

# Zongwen Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5474888/publications.pdf>

Version: 2024-02-01

170  
papers

11,410  
citations

30070

54  
h-index

30922

102  
g-index

174  
all docs

174  
docs citations

174  
times ranked

16982  
citing authors

#	ARTICLE	IF	CITATIONS
1	PdSe <sub>2</sub> /MoSe <sub>2</sub> vertical heterojunction for self-powered photodetector with high performance. Nano Research, 2022, 15, 2489-2496.	10.4	44
2	Observation of double indirect interlayer exciton in MoSe <sub>2</sub> /WSe <sub>2</sub> heterostructure. Nano Research, 2022, 15, 2661-2666.	10.4	17
3	Enhanced interlayer neutral excitons and trions in MoSe <sub>2</sub> /MoS <sub>2</sub> /MoSe <sub>2</sub> trilayer heterostructure. Nano Research, 2022, 15, 5640-5645.	10.4	11
4	Evidence for moiré intralayer excitons in twisted WSe <sub>2</sub> /WSe <sub>2</sub> homobilayer superlattices. Light: Science and Applications, 2022, 11, .	16.6	29
5	Dynamic control of moiré potential in twisted WS <sub>2</sub> /WSe <sub>2</sub> heterostructures. Nano Research, 2022, 15, 7688-7694.	10.4	11
6	Observation of interlayer excitons in trilayer type-II transition metal dichalcogenide heterostructures. Nano Research, 2022, 15, 9588-9594.	10.4	5
7	One-Dimensional van der Waals Heterostructures as Efficient Metal-Free Oxygen Electrocatalysts. ACS Nano, 2021, 15, 3309-3319.	14.6	79
8	Moiré superlattices and related moiré excitons in twisted van der Waals heterostructures. Chemical Society Reviews, 2021, 50, 6401-6422.	38.1	38
9	Giant nonlinear optical activity in two-dimensional palladium diselenide. Nature Communications, 2021, 12, 1083.	12.8	76
10	Enhanced hydrogen storage of alanates: Recent progress and future perspectives. Progress in Natural Science: Materials International, 2021, 31, 165-179.	4.4	33
11	Hydrogen Production via Hydrolysis and Alcoholysis of Light Metal-Based Materials: A Review. Nano-Micro Letters, 2021, 13, 134.	27.0	62
12	FLIM as a Promising Tool for Cancer Diagnosis and Treatment Monitoring. Nano-Micro Letters, 2021, 13, 133.	27.0	35
13	Nanostructured AlCoCrCu <sub>0.5</sub> FeNi high entropy oxide (HEO) thin films fabricated using reactive magnetron sputtering. Applied Surface Science, 2021, 553, 149491.	6.1	17
14	Atomic-scale regulation of anionic and cationic migration in alkali metal batteries. Nature Communications, 2021, 12, 4184.	12.8	57
15	Direct observation of enhanced performance in suspended ReS <sub>2</sub> photodetectors. Optics Express, 2021, 29, 3567.	3.4	10
16	Co-Fe-Cr (oxy)Hydroxides as Efficient Oxygen Evolution Reaction Catalysts. Advanced Energy Materials, 2021, 11, 2003412.	19.5	94
17	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. Angewandte Chemie - International Edition, 2020, 59, 4793-4799.	13.8	217
18	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. Angewandte Chemie, 2020, 132, 4823-4829.	2.0	57

