Jian Liu

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295 papers	25,019 citations	69 h-index	152 g-index
319 ext. papers	28,288 ext. citations	9.8 avg, IF	7.36 L-index

#	Paper	IF	Citations
295	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. *Energy and Environmental Science*, **2012**, 5, 6717	35.4	1385
294	Thermal conversion of core-shell metal-organic frameworks: a new method for selectively functionalized nanoporous hybrid carbon. *Journal of the American Chemical Society*, **2015**, 137, 1572-80	16.4	1085
293	Platinum single-atom and cluster catalysis of the hydrogen evolution reaction. *Nature Communications*, **2016**, 7, 13638	17.4	1085
292	Nanoporous graphitic-C3N4@carbon metal-free electrocatalysts for highly efficient oxygen reduction. *Journal of the American Chemical Society*, **2011**, 133, 20116-9	16.4	869
291	Screening of metal-organic frameworks for carbon dioxide capture from flue gas using a combined experimental and modeling approach. *Journal of the American Chemical Society*, **2009**, 131, 18198-9	16.4	737
290	Yolk/shell nanoparticles: new platforms for nanoreactors, drug delivery and lithium-ion batteries. *Chemical Communications*, **2011**, 47, 12578-91	5.8	727
289	Molecular-based design and emerging applications of nanoporous carbon spheres. *Nature Materials* , **2015**, 14, 763-74	27	712
288	Extension of the StBer method to the preparation of monodisperse resorcinol-formaldehyde resin polymer and carbon spheres. *Angewandte Chemie - International Edition*, **2011**, 50, 5947-51	16.4	623
287	Magnetic nanocomposites with mesoporous structures: synthesis and applications. *Small*, **2011**, 7, 425-43	11	612
286	Graphitic carbon nitride "reloaded": emerging applications beyond (photo)catalysis. *Chemical Society Reviews*, **2016**, 45, 2308-26	58.5	595
285	Facile oxygen reduction on a three-dimensionally ordered macroporous graphitic C3N4/carbon composite electrocatalyst. *Angewandte Chemie - International Edition*, **2012**, 51, 3892-6	16.4	549
284	Monodisperse yolk-shell nanoparticles with a hierarchical porous structure for delivery vehicles and nanoreactors. *Angewandte Chemie - International Edition*, **2010**, 49, 4981-5	16.4	510
283	A facile soft-template synthesis of mesoporous polymeric and carbonaceous nanospheres. *Nature Communications*, **2013**, 4,	17.4	475
282	Mesoporous silica nanoparticles for bioadsorption, enzyme immobilisation, and delivery carriers. *Nanoscale*, **2011**, 3, 2801-18	7.7	449
281	Highly ordered mesoporous NiO anode material for lithium ion batteries with an excellent electrochemical performance. *Journal of Materials Chemistry*, **2011**, 21, 3046		423
280	Nitrogen doping effects on the structure of graphene. *Applied Surface Science*, **2011**, 257, 9193-9198	6.7	400
279	Mesoporous LiFePO4/C nanocomposite cathode materials for high power lithium ion batteries with superior performance. *Advanced Materials*, **2010**, 22, 4944-8	24	352

278	A review on photocatalysis for air treatment: From catalyst development to reactor design. *Chemical Engineering Journal*, **2017**, 310, 537-559	14.7	335
277	Yolk□Shell Hybrid Materials with a Periodic Mesoporous Organosilica Shell: Ideal Nanoreactors for Selective Alcohol Oxidation. *Advanced Functional Materials*, **2012**, 22, 591-599	15.6	330
276	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. *Angewandte Chemie - International Edition*, **2017**, 56, 8435-8440	16.4	275
275	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. *Chemical Science*, **2017**, 8, 3538-3546	9.4	264
274	Functionalized periodic mesoporous organosilicas for catalysis. *Journal of Materials Chemistry*, **2009**, 19, 1945		248
273	A yolk-shell nanoreactor with a basic core and an acidic shell for cascade reactions. *Angewandte Chemie - International Edition*, **2012**, 51, 9164-8	16.4	246
272	Tailored design of functional nanoporous carbon materials toward fuel cell applications. *Nano Today*, **2014**, 9, 305-323	17.9	230
271	A pH-responsive drug delivery system based on chitosan coated mesoporous silica nanoparticles. *Journal of Materials Chemistry*, **2012**, 22, 11173		227
