Wei Li

List of Publications by Citations

309 papers	24,048 citations	80 h-index	148 g-index
325 ext. papers	28,306 ext. citations	11.8 avg, IF	7.37 L-index

#	Paper	IF	Citations
309	Multifunctional mesoporous composite microspheres with well-designed nanostructure: a highly integrated catalyst system. *Journal of the American Chemical Society*, **2010**, 132, 8466-73	16.4	827
308	Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. *Nature Communications*, **2015**, 6, 7081	17.4	815
307	Mesoporous materials for energy conversion and storage devices. *Nature Reviews Materials*, **2016**, 1,	73.3	788
306	Ordered mesoporous black TiO(2) as highly efficient hydrogen evolution photocatalyst. *Journal of the American Chemical Society*, **2014**, 136, 9280-3	16.4	736
305	Biphase stratification approach to three-dimensional dendritic biodegradable mesoporous silica nanospheres. *Nano Letters*, **2014**, 14, 923-32	11.5	503
304	Graphitic Carbon Conformal Coating of Mesoporous TiO2 Hollow Spheres for High-Performance Lithium Ion Battery Anodes. *Journal of the American Chemical Society*, **2015**, 137, 13161-6	16.4	459
303	Efficient removal of organic pollutants with magnetic Nanoscaled BiFeO(3) as a reusable heterogeneous fenton-like catalyst. *Environmental Science & Technology*, **2010**, 44, 1786-91	10.3	437
302	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. *Journal of the American Chemical Society*, **2016**, 138, 12258-62	16.4	424
301	Molecule Self-Assembly Synthesis of Porous Few-Layer Carbon Nitride for Highly Efficient Photoredox Catalysis. *Journal of the American Chemical Society*, **2019**, 141, 2508-2515	16.4	397
300	Reducing Interfacial Resistance between Garnet-Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. *Advanced Materials*, **2017**, 29, 1606042	24	378
299	Simple and green synthesis of nitrogen-doped photoluminescent carbonaceous nanospheres for bioimaging. *Angewandte Chemie - International Edition*, **2013**, 52, 8151-5	16.4	378
298	Rational design of a metal□organic framework host for sulfur storage in fast, long-cycle Li□S batteries. *Energy and Environmental Science*, **2014**, 7, 2715	35.4	376
297	A Perspective on Mesoporous TiO2 Materials. *Chemistry of Materials*, **2014**, 26, 287-298	9.6	366
296	A versatile kinetics-controlled coating method to construct uniform porous TiO2 shells for multifunctional core-shell structures. *Journal of the American Chemical Society*, **2012**, 134, 11864-7	16.4	357
295	High-capacity, low-tortuosity, and channel-guided lithium metal anode. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3584-3589	11.5	331
294	A Self-Template Strategy for the Synthesis of Mesoporous Carbon Nanofibers as Advanced Supercapacitor Electrodes. *Advanced Energy Materials*, **2011**, 1, 382-386	21.8	327
293	Controllable Synthesis of Mesoporous Peapod-like Co3O4@Carbon Nanotube Arrays for High-Performance Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 7060-4	16.4	318

292	Sol-gel design strategy for ultradispersed TiO2 nanoparticles on graphene for high-performance lithium ion batteries. *Journal of the American Chemical Society*, **2013**, 135, 18300-3	16.4	313
291	A long-life aqueous Zn-ion battery based on Na3V2(PO4)2F3 cathode. *Energy Storage Materials*, **2018**, 15, 14-21	19.4	295
290	General and controllable synthesis of novel mesoporous magnetic iron oxide@carbon encapsulates for efficient arsenic removal. *Advanced Materials*, **2012**, 24, 485-91	24	283
289	Spatially Confined Fabrication of Core–Shell Gold Silica for Near-Infrared Controlled Photothermal Drug Release. *Chemistry of Materials*, **2013**, 25, 3030-3037	9.6	276
288	Hydrothermal etching assisted crystallization: a facile route to functional yolk-shell titanate microspheres with ultrathin nanosheets-assembled double shells. *Journal of the American Chemical Society*, **2011**, 133, 15830-3	16.4	268
