

Ying Ian Chen

List of Publications by Citations

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324
papers

22,367
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70
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141
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341
ext. papers

25,211
ext. citations

7
avg, IF

7.16
L-index

#	Paper	IF	Citations
324	Hydrogen evolution by a metal-free electrocatalyst. <i>Nature Communications</i> , 2014 , 5, 3783	17.4	1572
323	High oxygen-reduction activity and durability of nitrogen-doped graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 760	35.4	1073
322	Molecule-Level g-CN Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3336-3339	16.4	816
321	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. <i>ACS Nano</i> , 2014 , 8, 5290-6	16.7	802
320	Porous boron nitride nanosheets for effective water cleaning. <i>Nature Communications</i> , 2013 , 4, 1777	17.4	708
319	Boron nitride nanotubes: Pronounced resistance to oxidation. <i>Applied Physics Letters</i> , 2004 , 84, 2430-2432	3.4	678
318	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16174-16181	16.4	586
317	Strong oxidation resistance of atomically thin boron nitride nanosheets. <i>ACS Nano</i> , 2014 , 8, 1457-62	16.7	490
316	Boron nitride colloidal solutions, ultralight aerogels and freestanding membranes through one-step exfoliation and functionalization. <i>Nature Communications</i> , 2015 , 6, 8849	17.4	486
315	Observation of active sites for oxygen reduction reaction on nitrogen-doped multilayer graphene. <i>ACS Nano</i> , 2014 , 8, 6856-62	16.7	445
314	Ball-milling-induced amorphization in NixZry compounds: A parametric study. <i>Physical Review B</i> , 1993 , 48, 14-21	3.3	382
313	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017 , 8, 15815	17.4	371
312	Mechanical property and structure of covalent functionalised graphene/epoxy nanocomposites. <i>Scientific Reports</i> , 2014 , 4, 4375	4.9	352
311	Tin-based composite anodes for potassium-ion batteries. <i>Chemical Communications</i> , 2016 , 52, 9279-82	5.8	308
310	Atomically Thin Boron Nitride: Unique Properties and Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 2594-2608	15.6	306
309	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11862		301
308	Potassium-Ion Battery Anode Materials Operating through the Alloying/Dealloying Reaction Mechanism. <i>Advanced Functional Materials</i> , 2018 , 28, 1703857	15.6	252

307	Charge-controlled switchable CO ₂ capture on boron nitride nanomaterials. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8246-53	16.4	239
306	Synthesis of boron nitride nanotubes at low temperatures using reactive ball milling. <i>Chemical Physics Letters</i> , 1999 , 299, 260-264	2.5	236
305	Phosphorus-carbon nanocomposite anodes for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5572-5584	13	210
304	High capacity potassium-ion battery anodes based on black phosphorus. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23506-23512	13	191
303	A solid-state process for formation of boron nitride nanotubes. <i>Applied Physics Letters</i> , 1999 , 74, 2960-2962	3.4	190
302	Oxygen-doped boron nitride nanosheets with excellent performance in hydrogen storage. <i>Nano Energy</i> , 2014 , 6, 219-224	17.1	170
301	Nanocrystalline SnS coated onto reduced graphene oxide: demonstrating the feasibility of a non-graphitic anode with sulfide chemistry for potassium-ion batteries. <i>Chemical Communications</i> , 2017 , 53, 8272-8275	5.8	164
300	Sulfur-doped porous reduced graphene oxide hollow nanosphere frameworks as metal-free electrocatalysts for oxygen reduction reaction and as supercapacitor electrode materials. <i>Nanoscale</i> , 2014 , 6, 13740-7	7.7	159
299	Dots versus antidots: computational exploration of structure, magnetism, and half-metallicity in boron-nitride nanostructures. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17354-9	16.4	158
298	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long-Life Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1602380	21.8	155
297	Anode Improvement in Rechargeable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700542	24	154
296	Dumbbell-Shaped Bi-component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8459-8463	16.4	152
295	BN Nanosheet/Polymer Films with Highly Anisotropic Thermal Conductivity for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43163-43170	9.5	145
294	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. <i>Science Advances</i> , 2019 , 5, eaav0129	14.3	143
293	K-ion and Na-ion storage performances of CoO-FeO nanoparticle-decorated super P carbon black prepared by a ball milling process. <i>Nanoscale</i> , 2017 , 9, 3646-3654	7.7	139
292	Nanopatterning and Electrical Tuning of MoS ₂ Layers with a Subnanometer Helium Ion Beam. <i>Nano Letters</i> , 2015 , 15, 5307-13	11.5	138
291	Lithium-ion capacitors with 2D Nb ₂ CT _x (MXene) /carbon nanotube electrodes. <i>Journal of Power Sources</i> , 2016 , 326, 686-694	8.9	138
290	Porous Boron Carbon Nitride Nanosheets as Efficient Metal-Free Catalysts for the Oxygen Reduction Reaction in Both Alkaline and Acidic Solutions. <i>ACS Energy Letters</i> , 2017 , 2, 306-312	20.1	134