270	Poly-L-lysine functionalized large pore cubic mesostructured silica nanoparticles as biocompatible carriers for gene delivery. *ACS Nano*, **2012**, 6, 2104-17	16.7	227
269	Extremely stable platinum nanoparticles encapsulated in a zirconia nanocage by area-selective atomic layer deposition for the oxygen reduction reaction. *Advanced Materials*, **2015**, 27, 277-81	24	206
268	Synthesis of micro and nano-sized calcium carbonate particles and their applications. *Journal of Materials Chemistry A*, **2014**, 2, 14270-14288	13	205
267	Synthesis, characterization, and catalytic activity of sulfonic acid-functionalized periodic mesoporous organosilicas. *Journal of Catalysis*, **2004**, 228, 265-272	7.3	202
266	A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres. *Journal of Materials Chemistry*, **2010**, 20, 4595		199
265	Ellipsoidal hollow nanostructures assembled from anatase TiO2 nanosheets as a magnetically separable photocatalyst. *Chemical Communications*, **2011**, 47, 2631-3	5.8	189
264	Synthesis of nitrogen-doped mesoporous carbon spheres with extra-large pores through assembly of diblock copolymer micelles. *Angewandte Chemie - International Edition*, **2015**, 54, 588-93	16.4	185
263	N-doped mesoporous carbon spheres as the oxygen reduction reaction catalysts. *Journal of Materials Chemistry A*, **2014**, 2, 18139-18146	13	168
262	From waste Coca Cola□ to activated carbons with impressive capabilities for CO2 adsorption and supercapacitors. *Carbon*, **2017**, 116, 490-499	10.4	152
261	Dumbbell-Shaped Bi-component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 8459-8463	16.4	152

260	Nanoengineering Carbon Spheres as Nanoreactors for Sustainable Energy Applications. *Advanced Materials*, **2019**, 31, e1903886	24	147
259	Enzyme-responsive controlled release of covalently bound prodrug from functional mesoporous silica nanospheres. *Angewandte Chemie - International Edition*, **2012**, 51, 12486-9	16.4	146
258	Facile Oxygen Reduction on a Three-Dimensionally Ordered Macroporous Graphitic C3N4/Carbon Composite Electrocatalyst. *Angewandte Chemie*, **2012**, 124, 3958-3962	3.6	146
257	Mesoporous metallic cells: design of uniformly sized hollow mesoporous Pt-Ru particles with tunable shell thicknesses. *Small*, **2013**, 9, 1047-51	11	146
256	Monodisperse Yolk–Shell Nanoparticles with a Hierarchical Porous Structure for Delivery Vehicles and Nanoreactors. *Angewandte Chemie*, **2010**, 122, 5101-5105	3.6	146
255	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. *Angewandte Chemie - International Edition*, **2016**, 55, 8228-34	16.4	138
254	Rational design of atomic-layer-deposited LiFePO4 as a high-performance cathode for lithium-ion batteries. *Advanced Materials*, **2014**, 26, 6472-7	24	138
253	Hierarchical mesoporous yolk-shell structured carbonaceous nanospheres for high performance electrochemical capacitive energy storage. *Chemical Communications*, **2015**, 51, 2518-21	5.8	136
252	Hierarchical structures of single-crystalline anatase TiO2 nanosheets dominated by {001} facets. *Chemistry - A European Journal*, **2011**, 17, 1423-7	4.8	135
251	Facet-dependent catalytic activity of platinum nanocrystals for triiodide reduction in dye-sensitized solar cells. *Scientific Reports*, **2013**, 3, 1836	4.9	133
250	Organosilane-Assisted Transformation from Core–Shell to Yolk–Shell Nanocomposites. *Chemistry of Materials*, **2011**, 23, 3676-3684	9.6	129
249	Facile synthesis of carbon-doped mesoporous anatase TiO for the enhanced visible-light driven photocatalysis. *Chemical Communications*, **2014**, 50, 13971-4	5.8	128
248	Sol-gel coating of inorganic nanostructures with resorcinol-formaldehyde resin. *Chemical Communications*, **2013**, 49, 5135-7	5.8	127
247	Vacancy Engineering of Iron-Doped W O Nanoreactors for Low-Barrier Electrochemical Nitrogen Reduction. *Angewandte Chemie - International Edition*, **2020**, 59, 7356-7361	16.4	126
246	Adsorption and release of biocides with mesoporous silica nanoparticles. *Nanoscale*, **2012**, 4, 970-5	7.7	125
245	Functionalized Mesoporous Silica with Very Large Pores for Cellulase Immobilization. *Journal of Physical Chemistry C*, **2010**, 114, 8353-8362	3.8	123
244	Synthesis and applications of porous non-silica metal oxide submicrospheres. *Chemical Society Reviews*, **2016**, 45, 6013-6047	58.5	118