#	ARTICLE	IF	CITATIONS
19	A phosphorus and carbon composite containing nanocrystalline Sb as a stable and high-capacity anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 443-452.	10.3	29
20	Observation of split defect-bound excitons in twisted WSe <sub>2</sub> /WSe <sub>2</sub> homostructure. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	18
21	High entropy nitride (HEN) thin films of AlCoCrCu <sub>0.5</sub> FeNi deposited by reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2020, 402, 126327.	4.8	34
22	RF magnetron sputtered AlCoCrCu <sub>0.5</sub> FeNi high entropy alloy (HEA) thin films with tuned microstructure and chemical composition. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155348.	5.5	45
23	Strain engineering of two-dimensional multilayered heterostructures for beyond-lithium-based rechargeable batteries. <i>Nature Communications</i> , 2020, 11, 3297.	12.8	134
24	Acidity enhancement through synergy of penta- and tetra-coordinated aluminum species in amorphous silica networks. <i>Nature Communications</i> , 2020, 11, 225.	12.8	40
25	Direct Observation of the Linear Dichroism Transition in Two-Dimensional Palladium Diselenide. <i>Nano Letters</i> , 2020, 20, 1172-1182.	9.1	61
26	High-performance polarization-sensitive photodetector based on a few-layered PdSe <sub>2</sub> nanosheet. <i>Nano Research</i> , 2020, 13, 1780-1786.	10.4	60
27	Spintronics in Two-Dimensional Materials. <i>Nano-Micro Letters</i> , 2020, 12, 93.	27.0	78
28	Dynamic Control of High-Range Photoresponsivity in a Graphene Nanoribbon Photodetector. <i>Nanoscale Research Letters</i> , 2020, 15, 124.	5.7	13
29	Observation of double indirect interlayer exciton in WSe <sub>2</sub> /WS <sub>2</sub> heterostructure. <i>Optics Express</i> , 2020, 28, 13260.	3.4	32
30	Valley-polarized local excitons in WSe <sub>2</sub> /WS <sub>2</sub> vertical heterostructures. <i>Optics Express</i> , 2020, 28, 22135.	3.4	18
31	Valleytronics in transition metal dichalcogenides materials. <i>Nano Research</i> , 2019, 12, 2695-2711.	10.4	155
32	High entropy alloy thin films of AlCoCrCu <sub>0.5</sub> FeNi with controlled microstructure. <i>Applied Surface Science</i> , 2019, 495, 143560.	6.1	69
33	The Comparative Effect of Particle Size and Support Acidity on Hydrogenation of Aromatic Ketones. <i>ChemCatChem</i> , 2019, 11, 4810-4817.	3.7	21
34	Dislocations and Te precipitates of Cd <sub>0.9</sub> Mn <sub>0.1</sub> Te: V crystal grown by Tellurium solution vertical Bridgman method. <i>Journal of Crystal Growth</i> , 2019, 513, 43-47.	1.5	6
35	Synthesis of bismuth selenide nanoplates by solvothermal methods and its stacking optical properties. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	13
36	A novel Al BiOCl composite for hydrogen generation from water. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6655-6662.	7.1	32

