

# Deliang Chen

## List of Publications by Year in descending order

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95  
papers

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citations

109137

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82410

72  
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96  
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96  
docs citations

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times ranked

6257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced triethylamine-sensing properties of hierarchical molybdenum trioxide nanostructures derived by oxidizing molybdenum disulfide nanosheets. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 624-636.	5.0	25
2	Superior electrocatalytic ORR performance of Melaleuca Leucadendron L barks derived hierarchical porous carbon with abundant atom-scale vacancies and multiheteroatoms. <i>Ceramics International</i> , 2022, 48, 11111-11123.	2.3	5
3	Removal of persistent acetophenone from industrial waste-water via bismuth ferrite nanostructures. <i>Chemosphere</i> , 2022, 302, 134750.	4.2	7
4	Which is Better for Nanomedicines: Nanocatalysts or Single-Atom Catalysts?. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001897.	3.9	13
5	Valence State Control of Manganese in $MgAl_2O_4:Mn^{4+}$ Phosphor by Varying the $Al_2O_3$ Crystal Form. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 513.	0.6	4
6	Solution growth of millimeter-scale $Na_2SiF_6$ single crystals for $Mn^{4+}$ -doping as red phosphor. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5077-5085.	1.9	11
7	Synergetic integration of passivation layer and oxygen vacancy on hematite nanoarrays for boosted photoelectrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119760.	10.8	40
8	Linear-PEI-Derived Hierarchical Porous Carbon Nanonet Flakes Decorated with $MoS_2$ as Efficient Polysulfides Stabilization Interlayers for Lithium-Sulfur Battery. <i>Energy &amp; Fuels</i> , 2021, 35, 10303-10314.	2.5	11
9	Microwave-assisted reconstruction of spent graphite and its enhanced energy-storage performance as LIB anodes. <i>Surfaces and Interfaces</i> , 2021, 24, 101098.	1.5	20
10	Microwave-assisted synthesis of hierarchically porous $Co_3O_4/rGO$ nanocomposite for low-temperature acetone detection. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 690-701.	5.0	31
11	$BaTiF_6:Mn^{4+}$ Red Phosphor: Synthesis of Single Crystals at Room Temperature and the High Hydrolysis-Resistant Property. <i>Inorganic Chemistry</i> , 2021, 60, 13212-13221.	1.9	7
12	Comparative insight into effect of hybridizing potassium and hydrogen ions on photocatalytic Reduction/Oxidization behavior of g-C <sub>3</sub> N <sub>4</sub> nanocrystals. <i>Chemical Engineering Journal</i> , 2021, 417, 129187.	6.6	27
13	Investigation on g-C <sub>3</sub> N <sub>4</sub> /rGO/TiO <sub>2</sub> nanocomposite with enhanced photocatalytic degradation performance. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 156, 110181.	1.9	30
14	High temperature induced S vacancies in natural molybdenite for robust electrocatalytic nitrogen reduction. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 849-856.	5.0	16
15	Co-Ni Basic Carbonate Nanowire/Carbon Nanotube Network With High Electrochemical Capacitive Performance via Electrochemical Conversion. <i>Frontiers in Chemistry</i> , 2021, 9, 655025.	1.8	3
16	Effect of Co-Doping on Thermoelectric Properties of n-Type Bi <sub>2</sub> Te <sub>3</sub> Nanostructures Fabricated Using a Low-Temperature Sol-Gel Method. <i>Nanomaterials</i> , 2021, 11, 2719.	1.9	5
17	$Mo_2C-MXene/CdS$ Heterostructures as Visible-Light Photocatalysts with an Ultrahigh Hydrogen Production Rate. <i>ACS Applied Energy Materials</i> , 2021, 4, 12754-12766.	2.5	42
18	The influence of additive and temperature on thermal shock resistance of ZrB <sub>2</sub> based composites fabricated by Spark Plasma Sintering. <i>Materials Chemistry and Physics</i> , 2020, 240, 122061.	2.0	19