243	Facile fabrication of core-shell-structured Ag@carbon and mesoporous yolk-shell-structured Ag@carbon@silica by an extended St ber method. *Chemistry - A European Journal*, **2013**, 19, 6942-5	4.8	115

242	Hydrothermally Stable Thioether-Bridged Mesoporous Materials with Void Defects in the Pore Walls. *Advanced Functional Materials*, **2005**, 15, 1297-1302	15.6	99
241	Janus particles: design, preparation, and biomedical applications. *Materials Today Bio*, **2019**, 4, 100033	9.9	95
240	Synthesis of Nitrogen-Doped Mesoporous Carbon Spheres with Extra-Large Pores through Assembly of Diblock Copolymer Micelles. *Angewandte Chemie*, **2015**, 127, 598-603	3.6	94
239	Extension of The Stöber Method to the Preparation of Monodisperse Resorcinol–Formaldehyde Resin Polymer and Carbon Spheres. *Angewandte Chemie*, **2011**, 123, 6069-6073	3.6	91
238	Tunable Assembly of Organosilica Hollow Nanospheres. *Journal of Physical Chemistry C*, **2010**, 114, 953-958	3.8	90
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236	Morphological and structural evolution of mesoporous silicas in a mild buffer solution and lysozyme adsorption. *Langmuir*, **2007**, 23, 7255-62	4	85
235	High-power lithium-selenium batteries enabled by atomic cobalt electrocatalyst in hollow carbon cathode. *Nature Communications*, **2020**, 11, 5025	17.4	84
234	Direct synthesis of highly ordered amine-functionalized mesoporous ethane-silicas. *Microporous and Mesoporous Materials*, **2008**, 109, 172-183	5.3	83
233	Biomimetic polymeric semiconductor based hybrid nanosystems for artificial photosynthesis towards solar fuels generation via CO2 reduction. *Nano Energy*, **2016**, 25, 128-135	17.1	83
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231	Nitrogen-doped hollow carbon spheres with large mesoporous shells engineered from diblock copolymer micelles. *Chemical Communications*, **2016**, 52, 505-8	5.8	76
230	Thioether-bridged Mesoporous Organosilicas: Mesophase Transformations Induced by the Bridged Organosilane Precursor. *Advanced Functional Materials*, **2007**, 17, 569-576	15.6	72
229	Magnetic silica spheres with large nanopores for nucleic acid adsorption and cellular uptake. *Biomaterials*, **2012**, 33, 970-8	15.6	71
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224	Dual-Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries. *Advanced Energy Materials*, **2020**, 10, 2002271	21.8	67
223	Acid catalyzed synthesis of ordered bifunctionalized mesoporous organosilicas with large pore. *Microporous and Mesoporous Materials*, **2005**, 77, 257-264	5.3	65
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220	A Multifunctional Platinum Nanoreactor for Point-of-Care Metabolic Analysis. *Matter*, **2019**, 1, 1669-1680	12.7	62
219	A Yolk‐Shell Nanoreactor with a Basic Core and an Acidic Shell for Cascade Reactions. *Angewandte Chemie*, **2012**, 124, 9298-9302	3.6	62
218	Pore size control of mesoporous silicas from mixtures of sodium silicate and TEOS. *Microporous and Mesoporous Materials*, **2007**, 106, 62-67	5.3	62
217	Periodic Mesoporous Organosilicas with 1,4-Diethylenebenzene in the Mesoporous Wall: Synthesis, Characterization, and Bioadsorption Properties. *Journal of Physical Chemistry C*, **2007**, 111, 10948-10954	3.8	61
216	Molecular-Level Design of Pyrrhotite Electrocatalyst Decorated Hierarchical Porous Carbon Spheres as Nanoreactors for Lithium‐Sulfur Batteries. *Advanced Energy Materials*, **2020**, 10, 2000651	21.8	61
215	A synthetic strategy for carbon nanospheres impregnated with highly monodispersed metal nanoparticles. *NPG Asia Materials*, **2016**, 8, e240-e240	10.3	60
214	Three-dimensional assemblies of carbon nitride tubes as nanoreactors for enhanced photocatalytic hydrogen production. *Journal of Materials Chemistry A*, **2020**, 8, 305-312	13	60
213	The Development of Yolk‐Shell-Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. *Advanced Functional Materials*, **2018**, 28, 1801737	15.6	60
212	Enhanced Hydrogenation Performance over Hollow Structured Co-CoO@N-C Capsules. *Advanced Science*, **2019**, 6, 1900807	13.6	58