#	ARTICLE	IF	CITATIONS
37	Recent Progress in the Fabrication, Properties, and Devices of Heterostructures Based on 2D Materials. <i>Nano-Micro Letters</i> , 2019, 11, 13.	27.0	157
38	Effect of the low-resistance tunnel barriers induced inhomogeneous spin current distribution in graphene crossed configuration lateral spin valve. <i>AIP Advances</i> , 2019, 9, 115005.	1.3	3
39	Improved hydrogen storage of LiBH <sub>4</sub> and NH <sub>3</sub> BH <sub>3</sub> by catalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7293-7309.	10.3	49
40	Selective loading of 5-fluorouracil in the interlayer space of methoxy-modified kaolinite for controlled release. <i>Applied Clay Science</i> , 2018, 159, 102-106.	5.2	58
41	Poly (vinylidene fluoride)/polyaniline/MWCNT nanocomposite ultrafiltration membrane for natural organic matter removal. <i>Separation and Purification Technology</i> , 2018, 190, 143-155.	7.9	74
42	Confinement Impact for the Dynamics of Supported Metal Nanocatalyst. <i>Small</i> , 2018, 14, 1801586.	10.0	4
43	Effective natural organic matter removal in pond water by carbon nanotube membrane with flocculation/adsorption. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 1080-1087.	2.1	2
44	Tuning the Synthesis of Manganese Oxides Nanoparticles for Efficient Oxidation of Benzyl Alcohol. <i>Nanoscale Research Letters</i> , 2017, 12, 23.	5.7	24
45	Automated process synthesis for optimal flowsheet design of a hybrid membrane cryogenic carbon capture process. <i>Journal of Cleaner Production</i> , 2017, 150, 309-323.	9.3	31
46	Direct Observation of High Photoresponsivity in Pure Graphene Photodetectors. <i>Nanoscale Research Letters</i> , 2017, 12, 93.	5.7	29
47	Atomic-scale investigation of a new phase transformation process in TiO <sub>2</sub> nanofibers. <i>Nanoscale</i> , 2017, 9, 4601-4609.	5.6	22
48	Observation of Anomalous Resistance Behavior in Bilayer Graphene. <i>Nanoscale Research Letters</i> , 2017, 12, 48.	5.7	8
49	Effects of microstructure of clay minerals, montmorillonite, kaolinite and halloysite, on their benzene adsorption behaviors. <i>Applied Clay Science</i> , 2017, 143, 184-191.	5.2	146
50	A new genetic algorithm based on prenatal genetic screening (PGS-GA) and its application in an automated process flowsheet synthesis problem for a membrane based carbon capture case-study. <i>Chemical Engineering Research and Design</i> , 2017, 128, 265-289.	5.6	2
51	Amorphous Bimetallic Oxide-Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , 2017, 29, 1701410.	21.0	243
52	Protein fouling in carbon nanotubes enhanced ultrafiltration membrane: Fouling mechanism as a function of pH and ionic strength. <i>Separation and Purification Technology</i> , 2017, 176, 323-334.	7.9	56
53	Laser cladding Al-based amorphous-nanocrystalline composite coatings on AZ80 magnesium alloy under water cooling condition. <i>Journal of Alloys and Compounds</i> , 2017, 690, 108-115.	5.5	94
54	Vanadium doped Cd <sub>0.9</sub> Mn <sub>0.1</sub> Te crystal and its optical and electronic properties. <i>Journal of Crystal Growth</i> , 2017, 459, 124-128.	1.5	13

#	ARTICLE	IF	CITATIONS
55	Fe <sub>3</sub> O <sub>4</sub> /rice husk-based macro-/mesoporous carbon bone nanocomposite as superior high-rate anode for lithium ion battery. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 27-34.	2.5	13
56	Hydrolysis and regeneration of sodium borohydride (NaBH <sub>4</sub> ) – A combination of hydrogen production and storage. <i>Journal of Power Sources</i> , 2017, 359, 400-407.	7.8	173
57	Automated process flowsheet synthesis for membrane processes using genetic algorithm: role of crossover operators. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1201-1206.	0.5	5
58	The crystallography of C-centred monoclinic to body-centred tetragonal polymorphic phase transformation in mixed-phase TiO <sub>2</sub> (B) and anatase nanocomposite. <i>Scripta Materialia</i> , 2016, 119, 27-32.	5.2	11
59	Enhancement of diatomite solid acidity by Al incorporation, as evaluated by the catalytic effects on the thermal decomposition of 12-aminolauric acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 190-194.	4.7	2
60	Cyclic Performance of Waste-Derived SiO <sub>2</sub> Stabilized, CaO-Based Sorbents for Fast CO <sub>2</sub> Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 7004-7012.	6.7	35
61	Modelling and sequential simulation of multi-tubular metallic membrane and techno-economics of a hydrogen production process employing thin-layer membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19081-19097.	7.1	16
62	In situ observation and investigation on the formation mechanism of nanocavities in TiO <sub>2</sub> nanofibers. <i>CrystEngComm</i> , 2016, 18, 7772-7779.	2.6	3
63	A Green and Facile Synthesis of Ordered Mesoporous Nanosilica Using Coal Fly Ash. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4654-4661.	6.7	75
64	LiMn <sub>2</sub> O <sub>4</sub> cathode materials with large porous structure and radial interior channels for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 212, 553-560.	5.2	38
65	Formation of mesopores inside platinum nanospheres by using double hydrophilic block copolymers. <i>Materials Letters</i> , 2016, 182, 190-193.	2.6	5
66	Progress and challenges of carbon nanotube membrane in water treatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 999-1046.	12.8	70
67	Performance evaluation of carbon nanotube enhanced membranes for SWRO pretreatment application. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 38, 123-131.	5.8	3
68	Fabrication and characterization of in-situ duplex plasma-treated nanocrystalline Ti/AlTiN coatings. <i>Ceramics International</i> , 2016, 42, 10793-10800.	4.8	37
69	Synthesis of Mesoporous Transition-Metal Phosphates by Polymeric Micelle Assembly. <i>Chemistry - A European Journal</i> , 2016, 22, 7463-7467.	3.3	17
70	Facet-Controlling Agents Free Synthesis of Hematite Crystals with High-Index Planes: Excellent Photodegradation Performance and Mechanism Insight. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 142-151.	8.0	37
71	Single crystal forms induced diverse interface structures in TiO <sub>2</sub> (B)/anatase dual-phase nanocomposites. <i>CrystEngComm</i> , 2016, 18, 2089-2097.	2.6	11
72	High flux and high selectivity carbon nanotube composite membranes for natural organic matter removal. <i>Separation and Purification Technology</i> , 2016, 163, 109-119.	7.9	69

