Ying Ian Chen

List of Publications by Year
in descending order

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		7096	6471
331	28,076	78	157
papers	citations	h-index	g-index

341	341	341	29288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrogen evolution by a metal-free electrocatalyst. Nature Communications, 2014, 5, 3783.	12.8	1,851
2	High oxygen-reduction activity and durability of nitrogen-doped graphene. Energy and Environmental Science, 2011, 4, 760.	30.8	1,153
3	Molecule-Level g-C₃N₄ Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. Journal of the American Chemical Society, 2017, 139, 3336-3339.	13.7	1,094
4	Toward Design of Synergistically Active Carbon-Based Catalysts for Electrocatalytic Hydrogen Evolution. ACS Nano, 2014, 8, 5290-5296.	14.6	947
5	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. Journal of the American Chemical Society, 2016, 138, 16174-16181.	13.7	852
6	Porous boron nitride nanosheets for effective water cleaning. Nature Communications, 2013, 4, 1777.	12.8	831
7	Boron nitride nanotubes: Pronounced resistance to oxidation. Applied Physics Letters, 2004, 84, 2430-2432.	3.3	785
8	Boron nitride colloidal solutions, ultralight aerogels and freestanding membranes through one-step exfoliation and functionalization. Nature Communications, 2015, 6, 8849.	12.8	658
9	Strong Oxidation Resistance of Atomically Thin Boron Nitride Nanosheets. ACS Nano, 2014, 8, 1457-1462.	14.6	633
10	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. Nature Communications, 2017, 8, 15815.	12.8	576
11	Observation of Active Sites for Oxygen Reduction Reaction on Nitrogen-Doped Multilayer Graphene. ACS Nano, 2014, 8, 6856-6862.	14.6	519
12	Mechanical Property and Structure of Covalent Functionalised Graphene/Epoxy Nanocomposites. Scientific Reports, 2014, 4, 4375.	3.3	458
13	Ball-milling-induced amorphization inNixZrycompounds: A parametric study. Physical Review B, 1993, 48, 14-21.	3.2	403
14	Atomically Thin Boron Nitride: Unique Properties and Applications. Advanced Functional Materials, 2016, 26, 2594-2608.	14.9	400
15	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. Journal of Materials Chemistry, 2011, 21, 11862.	6.7	373
16	Tin-based composite anodes for potassium-ion batteries. Chemical Communications, 2016, 52, 9279-9282.	4.1	356
17	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. Science Advances, 2019, 5, eaav0129.	10.3	308
18	Potassiumâ€ion Battery Anode Materials Operating through the Alloyingâ€“Dealloying Reaction Mechanism. Advanced Functional Materials, 2018, 28, 1703857.	14.9	305

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19	Charge-Controlled Switchable CO₂ Capture on Boron Nitride Nanomaterials. Journal of the American Chemical Society, 2013, 135, 8246-8253.	13.7	293
20	Synthesis of boron nitride nanotubes at low temperatures using reactive ball milling. Chemical Physics Letters, 1999, 299, 260-264.	2.6	267
21	Phosphorusâ€“carbon nanocomposite anodes for lithium-ion and sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 5572-5584.	10.3	241
22	High capacity potassium-ion battery anodes based on black phosphorus. Journal of Materials Chemistry A, 2017, 5, 23506-23512.	10.3	232
23	Anode Improvement in Rechargeable Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1700542.	21.0	225
24	A solid-state process for formation of boron nitride nanotubes. Applied Physics Letters, 1999, 74, 2960-2962.	3.3	222
25	Oxygen-doped boron nitride nanosheets with excellent performance in hydrogen storage. Nano Energy, 2014, 6, 219-224.	16.0	210
26	Dumbbellâ€Shaped Biâ€component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. Angewandte Chemie - International Edition, 2017, 56, 8459-8463.	13.8	204
27	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602380.	19.5	201
28	Nanocrystalline SnS₂coated onto reduced graphene oxide: demonstrating the feasibility of a non-graphitic anode with sulfide chemistry for potassium-ion batteries. Chemical Communications, 2017, 53, 8272-8275.	4.1	197
29	High and Stable Ionic Conductivity in 2D Nanofluidic Ion Channels between Boron Nitride Layers. Journal of the American Chemical Society, 2017, 139, 6314-6320.	13.7	193
30	BN Nanosheet/Polymer Films with Highly Anisotropic Thermal Conductivity for Thermal Management Applications. ACS Applied Materials & Interfaces, 2017, 9, 43163-43170.	8.0	190
31	Sulfur-doped porous reduced graphene oxide hollow nanosphere frameworks as metal-free electrocatalysts for oxygen reduction reaction and as supercapacitor electrode materials. Nanoscale, 2014, 6, 13740-13747.	5.6	183
32	K-ion and Na-ion storage performances of Co₃O₄â€“Fe₂O₃nanoparticle-decorated super P carbon black prepared by a ball milling process. Nanoscale, 2017, 9, 3646-3654.	5.6	176
33	Porous Boron Carbon Nitride Nanosheets as Efficient Metal-Free Catalysts for the Oxygen Reduction Reaction in Both Alkaline and Acidic Solutions. ACS Energy Letters, 2017, 2, 306-312.	17.4	176
34	Lithium-ion capacitors with 2D Nb2CTx (MXene) â€“ carbon nanotube electrodes. Journal of Power Sources, 2016, 326, 686-694.	7.8	175
35	Dots versus Antidots: Computational Exploration of Structure, Magnetism, and Half-Metallicity in Boronâ^'Nitride Nanostructures. Journal of the American Chemical Society, 2009, 131, 17354-17359.	13.7	174
36	Nanopatterning and Electrical Tuning of MoS₂ Layers with a Subnanometer Helium Ion Beam. Nano Letters, 2015, 15, 5307-5313.	9.1	171

