

# Dongsheng Li

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2888312/publications.pdf>

Version: 2024-02-01

45  
papers

3,199  
citations

304743

22  
h-index

223800

46  
g-index

48  
all docs

48  
docs citations

48  
times ranked

5522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direction-Specific Interactions Control Crystal Growth by Oriented Attachment. <i>Science</i> , 2012, 336, 1014-1018.	12.6	958
2	Self-Assembled Fe-Doped Carbon Nanotube Aerogels with Single-Atom Catalyst Feature as High-Efficiency Oxygen Reduction Electrocatalysts. <i>Small</i> , 2017, 13, 1603407.	10.0	254
3	Porous Platinum Nanotubes for Oxygen Reduction and Methanol Oxidation Reactions. <i>Advanced Functional Materials</i> , 2010, 20, 3742-3746.	14.9	243
4	Oriented attachment induces fivefold twins by forming and decomposing high-energy grain boundaries. <i>Science</i> , 2020, 367, 40-45.	12.6	136
5	TiO <sub>2-x</sub> /CoO <sub>x</sub> photocatalyst sparkles in photothermocatalytic reduction of CO <sub>2</sub> with H <sub>2</sub> O steam. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 760-770.	20.2	132
6	Towards data-driven next-generation transmission electron microscopy. <i>Nature Materials</i> , 2021, 20, 274-279.	27.5	130
7	Realization of an intrinsic ferromagnetic topological state in MnBi <sub>8</sub> Te <sub>13</sub> . <i>Science Advances</i> , 2020, 6, eaba4275.	10.3	122
8	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. <i>ACS Catalysis</i> , 2019, 9, 8712-8718.	11.2	103
9	Enhanced photocatalytic hydrogen evolution by partially replaced corner-site C atom with P in g-C <sub>3</sub> N <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , 2019, 244, 486-493.	20.2	103
10	Shape-preserving amorphous-to-crystalline transformation of CaCO <sub>3</sub> revealed by in situ TEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3397-3404.	7.1	97
11	Investigating Processes of Nanocrystal Formation and Transformation via Liquid Cell TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 425-436.	0.4	94
12	Nucleation and Crystal Growth of Nanocrystalline Anatase and Rutile Phase TiO <sub>2</sub> from a Water-Soluble Precursor. <i>Crystal Growth and Design</i> , 2010, 10, 5254-5261.	3.0	76
13	Revisiting Pt/TiO <sub>2</sub> photocatalysts for thermally assisted photocatalytic reduction of CO <sub>2</sub> . <i>Nanoscale</i> , 2020, 12, 7000-7010.	5.6	73
14	Growth Mechanism of Highly Branched Titanium Dioxide Nanowires via Oriented Attachment. <i>Crystal Growth and Design</i> , 2013, 13, 422-428.	3.0	68
15	Performance of Base and Noble Metals for Electrocatalytic Hydrogenation of Bio-Oil-Derived Oxygenated Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4407-4418.	6.7	65
16	Phase Transformations and Structural Developments in the Radular Teeth of <i>Cryptochiton Stelleri</i> . <i>Advanced Functional Materials</i> , 2013, 23, 2908-2917.	14.9	63
17	Trends in mica-mica adhesion reflect the influence of molecular details on long-range dispersion forces underlying aggregation and coalignment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7537-7542.	7.1	56
18	Electrochemically Tunable Proton-Coupled Electron Transfer in Pd-Catalyzed Benzaldehyde Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1501-1505.	13.8	53