#	ARTICLE	IF	CITATIONS
73	Tailoring High-Performance Pd Catalysts for Chemoselective Hydrogenation Reactions via Optimizing the Parameters of the Double-Flame Spray Pyrolysis. <i>ACS Catalysis</i> , 2016, 6, 2372-2381.	11.2	35
74	Synergistic Effect for LiMn <sub>2</sub> O <sub>4</sub> Microcubes with Enhanced Rate Capability and Excellent Cycle Stability for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A197-A202.	2.9	20
75	Nano-confined multi-synthesis of a Li <sup>+</sup> /Mg <sup>2+</sup> /H <sup>+</sup> nanocomposite towards low-temperature hydrogen storage with stable reversibility. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12646-12652.	10.3	25
76	Photocatalytic degradation of phenol in water on as-prepared and surface modified TiO <sub>2</sub> nanoparticles. <i>Catalysis Today</i> , 2015, 258, 96-102.	4.4	67
77	Raman scattering study on Sb spray InAs/GaAs quantum dot nanostructure systems. <i>Nanoscale Research Letters</i> , 2015, 10, 202.	5.7	4
78	Influence of non-hydrolyzable groups in silane precursor on pore dimension and photochromic properties of sol-gel silica embedded with a spirooxazine dye. <i>Fibers and Polymers</i> , 2015, 16, 2318-2324.	2.1	5
79	Mesoporous TiO <sub>2</sub> /Zn <sub>2</sub> Ti <sub>3</sub> O <sub>8</sub> hybrid films synthesized by polymeric micelle assembly. <i>Chemical Communications</i> , 2015, 51, 14582-14585.	4.1	14
80	Analysis of the Promoted Activity and Molecular Mechanism of Hydrogen Production over Fine Au <sup>+</sup> /Pt Alloyed TiO <sub>2</sub> Photocatalysts. <i>ACS Catalysis</i> , 2015, 5, 3924-3931.	11.2	110
81	Influence of support acidity on the performance of size-confined Pt nanoparticles in the chemoselective hydrogenation of acetophenone. <i>Catalysis Science and Technology</i> , 2015, 5, 2788-2797.	4.1	30
82	Ag-Cu nanoalloyed film as a high-performance cathode electrocatalytic material for zinc-air battery. <i>Nanoscale Research Letters</i> , 2015, 10, 197.	5.7	26
83	Enhancement of the catalytic performance of a CNT supported Pt nanorod cluster catalyst by controlling their microstructure. <i>RSC Advances</i> , 2015, 5, 80176-80183.	3.6	3
84	In-situ synthesis of Ag nanoparticles by electron beam irradiation. <i>Materials Characterization</i> , 2015, 110, 1-4.	4.4	15
85	A dual soft-template synthesis of hollow mesoporous silica spheres decorated with Pt nanoparticles as a CO oxidation catalyst. <i>RSC Advances</i> , 2015, 5, 97928-97933.	3.6	11
86	Interpretation of the vacancy-ordering controlled growth morphology of Hg <sub>5</sub> In <sub>2</sub> Te <sub>8</sub> precipitates in Hg <sub>3</sub> In <sub>2</sub> Te <sub>6</sub> single crystals by TEM observation and crystallographic calculation. <i>Journal of Alloys and Compounds</i> , 2015, 622, 206-212.	5.5	8
87	Atomic Mechanism of Predictable Phase Transition in Dual-Phase H <sub>2</sub> /Ti <sub>3</sub> O <sub>7</sub> /TiO <sub>2</sub> (B) Nanofiber: An In Situ Heating TEM Investigation. <i>Chemistry - A European Journal</i> , 2014, 20, 11313-11317.	3.3	16
88	Predictable and controllable dual-phase interfaces in TiO <sub>2</sub> (B)/anatase nanofibers. <i>Nanoscale</i> , 2014, 6, 14237-14243.	5.6	17
89	Synthesis and characterization of L <sub>1</sub> -ordered silver-copper alloy nanodendrites. <i>Materials Research Express</i> , 2014, 1, 015031.	1.6	6
90	Role of carbon coating in improving electrochemical performance of Li-rich Li(Li <sub>0.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> )O <sub>2</sub> cathode. <i>RSC Advances</i> , 2014, 4, 44244-44252.	3.6	48