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37	Structure and Capacitive Properties of Porous Nanocrystalline VN Prepared by Temperature-Programmed Ammonia Reduction of V₂O₅. Chemistry of Materials, 2010, 22, 914-921.	6.7	161
38	Disorder in ball-milled graphite revealed by Raman spectroscopy. Carbon, 2013, 57, 515-519.	10.3	158
39	Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultraâ€Stable Anodes of Lithiumâ€Metal Batteries. Advanced Functional Materials, 2018, 28, 1803023.	14.9	156
40	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. Nanoscale, 2013, 5, 7970.	5.6	149
41	Nanoporous carbon produced by ball milling. Applied Physics Letters, 1999, 74, 2782-2784.	3.3	148
42	Electrochemical investigation of sodium reactivity with nanostructured Co₃O₄for sodium-ion batteries. Chemical Communications, 2014, 50, 5057-5060.	4.1	145
43	Boron Nitride Nanosheets for Metal Protection. Advanced Materials Interfaces, 2014, 1, 1300132.	3.7	141
44	Raman signature and phonon dispersion of atomically thin boron nitride. Nanoscale, 2017, 9, 3059-3067.	5.6	141
45	Formation of metal hydrides by mechanical alloying. Journal of Alloys and Compounds, 1995, 217, 181-184.	5.5	135
46	High-Efficient Production of Boron Nitride Nanosheets via an Optimized Ball Milling Process for Lubrication in Oil. Scientific Reports, 2014, 4, 7288.	3.3	132
47	Sulfurâ€Impregnated, Sandwichâ€Type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301988.	19.5	130
48	Dielectric Screening in Atomically Thin Boron Nitride Nanosheets. Nano Letters, 2015, 15, 218-223.	9.1	129
49	MoO3 nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 9350.	6.7	127
50	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oilâ€Polluted Water Cleanup. Advanced Materials Interfaces, 2015, 2, 1400267.	3.7	125
51	A lightweight multifunctional interlayer of sulfurâ€“nitrogen dual-doped graphene for ultrafast, long-life lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 15343-15352.	10.3	120
52	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. ACS Nano, 2019, 13, 7402-7409.	14.6	115
53	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. Chemical Communications, 2021, 57, 1080-1092.	4.1	112
54	Porous poly(vinylidene fluoride) membrane with highly hydrophobic surface. Journal of Applied Polymer Science, 2005, 98, 1358-1363.	2.6	111