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19	A simple and recyclable molten-salt route to prepare superthin biocarbon sheets based on the high water-absorbent agaric for efficient lithium storage. <i>Carbon</i> , 2020, 157, 286-294.	5.4	23
20	Precursor-Engineering Coupled Microwave Molten-Salt Strategy Enhances Photocatalytic Hydrogen Evolution Performance of g-C <sub>3</sub> N <sub>4</sub> Nanostructures. <i>ChemSusChem</i> , 2020, 13, 827-837.	3.6	54
21	WO <sub>3</sub> quantum-dots electrochromism. <i>Nano Energy</i> , 2020, 68, 104350.	8.2	84
22	Microsized Red Luminescent MgAl <sub>2</sub> O <sub>4</sub> :Mn <sup>4+</sup> Single-Crystal Phosphor Grown in Molten Salt for White LEDs. <i>Inorganic Chemistry</i> , 2020, 59, 18374-18383.	1.9	19
23	Hierarchical three-dimensional MoS <sub>2</sub> /GO hybrid nanostructures for triethylamine-sensing applications with high sensitivity and selectivity. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128236.	4.0	67
24	Bio-inspired SiO <sub>2</sub> -hard-template reconstructed g-C <sub>3</sub> N <sub>4</sub> nanosheets for enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2020, 10, 4655-4662.	2.1	13
25	TiO <sub>2</sub> -Seeded Hydrothermal Growth of Spherical BaTiO <sub>3</sub> Nanocrystals for Capacitor Energy-Storage Application. <i>Crystals</i> , 2020, 10, 202.	1.0	13
26	Promote the electrocatalysis activity of amorphous FeOOH to oxygen evolution reaction by coupling with ZnO nanorod array. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 905-914.	1.2	22
27	Lithium Difluorophosphate as an Effective Additive for Improving the Initial Coulombic Efficiency of a Silicon Anode. <i>ChemElectroChem</i> , 2020, 7, 3743-3751.	1.7	24
28	Enhanced room-temperature ammonia-sensing properties of polyaniline-modified WO <sub>3</sub> nanoplates derived via ultrasonic spray process. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127892.	4.0	49
29	Ultrabroadband red luminescence of Mn <sup>4+</sup> in MgAl <sub>2</sub> O <sub>4</sub> peaking at 651 nm. <i>Dalton Transactions</i> , 2020, 49, 5711-5721.	1.6	31
30	2D/1D V <sub>2</sub> O <sub>5</sub> Nanoplates Anchored Carbon Nanofibers as Efficient Separator Interlayer for Highly Stable Lithium-Sulfur Battery. <i>Nanomaterials</i> , 2020, 10, 705.	1.9	20
31	Advances in Valence State Analysis of Manganese in Mn <sup>4+</sup> -activated Red Phosphors for White LEDs. <i>Chinese Journal of Luminescence</i> , 2020, 41, 1195-1213.	0.2	4
32	Oxygen vacancy engineered SrTiO <sub>3</sub> nanofibers for enhanced photocatalytic H <sub>2</sub> production. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17974-17980.	5.2	88
33	Linear-Polyethyleneimine-Templated Synthesis of N-Doped Carbon Nanonet Flakes for High-performance Supercapacitor Electrodes. <i>Nanomaterials</i> , 2019, 9, 1225.	1.9	11
34	Preparation of hierarchical NiCo <sub>2</sub> O <sub>4</sub> self-assembled by lamellar flakes and its microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17358-17362.	1.1	6
35	Single-source precursor synthesis of nitrogen-doped porous carbon for high-performance electrocatalytic ORR application. <i>Ceramics International</i> , 2019, 45, 8354-8361.	2.3	10
36	Steering charge kinetics in W <sub>2</sub> C@C/TiO <sub>2</sub> heterojunction architecture: Efficient solar-light-driven hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117760.	10.8	25

