

# Dong Liu

## List of Publications by Year in descending order

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45  
papers

2,741  
citations

201674  
27  
h-index

265206  
42  
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45  
all docs

45  
docs citations

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times ranked

4848  
citing authors

#	ARTICLE	IF	CITATIONS
1	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 736-740.	13.8	335
2	Hybrid Heterojunction Solar Cell Based on Organic-Inorganic Silicon Nanowire Array Architecture. <i>Journal of the American Chemical Society</i> , 2011, 133, 19408-19415.	13.7	275
3	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019, 10, 1779.	12.8	185
4	Noble-Metal-Free Janus-Like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4206-4210.	13.8	166
5	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , 2019, 119, 9221-9259.	47.7	158
6	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO <sub>2</sub> Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. <i>Small</i> , 2016, 12, 1640-1648.	10.0	136
7	Large-area synthesis of monolayer WSe <sub>2</sub> on a SiO <sub>2</sub> /Si substrate and its device applications. <i>Nanoscale</i> , 2015, 7, 4193-4198.	5.6	128
8	Enhanced full-spectrum water splitting by confining plasmonic Au nanoparticles in N-doped TiO <sub>2</sub> bowl nanoarrays. <i>Nano Energy</i> , 2016, 24, 87-93.	16.0	118
9	Pd-Ag alloy hollow nanostructures with interatomic charge polarization for enhanced electrocatalytic formic acid oxidation. <i>Nano Research</i> , 2016, 9, 1590-1599.	10.4	102
10	The Nature of Photocatalytic "Water Splitting" on Silicon Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2980-2985.	13.8	97
11	Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of H <sub>2</sub> O <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2022, 144, 2255-2263.	13.7	90
12	Flexible Near-Infrared Photovoltaic Devices Based on Plasmonic Hot-Electron Injection into Silicon Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4577-4581.	13.8	64
13	Silicon nanostructures for solar-driven catalytic applications. <i>Nano Today</i> , 2017, 17, 96-116.	11.9	63
14	Kinetic Process of Shish Formation: From Stretched Network to Stabilized Nuclei. <i>Macromolecules</i> , 2015, 48, 5276-5285.	4.8	58
15	NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 746-750.	2.0	55
16	Solar energy conversion with tunable plasmonic nanostructures for thermoelectric devices. <i>Nanoscale</i> , 2012, 4, 4416.	5.6	53
17	pH-sensitive zwitterionic coating of gold nanocages improves tumor targeting and photothermal treatment efficacy. <i>Nano Research</i> , 2018, 11, 3193-3204.	10.4	53
18	Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. <i>Nano Energy</i> , 2019, 60, 661-666.	16.0	52

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19	Plasmonic Coupling Architectures for Enhanced Photocatalysis. <i>Advanced Materials</i> , 2021, 33, e2005738.	21.0	51
20	The non-equilibrium phase diagrams of flow-induced crystallization and melting of polyethylene. <i>Scientific Reports</i> , 2016, 6, 32968.	3.3	47
21	Defect Engineering in Photocatalytic Methane Conversion. <i>Small Structures</i> , 2022, 3, 2100147.	12.0	43
22	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.	4.7	40
23	Mesoporous implantable Pt/SrTiO <sub>3</sub> :C,N nanocuboids delivering enhanced photocatalytic H <sub>2</sub> -production activity via plasmon-induced interfacial electron transfer. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 338-347.	20.2	35
24	Double-shelled Cu <sub>2</sub> O/MnO <sub>x</sub> mesoporous hollow structure for CO <sub>2</sub> photoreduction with enhanced stability and activity. <i>Nanoscale</i> , 2020, 12, 13912-13917.	5.6	31
25	Recent Advances in Porous Materials for Photocatalytic CO <sub>2</sub> Reduction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1272-1282.	4.6	30
26	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.	10.3	29
27	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.	10.3	28
28	Highly Crystalline Mesoporous Silicon Spheres for Efficient Visible Photocatalytic Hydrogen Evolution. <i>ChemNanoMat</i> , 2017, 3, 22-26.	2.8	27
29	Optimizing Electrode Positions in 2-D Electrical Impedance Tomography Using Deep Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6030-6044.	4.7	27
30	Cooperative Nanoparticle System for Photothermal Tumor Treatment without Skin Damage. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2847-2856.	8.0	24
31	Steering plasmonic hot electrons to realize enhanced full-spectrum photocatalytic hydrogen evolution. <i>Chinese Journal of Catalysis</i> , 2018, 39, 453-462.	14.0	18
32	Single-atom-based catalysts for photoelectrocatalysis: challenges and opportunities. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5878-5888.	10.3	17
33	The thermodynamic properties of flow-induced precursor of polyethylene. <i>Science China Chemistry</i> , 2015, 58, 1570-1578.	8.2	16
34	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.	4.7	15
35	Reconstruction optimization of distorted FeOOH/Ni hydroxide for enhanced oxygen evolution reaction. <i>Materials Today Energy</i> , 2022, 27, 101005.	4.7	12
36	Damage Tomography as a State Estimation Problem: Crack Detection Using Conductive Area Sensors. , 2019, 3, 1-4.		11

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37	Relaxation propelled long period change in the extension induced crystallization of polyethylene oxide. Soft Matter, 2013, 9, 10759.	2.7	9
38	How flow affects crystallization in a heterogeneous polyethylene oxide melt. RSC Advances, 2014, 4, 9632.	3.6	7
39	The Nature of Photocatalytic "Water Splitting" on Silicon Nanowires. Angewandte Chemie, 2015, 127, 3023-3028.	2.0	7
40	Flexible Near-Infrared Photovoltaic Devices Based on Plasmonic Hot-Electron Injection into Silicon Nanowire Arrays. Angewandte Chemie, 2016, 128, 4653-4657.	2.0	7
41	Fundamental Insights into Surface Modification of Silicon Material toward Improved Activity and Durability in Photocatalytic Hydrogen Production: A Case Study of Pre-Lithiation. Journal of Physical Chemistry C, 2021, 125, 5542-5548.	3.1	7
42	Probabilistic cracking prediction via deep learned electrical tomography. Structural Health Monitoring, 0, , 147592172110372.	7.5	6
43	Shape and topology optimization in electrical impedance tomography via moving morphable components method. Structural and Multidisciplinary Optimization, 2021, 64, 585-598.	3.5	5
44	Supershape augmented reconstruction method for electrical impedance tomography. , 2021, , .		2
45	Supershape Augmented Reconstruction Method Based on Boolean Operations in Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	2