289	Structure and Capacitive Properties of Porous Nanocrystalline VN Prepared by Temperature-Programmed Ammonia Reduction of V ₂ O ₅ . <i>Chemistry of Materials</i> , 2010 , 22, 914-921	9.6	134
288	Nanoporous carbon produced by ball milling. <i>Applied Physics Letters</i> , 1999 , 74, 2782-2784	3.4	134
287	Electrochemical investigation of sodium reactivity with nanostructured Co ₃ O ₄ for sodium-ion batteries. <i>Chemical Communications</i> , 2014 , 50, 5057-60	5.8	133
286	High and Stable Ionic Conductivity in 2D Nanofluidic Ion Channels between Boron Nitride Layers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6314-6320	16.4	127
285	Disorder in ball-milled graphite revealed by Raman spectroscopy. <i>Carbon</i> , 2013 , 57, 515-519	10.4	124
284	MoO ₃ nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9350		120
283	Sulfur-Impregnated, Sandwich-Type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for High-Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301988	21.8	117
282	Formation of metal hydrides by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 1995 , 217, 181-184	7	114
281	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oil-Polluted Water Cleanup. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400267	4.6	108
280	Dielectric screening in atomically thin boron nitride nanosheets. <i>Nano Letters</i> , 2015 , 15, 218-23	11.5	106
279	A lightweight multifunctional interlayer of sulfur/nitrogen dual-doped graphene for ultrafast, long-life lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15343-15352	13	106
278	Raman signature and phonon dispersion of atomically thin boron nitride. <i>Nanoscale</i> , 2017 , 9, 3059-3067	7.7	104
277	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. <i>Nanoscale</i> , 2013 , 5, 7970-6	7.7	104
276	Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultra-Stable Anodes of Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1803023	15.6	102
275	Porous poly(vinylidene fluoride) membrane with highly hydrophobic surface. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 1358-1363	2.9	101
274	C-BN single-walled nanotubes from hybrid connection of BN/C nanoribbons: prediction by ab initio density functional calculations. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1682-3	16.4	100
273	High-efficient production of boron nitride nanosheets via an optimized ball milling process for lubrication in oil. <i>Scientific Reports</i> , 2014 , 4, 7288	4.9	96
272	Boron Nitride Nanosheets for Metal Protection. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300132	4.6	95

271	Large scale boron carbon nitride nanosheets with enhanced lithium storage capabilities. <i>Chemical Communications</i> , 2013 , 49, 352-4	5.8	94
270	Highly Crumpled Boron Nitride Nanosheets as Adsorbents: Scalable Solvent-Less Production. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400529	4.6	92
269	Superhydrophobic and Superoleophilic Boron Nitride Nanotube-Coated Stainless Steel Meshes for Oil and Water Separation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300002	4.6	91
268	Superhydrophobic properties of nonaligned boron nitride nanotube films. <i>Langmuir</i> , 2010 , 26, 5135-40	4	88
267	Ultra-micro-indentation of silicon and compound semiconductors with spherical indenters. <i>Journal of Materials Research</i> , 1999 , 14, 2338-2343	2.5	88
266	Large-quantity production of high-yield boron nitride nanotubes. <i>Journal of Materials Research</i> , 2002 , 17, 1896-1899	2.5	84
265	First principle studies of zigzag AlN nanoribbon. <i>Chemical Physics Letters</i> , 2009 , 469, 183-185	2.5	83
264	Multifunctional Polymer/Porous Boron Nitride Nanosheet Membranes for Superior Trapping Emulsified Oils and Organic Molecules. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500228	4.6	82
263	Template-free synthesis of functional 3D BN architecture for removal of dyes from water. <i>Scientific Reports</i> , 2014 , 4, 4453	4.9	81
262	Magnetism of C adatoms on BN nanostructures: implications for functional nanodevices. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1796-801	16.4	78
261	Boron Nitride Nanotubes: A Novel Vector for Targeted Magnetic Drug Delivery. <i>Current Nanoscience</i> , 2009 , 5, 33-38	1.4	77
260	Stable anode performance of an Sb \bar{c} carbon nanocomposite in lithium-ion batteries and the effect of ball milling mode in the course of its preparation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4282	13	75
259	Photoluminescence of boron nitride nanosheets exfoliated by ball milling. <i>Applied Physics Letters</i> , 2012 , 100, 261108	3.4	73
258	In-situ and tunable nitrogen-doping of MoS ₂ nanosheets. <i>Scientific Reports</i> , 2014 , 4, 7582	4.9	72
257	MoO ₃ nanoparticles distributed uniformly in carbon matrix for supercapacitor applications. <i>Materials Letters</i> , 2012 , 66, 102-105	3.3	72
256	Self-assembly of core-satellite gold nanoparticles for colorimetric detection of copper ions. <i>Analytica Chimica Acta</i> , 2013 , 803, 128-34	6.6	71
255	Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15349-53	3.6	71
254	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019 , 13, 7402-7409	16.7	70