#	ARTICLE	IF	CITATIONS
91	Advances in Sustain Stable Voltage of Cr-Doped Li-Rich Layered Cathodes for Lithium Ion Batteries. Journal of the Electrochemical Society, 2014, 161, A1723-A1730.	2.9	79
92	The effect of fast annealing treatment on the interface structure and electrical properties of Au/Hg <sub>3</sub> In <sub>2</sub> Te <sub>6</sub> contact. Journal of Materials Science, 2014, 49, 6160-6166.	3.7	5
93	Suppression of dislocations by Sb spray in the vicinity of InAs/GaAs quantum dots. Nanoscale Research Letters, 2014, 9, 278.	5.7	7
94	On the morphology and crystallography of Hg <sub>5</sub> In <sub>2</sub> Te <sub>8</sub> precipitation in Hg <sub>3</sub> In <sub>2</sub> Te <sub>6</sub> . Journal of Alloys and Compounds, 2014, 601, 298-306.	5.5	8
95	Oxygen-doped boron nitride nanosheets with excellent performance in hydrogen storage. Nano Energy, 2014, 6, 219-224.	16.0	210
96	Hierarchical Porous Li <sub>2</sub> Mg(NH) <sub>2</sub> @C Nanowires with Long Cycle Life Towards Stable Hydrogen Storage. Scientific Reports, 2014, 4, 6599.	3.3	16
97	Graphene-based surface modification on layered Li-rich cathode for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 9954.	10.3	163
98	TiO <sub>2</sub> nanoparticles on nitrogen-doped graphene as anode material for lithium ion batteries. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	32
99	Temperature dependence of the electrical transport properties in few-layer graphene interconnects. Nanoscale Research Letters, 2013, 8, 335.	5.7	108
100	High rate capability caused by surface cubic spinels in Li-rich layer-structured cathodes for Li-ion batteries. Scientific Reports, 2013, 3, 3094.	3.3	192
101	One-Step Room-Temperature Synthesis of [Al]MCM-41 Materials for the Catalytic Conversion of Phenylglyoxal to Ethylmandelate. ChemCatChem, 2013, 5, 3889-3896.	3.7	35
102	Stabilization of NaZn(BH <sub>4</sub> ) <sub>3</sub> via nanoconfinement in SBA-15 towards enhanced hydrogen release. Journal of Materials Chemistry A, 2013, 1, 250-257.	10.3	34
103	Large scale boron carbon nitride nanosheets with enhanced lithium storage capabilities. Chemical Communications, 2013, 49, 352-354.	4.1	110
104	Optical and magnetic properties of Cu-doped 13-atom Ag nanoclusters. Journal of Alloys and Compounds, 2013, 565, 50-55.	5.5	46
105	Nanoconfinement significantly improves the thermodynamics and kinetics of co-infiltrated 2LiBH <sub>4</sub> -LiAlH <sub>4</sub> composites: Stable reversibility of hydrogen absorption/resorption. Acta Materialia, 2013, 61, 6882-6893.	7.9	30
106	Large-scale synthesis of hexagonal corundum-type In <sub>2</sub> O <sub>3</sub> by ball milling with enhanced lithium storage capabilities. Journal of Materials Chemistry A, 2013, 1, 5274.	10.3	75
107	From platy kaolinite to aluminosilicate nanoroll via one-step delamination of kaolinite: Effect of the temperature of intercalation. Applied Clay Science, 2013, 83-84, 68-76.	5.2	116
108	Carbon-Coated Li <sub>3</sub> N Nanofibers for Advanced Hydrogen Storage. Advanced Materials, 2013, 25, 6238-6244.	21.0	66