#	ARTICLE	IF	CITATIONS
19	Two-Dimensional N,S-Codoped Carbon/Co <sub>9</sub> S <sub>8</sub> Catalysts Derived from Co(OH) <sub>2</sub> Nanosheets for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 36755-36761.	8.0	45
20	Urease-Mediated Room-Temperature Synthesis of Nanocrystalline Titanium Dioxide. Journal of the American Chemical Society, 2012, 134, 13974-13977.	13.7	40
21	Mechanistic Understanding of the Growth Kinetics and Dynamics of Nanoparticle Superlattices by Coupling Interparticle Forces from Real-Time Measurements. ACS Nano, 2018, 12, 12778-12787.	14.6	34
22	Edge Dislocations Induce Improved Photocatalytic Efficiency of Colored TiO <sub>2</sub> . Advanced Materials Interfaces, 2019, 6, 1901121.	3.7	30
23	Strain Relaxation-Induced Twin Interface Migration and Morphology Evolution of Silver Nanoparticles. Chemistry of Materials, 2019, 31, 842-850.	6.7	20
24	Interplay between Short- and Long-Ranged Forces Leading to the Formation of Ag Nanoparticle Superlattice. Small, 2019, 15, 1901966.	10.0	19
25	Amorphous Ag <sub>2-x</sub> Cu <sub>x</sub> S quantum dots: "all-in-one" theranostic nanomedicines for near-infrared fluorescence/photoacoustics dual-modal-imaging-guided photothermal therapy. Chemical Engineering Journal, 2020, 399, 125777.	12.7	19
26	Kinetics of crystal growth of nanogoethite in aqueous solutions containing nitrate and sulfate anions. CrystEngComm, 2014, 16, 1466-1471.	2.6	18
27	Electrochemically Tunable Proton-Coupled Electron Transfer in Pd-Catalyzed Benzaldehyde Hydrogenation. Angewandte Chemie, 2020, 132, 1517-1521.	2.0	18
28	Synthesis of Pt Nanoparticles and Nanorods by Microwave-assisted Solvothermal Technique. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2006, 61, 1566-1572.	0.7	17
29	Investigating the magnitude and source of orientation-dependent interactions between TiO <sub>2</sub> crystal surfaces. Nanoscale, 2017, 9, 10173-10177.	5.6	15
30	Phase transformations among TiO <sub>2</sub> polymorphs. Nanoscale, 2020, 12, 23183-23190.	5.6	15
31	Silver Nanocube and Nanobar Growth via Anisotropic Monomer Addition and Particle Attachment Processes. Langmuir, 2018, 34, 1466-1472.	3.5	13
32	Solvothermal synthesis of a highly branched Ta-doped TiO <sub>2</sub> . Journal of Materials Research, 2011, 26, 2653-2659.	2.6	11
33	Design, Fabrication, and Applications of In Situ Fluid Cell TEM. Methods in Enzymology, 2013, 532, 147-164.	1.0	9
34	<i>In situ</i> characterization of kinetics and mass transport of PbSe nanowire growth <i>via</i> LS and VLS mechanisms. Nanoscale, 2019, 11, 5874-5878.	5.6	9
35	Effects of catalyst droplets on wire growth and the resulting branched structures during VLS growth. Nanoscale, 2020, 12, 7538-7543.	5.6	7
36	Further insights into the Fe(II) reduction of 2-line ferrihydrite: a semi <i>in situ</i> and <i>in situ</i> TEM study. Nanoscale Advances, 2020, 2, 4938-4950.	4.6	5

#	ARTICLE	IF	CITATIONS
37	Atomic Gradient Structure Alters Electronic Structure in 3D across the Bulk and Enhances Photoactivity. <i>Advanced Energy Materials</i> , 2021, 11, 2003548.	19.5	5
38	Tuning proton transfer and catalytic properties in triple junction nanostructured catalyts. <i>Nano Energy</i> , 2021, 86, 106046.	16.0	5
39	Grainâ€Boundaryâ€Rich Noble Metal Nanoparticle Assemblies: Synthesis, Characterization, and Reactivity. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	5
40	Nucleation and growth of PbSeO <sub>3</sub> , Pb <sub>3</sub> (CO <sub>3</sub> ) <sub>2</sub> (OH) <sub>2</sub> , and Se on the PbSe surfaces by decomposing PbSe in water. <i>Inorganic Chemistry Communication</i> , 2020, 118, 107989.	3.9	3
41	Fabrication of oriented crystals as force measurement tips via focused ion beam and microlithography methods. <i>Surface and Interface Analysis</i> , 2018, 50, 117-122.	1.8	2
42	Design of additively manufactured methanol conversion reactor for high throughput production. <i>Material Design and Processing Communications</i> , 2021, 3, e143.	0.9	2
43	TiO <sub>2</sub> Phase Transformation Mechanisms at Atomic Scale under Heating and Electron Beam Irradiation. <i>Microscopy and Microanalysis</i> , 2019, 25, 1868-1869.	0.4	1
44	Formation of pyrophosphates across grain boundaries induces the formation of mismatched but oriented interfaces in silver phosphate polypods. <i>Applied Surface Science</i> , 2021, 563, 149980.	6.1	1
45	Ion redistributions at interfaces facilitate nucleation and growth of branched Ag <sub>3</sub> PO <sub>4</sub> polypods. <i>Materials Letters</i> , 2020, 272, 127848.	2.6	0