211	Palladium nanoparticles bonded to two-dimensional iron oxide graphene nanosheets: a synergistic and highly reusable catalyst for the Tsuji-Trost reaction in water and air. *Chemistry - A European Journal*, **2014**, 20, 11549-55	4.8	58
210	The nanocomposites of SO3H-hollow-nanosphere and chiral amine for asymmetric aldol reaction. *Journal of Materials Chemistry*, **2009**, 19, 8580		58
209	Fabrication of core‐shell, yolk‐shell and hollow Fe3O4@carbon microboxes for high-performance lithium-ion batteries. *Materials Chemistry Frontiers*, **2017**, 1, 823-830	7.8	56
208	Formation of hollow MoS2/carbon microspheres for high capacity and high rate reversible alkali-ion storage. *Journal of Materials Chemistry A*, **2018**, 6, 8280-8288	13	56
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201	Organosilica nanotubes: large-scale synthesis and encapsulation of metal nanoparticles. *Chemical Communications*, **2011**, 47, 8073-5	5.8	54
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199	Synthesis of nanorattles with layered double hydroxide core and mesoporous silica shell as delivery vehicles. *Journal of Materials Chemistry*, **2011**, 21, 10641		53
198	An efficient solid acid catalyst: Poly-p-styrenesulfonic acid supported on SBA-15 via surface-initiated ATRP. *Microporous and Mesoporous Materials*, **2009**, 123, 228-233	5.3	53
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196	Efficient drug delivery using SiO2-layered double hydroxide nanocomposites. *Journal of Colloid and Interface Science*, **2016**, 470, 47-55	9.3	52
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193	Superior stable sulfur cathodes of Li-S batteries enabled by molecular layer deposition. *Chemical Communications*, **2014**, 50, 9757-60	5.8	51
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190	Design and synthesis of porous ZnTiO3/TiO2 nanocages with heterojunctions for enhanced photocatalytic H2 production. *Journal of Materials Chemistry A*, **2017**, 5, 11615-11622	13	47
189	Atomic layer deposited Li4Ti5O12 on nitrogen-doped carbon nanotubes. *RSC Advances*, **2013**, 3, 7285	3.7	47

188	The synthesis and catalytic performances of three-dimensionally ordered macroporous perovskite-type LaMn1−xFexO3 complex oxide catalysts with different pore diameters for diesel soot combustion. *Catalysis Today*, **2012**, 191, 146-153	5.3	47
187	Boosting electrochemical oxygen evolution over yolk-shell structured O-MoS2 nanoreactors with sulfur vacancy and decorated Pt nanoparticles. *Nano Energy*, **2020**, 78, 105284	17.1	46
186	2D Layered non-precious metal mesoporous electrocatalysts for enhanced oxygen reduction reaction. *Journal of Materials Chemistry A*, **2017**, 5, 4868-4878	13	45
185	Clickable periodic mesoporous organosilicas: synthesis, click reactions, and adsorption of antibiotics. *Chemistry - A European Journal*, **2014**, 20, 1957-63	4.8	45
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183	Evolution from hollow nanospheres to highly ordered FDU-12 induced by inorganic salts under weak acidic conditions. *Microporous and Mesoporous Materials*, **2010**, 127, 119-125	5.3	44
182	Advances in Multicompartment Mesoporous Silica Micro/Nanoparticles for Theranostic Applications. *Annual Review of Chemical and Biomolecular Engineering*, **2018**, 9, 389-411	8.9	43
181	Controlled synthesis of Zirconium Oxide on graphene nanosheets by atomic layer deposition and its growth mechanism. *Carbon*, **2013**, 52, 74-82	10.4	42
180	Synthesis of SBA-15 type mesoporous organosilicas with diethylenebenzene in the framework and post-synthetic framework modification. *Microporous and Mesoporous Materials*, **2007**, 98, 220-226	5.3	42
179	Design, synthesis and catalytic performance of vanadium-incorporated mesoporous silica KIT-6 catalysts for the oxidative dehydrogenation of propane to propylene. *Catalysis Science and Technology*, **2016**, 6, 5927-5941	5.5	42
178	From Hollow Nanosphere to Hollow Microsphere: Mild Buffer Provides Easy Access to Tunable Silica Structure. *Journal of Physical Chemistry C*, **2008**, 112, 16445-16451	3.8	41
177	Pore-size tunable mesoporous zirconium organophosphonates with chiral L-proline for enzyme adsorption. *Inorganic Chemistry*, **2007**, 46, 7944-52	5.1	41