#	ARTICLE	IF	CITATIONS
109	EFFECT OF THE THICKNESS OF PAN/Au MODIFIED ELECTRODE ON BIOSENSOR SENSITIVITY. Functional Materials Letters, 2012, 05, 1250035.	1.2	0
110	Structural evolution and the capacity fade mechanism upon long-term cycling in Li-rich cathode material. Physical Chemistry Chemical Physics, 2012, 14, 12875.	2.8	197
111	First principles study of 3d transition metal doped $\text{ZnO}$ . Journal of Magnetism and Magnetic Materials, 2012, 324, 3138-3143.	2.8	10
112	Heterogeneous nucleation of $\beta$ -type precipitates on nanoscale Zr-rich particles in a Mg-6Zn-0.5Cu-0.6Zr alloy. Nanoscale Research Letters, 2012, 7, 300.	5.7	8
113	Organosilane functionalization of halloysite nanotubes for enhanced loading and controlled release. Nanotechnology, 2012, 23, 375705.	2.6	123
114	Hydrogen-induced decomposition of Zr-rich cores in an Mg $_{60}$ Zn $_{30}$ Zr $_{10}$ Cu $_{10}$ alloy. Acta Materialia, 2012, 60, 5615-5625.	7.9	26
115	Effects of crystallization and dopant concentration on the emission behavior of TiO $_2$ :Eu nanophosphors. Nanoscale Research Letters, 2012, 7, 1.	5.7	1,685
116	Structural characterization and high-temperature compressive creep of PTFE-based composites filled with inorganic nanoparticles. Polymers for Advanced Technologies, 2012, 23, 545-550.	3.2	11
117	Hollow nitrogen-containing core/shell fibrous carbon nanomaterials as support to platinum nanocatalysts and their TEM tomography study. Nanoscale Research Letters, 2012, 7, 165.	5.7	26
118	Self-Assembly of Gold Nanowires along Carbon Nanotubes for Ultrahigh-Aspect-Ratio Hybrids. Chemistry of Materials, 2011, 23, 2760-2765.	6.7	20
119	Ilmenite FeTiO $_3$ Nanoflowers and Their Pseudocapacitance. Journal of Physical Chemistry C, 2011, 115, 17297-17302.	3.1	50
120	Microstructure and mechanical properties of Mg $_{60}$ Zn $_{30}$ Cu $_{10}$ Zr $_{10}$ (wt.%) alloys. Journal of Alloys and Compounds, 2011, 509, 3526-3531.	5.5	48
121	Graphene-V $_2$ O $_5$ -nH $_2$ O xerogel composite cathodes for lithium ion batteries. RSC Advances, 2011, 1, 690.	3.6	84
122	Electro-synthesis of novel nanostructured PEDOT films and their application as catalyst support. Nanoscale Research Letters, 2011, 6, 364.	5.7	35
123	Flame synthesis of carbon nanostructures on Ni-plated hardmetal substrates. Nanoscale Research Letters, 2011, 6, 331.	5.7	11
124	Recent advances in synthesis, physical properties and applications of conducting polymer nanotubes and nanofibers. Progress in Polymer Science, 2011, 36, 1415-1442.	24.7	763
125	Electrical Conductivity Studies on Individual Conjugated Polymer Nanowires: Two-Probe and Four-Probe Results. Nanoscale Research Letters, 2010, 5, 237-42.	5.7	50
126	Direct synthesis and strong cathodoluminescence of Al $_2$ O $_3$ nanotubes. Materials Chemistry and Physics, 2010, 120, 240-243.	4.0	2