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55	Large scale boron carbon nitride nanosheets with enhanced lithium storage capabilities. Chemical Communications, 2013, 49, 352-354.	4.1	110
56	Highly Crumpled Boron Nitride Nanosheets as Adsorbents: Scalable Solventâ€Less Production. Advanced Materials Interfaces, 2015, 2, 1400529.	3.7	108
57	Superhydrophobic and Superoleophilic Boron Nitride Nanotubeâ€Coated Stainless Steel Meshes for Oil and Water Separation. Advanced Materials Interfaces, 2014, 1, 1300002.	3.7	107
58	C-BN Single-Walled Nanotubes from Hybrid Connection of BN/C Nanoribbons: Prediction by ab initio Density Functional Calculations. Journal of the American Chemical Society, 2009, 131, 1682-1683.	13.7	106
59	Multifunctional Polymer/Porous Boron Nitride Nanosheet Membranes for Superior Trapping Emulsified Oils and Organic Molecules. Advanced Materials Interfaces, 2015, 2, 1500228.	3.7	106
60	Superhydrophobic Properties of Nonaligned Boron Nitride Nanotube Films. Langmuir, 2010, 26, 5135-5140.	3.5	102
61	Large-quantity production of high-yield boron nitride nanotubes. Journal of Materials Research, 2002, 17, 1896-1899.	2.6	101
62	Biocompatibility of boron nitride nanosheets. Nano Research, 2018, 11, 334-342.	10.4	98
63	Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. Composites Science and Technology, 2018, 165, 322-330.	7.8	98
64	Ultra-micro-indentation of silicon and compound semiconductors with spherical indenters. Journal of Materials Research, 1999, 14, 2338-2343.	2.6	94
65	Two-Dimensional Nanomaterials for Anticorrosive Polymeric Coatings: A Review. Industrial & Engineering Chemistry Research, 2020, 59, 15424-15446.	3.7	94
66	Stable anode performance of an Sbâ€“carbon nanocomposite in lithium-ion batteries and the effect of ball milling mode in the course of its preparation. Journal of Materials Chemistry A, 2014, 2, 4282.	10.3	92
67	Template-Free Synthesis of Functional 3D BN architecture for removal of dyes from water. Scientific Reports, 2014, 4, 4453.	3.3	91
68	High-performance lithium ion batteries using SiO 2 -coated LiNi 0.5 Co 0.2 Mn 0.3 O 2 microspheres as cathodes. Journal of Alloys and Compounds, 2017, 709, 708-716.	5.5	90
69	In-situ and tunable nitrogen-doping of MoS2 nanosheets. Scientific Reports, 2014, 4, 7582.	3.3	89
70	Flower stamen-like porous boron carbon nitride nanoscrolls for water cleaning. Nanoscale, 2017, 9, 9787-9791.	5.6	89
71	Boron Nitride Nanotubes: A Novel Vector for Targeted Magnetic Drug Delivery. Current Nanoscience, 2009, 5, 33-38.	1.2	87
72	First principle studies of zigzag AlN nanoribbon. Chemical Physics Letters, 2009, 469, 183-185.	2.6	86

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73	Porous BN/TiO2 hybrid nanosheets as highly efficient visible-light-driven photocatalysts. Applied Catalysis B: Environmental, 2017, 207, 72-78.	20.2	86
74	Amineâ€Functionalized Boron Nitride Nanosheets: A New Functional Additive for Robust, Flexible Ion Gel Electrolyte with High Lithiumâ€Ion Transference Number. Advanced Functional Materials, 2020, 30, 1910813.	14.9	86
75	Photoluminescence of boron nitride nanosheets exfoliated by ball milling. Applied Physics Letters, 2012, 100, .	3.3	84
76	High temperature and high rate lithium-ion batteries with boron nitride nanotubes coated polypropylene separators. Energy Storage Materials, 2019, 19, 352-359.	18.0	82
77	Magnetism of C Adatoms on BN Nanostructures: Implications for Functional Nanodevices. Journal of the American Chemical Society, 2009, 131, 1796-1801.	13.7	80
78	MoO3 nanoparticles distributed uniformly in carbon matrix for supercapacitor applications. Materials Letters, 2012, 66, 102-105.	2.6	80
79	Self-assembly of core-satellite gold nanoparticles for colorimetric detection of copper ions. Analytica Chimica Acta, 2013, 803, 128-134.	5.4	80
80	Ex situ electrochemical sodiation/desodiation observation of Co₃O₄anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. Nanoscale, 2015, 7, 13088-13095.	5.6	80
81	Single layer lead iodide: computational exploration of structural, electronic and optical properties, strain induced band modulation and the role of spinâ€“orbital-coupling. Nanoscale, 2015, 7, 15168-15174.	5.6	80
82	Superior adsorption of pharmaceutical molecules by highly porous BN nanosheets. Physical Chemistry Chemical Physics, 2016, 18, 84-88.	2.8	80
83	Decoration of nitrogen vacancies by oxygen atoms in boron nitride nanotubes. Physical Chemistry Chemical Physics, 2010, 12, 15349.	2.8	79
84	In Situ Formation of BN Nanotubes during Nitriding Reactions. Chemistry of Materials, 2005, 17, 5172-5176.	6.7	78
85	Boron nitride nanosheets reinforced waterborne polyurethane coatings for improving corrosion resistance and antifriction properties. European Polymer Journal, 2018, 104, 57-63.	5.4	78
86	Bulk Hexagonal Boron Nitride with a Quasiâ€Isotropic Thermal Conductivity. Advanced Functional Materials, 2018, 28, 1707556.	14.9	78
87	First-principles investigation of L10-disorder phase equilibria of Feâ€“Ni, â€“Pd, and â€“Pt binary alloy systems. Journal of Alloys and Compounds, 2004, 383, 23-31.	5.5	77
88	A vein-like nanoporous network of Nb2O5 with a higher lithium intercalation discharge cut-off voltage. Journal of Materials Chemistry A, 2013, 1, 11019.	10.3	77
89	Dispersion of boron nitride nanotubes in aqueous solution with the help of ionic surfactants. Solid State Communications, 2009, 149, 763-766.	1.9	75
90	Large-scale synthesis of hexagonal corundum-type In2O3 by ball milling with enhanced lithium storage capabilities. Journal of Materials Chemistry A, 2013, 1, 5274.	10.3	75

