

Dong Liu

List of Publications by Year in descending order

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45
papers

2,741
citations

201385

27
h-index

264894

42
g-index

45
all docs

45
docs citations

45
times ranked

4848
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect Engineering in Photocatalytic Methane Conversion. <i>Small Structures</i> , 2022, 3, 2100147.	6.9	43
2	Single-atom-based catalysts for photoelectrocatalysis: challenges and opportunities. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5878-5888.	5.2	17
3	Recent Advances in Porous Materials for Photocatalytic CO ₂ Reduction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1272-1282.	2.1	30
4	Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of H ₂ O ₂ . <i>Journal of the American Chemical Society</i> , 2022, 144, 2255-2263.	6.6	90
5	Reconstruction optimization of distorted FeOOH/Ni hydroxide for enhanced oxygen evolution reaction. <i>Materials Today Energy</i> , 2022, 27, 101005.	2.5	12
6	A hollow PdCuMoNiCo high-entropy alloy as an efficient bi-functional electrocatalyst for oxygen reduction and formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14857-14865.	5.2	28
7	Fundamental Insights into Surface Modification of Silicon Material toward Improved Activity and Durability in Photocatalytic Hydrogen Production: A Case Study of Pre-Lithiation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5542-5548.	1.5	7
8	Plasmonic Coupling Architectures for Enhanced Photocatalysis. <i>Advanced Materials</i> , 2021, 33, e2005738.	11.1	51
9	Supershape augmented reconstruction method for electrical impedance tomography. , 2021, , .		2
10	Shape and topology optimization in electrical impedance tomography via moving morphable components method. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 585-598.	1.7	5
11	Supershape Augmented Reconstruction Method Based on Boolean Operations in Electrical Impedance Tomography. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	2.4	2
12	Nonstationary Shape Estimation in Electrical Impedance Tomography Using a Parametric Level Set-Based Extended Kalman Filter Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1894-1907.	2.4	40
13	Multiphase Conductivity Imaging With Electrical Impedance Tomography and B-Spline Level Set Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 9634-9644.	2.4	15
14	Double-shelled Cu ₂ O/MnO _x mesoporous hollow structure for CO ₂ photoreduction with enhanced stability and activity. <i>Nanoscale</i> , 2020, 12, 13912-13917.	2.8	31
15	Optimizing Electrode Positions in 2-D Electrical Impedance Tomography Using Deep Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6030-6044.	2.4	27
16	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , 2019, 119, 9221-9259.	23.0	158
17	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019, 10, 1779.	5.8	185
18	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. <i>Nano Energy</i> , 2019, 60, 661-666.	8.2	52

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19	Damage Tomography as a State Estimation Problem: Crack Detection Using Conductive Area Sensors. , 2019, 3, 1-4.		11
20	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie, 2019, 131, 746-750.	1.6	55
21	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. Angewandte Chemie - International Edition, 2019, 58, 736-740.	7.2	335
22	Steering plasmonic hot electrons to realize enhanced full-spectrum photocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2018, 39, 453-462.	6.9	18
23	pH-sensitive zwitterionic coating of gold nanocages improves tumor targeting and photothermal treatment efficacy. Nano Research, 2018, 11, 3193-3204.	5.8	53
24	Mesoporous implantable Pt/SrTiO ₃ :C,N nanocuboids delivering enhanced photocatalytic H ₂ -production activity via plasmon-induced interfacial electron transfer. Applied Catalysis B: Environmental, 2018, 236, 338-347.	10.8	35
25	Nobleâ€Metalâ€Free Janusâ€like Structures by Cation Exchange for Zâ€Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 4206-4210.	7.2	166
26	Silicon nanostructures for solar-driven catalytic applications. Nano Today, 2017, 17, 96-116.	6.2	63
27	Highly Crystalline Mesoporous Silicon Spheres for Efficient Visible Photocatalytic Hydrogen Evolution. ChemNanoMat, 2017, 3, 22-26.	1.5	27
28	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO ₂ Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. Small, 2016, 12, 1640-1648.	5.2	136
29	Pd-Ag alloy hollow nanostructures with interatomic charge polarization for enhanced electrocatalytic formic acid oxidation. Nano Research, 2016, 9, 1590-1599.	5.8	102
30	The non-equilibrium phase diagrams of flow-induced crystallization and melting of polyethylene. Scientific Reports, 2016, 6, 32968.	1.6	47
31	Enhanced full-spectrum water splitting by confining plasmonic Au nanoparticles in N-doped TiO ₂ bowl nanoarrays. Nano Energy, 2016, 24, 87-93.	8.2	118
32	Flexible Nearâ€Infrared Photovoltaic Devices Based on Plasmonic Hotâ€Electron Injection into Silicon Nanowire Arrays. Angewandte Chemie, 2016, 128, 4653-4657.	1.6	7
33	Flexible Nearâ€Infrared Photovoltaic Devices Based on Plasmonic Hotâ€Electron Injection into Silicon Nanowire Arrays. Angewandte Chemie - International Edition, 2016, 55, 4577-4581.	7.2	64
34	Cooperative Nanoparticle System for Photothermal Tumor Treatment without Skin Damage. ACS Applied Materials & Interfaces, 2016, 8, 2847-2856.	4.0	24
35	The Nature of Photocatalytic â€Water Splittingâ€on Silicon Nanowires. Angewandte Chemie - International Edition, 2015, 54, 2980-2985.	7.2	97
36	Large-area synthesis of monolayer WSe ₂ on a SiO ₂ /Si substrate and its device applications. Nanoscale, 2015, 7, 4193-4198.	2.8	128

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37	The Nature of Photocatalytic "Water Splitting" on Silicon Nanowires. <i>Angewandte Chemie</i> , 2015, 127, 3023-3028.	1.6	7
38	The thermodynamic properties of flow-induced precursor of polyethylene. <i>Science China Chemistry</i> , 2015, 58, 1570-1578.	4.2	16
39	Pd-Ag alloy nanocages: integration of Ag plasmonic properties with Pd active sites for light-driven catalytic hydrogenation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9390-9394.	5.2	29
40	Kinetic Process of Shish Formation: From Stretched Network to Stabilized Nuclei. <i>Macromolecules</i> , 2015, 48, 5276-5285.	2.2	58
41	How flow affects crystallization in a heterogeneous polyethylene oxide melt. <i>RSC Advances</i> , 2014, 4, 9632.	1.7	7
42	Relaxation propelled long period change in the extension induced crystallization of polyethylene oxide. <i>Soft Matter</i> , 2013, 9, 10759.	1.2	9
43	Solar energy conversion with tunable plasmonic nanostructures for thermoelectric devices. <i>Nanoscale</i> , 2012, 4, 4416.	2.8	53
44	Hybrid Heterojunction Solar Cell Based on Organic-Inorganic Silicon Nanowire Array Architecture. <i>Journal of the American Chemical Society</i> , 2011, 133, 19408-19415.	6.6	275
45	Probabilistic cracking prediction via deep learned electrical tomography. <i>Structural Health Monitoring</i> , 0, , 147592172110372.	4.3	6