, 2015, 355, 7-13.	6.1	47
44	Facile hydrothermal synthesis of NiMoO₄@CoMoO₄hierarchical nanospheres for supercapacitor applications. Physical Chemistry Chemical Physics, 2015, 17, 20795-20804.	2.8	143
45	One-pot electrodeposition synthesis of ZnO/graphene composite and its use as binder-free electrode for supercapacitor. Ceramics International, 2015, 41, 4374-4380.	4.8	56
46	Photoresponse properties of large-area MoS2 atomic layer synthesized by vapor phase deposition. Journal of Applied Physics, 2014, 116, .	2.5	42
47	Synthesis, characterization and electrostatic properties of WS2 nanostructures. AIP Advances, 2014, 4, .	1.3	9
48	Synthesis of CdS/ZnO/graphene composite with high-efficiency photoelectrochemical activities under solar radiation. Applied Surface Science, 2014, 299, 12-18.	6.1	144
49	One-step electrochemical deposition of nickel sulfide/graphene and its use for supercapacitors. Ceramics International, 2014, 40, 8189-8193.	4.8	60
50	One-pot synthesis of hierarchically nanostructured Ni3S2 dendrites as active materials for supercapacitors. Electrochimica Acta, 2014, 149, 316-323.	5.2	124
51	One-step hydrothermal fabrication and enhancement of the photocatalytic performance of CdMoO4/CdS hybrid materials. RSC Advances, 2014, 4, 8772.	3.6	27
52	Electrochemically reduced graphene oxide with porous structure as a binder-free electrode for high-rate supercapacitors. RSC Advances, 2014, 4, 13673.	3.6	48
53	Enhanced photocatalytic activities of three-dimensional graphene-based aerogel embedding TiO 2 nanoparticles and loading MoS 2 nanosheets as Co-catalyst. International Journal of Hydrogen Energy, 2014, 39, 19502-19512.	7.1	160
54	Photoresponse properties of ultrathin Bi 2 Se 3 nanosheets synthesized by hydrothermal intercalation and exfoliation route. Applied Surface Science, 2014, 316, 341-347.	6.1	75

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55	Self-Assembled Three-Dimensional Graphene-Based Aerogel with Embedded Multifarious Functional Nanoparticles and Its Excellent Photoelectrochemical Activities. ACS Sustainable Chemistry and Engineering, 2014, 2, 741-748.	6.7	143
56	Hydrothermal synthesis of Ni₃S₂/graphene electrode and its application in a supercapacitor. RSC Advances, 2014, 4, 37278-37283.	3.6	71
57	Hydrothermal exfoliated molybdenum disulfide nanosheets as anode material for lithium ion batteries. Journal of Energy Chemistry, 2014, 23, 207-212.	12.9	36
58	Ultraviolet, visible, and near infrared photoresponse properties of solution processed graphene oxide. Applied Surface Science, 2013, 266, 332-336.	6.1	39
59	Electrostatic properties of few-layer MoS2 films. AIP Advances, 2013, 3, .	1.3	46
60	Self-assembled free-standing three-dimensional nickel nanoparticle/graphene aerogel for direct ethanol fuel cells. Journal of Materials Chemistry A, 2013, 1, 5689.	10.3	139
61	Growth and surface potential characterization of Bi2Te3 nanoplates. AIP Advances, 2012, 2, .	1.3	25
62	An architectured TiO2 nanosheet with discrete integrated nanocrystalline subunits and its application in lithium batteries. Journal of Materials Chemistry, 2012, 22, 21513.	6.7	44
63	Large-scale production of ultrathin topological insulator bismuth telluride nanosheets by a hydrothermal intercalation and exfoliation route. Journal of Materials Chemistry, 2012, 22, 4921.	6.7	158
64	Upconversion-P25-graphene composite as an advanced sunlight driven photocatalytic hybrid material. Journal of Materials Chemistry, 2012, 22, 11765.	6.7	119
65	Morphological alteration of anatase titania nanostructures depend on the amount of Na ion intercalation. Crystal Research and Technology, 2012, 47, 738-745.	1.3	10