#	ARTICLE	IF	CITATIONS
127	Thermo-analysis of nanocrystalline TiO <sub>2</sub> ceramics during the whole sintering process using differential scanning calorimetry. <i>Ceramics International</i> , 2010, 36, 827-829.	4.8	10
128	Visualizing Plasmon Coupling in Closely Spaced Chains of Ag Nanoparticles by Electron Energy-Loss Spectroscopy. <i>Small</i> , 2010, 6, 446-451.	10.0	25
129	Calibrating the atomic balance by carbon nanoclusters. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	10
130	SYNTHESIS, MECHANICAL AND ELECTRICAL PROPERTIES OF CARBON MICROCOILS AND NANOCOILS. <i>Functional Materials Letters</i> , 2010, 03, 263-267.	1.2	4
131	Electrodeposited PEDOT films on ITO with a flower-like hierarchical structure. <i>Synthetic Metals</i> , 2010, 160, 1636-1641.	3.9	45
132	Controlled synthesis and characterization of 10Ånm thick Al <sub>2</sub> O <sub>3</sub> nanowires. <i>Materials Letters</i> , 2009, 63, 1016-1018.	2.6	14
133	On the understanding of the microscopic origin of the properties of diluted magnetic semiconductors by atom probe tomography. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 935-943.	2.3	12
134	Solid phase mechanochemical synthesis of polyaniline branched nanofibers. <i>Synthetic Metals</i> , 2009, 159, 1302-1307.	3.9	42
135	Microstructural evolution of spinodally formed Fe <sub>35</sub> Ni <sub>15</sub> Mn <sub>25</sub> Al <sub>25</sub> . <i>Intermetallics</i> , 2009, 17, 886-893.	3.9	27
136	Three-dimensional electrodes for dye-sensitized solar cells: synthesis of indium-tin-oxide nanowire arrays and ITO/TiO <sub>2</sub> core-shell nanowire arrays by electrophoretic deposition. <i>Nanotechnology</i> , 2009, 20, 055601.	2.6	72
137	A combined study by XRD, FTIR, TG and HRTEM on the structure of delaminated Fe-intercalated/pillared clay. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 142-149.	9.4	167
138	Rare-earth doped boron nitride nanotubes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 146, 189-192.	3.5	10
139	Functionalization of Halloysite Clay Nanotubes by Grafting with Î³-Aminopropyltriethoxysilane. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15742-15751.	3.1	827
140	Structural, optical and magnetic properties of Co-doped ZnO nanorods with hidden secondary phases. <i>Nanotechnology</i> , 2008, 19, 455702.	2.6	96
141	Unconventional Ribbon-Shaped Î²-Ga <sub>2</sub> O <sub>3</sub> Tubes with Mobile Sn Nanowire Fillings. <i>ACS Nano</i> , 2008, 2, 107-112.	14.6	34
142	Dye-sensitized solar cells based on indium-tin oxide nanowires coated with titania layers. , 2008, , .		0
143	THE BEHAVIOR OF GALLIUM CONFINED IN CARBON NANOTUBES DURING HEATING AND COOLING. <i>Functional Materials Letters</i> , 2008, 01, 55-58.	1.2	7
144	Field-emission cascades prepared by boron nitride cluster beam deposition. <i>Journal of Vacuum Science &amp; Technology B</i> , 2008, 26, 1038.	1.3	5