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91	Euâ€doped Boron Nitride Nanotubes as a Nanometerâ€Sized Visibleâ€Light Source. Advanced Materials, 2007, 19, 1845-1848.	21.0	74
92	Controlled surface modification of boron nitride nanotubes. Nanotechnology, 2011, 22, 245301.	2.6	74
93	Controlling Wettability of Boron Nitride Nanotube Films and Improved Cell Proliferation. Journal of Physical Chemistry C, 2012, 116, 18334-18339.	3.1	73
94	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surfaceâ€Enhanced Raman Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 8405-8409.	13.8	73
95	A Review of Advanced Flexible Lithiumâ€ion Batteries. Advanced Materials Technologies, 2018, 3, 1700375.	5.8	73
96	Demonstration of the advantages of using bamboo-like nanotubes for electrochemical biosensor applications compared with single walled carbon nanotubes. Electrochemistry Communications, 2005, 7, 1457-1462.	4.7	72
97	Boron nitride nanotubes reinforced aluminum composites prepared by spark plasma sintering: Microstructure, mechanical properties and deformation behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 574, 149-156.	5.6	72
98	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 3543-3550.	8.0	72
99	A model for the growth of bamboo and skeletal nanotubes: catalytic capillarity. Journal of Crystal Growth, 2002, 240, 164-169.	1.5	67
100	Enhanced lithium storage in ZnFe2O4â€“C nanocomposite produced by a low-energy ball milling. Journal of Power Sources, 2015, 282, 462-470.	7.8	67
101	Nanotube growth by surface diffusion. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 263, 401-405.	2.1	65
102	Anticorrosive and UV-blocking waterborne polyurethane composite coating containing novel two-dimensional Ti3C2 MXene nanosheets. Journal of Materials Science, 2021, 56, 4212-4224.	3.7	65
103	Influence of milling temperature and atmosphere on the synthesis of iron nitrides by ball milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 206, 24-29.	5.6	64
104	Enhanced electrochemical performance of ZrO2 modified LiNi0.6Co0.2Mn0.2O2 cathode material for lithium ion batteries. Ceramics International, 2017, 43, 15173-15178.	4.8	64
105	Size and Composition Effects in Sb-Carbon Nanocomposites for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 30152-30164.	8.0	63
106	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.	10.3	62
107	Boron nitride nanotube films grown from boron ink painting. Journal of Materials Chemistry, 2010, 20, 9679.	6.7	61
108	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 7761-7766.	2.8	61

