Chuanbao Cao

List of Publications by Citations

342 papers	12,331 citations	56 h-index	91 g-index
353 ext. papers	13,871 ext. citations	5.6 avg, IF	6.77 L-index

#	Paper	IF	Citations
342	Hierarchical porous nitrogen-doped carbon nanosheets derived from silk for ultrahigh-capacity battery anodes and supercapacitors. *ACS Nano*, **2015**, 9, 2556-64	16.7	1164
341	Ultrathin nickel hydroxide and oxide nanosheets: synthesis, characterizations and excellent supercapacitor performances. *Scientific Reports*, **2014**, 4, 5787	4.9	301
340	Multifunctional g-C(3)N(4) nanofibers: a template-free fabrication and enhanced optical, electrochemical, and photocatalyst properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 1258-65	9.5	300
339	Tubular graphitic-C3N4: a prospective material for energy storage and green photocatalysis. *Journal of Materials Chemistry A*, **2013**, 1, 13949	13	211
338	Nanometer-Sized Copper Sulfide Hollow Spheres with Strong Optical-Limiting Properties. *Advanced Functional Materials*, **2007**, 17, 1397-1401	15.6	183
337	Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 30626-30634	9.5	170
336	Two-dimensional ultrathin ZnCo2O4 nanosheets: general formation and lithium storage application. *Journal of Materials Chemistry A*, **2015**, 3, 9556-9564	13	152
335	Poly(vinylidene fluoride)/SiO2 composite membranes prepared by electrospinning and their excellent properties for nonwoven separators for lithium-ion batteries. *Journal of Power Sources*, **2014**, 251, 423-431	8.9	140
334	One-step synthesis of zinc□obalt layered double hydroxide (Zn□Co-LDH) nanosheets for high-efficiency oxygen evolution reaction. *Journal of Materials Chemistry A*, **2015**, 3, 6878-6883	13	138
333	Microwave Assisted Synthesis of Porous NiCo2O4 Microspheres: Application as High Performance Asymmetric and Symmetric Supercapacitors with Large Areal Capacitance. *Scientific Reports*, **2016**, 6, 22699	4.9	138
332	Enhancing visible-light photoelectrochemical water splitting through transition-metal doped TiO2 nanorod arrays. *Journal of Materials Chemistry A*, **2014**, 2, 17820-17827	13	134
331	Synthesis of novel ZnV□□ hierarchical nanospheres and their applications as electrochemical supercapacitor and hydrogen storage material. *ACS Applied Materials & Interfaces*, **2014**, 6, 13635-41	9.5	118
330	Template free synthesis of CuS nanosheet-based hierarchical microspheres: an efficient natural light driven photocatalyst. *CrystEngComm*, **2014**, 16, 5290	3.3	117
329	High-performance supercapacitor electrode based on amorphous mesoporous Ni(OH)2 nanoboxes. *Journal of Power Sources*, **2014**, 262, 344-348	8.9	116
328	Surface-enabled superior lithium storage of high-quality ultrathin NiO nanosheets. *Journal of Materials Chemistry A*, **2014**, 2, 7904	13	113
327	Self-assembled one-dimensional carbon nitride architectures. *Diamond and Related Materials*, **2006**, 15, 1593-1600	3.5	111
326	Microwave-assisted and gram-scale synthesis of ultrathin SnO2 nanosheets with enhanced lithium storage properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 2745-53	9.5	109