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37	Simple Synthesis and Characterization of Hexagonal and Ordered Al <sup>3+</sup> -MCM <sup>41</sup> from Natural Perlite. Minerals (Basel, Switzerland), 2019, 9, 264.	0.8	27
38	Large Scale Synthesis of Nanopyramidal-Like VO <sub>2</sub> Films by an Oxygen-Assisted Etching Growth Method with Significantly Enhanced Field Emission Properties. Nanomaterials, 2019, 9, 549.	1.9	5
39	Composite K <sub>2</sub> Mo <sub>4</sub> O <sub>13</sub> /±-MoO <sub>3</sub> nanorods: sonochemical preparation and applications for advanced Li <sup>+</sup> /Na <sup>+</sup> pseudocapacitance. Journal of Materials Chemistry A, 2019, 7, 10954-10961.	5.2	6
40	Effects of the Particle Size of BaTiO <sub>3</sub> Fillers on Fabrication and Dielectric Properties of BaTiO <sub>3</sub> /Polymer/Al Films for Capacitor Energy-Storage Application. Materials, 2019, 12, 439.	1.3	28
41	Graphene-Modified ZnO Nanostructures for Low-Temperature NO <sub>2</sub> Sensing. ACS Omega, 2019, 4, 4221-4232.	1.6	79
42	Thermal Performance and Interfacial Aspects of Kaolinite-Based Stearic Acid Composite in the Presence of Nitric Acid. ChemistrySelect, 2019, 4, 13109-13114.	0.7	0
43	Microwave-assisted preparation of hierarchical CuO@rGO nanostructures and their enhanced low-temperature H <sub>2</sub> S-sensing performance. Applied Surface Science, 2019, 476, 107-114.	3.1	53
44	Construction and enhanced low-temperature H <sub>2</sub> S-sensing performance of novel hierarchical CuO@WO <sub>3</sub> nanocomposites. Journal of Alloys and Compounds, 2019, 785, 367-373.	2.8	28
45	Intense deep-red zero phonon line emission of Mn <sup>4+</sup> in double perovskite La <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . Physical Chemistry Chemical Physics, 2019, 21, 25108-25117.	1.3	21
46	Preparation of Magnetic Kaolinite Nanotubes for the Removal of Methylene Blue from Aqueous Solution. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 790-799.	1.9	17
47	Coupled ultrasonication-milling synthesis of hierarchically porous carbon for high-performance supercapacitor. Journal of Colloid and Interface Science, 2018, 528, 208-224.	5.0	21
48	Thermochromic VO <sub>2</sub> for Energy-Efficient Smart Windows. Joule, 2018, 2, 1707-1746.	11.7	536
49	Effects of graphene on the microstructures of SnO <sub>2</sub> @rGO nanocomposites and their formaldehyde-sensing performance. Sensors and Actuators B: Chemical, 2018, 269, 223-237.	4.0	82
50	Lauric Acid Hybridizing Fly Ash Composite for Thermal Energy Storage. Minerals (Basel, Switzerland), 2018, 8, 161.	0.8	13
51	Utilization of coal gangue for the production of brick. Journal of Material Cycles and Waste Management, 2017, 19, 1270-1278.	1.6	58
52	ZrB <sub>2</sub> -SiC <sub>w</sub> ceramic composites synthesized by in situ reaction and spark plasma sintering. International Journal of Applied Ceramic Technology, 2017, 14, 845-850.	1.1	13
53	Microwave-assisted molten-salt rapid synthesis of isotype triazine/heptazine based g-C <sub>3</sub> N <sub>4</sub> heterojunctions with highly enhanced photocatalytic hydrogen evolution performance. Applied Catalysis B: Environmental, 2017, 203, 300-313.	10.8	312
54	High-Yield Preparation and Electrochemical Properties of Few-Layer MoS <sub>2</sub> Nanosheets by Exfoliating Natural Molybdenite Powders Directly via a Coupled Ultrasonication-Milling Process. Nanoscale Research Letters, 2016, 11, 409.	3.1	32