253	A vein-like nanoporous network of Nb ₂ O ₅ with a higher lithium intercalation discharge cut-off voltage. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11019	13	70
252	Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. <i>Composites Science and Technology</i> , 2018 , 165, 322-330	8.6	69
251	In Situ Formation of BN Nanotubes during Nitriding Reactions. <i>Chemistry of Materials</i> , 2005 , 17, 5172-5176	3.6	68
250	First-principles investigation of L10-disorder phase equilibria of FeNi, Pd, and Pt binary alloy systems. <i>Journal of Alloys and Compounds</i> , 2004 , 383, 23-31	5.7	68
249	Porous BN/TiO ₂ hybrid nanosheets as highly efficient visible-light-driven photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 72-78	21.8	67
248	High-performance lithium ion batteries using SiO ₂ -coated LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ microspheres as cathodes. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 708-716	5.7	67
247	Single layer lead iodide: computational exploration of structural, electronic and optical properties, strain induced band modulation and the role of spin-orbital-coupling. <i>Nanoscale</i> , 2015 , 7, 15168-74	7.7	67
246	Dispersion of boron nitride nanotubes in aqueous solution with the help of ionic surfactants. <i>Solid State Communications</i> , 2009 , 149, 763-766	1.6	67
245	Flower stamen-like porous boron carbon nitride nanoscrolls for water cleaning. <i>Nanoscale</i> , 2017 , 9, 9787-9791	9.1	66
244	Eu-doped Boron Nitride Nanotubes as a Nanometer-Sized Visible-Light Source. <i>Advanced Materials</i> , 2007 , 19, 1845-1848	24	66
243	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3543-3550	8.5	65
242	Demonstration of the advantages of using bamboo-like nanotubes for electrochemical biosensor applications compared with single walled carbon nanotubes. <i>Electrochemistry Communications</i> , 2005 , 7, 1457-1462	5.1	65
241	Biocompatibility of boron nitride nanosheets. <i>Nano Research</i> , 2018 , 11, 334-342	10	64
240	Controlling Wettability of Boron Nitride Nanotube Films and Improved Cell Proliferation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18334-18339	3.8	62
239	Controlled surface modification of boron nitride nanotubes. <i>Nanotechnology</i> , 2011 , 22, 245301	3.4	62
238	A model for the growth of bamboo and skeletal nanotubes: catalytic capillarity. <i>Journal of Crystal Growth</i> , 2002 , 240, 164-169	1.6	62
237	Ex situ electrochemical sodiation/desodiation observation of Co ₃ O ₄ -anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. <i>Nanoscale</i> , 2015 , 7, 13088-95	7.7	61
236	Superior adsorption of pharmaceutical molecules by highly porous BN nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 84-8	3.6	58