325	LiNi1/3Co1/3Mn1/3O2 nanoplates with {010} active planes exposing prepared in polyol medium as a high-performance cathode for Li-ion battery. *ACS Applied Materials & Interfaces*, **2014**, 6, 5075-82	9.5	102
324	Preparation of non-woven mats from all-aqueous silk fibroin solution with electrospinning method. *Polymer*, **2006**, 47, 6322-6327	3.9	102
323	From rice bran to high energy density supercapacitors: a new route to control porous structure of 3D carbon. *Scientific Reports*, **2014**, 4, 7260	4.9	101
322	LiNi1/3Co1/3Mn1/3O2 hollow nano-micro hierarchical microspheres with enhanced performances as cathodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 11848	13	97
321	Synthesis of Carbon Nitride Nanotubes via a Catalytic-Assembly Solvothermal Route. *Chemistry of Materials*, **2004**, 16, 5213-5215	9.6	97
320	Enhanced electrochemical performance of ball milled CoO for supercapacitor applications. *Journal of Materials Chemistry A*, **2014**, 2, 16467-16473	13	94
319	Solvothermal synthesis of CoxFe3□O4 spheres and their microwave absorption properties. *Journal of Materials Chemistry C*, **2014**, 2, 5944-5953	7.1	92
318	Hollow core-shell eta-Fe2O3 microspheres with excellent lithium-storage and gas-sensing properties. *Chemical Communications*, **2010**, 46, 3869-71	5.8	90
317	A novel Z-scheme WO3/CdWO4 photocatalyst with enhanced visible-light photocatalytic activity for the degradation of organic pollutants. *RSC Advances*, **2015**, 5, 6019-6026	3.7	89
316	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. *Nano Energy*, **2015**, 11, 267-276	17.1	89
315	Electrospinning of silk fibroin and collagen for vascular tissue engineering. *International Journal of Biological Macromolecules*, **2010**, 47, 514-9	7.9	89
314	Bifunctional catalysts of Co3O4@GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. *Nano Research*, **2015**, 8, 3725-3736	10	86
313	Cytocompatibility and blood compatibility of multifunctional fibroin/collagen/heparin scaffolds. *Biomaterials*, **2007**, 28, 2306-13	15.6	84
312	Formation of crystalline carbon nitride powder by a mild solvothermal method. *Journal of Materials Chemistry*, **2003**, 13, 1241		83
311	Scalable 2D Mesoporous Silicon Nanosheets for High-Performance Lithium-Ion Battery Anode. *Small*, **2018**, 14, e1703361	11	82
310	Large scale production of novel g-C3N4 micro strings with high surface area and versatile photodegradation ability. *CrystEngComm*, **2014**, 16, 1825	3.3	82
309	Enhanced electrochemical performance of carbon nanospheres□iFePO4 composite by PEG based sol□el synthesis. *Electrochimica Acta*, **2010**, 55, 3921-3926	6.7	82
308	In vitro and in vivo degradation behavior of aqueous-derived electrospun silk fibroin scaffolds. *Polymer Degradation and Stability*, **2010**, 95, 1679-1685	4.7	78

307	A novel three-dimensional tubular scaffold prepared from silk fibroin by electrospinning. *International Journal of Biological Macromolecules*, **2009**, 45, 504-10	7.9	75
306	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. *ACS Catalysis*, **2018**, 8, 10004-10011	13.1	75
305	Microwave-assisted synthesis of graphene-like cobalt sulfide freestanding sheets as an efficient bifunctional electrocatalyst for overall water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 7592-7607	13	73
304	Tunable porous structure of carbon nanosheets derived from puffed rice for high energy density supercapacitors. *Journal of Power Sources*, **2017**, 371, 148-155	8.9	73
303	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. *Scientific Reports*, **2015**, 5, 12389	4.9	70
302	A co-sol-emulsion-gel synthesis of tunable and uniform hollow carbon nanospheres with interconnected mesoporous shells. *Nanoscale*, **2016**, 8, 451-7	7.7	70
301	Molecular beam epitaxy growth of high quality p-doped SnS van der Waals epitaxy on a graphene buffer layer. *Journal of Applied Physics*, **2012**, 111, 093520	2.5	67
300	Facile one-pot synthesis of mesoporous hierarchically structured silica/carbon nanomaterials. *Journal of Materials Chemistry*, **2012**, 22, 13918		67
299	Synthesis and characterization of graphite-like carbon nitride nanobelts and nanotubes. *Nanotechnology*, **2007**, 18, 115605	3.4	67
298	Synthesis of CuS flowers exhibiting versatile photo-catalyst response. *New Journal of Chemistry*, **2015**, 39, 1459-1468	3.6	66
297	Bamboo-Like Nitrogen-Doped Carbon Nanotubes with Co Nanoparticles Encapsulated at the Tips: Uniform and Large-Scale Synthesis and High-Performance Electrocatalysts for Oxygen Reduction. *Chemistry - A European Journal*, **2015**, 21, 14022-9	4.8	66
296	Photoresponse and Field-Emission Properties of Bismuth Sulfide Nanoflowers. *Crystal Growth and Design*, **2008**, 8, 3951-3955	3.5	66
295	Preparation of alumina films from a new sol□gel route. *Thin Solid Films*, **1999**, 348, 99-102	2.2	66
294	Rigid three-dimensional Ni3S4 nanosheet frames: controlled synthesis and their enhanced electrochemical performance. *RSC Advances*, **2015**, 5, 8422-8426	3.7	64
293	In situ formed Bi/BiOBrxI1-x heterojunction of hierarchical microspheres for efficient visible-light photocatalytic activity. *Physical Chemistry Chemical Physics*, **2015**, 17, 13347-54	3.6	61
292	Remarkable cycling durability of lithium-sulfur batteries with interconnected mesoporous hollow carbon nanospheres as high sulfur content host. *Chemical Engineering Journal*, **2020**, 401, 126141	14.7	61
291	Attempt to deposit carbon nitride films by electrodeposition from an organic liquid. *Physical Review B*, **1999**, 59, 1693-1696	3.3	61
290	Microwave-Assisted Synthesis of CuS Hierarchical Nanosheets as the Cathode Material for High-Capacity Rechargeable Magnesium Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 7046-7054	9.5	60