287	Amorphous TiO Shells: A Vital Elastic Buffering Layer on Silicon Nanoparticles for High-Performance and Safe Lithium Storage. *Advanced Materials*, **2017**, 29, 1700523	24	265
286	Direct imaging the upconversion nanocrystal core/shell structure at the subnanometer level: shell thickness dependence in upconverting optical properties. *Nano Letters*, **2012**, 12, 2852-8	11.5	265
285	A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. *Nano Letters*, **2015**, 15, 3899-906	11.5	257
284	Synthesis of Particulate Hierarchical Tandem Heterojunctions toward Optimized Photocatalytic Hydrogen Production. *Advanced Materials*, **2018**, 30, e1804282	24	251
283	Surface and Interface Engineering of Silicon-Based Anode Materials for Lithium-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1701083	21.8	249
282	General strategy to synthesize uniform mesoporous TiO2/graphene/mesoporous TiO2 sandwich-like nanosheets for highly reversible lithium storage. *Nano Letters*, **2015**, 15, 2186-93	11.5	248
281	A Stable Bifunctional Catalyst for Rechargeable Zinc-Air Batteries: Iron-Cobalt Nanoparticles Embedded in a Nitrogen-Doped 3D Carbon Matrix. *Angewandte Chemie - International Edition*, **2018**, 57, 16166-16170	16.4	243
280	Extension of the Stöber method to construct mesoporous SiO2 and TiO2 shells for uniform multifunctional core-shell structures. *Advanced Materials*, **2013**, 25, 142-9	24	237
279	Complex silica composite nanomaterials templated with DNA origami. *Nature*, **2018**, 559, 593-598	50.4	233
278	Highly ordered mesoporous silica films with perpendicular mesochannels by a simple Stöber-solution growth approach. *Angewandte Chemie - International Edition*, **2012**, 51, 2173-7	16.4	233
277	Ordered mesoporous materials based on interfacial assembly and engineering. *Advanced Materials*, **2013**, 25, 5129-52, 5128	24	226
276	An overview of the synthesis of ordered mesoporous materials. *Chemical Communications*, **2013**, 49, 943-6	5.8	221
275	Versatile Nanoemulsion Assembly Approach to Synthesize Functional Mesoporous Carbon Nanospheres with Tunable Pore Sizes and Architectures. *Journal of the American Chemical Society*, **2019**, 141, 7073-7080	16.4	220

274	New Insight into the Synthesis of Large-Pore Ordered Mesoporous Materials. *Journal of the American Chemical Society*, **2017**, 139, 1706-1713	16.4	216
273	Highly ordered mesoporous tungsten oxides with a large pore size and crystalline framework for H2S sensing. *Angewandte Chemie - International Edition*, **2014**, 53, 9035-40	16.4	215
272	An Interface Coassembly in Biliquid Phase: Toward Core-Shell Magnetic Mesoporous Silica Microspheres with Tunable Pore Size. *Journal of the American Chemical Society*, **2015**, 137, 13282-9	16.4	208
271	Silicon/Mesoporous Carbon/Crystalline TiO Nanoparticles for Highly Stable Lithium Storage. *ACS Nano*, **2016**, 10, 10524-10532	16.7	197
270	Synthesis of nitrogen-doped hollow carbon nanospheres for CO2 capture. *Chemical Communications*, **2014**, 50, 329-31	5.8	196
269	Porous Carbon Composites for Next Generation Rechargeable Lithium Batteries. *Advanced Energy Materials*, **2017**, 7, 1700283	21.8	187
268	Core-shell structured titanium dioxide nanomaterials for solar energy utilization. *Chemical Society Reviews*, **2018**, 47, 8203-8237	58.5	180
267	Continuous plating/stripping behavior of solid-state lithium metal anode in a 3D ion-conductive framework. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3770-3775	11.5	178
266	Ultrafine MoO2 nanoparticles embedded in a carbon matrix as a high-capacity and long-life anode for lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 425-431		163
265	Critical thickness of phenolic resin-based carbon interfacial layer for improving long cycling stability of silicon nanoparticle anodes. *Nano Energy*, **2016**, 27, 255-264	17.1	163