176	Wheat flour-derived N-doped mesoporous carbon extrudate as superior metal-free catalysts for acetylene hydrochlorination. *Chemical Communications*, **2018**, 54, 623-626	5.8	39
175	Microenvironment Engineering of Ruthenium Nanoparticles Incorporated into Silica Nanoreactors for Enhanced Hydrogenations. *Angewandte Chemie - International Edition*, **2019**, 58, 14483-14488	16.4	39
174	Laser engineered graphene paper for mass spectrometry imaging. *Scientific Reports*, **2013**, 3, 1415	4.9	39
173	Atomic/molecular layer deposition for energy storage and conversion. *Chemical Society Reviews*, **2021**, 50, 3889-3956	58.5	39
172	Confined LiBH4: Enabling fast hydrogen release at ~100°C. *International Journal of Hydrogen Energy*, **2012**, 37, 18920-18926	6.7	38
171	Organic–Inorganic Hybrid Hollow Nanospheres with Microwindows on the Shell. *Chemistry of Materials*, **2008**, 20,	9.6	38

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169	Structural control of mesoporous silicas with large nanopores in a mild buffer solution. *Microporous and Mesoporous Materials*, **2008**, 116, 330-338	5.3	37
168	Hierarchical Microtubes Constructed by MoS Nanosheets with Enhanced Sodium Storage Performance. *ACS Nano*, **2020**, 14, 15577-15586	16.7	37
167	Advanced yolk-shell nanoparticles as nanoreactors for energy conversion. *Chinese Journal of Catalysis*, **2017**, 38, 970-990	11.3	36
166	Formation of continuous and highly permeable ZIF-8 membranes on porous alumina and zinc oxide hollow fibers. *Chemical Communications*, **2016**, 52, 13448-13451	5.8	36
165	Atomic Ni Species Anchored N-Doped Carbon Hollow Spheres as Nanoreactors for Efficient Electrochemical CO2 Reduction. *ChemCatChem*, **2019**, 11, 6092-6098	5.2	36
164	Chirally functionalized hollow nanospheres containing L-prolinamide: synthesis and asymmetric catalysis. *Chemistry - A European Journal*, **2010**, 16, 7852-8	4.8	36
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162	Porous Co3V2O8 Nanosheets with Ultrahigh Performance as Anode Materials for Lithium Ion Batteries. *Advanced Materials Interfaces*, **2017**, 4, 1700054	4.6	35
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160	Synthesis and Characterization of Phosphonic Acid Functionalized Organosilicas with Bimodal Nanostructure. *Chemistry of Materials*, **2005**, 17, 3019-3024	9.6	35
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149	Stable Hollow-Structured Silicon Suboxide-Based Anodes toward High-Performance Lithium-Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2101796	15.6	32
148	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. *Angewandte Chemie*, **2017**, 129, 8555-8560	3.6	31
147	Hierarchical Porous Yolk–Shell Carbon Nanosphere for High-Performance Lithium–Sulfur Batteries. *Particle and Particle Systems Characterization*, **2017**, 34, 1600281	3.1	31
146	Direct synthesis of hierarchical monolithic silica for high performance liquid chromatography. *Journal of Chromatography A*, **2008**, 1190, 232-40	4.5	31
145	Mesoporous organosilicas containing disulfide moiety: Synthesis and generation of sulfonic acid functionality through chemical transformation in the pore wall. *Microporous and Mesoporous Materials*, **2008**, 113, 333-342	5.3	31
144	Engineering Ni/SiO2 catalysts for enhanced CO2 methanation. *Fuel*, **2021**, 285, 119151	7.1	31
143	The design of phase change materials with carbon aerogel composites for multi-responsive thermal energy capture and storage. *Journal of Materials Chemistry A*, **2021**, 9, 1213-1220	13	31
142	Fe atoms anchored on defective nitrogen doped hollow carbon spheres as efficient electrocatalysts for oxygen reduction reaction. *Nano Research*, **2021**, 14, 1069-1077	10	31
141	Growing a hydrophilic nanoporous shell on a hydrophobic catalyst interface for aqueous reactions with high reaction efficiency and in situ catalyst recycling. *Journal of Materials Chemistry A*, **2017**, 5, 16162-16170	13	30
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137	TiO2/CdS composite hollow spheres with controlled synthesis of platinum on the internal wall for the efficient hydrogen evolution. *International Journal of Hydrogen Energy*, **2013**, 38, 9065-9073	6.7	29
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