289	The synergistic effect between WO3 and g-C3N4 towards efficient visible-light-driven photocatalytic performance. *New Journal of Chemistry*, **2014**, 38, 5462-5469	3.6	60
288	Gas-Sensing Properties of Perovskite BiFeO3 Nanoparticles. *Journal of the American Ceramic Society*, **2009**, 92, 3105-3107	3.8	60
287	Carbon nitride prepared by solvothermal method. *Diamond and Related Materials*, **2003**, 12, 1070-1074	3.5	59
286	Synthesis of mid-infrared SnSe nanowires and their optoelectronic properties. *CrystEngComm*, **2014**, 16, 3470	3.3	55
285	Hydrothermal synthesis of Co-doped ZnO flakes with room temperature ferromagnetism. *Journal of Alloys and Compounds*, **2010**, 501, 265-268	5.7	55
284	A simple method to synthesize gallium oxide nanosheets and nanobelts. *Chemical Physics Letters*, **2003**, 378, 660-664	2.5	54
283	Growth and characterization of single-crystal ZnSe nanorods via surfactant soft-template method. *Solid State Communications*, **2004**, 130, 241-245	1.6	53
282	Tumor-Targeted Multimodal Optical Imaging with Versatile Cadmium-Free Quantum Dots. *Advanced Functional Materials*, **2016**, 26, 267-276	15.6	53
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280	Microwave assisted synthesis of mesoporous NiCo2O4 nanosheets as electrode material for advanced flexible supercapacitors. *RSC Advances*, **2015**, 5, 33146-33154	3.7	52
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277	Microwave-anion-exchange route to ultrathin cobalt-nickel-sulfide nanosheets for hybrid supercapacitors. *Chemical Engineering Journal*, **2019**, 362, 576-587	14.7	51
276	The way to improve the energy density of supercapacitors: Progress and perspective. *Science China Materials*, **2018**, 61, 1517-1526	7.1	51
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274	Synthesis, evolution and hydrogen storage properties of ZnV2O4 glomerulus nano/microspheres: A prospective material for energy storage. *International Journal of Hydrogen Energy*, **2014**, 39, 7842-7851	6.7	49
273	Effect of the morphology of CuS upon the photocatalytic degradation of organic dyes. *RSC Advances*, **2014**, 4, 63447-63456	3.7	47
272	Effect of synthesis technique on electrochemical performance of bismuth selenide. *Journal of Power Sources*, **2013**, 229, 216-222	8.9	47

271	Magnetic and optical properties of Fe doped ZnS nanoparticles synthesized by microemulsion method. *Chemical Physics Letters*, **2011**, 517, 55-58	2.5	47
270	Novel gas sensoring materials based on CuS hollow spheres. *Microporous and Mesoporous Materials*, **2009**, 118, 423-426	5.3	47
269	The biocompatibility of silk fibroin films containing sulfonated silk fibroin. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2006**, 78, 89-96	3.5	46
268	Electrodeposition diamond-like carbon films from organic liquids. *Thin Solid Films*, **2000**, 368, 203-207	2.2	46
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264	Synthesis of hexagonal boron carbonitride phase by solvothermal method. *Diamond and Related Materials*, **2004**, 13, 1757-1760	3.5	45
263	A novel solvent system for blending of polyurethane and heparin. *Biomaterials*, **2003**, 24, 3915-9	15.6	45
262	Well-Aligned Single-Crystalline GaN Nanocolumns and Their Field Emission Properties. *Crystal Growth and Design*, **2009**, 9, 792-796	3.5	44
261	Hierarchical mesoporous NiCo2O4 hollow nanocubes for supercapacitors. *Physical Chemistry Chemical Physics*, **2016**, 18, 6268-74	3.6	43
260	Electronic, elastic, optical properties of rutile TiO2 under pressure: A DFT study. *Physica B: Condensed Matter*, **2012**, 407, 958-965	2.8	43
259	Cobalt-doping SnS nanosheets towards high-performance anodes for sodium ion batteries. *Nanoscale*, **2020**, 12, 248-255	7.7	43
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257	Engineering yolk□shell P-doped NiS2/C spheres via a MOF-template for high-performance sodium-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 8612-8619	13	42
256	Floating photocatalyst of B-N-TiO2/expanded perlite: a sol-gel synthesis with optimized mesoporous and high photocatalytic activity. *Scientific Reports*, **2016**, 6, 29902	4.9	42
255	Micro and nano hierachical structures of BiOI/activated carbon for efficient visible-light-photocatalytic reactions. *Scientific Reports*, **2017**, 7, 11665	4.9	42
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252	Chrysanthemum-like TiO2 nanostructures with exceptional reversible capacity and high coulombic efficiency for lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 6402-6407	13	39
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249	Advances and challenges in metal□organic framework derived porous materials for batteries and electrocatalysis. *Journal of Materials Chemistry A*, **2020**, 8, 24895-24919	13	38
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247	Synthesis and photoluminescence of gallium oxide ultra-long nanowires and thin nanosheets. *Journal of Crystal Growth*, **2005**, 279, 122-128	1.6	38
246	Synthesis of novel ZnV2O4 spinel oxide nanosheets and their hydrogen storage properties. *CrystEngComm*, **2014**, 16, 894-899	3.3	37
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242	Microwave-assisted and large-scale synthesis of SnO2/carbon-nanotube hybrids with high lithium storage capacity. *RSC Advances*, **2015**, 5, 58568-58573	3.7	36
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240	Growth and Field Emission Properties of Cactus-like Gallium Oxide Nanostructures. *Journal of Physical Chemistry C*, **2008**, 112, 95-98	3.8	36
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237	Structure and ferromagnetic properties of Co-doped ZnO powders. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 2216-2219	2.8	35
236	Anionic Se-Substitution toward High-Performance CuS Se Nanosheet Cathode for Rechargeable Magnesium Batteries. *Small*, **2019**, 15, e1902797	11	34