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109	Synthesis of boron nitride nanotubes by boron ink annealing. Nanotechnology, 2010, 21, 105601.	2.6	59
110	Nanofluidic electric generators constructed from boron nitride nanosheet membranes. Nano Energy, 2018, 47, 368-373.	16.0	57
111	Highâ€Quality Boron Nitride Nanoribbons: Unzipping during Nanotube Synthesis. Angewandte Chemie - International Edition, 2013, 52, 4212-4216.	13.8	56
112	Tuning active sites on cobalt/nitrogen doped graphene for electrocatalytic hydrogen and oxygen evolution. Electrochimica Acta, 2018, 265, 497-506.	5.2	56
113	Purification of boron nitride nanotubes. Chemical Physics Letters, 2006, 425, 315-319.	2.6	55
114	Advanced N-doped mesoporous molybdenum disulfide nanosheets and the enhanced lithium-ion storage performance. Journal of Materials Chemistry A, 2016, 4, 1440-1445.	10.3	55
115	Highly efficient oxygen evolution from CoS₂/CNT nanocomposites via a one-step electrochemical deposition and dissolution method. Nanoscale, 2017, 9, 6886-6894.	5.6	55
116	All-solid-state high-energy planar asymmetric supercapacitors based on all-in-one monolithic film using boron nitride nanosheets as separator. Energy Storage Materials, 2018, 10, 24-31.	18.0	55
117	Enhanced lithium storage in Fe2O3â€“SnO2â€“C nanocomposite anode with a breathable structure. Nanoscale, 2013, 5, 4910.	5.6	54
118	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. ACS Applied Materials & Interfaces, 2016, 8, 15630-15636.	8.0	54
119	An Ultra-Long-Life Flexible Lithiumâ€“Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. ACS Nano, 2021, 15, 1358-1369.	14.6	53
120	A Novel Approach for Real Mass Transformation from V₂O₅ Particles to Nanorods. Crystal Growth and Design, 2008, 8, 3661-3665.	3.0	52
121	Fluorination-induced magnetism in boron nitride nanotubes from ab initio calculations. Applied Physics Letters, 2008, 92, 102515.	3.3	52
122	Gas Protection of Two-Dimensional Nanomaterials from High-Energy Impacts. Scientific Reports, 2016, 6, 35532.	3.3	52
123	Challenges and solutions in surface engineering and assembly of boron nitride nanosheets. Materials Today, 2021, 44, 194-210.	14.2	52
124	Isotopically Enriched10BN Nanotubes. Advanced Materials, 2006, 18, 2157-2160.	21.0	51
125	Over 1.0mm-long boron nitride nanotubes. Chemical Physics Letters, 2008, 463, 130-133.	2.6	51
126	One-dimensional nanomaterials synthesized using high-energy ball milling and annealing process. Science and Technology of Advanced Materials, 2006, 7, 839-846.	6.1	50

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127	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. Optical Materials, 2007, 29, 1295-1298.	3.6	50
128	Ilmenite FeTiO₃ Nanoflowers and Their Pseudocapacitance. Journal of Physical Chemistry C, 2011, 115, 17297-17302.	3.1	50
129	Maricite NaFePO₄/C/graphene: a novel hybrid cathode for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 16616-16621.	10.3	50
130	Mechanically activated catalyst mixing for high-yield boron nitride nanotube growth. Nanoscale Research Letters, 2012, 7, 417.	5.7	49
131	Antimony-carbon nanocomposites for potassium-ion batteries: Insight into the failure mechanism in electrodes and possible avenues to improve cyclic stability. Journal of Power Sources, 2019, 413, 476-484.	7.8	49
132	Carbon nanotubes formed in graphite after mechanical grinding and thermal annealing. Applied Physics A: Materials Science and Processing, 2003, 76, 633-636.	2.3	48
133	Electrochemical capacitance of mesoporous tungsten oxynitride in aqueous electrolytes. Journal of Power Sources, 2012, 220, 298-305.	7.8	48
134	The nucleation and growth of carbon nanotubes in a mechano-thermal process. Carbon, 2004, 42, 1543-1548.	10.3	47
135	Insight into reactions and interface between boron nitride nanotube and aluminum. Journal of Materials Research, 2012, 27, 2760-2770.	2.6	47
136	Moleculeâ€Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. Advanced Functional Materials, 2016, 26, 8202-8210.	14.9	47
137	Reactive ball milling to produce nanocrystalline ZnO. Materials Letters, 2008, 62, 4047-4049.	2.6	46
138	Boron nitride nanotube reinforced polyurethane composites. Progress in Natural Science: Materials International, 2013, 23, 170-173.	4.4	46
139	Lithium ferrite (Li_{0.5}Fe_{2.5}O₄) nanoparticles as anodes for lithium ion batteries. RSC Advances, 2014, 4, 23145-23148.	3.6	46
140	First-principles study for ordering and phase separation in the Fe-Pd system. Journal of Physics Condensed Matter, 2002, 14, 1903-1913.	1.8	45
141	One-step template-free synthesis of 3D functionalized flower-like boron nitride nanosheets for NH₃ and CO₂ adsorption. Nanoscale, 2018, 10, 10979-10985.	5.6	45
142	Single deep ultraviolet light emission from boron nitride nanotube film. Applied Physics Letters, 2010, 97, .	3.3	44
143	Pure boron nitride nanowires produced from boron triiodide. Nanotechnology, 2006, 17, 786-789.	2.6	42
144	Humidity sensing properties of single Au-decorated boron nitride nanotubes. Electrochemistry Communications, 2013, 30, 29-33.	4.7	40