235	Enhanced lithium storage in ZnFe ₂ O ₄ /C nanocomposite produced by a low-energy ball milling. <i>Journal of Power Sources</i> , 2015 , 282, 462-470	8.9	58
234	Large-scale synthesis of hexagonal corundum-type In ₂ O ₃ by ball milling with enhanced lithium storage capabilities. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5274	13	58
233	Nanotube growth by surface diffusion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 263, 401-405	2.3	58
232	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8405-9	16.4	58
231	Formation of hollow MoS ₂ /carbon microspheres for high capacity and high rate reversible alkali-ion storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8280-8288	13	56
230	Boron nitride nanotubes reinforced aluminum composites prepared by spark plasma sintering: Microstructure, mechanical properties and deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 574, 149-156	5.3	56
229	Influence of milling temperature and atmosphere on the synthesis of iron nitrides by ball milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 206, 24-29	5.3	56
228	Size and Composition Effects in Sb-Carbon Nanocomposites for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30152-30164	9.5	54
227	Synthesis of boron nitride nanotubes by boron ink annealing. <i>Nanotechnology</i> , 2010 , 21, 105601	3.4	54
226	Boron nitride nanotube films grown from boron ink painting. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9679		53
225	A Review of Advanced Flexible Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2018 , 3, 17003756.8		50
224	Enhanced electrochemical performance of ZrO ₂ modified LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode material for lithium ion batteries. <i>Ceramics International</i> , 2017 , 43, 15173-15178	5.1	50
223	Enhanced lithium storage in Fe ₂ O ₃ -SnO ₂ -C nanocomposite anode with a breathable structure. <i>Nanoscale</i> , 2013 , 5, 4910-6	7.7	50
222	All-solid-state high-energy planar asymmetric supercapacitors based on all-in-one monolithic film using boron nitride nanosheets as separator. <i>Energy Storage Materials</i> , 2018 , 10, 24-31	19.4	50
221	Fluorination-induced magnetism in boron nitride nanotubes from ab initio calculations. <i>Applied Physics Letters</i> , 2008 , 92, 102515	3.4	48
220	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7761-6	3.6	47
219	Boron nitride nanosheets reinforced waterborne polyurethane coatings for improving corrosion resistance and antifriction properties. <i>European Polymer Journal</i> , 2018 , 104, 57-63	5.2	47
218	High-quality boron nitride nanoribbons: unzipping during nanotube synthesis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4212-6	16.4	47

217	A Novel Approach for Real Mass Transformation from V ₂ O ₅ Particles to Nanorods. <i>Crystal Growth and Design</i> , 2008 , 8, 3661-3665	3.5	47
216	Purification of boron nitride nanotubes. <i>Chemical Physics Letters</i> , 2006 , 425, 315-319	2.5	47
215	Advanced N-doped mesoporous molybdenum disulfide nanosheets and the enhanced lithium-ion storage performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1440-1445	13	46
214	Bulk Hexagonal Boron Nitride with a Quasi-Isotropic Thermal Conductivity. <i>Advanced Functional Materials</i> , 2018 , 28, 1707556	15.6	45
213	Isotopically Enriched 10BN Nanotubes. <i>Advanced Materials</i> , 2006 , 18, 2157-2160	24	45
212	Carbon nanotubes formed in graphite after mechanical grinding and thermal annealing. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 633-636	2.6	45
211	The nucleation and growth of carbon nanotubes in a mechano-thermal process. <i>Carbon</i> , 2004 , 42, 1543-1548	15.4	44
210	Maricite NaFePO ₄ /C/graphene: a novel hybrid cathode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16616-16621	13	43
209	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. <i>Optical Materials</i> , 2007 , 29, 1295-1298	3.3	43
208	Antimony-carbon nanocomposites for potassium-ion batteries: Insight into the failure mechanism in electrodes and possible avenues to improve cyclic stability. <i>Journal of Power Sources</i> , 2019 , 413, 476-484	8.9	43
207	Mechanically activated catalyst mixing for high-yield boron nitride nanotube growth. <i>Nanoscale Research Letters</i> , 2012 , 7, 417	5	42
206	Ilmenite FeTiO ₃ Nanoflowers and Their Pseudocapacitance. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17297-17302	3.8	42
205	Amine-Functionalized Boron Nitride Nanosheets: A New Functional Additive for Robust, Flexible Ion Gel Electrolyte with High Lithium-Ion Transference Number. <i>Advanced Functional Materials</i> , 2020 , 30, 1910813	15.6	41
204	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15630-6	9.5	41
203	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. <i>Electrochimica Acta</i> , 2018 , 265, 497-506	6.7	40
202	Single deep ultraviolet light emission from boron nitride nanotube film. <i>Applied Physics Letters</i> , 2010 , 97, 141104	3.4	40
201	Over 1.0mm-long boron nitride nanotubes. <i>Chemical Physics Letters</i> , 2008 , 463, 130-133	2.5	40
200	First-principles study for ordering and phase separation in the Fe-Pd system. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 1903-1913	1.8	40