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228	Synthesis of three-dimensional WO3 octahedra: characterization, optical and efficient photocatalytic properties. *RSC Advances*, **2014**, 4, 37914-37920	3.7	32
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225	Mesoporous Spinel LiMn2O4 Cathode Material by a Soft-templating Route. *Electrochimica Acta*, **2016**, 199, 51-58	6.7	32
224	Controllable synthesis of porous TiO2 with a hierarchical nanostructure for efficient photocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2015**, 3, 3710-3718	13	31
223	3D hierarchical MnO2 microspheres: a prospective material for high performance supercapacitors and lithium-ion batteries. *Sustainable Energy and Fuels*, **2017**, 1, 1795-1804	5.8	31
222	Synthesis, photoluminescence and field emission properties of well aligned/well patterned conical shape GaN nanorods. *CrystEngComm*, **2012**, 14, 8492	3.3	31
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218	Controlled Growth of Aluminum Nitride Nanostructures: Aligned Tips, Brushes, and Complex Structures. *Journal of Physical Chemistry C*, **2007**, 111, 1895-1899	3.8	30

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216	Microwave-assisted synthesis of CuSe nano-particles as a high -performance cathode for rechargeable magnesium batteries. *Electrochimica Acta*, **2019**, 324, 134864	6.7	29
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214	Fabrication and photovoltaic characteristics of Cu2O/TiO2 thin film heterojunction solar cell. *Thin Solid Films*, **2012**, 522, 430-434	2.2	29
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195	Synthesis and characterization of crystalline carbon nitride nanowires. *Solid State Communications*, **2010**, 150, 2148-2153	1.6	25
194	Effect of size in nanowires grown by the vapor-liquid-solid mechanism. *Applied Physics Letters*, **2006**, 88, 143118	3.4	25
193	Preparation of ZnS nanotubes via surfactant micelle-template inducing reaction. *Journal of Materials Science*, **2004**, 39, 1575-1578	4.3	25
192	□Fe2O3 oriented growth by surfactant molecules in microemulsion. *Journal of Crystal Growth*, **2005**, 277, 238-245	1.6	25
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190	Rapid and simplistic microwave assisted method to synthesise cobalt selenide nanosheets; a prospective material for high performance hybrid supercapacitor. *Applied Surface Science*, **2020**, 505, 144618	6.7	25
189	Toward Alleviating Voltage Decay by Sodium Substitution in Lithium-Rich Manganese-Based Oxide Cathodes. *ACS Applied Energy Materials*, **2018**, 1, 4065-4074	6.1	24
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187	Blood compatibility of polyurethane immobilized with acrylic acid and plasma grafting sulfonic acid. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 607-11	4.5	24
186	Clotting times and tensile properties of insoluble silk fibroin films containing heparin. *Polymer International*, **2005**, 54, 1076-1081	3.3	24
185	Fabrication of ZnV2O6 nanostructures: Their energy storage and PL properties. *Materials Letters*, **2015**, 155, 15-17	3.3	23
184	Remarkable electrochemical lithium storage behaviour of two-dimensional ultrathin □Ni(OH)2 nanosheets. *RSC Advances*, **2015**, 5, 83757-83763	3.7	23
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182	Bandgap-tunable phosphorus-doped monolayer graphene with enhanced visible-light photocatalytic H2-production activity. *Journal of Materials Chemistry C*, **2019**, 7, 10613-10622	7.1	23

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