264	Facile synthesis of yolk-shell structured inorganic-organic hybrid spheres with ordered radial mesochannels. *Advanced Materials*, **2014**, 26, 3741-7	24	158
263	A Dual-Functional Conductive Framework Embedded with TiN-VN Heterostructures for Highly Efficient Polysulfide and Lithium Regulation toward Stable Li-S Full Batteries. *Advanced Materials*, **2020**, 32, e1905658	24	154
262	Core-shell Ag@SiO2@mSiO2 mesoporous nanocarriers for metal-enhanced fluorescence. *Chemical Communications*, **2011**, 47, 11618-20	5.8	153
261	Controllable synthesis of SnO2@C yolk-shell nanospheres as a high-performance anode material for lithium ion batteries. *Nanoscale*, **2014**, 6, 3217-22	7.7	149
260	Engineering the Distribution of Carbon in Silicon Oxide Nanospheres at the Atomic Level for Highly Stable Anodes. *Angewandte Chemie - International Edition*, **2019**, 58, 6669-6673	16.4	142
259	A carbon-based 3D current collector with surface protection for Li metal anode. *Nano Research*, **2017**, 10, 1356-1365	10	139
258	Synthesis of Ordered Mesoporous Silica with Tunable Morphologies and Pore Sizes via a Nonpolar Solvent-Assisted StBer Method. *Chemistry of Materials*, **2016**, 28, 2356-2362	9.6	131
257	Controlled Synthesis and Functionalization of Ordered Large-Pore Mesoporous Carbons. *Advanced Functional Materials*, **2010**, 20, 3658-3665	15.6	117

256	A Micelle Fusion-Aggregation Assembly Approach to Mesoporous Carbon Materials with Rich Active Sites for Ultrasensitive Ammonia Sensing. *Journal of the American Chemical Society*, **2016**, 138, 12586-95	16.4	116
255	Enabling High-Areal-Capacity Lithium-Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. *ACS Nano*, **2017**, 11, 4801-4807	16.7	113
254	Vertically Grown Edge-Rich Graphene Nanosheets for Spatial Control of Li Nucleation. *Advanced Energy Materials*, **2018**, 8, 1800564	21.8	111
253	Unveiling the Role of Defects on Oxygen Activation and Photodegradation of Organic Pollutants. *Environmental Science & Technology*, **2018**, 52, 13879-13886	10.3	110
252	Three-Dimensional, Solid-State Mixed Electron-Ion Conductive Framework for Lithium Metal Anode. *Nano Letters*, **2018**, 18, 3926-3933	11.5	108
251	Deformable Hollow Periodic Mesoporous Organosilica Nanocapsules for Significantly Improved Cellular Uptake. *Journal of the American Chemical Society*, **2018**, 140, 1385-1393	16.4	107
250	Fabrication of core-shell □Fe(2)O(3)@ Li(4)Ti(5)O(12) composite and its application in the lithium ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 4514-23	9.5	106
249	Mesoporous Organosilica Hollow Nanoparticles: Synthesis and Applications. *Advanced Materials*, **2019**, 31, e1707612	24	106
248	Preparation and characterization of novel immobilized Fe3O4@SiO2@mSiO2□Pd(0) catalyst with large pore-size mesoporous for Suzuki coupling reaction. *Applied Catalysis A: General*, **2013**, 459, 65-72	5.1	102
247	Extremely high arsenic removal capacity for mesoporous aluminium magnesium oxide composites. *Environmental Science: Nano*, **2016**, 3, 94-106	7.1	100
246	Synthesis of Co3O4/SnO2@MnO2 core□shell nanostructures for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 12852-12857	13	99
245	Hollow-Carbon-Templated Few-Layered VS Nanosheets Enabling Ultrafast Potassium Storage and Long-Term Cycling. *ACS Nano*, **2019**, 13, 7939-7948	16.7	97
244	Direct Superassemblies of Freestanding Metal-Carbon Frameworks Featuring Reversible Crystalline-Phase Transformation for Electrochemical Sodium Storage. *Journal of the American Chemical Society*, **2016**, 138, 16533-16541	16.4	97
243	Folding Graphene Film Yields High Areal Energy Storage in Lithium-Ion Batteries. *ACS Nano*, **2018**, 12, 1739-1746	16.7	94