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55	Porous three-dimensional core-shell WC@C nanocomposite derived from tungsten-containing inorganic-organic hybrid precursor. <i>Materials Letters</i> , 2016, 185, 331-334.	1.3	1
56	Synthesis and characterization of carbon-doped ZnSn(OH) <sub>6</sub> with enhanced photoactivity by hydrothermal method. <i>Crystal Research and Technology</i> , 2016, 51, 11-15.	0.6	8
57	Factors influencing formation of highly dispersed BaTiO <sub>3</sub> nanospheres with uniform sizes in static hydrothermal synthesis. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	22
58	Hierarchical Fe <sub>2</sub> O <sub>3</sub> @WO <sub>3</sub> nanostructures with ultrahigh specific surface areas: microwave-assisted synthesis and enhanced H <sub>2</sub> S-sensing performance. <i>RSC Advances</i> , 2015, 5, 328-337.	1.7	65
59	Synthesis and Characterization of TiN-coated Cubic Boron Nitride Powders. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 946-953.	1.1	10
60	Synthesis and growth mechanism of ZnO rod-like nanostructures by a microwave-assisted low-temperature aqueous solution route. <i>Crystal Research and Technology</i> , 2014, 49, 298-302.	0.6	14
61	Temperature-dependent elastic stiffness constants of fcc-based metal nitrides from first-principles calculations. <i>Journal of Materials Science</i> , 2014, 49, 424-432.	1.7	9
62	Microwave-assisted growth of In <sub>2</sub> O <sub>3</sub> nanoparticles on WO <sub>3</sub> nanoplates to improve H <sub>2</sub> S-sensing performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18867-18874.	5.2	88
63	Normal-pressure microwave rapid synthesis of hierarchical SnO <sub>2</sub> @rGO nanostructures with superhigh surface areas as high-quality gas-sensing and electrochemical active materials. <i>Nanoscale</i> , 2014, 6, 13690-13700.	2.8	88
64	In situ formation of Au/SnO <sub>2</sub> nanocrystals on WO <sub>3</sub> nanoplates as excellent gas-sensing materials for H <sub>2</sub> S detection. <i>Materials Chemistry and Physics</i> , 2014, 148, 1099-1107.	2.0	22
65	Solvent-regulated solvothermal synthesis and morphology-dependent gas-sensing performance of low-dimensional tungsten oxide nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 391-400.	4.0	43
66	Nucleation of epitaxial graphene on SiC substrate by thermal annealing and chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 349-355.	1.1	2
67	Enhanced selective response to nitric oxide (NO) of Au-modified tungsten trioxide nanoplates. <i>Materials Chemistry and Physics</i> , 2013, 143, 461-469.	2.0	20
68	Enhancing thermochromic performance of VO <sub>2</sub> films via increased microroughness by phase separation. <i>Solar Energy Materials and Solar Cells</i> , 2013, 110, 1-7.	3.0	43
69	Low-temperature and highly selective NO-sensing performance of WO <sub>3</sub> nanoplates decorated with silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 445-455.	4.0	86
70	VO <sub>2</sub> thermochromic smart window for energy savings and generation. <i>Scientific Reports</i> , 2013, 3, 3029.	1.6	246
71	Effect of the Particle Size of Quartz Powder on the Synthesis and CO <sub>2</sub> Absorption Properties of Li <sub>4</sub> SiO <sub>4</sub> at High Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1886-1891.	1.8	64
72	Nanoceramic VO <sub>2</sub> thermochromic smart glass: A review on progress in solution processing. <i>Nano Energy</i> , 2012, 1, 221-246.	8.2	507