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145	Selective Oxidation Synthesis of MnCr₂O₄ Spinel Nanowires from Commercial Stainless Steel Foil. Crystal Growth and Design, 2007, 7, 2279-2281.	3.0	39
146	Formation of defects in boron nitride by low energy ion bombardment. Journal of Applied Physics, 2009, 106, .	2.5	39
147	Growth of V2O5 nanorods from ball-milled powders and their performance in cathodes and anodes of lithium-ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1841-1846.	2.5	39
148	Hydrangea-like multi-scale carbon hollow submicron spheres with hierarchical pores for high performance supercapacitor electrodes. Electrochimica Acta, 2015, 176, 207-214.	5.2	39
149	High N-content holey few-layered graphene electrocatalysts: scalable solvent-less production. Journal of Materials Chemistry A, 2015, 3, 1682-1687.	10.3	39
150	Boron Radicals Identified as the Source of the Unexpected Catalysis by Boron Nitride Nanosheets. ACS Nano, 2019, 13, 1394-1402.	14.6	39
151	Increased dissolution of ilmenite induced by high-energy ball milling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 271, 485-490.	5.6	38
152	Conical Boron Nitride Nanorods Synthesized Via the Ball-Milling and Annealing Method. Journal of the American Ceramic Society, 2006, 89, 675-679.	3.8	38
153	Efficient production of ZnO nanowires by a ball milling and annealing method. Nanotechnology, 2007, 18, 175604.	2.6	38
154	Advances in synthesis and applications of boron nitride nanotubes: A review. Chemical Engineering Journal, 2022, 431, 134118.	12.7	38
155	Synthesis of boron nitride nanotubes, bamboos and nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2513-2516.	2.7	37
156	Titanium Dioxide Nanotube Films for Electrochemical Supercapacitors: Biocompatibility and Operation in an Electrolyte Based on a Physiological Fluid. Journal of the Electrochemical Society, 2015, 162, A5065-A5069.	2.9	37
157	Understanding Structureâ€“Function Relationship in Hybrid Co₃O₄â€“Fe₂O₃/C Lithium-Ion Battery Electrodes. ACS Applied Materials & Interfaces, 2015, 7, 20736-20744.	8.0	37
158	Three-Dimensional Functionalized Boron Nitride Nanosheets/ZnO Superstructures for CO₂ Capture. ACS Applied Materials & Interfaces, 2019, 11, 10276-10282.	8.0	37
159	Controlled growth of zinc nanowires. Materials Letters, 2007, 61, 144-147.	2.6	36
160	Divacancy-assisted transition metal adsorption on the BN graphene and its interaction with hydrogen molecules: a theoretical study. Applied Surface Science, 2013, 273, 293-301.	6.1	36
161	Bimetallic molybdenum tungsten oxynitride: structure and electrochemical properties. Journal of Materials Chemistry A, 2013, 1, 7889.	10.3	36
162	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. Polymer, 2014, 55, 5616-5622.	3.8	36

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163	Low-temperature oxidation of ilmenite (FeTiO3) induced by high energy ball milling at room temperature. Journal of Alloys and Compounds, 1997, 257, 156-160.	5.5	35
164	Nanotube growth during annealing of mechanically milled Boron. Applied Physics A: Materials Science and Processing, 2003, 76, 107-110.	2.3	35
165	Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. Advanced Engineering Materials, 2018, 20, 1700488.	3.5	35
166	Dumbbellâ€Shaped Biâ€component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. Angewandte Chemie, 2017, 129, 8579-8583.	2.0	34
167	Hierarchical Porous Yolkâ€“Shell Carbon Nanosphere for Highâ€Performance Lithiumâ€“Sulfur Batteries. Particle and Particle Systems Characterization, 2017, 34, 1600281.	2.3	34
168	A Selfâ€Healing Amalgam Interface in Metal Batteries. Advanced Materials, 2020, 32, e2004798.	21.0	34
169	An effective approach to grow boron nitride nanowires directly on stainless-steel substrates. Nanotechnology, 2006, 17, 2942-2946.	2.6	32
170	Inquisition of Microcystis aeruginosa and Synechocystis nanowires: characterization and modelling. Antonie Van Leeuwenhoek, 2015, 108, 1213-1225.	1.7	32
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