242	Janus nanoarchitectures: From structural design to catalytic applications. *Nano Today*, **2018**, 22, 62-82	17.9	93
241	Ultradispersed Palladium Nanoparticles in Three-Dimensional Dendritic Mesoporous Silica Nanospheres: Toward Active and Stable Heterogeneous Catalysts. *ACS Applied Materials & Interfaces*, **2015**, 7, 17450-9	9.5	92
240	Surfactant-templating strategy for ultrathin mesoporous TiO2 coating on flexible graphitized carbon supports for high-performance lithium-ion battery. *Nano Energy*, **2016**, 25, 80-90	17.1	90
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235	Facile synthesis of hierarchical porous TiO(2) ceramics with enhanced photocatalytic performance for micropolluted pesticide degradation. *ACS Applied Materials & Interfaces*, **2014**, 6, 16653-60	9.5	83
234	Yolk–Shell Structured Mesoporous Nanoparticles with Thioether-Bridged Organosilica Frameworks. *Chemistry of Materials*, **2014**, 26, 5980-5987	9.6	82
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232	Spherical Mesoporous Materials from Single to Multilevel Architectures. *Accounts of Chemical Research*, **2019**, 52, 2928-2938	24.3	81
231	Multi-layered mesoporous TiO2 thin films with large pores and highly crystalline frameworks for efficient photoelectrochemical conversion. *Journal of Materials Chemistry A*, **2013**, 1, 1591-1599	13	81
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227	In-situ crystallization route to nanorod-aggregated functional ZSM-5 microspheres. *Journal of the American Chemical Society*, **2013**, 135, 1181-4	16.4	78
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225	Ordered Mesoporous Alumina with Ultra-Large Pores as an Efficient Absorbent for Selective Bioenrichment. *Chemistry of Materials*, **2017**, 29, 2211-2217	9.6	72
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223	Monodisperse core-shell structured magnetic mesoporous aluminosilicate nanospheres with large dendritic mesochannels. *Nano Research*, **2015**, 8, 2503-2514	10	70
222	Chelation-assisted soft-template synthesis of ordered mesoporous zinc oxides for low concentration gas sensing. *Journal of Materials Chemistry A*, **2016**, 4, 15064-15071	13	68
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212	Recent advances in the synthesis of hierarchically mesoporous TiO materials for energy and environmental applications. *National Science Review*, **2020**, 7, 1702-1725	10.8	61
211	Boosting the initial coulombic efficiency in silicon anodes through interfacial incorporation of metal nanocrystals. *Journal of Materials Chemistry A*, **2019**, 7, 17426-17434	13	61
210	Mesoporous silica-coated plasmonic nanostructures for surface-enhanced Raman scattering detection and photothermal therapy. *Advanced Healthcare Materials*, **2014**, 3, 1620-8	10.1	61
209	Defect-engineering of mesoporous TiO2 microspheres with phase junctions for efficient visible-light driven fuel production. *Nano Energy*, **2019**, 66, 104113	17.1	59
208	Germanium Nanograin Decoration on Carbon Shell: Boosting Lithium-Storage Properties of Silicon Nanoparticles. *Advanced Functional Materials*, **2016**, 26, 7800-7806	15.6	59
207	Amphiphilic Block Copolymer Templated Synthesis of Mesoporous Indium Oxides with Nanosheet-Assembled Pore Walls. *Chemistry of Materials*, **2016**, 28, 7997-8005	9.6	59
206	Magnetic yolk-shell structured anatase-based microspheres loaded with Au nanoparticles for heterogeneous catalysis. *Nano Research*, **2015**, 8, 238-245	10	58
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192	Fabrication of hollow mesoporous SiO2-BiOCl@PANI@Pd photocatalysts to improve the photocatalytic performance under visible light. *Applied Catalysis B: Environmental*, **2017**, 213, 136-146	21.8	49
191	Mass production of large-pore phosphorus-doped mesoporous carbon for fast-rechargeable lithium-ion batteries. *Energy Storage Materials*, **2019**, 22, 147-153	19.4	49