199	Two-Dimensional Nanomaterials for Anticorrosive Polymeric Coatings: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15424-15446	3.9	40
198	Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. <i>Advanced Functional Materials</i> , 2016 , 26, 8202-8210	15.6	39
197	Gas Protection of Two-Dimensional Nanomaterials from High-Energy Impacts. <i>Scientific Reports</i> , 2016 , 6, 35532	4.9	39
196	Highly efficient oxygen evolution from CoS/CNT nanocomposites via a one-step electrochemical deposition and dissolution method. <i>Nanoscale</i> , 2017 , 9, 6886-6894	7.7	38
195	High temperature and high rate lithium-ion batteries with boron nitride nanotubes coated polypropylene separators. <i>Energy Storage Materials</i> , 2019 , 19, 352-359	19.4	38
194	Nanofluidic electric generators constructed from boron nitride nanosheet membranes. <i>Nano Energy</i> , 2018 , 47, 368-373	17.1	38
193	Boron nitride nanotube reinforced polyurethane composites. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 170-173	3.6	38
192	Insight into reactions and interface between boron nitride nanotube and aluminum. <i>Journal of Materials Research</i> , 2012 , 27, 2760-2770	2.5	37
191	Electrochemical capacitance of mesoporous tungsten oxynitride in aqueous electrolytes. <i>Journal of Power Sources</i> , 2012 , 220, 298-305	8.9	36
190	Pure boron nitride nanowires produced from boron triiodide. <i>Nanotechnology</i> , 2006 , 17, 786-789	3.4	36
189	High N-content holey few-layered graphene electrocatalysts: scalable solvent-less production. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1682-1687	13	35
188	Growth of V ₂ O ₅ nanorods from ball-milled powders and their performance in cathodes and anodes of lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 1841-1846	2.6	35
187	One-dimensional nanomaterials synthesized using high-energy ball milling and annealing process. <i>Science and Technology of Advanced Materials</i> , 2006 , 7, 839-846	7.1	35
186	Efficient production of ZnO nanowires by a ball milling and annealing method. <i>Nanotechnology</i> , 2007 , 18, 175604	3.4	35
185	Reactive ball milling to produce nanocrystalline ZnO. <i>Materials Letters</i> , 2008 , 62, 4047-4049	3.3	34
184	Synthesis of boron nitride nanotubes, bamboos and nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2513-2516	3	34
183	Conical Boron Nitride Nanorods Synthesized Via the Ball-Milling and Annealing Method. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 675-679	3.8	34
182	Understanding Structure-Function Relationship in Hybrid Co ₃ O ₄ -Fe ₂ O ₃ /C Lithium-Ion Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20736-44	9.5	33

181	Lithium ferrite (Li _{0.5} Fe _{2.5} O ₄) nanoparticles as anodes for lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 23145-23148	3.7	33
180	Increased dissolution of ilmenite induced by high-energy ball milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 271, 485-490	5.3	33
179	Low-temperature oxidation of ilmenite (FeTiO ₃) induced by high energy ball milling at room temperature. <i>Journal of Alloys and Compounds</i> , 1997 , 257, 156-160	5.7	32
178	Hierarchical Porous Yolk-Shell Carbon Nanosphere for High-Performance Lithium-Sulfur Batteries. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600281	3.1	31
177	Formation of defects in boron nitride by low energy ion bombardment. <i>Journal of Applied Physics</i> , 2009 , 106, 083523	2.5	31
176	Half metallicity in finite-length zigzag single walled carbon nanotube: A first-principle prediction. <i>Applied Physics Letters</i> , 2008 , 93, 073101	3.4	31
175	Controlled growth of zinc nanowires. <i>Materials Letters</i> , 2007 , 61, 144-147	3.3	31
174	Nanotube growth during annealing of mechanically milled Boron. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 107-110	2.6	31
173	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. <i>Chemical Communications</i> , 2021 , 57, 1080-1092	5.8	31
172	Hydrangea-like multi-scale carbon hollow submicron spheres with hierarchical pores for high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2015 , 176, 207-214	6.7	30
171	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. <i>Polymer</i> , 2014 , 55, 5616-5622	3.9	30
170	One-step template-free synthesis of 3D functionalized flower-like boron nitride nanosheets for NH ₃ and CO adsorption. <i>Nanoscale</i> , 2018 , 10, 10979-10985	7.7	30
169	Divacancy-assisted transition metal adsorption on the BN graphene and its interaction with hydrogen molecules: a theoretical study. <i>Applied Surface Science</i> , 2013 , 273, 293-301	6.7	29
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