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73	Porous Tungsten Carbide Nanoplates Derived from Tungsten Trioxide Nanoplates. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3370-3373.	1.9	2
74	Hierarchically plasmonic photocatalysts of Ag/AgCl nanocrystals coupled with single-crystalline WO <sub>3</sub> nanoplates. <i>Nanoscale</i> , 2012, 4, 5431.	2.8	112
75	Sonochemical Synthesis of Ag/AgCl Nanocubes and Their Efficient Visible-Light-Driven Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 5192-5200.	1.7	128
76	Controlled synthesis of ZnO nanostructures with different morphologies in microemulsions. <i>Crystal Research and Technology</i> , 2012, 47, 754-762.	0.6	4
77	Fabrication and Temperature-Dependent Field-Emission Properties of Bundlelike VO <sub>2</sub> Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2057-2062.	4.0	37
78	Nanoporous Thermochromic VO <sub>2</sub> Films with Low Optical Constants, Enhanced Luminous Transmittance and Thermochromic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 135-138.	4.0	247
79	Solution-based fabrication of vanadium dioxide on F:SnO <sub>2</sub> substrates with largely enhanced thermochromism and low-emissivity for energy-saving applications. <i>Energy and Environmental Science</i> , 2011, 4, 4290.	15.6	159
80	Single-crystalline MoO <sub>3</sub> nanoplates: topochemical synthesis and enhanced ethanol-sensing performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 9332.	6.7	168
81	A comparative study on reactions of n-alkylamines with tungstic acids with various W=O octahedral layers: Novel evidence for the "dissolution" reorganization mechanism. <i>Materials Chemistry and Physics</i> , 2011, 125, 838-845.	2.0	17
82	Properties of Glass-Ceramics Synthesized from Blast Furnace Slag with Different Sizes. <i>Steel Research International</i> , 2011, 82, 741-745.	1.0	6
83	Synthesis of ZnSn(OH) <sub>6</sub> regular octahedrons by a simple hydrothermal process. <i>Crystal Research and Technology</i> , 2011, 46, 1079-1085.	0.6	6
84	Hydrothermal synthesis and characterization of micro/nanostructured ZnSn(OH) <sub>6</sub> /ZnO composite architectures. <i>Crystal Research and Technology</i> , 2011, 46, 1175-1180.	0.6	5
85	Effects of morphologies on acetone-sensing properties of tungsten trioxide nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 373-381.	4.0	141
86	Preparation and characterization of ZrB <sub>2</sub> -SiC ultra-high temperature ceramics by microwave sintering. <i>Frontiers of Materials Science in China</i> , 2010, 4, 276-280.	0.5	24
87	Polypropylene/combinational inorganic filler micro/nanocomposites: Synergistic effects of micro/nanoscale combinational inorganic fillers on their mechanical properties. <i>Journal of Applied Polymer Science</i> , 2010, 115, 624-634.	1.3	19
88	Novel Synthesis of Hierarchical Tungsten Carbide Micro-Nanocrystals from a Single Source Precursor. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3997-4000.	1.9	11
89	The enhanced alcohol-sensing response of ultrathin WO <sub>3</sub> nanoplates. <i>Nanotechnology</i> , 2010, 21, 035501.	1.3	130
90	Thermochromic VO <sub>2</sub> Thin Films: Solution-Based Processing, Improved Optical Properties, and Lowered Phase Transformation Temperature. <i>Langmuir</i> , 2010, 26, 10738-10744.	1.6	255

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91	Effects of a TiO <sub>2</sub> Buffer Layer on Solution-Deposited VO <sub>2</sub> Films: Enhanced Oxidization Durability. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22214-22220.	1.5	55
92	Morphology control of anisotropic BaTiO <sub>3</sub> and BaTiOF <sub>4</sub> using organic-inorganic interaction. <i>Journal of Crystal Growth</i> , 2009, 311, 589-592.	0.7	4
93	A Novel Solution Process for the Synthesis of VO <sub>2</sub> Thin Films with Excellent Thermochromic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2211-2218.	4.0	160
94	Size- and Shape-Controlled Conversion of Tungstate-Based Inorganic-Organic Hybrid Belts to WO <sub>3</sub> Nanoplates with High Specific Surface Areas. <i>Small</i> , 2008, 4, 1813-1822.	5.2	183
95	Tungstate-Based Inorganic-Organic Hybrid Nanobelts/Nanotubes with Lamellar Mesosstructures: Synthesis, Characterization, and Formation Mechanism. <i>Chemistry of Materials</i> , 2007, 19, 1808-1815.	3.2	59