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189	Carbon-Coated Mesoporous TiO2 Nanocrystals Grown on Graphene for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 10395-400	9.5	48
188	Designing Champion Nanostructures of Tungsten Dichalcogenides for Electrocatalytic Hydrogen Evolution. *Advanced Materials*, **2020**, 32, e2002584	24	48
187	Synergy of Mn and Ni enhanced catalytic performance for toluene combustion over Ni-doped MnO2 catalysts. *Chemical Engineering Journal*, **2020**, 388, 124244	14.7	48
186	Rational Synthesis and Gas Sensing Performance of Ordered Mesoporous Semiconducting WO/NiO Composites. *ACS Applied Materials & Interfaces*, **2019**, 11, 26268-26276	9.5	48
185	Template-free synthesis of uniform magnetic mesoporous TiO2 nanospindles for highly selective enrichment of phosphopeptides. *Materials Horizons*, **2014**, 1, 439	14.4	47

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179	Simple and Green Synthesis of Nitrogen-Doped Photoluminescent Carbonaceous Nanospheres for Bioimaging. *Angewandte Chemie*, **2013**, 125, 8309-8313	3.6	41
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173	Boron doping-induced interconnected assembly approach for mesoporous silicon oxycarbide architecture. *National Science Review*, **2021**, 8, nwaa152	10.8	38
172	Tricomponent Coassembly Approach To Synthesize Ordered Mesoporous Carbon/Silica Nanocomposites and Their Derivative Mesoporous Silicas with Dual Porosities. *Chemistry of Materials*, **2014**, 26, 2438-2444	9.6	37
171	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. *ACS Nano*, **2017**, 11, 665-674	16.7	36
170	Synthesis of carbon nanotubes@mesoporous carbon core–shell structured electrocatalysts via a molecule-mediated interfacial co-assembly strategy. *Journal of Materials Chemistry A*, **2019**, 7, 8975-8983	13	36
169	Synthesis of Mesoporous Silica/Reduced Graphene Oxide Sandwich-Like Sheets with Enlarged and Tunneling Mesochannels. *Chemistry of Materials*, **2015**, 27, 5577-5586	9.6	36
168	Template-assisted synthesis of core–shell Fe2O3@TiO2 nanorods and their photocatalytic property. *Journal of Materials Science*, **2015**, 50, 4083-4094	4.3	36
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166	Toward understanding the interaction within Silicon-based anodes for stable lithium storage. *Chemical Engineering Journal*, **2020**, 385, 123821	14.7	36
165	Visible-Light Responsive TiO2-Based Materials for Efficient Solar Energy Utilization. *Advanced Energy Materials*, **2021**, 11, 2003303	21.8	36
164	Dendritic Cell-Inspired Designed Architectures toward Highly Efficient Electrocatalysts for Nitrate Reduction Reaction. *Small*, **2020**, 16, e2001775	11	35
163	Sandwich-like Cr2O3graphite intercalation composites as high-stability anode materials for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 1703-1708	13	35
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161	Bimetallic PdCu Nanocrystals Immobilized by Nitrogen-Containing Ordered Mesoporous Carbon for Electrocatalytic Denitrification. *ACS Applied Materials & Interfaces*, **2019**, 11, 3861-3868	9.5	34
160	Carbon cloth@T-Nb2O5@MnO2: A rational exploration of manganese oxide for high performance supercapacitor. *Electrochimica Acta*, **2017**, 253, 311-318	6.7	32
159	Thin Film Thermoelectric Materials: Classification, Characterization, and Potential for Wearable Applications. *Coatings*, **2018**, 8, 244	2.9	31
158	Direct plasma deposition of amorphous Si/C nanocomposites as high performance anodes for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 3522-3528	13	31
157	Mesoporous carbon matrix confinement synthesis of ultrasmall WO3 nanocrystals for lithium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 21550-21557	13	31
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