#	ARTICLE	IF	CITATIONS
145	Eu-doped Boron Nitride Nanotubes as a Nanometer-Sized Visible-Light Source. <i>Advanced Materials</i> , 2007, 19, 1845-1848.	21.0	74
146	Nanobeam electron diffraction and high resolution imaging analysis of InN films grown on sapphire. <i>Microscopy Research and Technique</i> , 2007, 70, 205-210.	2.2	2
147	DLC coatings: Effects of physical and chemical properties on biological response. <i>Biomaterials</i> , 2007, 28, 1620-1628.	11.4	152
148	High-resolution TEM study of the Er distribution in Er-doped SiO <sub>2</sub> films prepared by laser ablation. <i>Physica B: Condensed Matter</i> , 2007, 394, 270-272.	2.7	0
149	Selective Oxidation Synthesis of MnCr <sub>2</sub> O <sub>4</sub> Spinel Nanowires from Commercial Stainless Steel Foil. <i>Crystal Growth and Design</i> , 2007, 7, 2279-2281.	3.0	39
150	The biocompatibility of diamond-like carbon nano films. , 2006, , .		5
151	A novel method for practical temperature measurement with carbon nanotube nanothermometers. <i>Nanotechnology</i> , 2006, 17, 3681-3684.	2.6	19
152	Fabrication of Metal-Semiconductor Nanowire Heterojunctions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2140-2144.	13.8	52
153	Single-Crystalline, Submicrometer-Sized ZnSe Tubes. <i>Advanced Materials</i> , 2005, 17, 975-979.	21.0	50
154	In Situ Formation of BN Nanotubes during Nitriding Reactions. <i>Chemistry of Materials</i> , 2005, 17, 5172-5176.	6.7	78
155	Formation of spinel from olivine. <i>Applied Physics Letters</i> , 2004, 84, 1856-1858.	3.3	2
156	Unusual Freezing and Melting of Gallium Encapsulated in Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 095504.	7.8	98
157	Synthesis of Crystalline Silicon Tubular Nanostructures with ZnS Nanowires as Removable Templates. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 63-66.	13.8	121
158	Uniform Micro-Sized $\alpha$ - and $\beta$ -Si <sub>3</sub> N <sub>4</sub> Thin Ribbons Grown by a High-Temperature Thermal-Decomposition/Nitridation Route. <i>Chemistry - A European Journal</i> , 2004, 10, 554-558.	3.3	36
159	Synthesis of Gallium-Filled Gallium Oxide-Zinc Oxide Composite Coaxial Nanotubes. <i>Advanced Materials</i> , 2003, 15, 1000-1003.	21.0	64
160	A Novel Method for Preparing Copper Nanorods and Nanowires. <i>Advanced Materials</i> , 2003, 15, 303-305.	21.0	305
161	Synthesis of tungsten oxide nanowires. <i>Chemical Physics Letters</i> , 2003, 372, 179-182.	2.6	100
162	Synthesis and structure of InP nanowires and nanotubes. <i>Chemical Physics Letters</i> , 2003, 376, 676-682.	2.6	45

#	ARTICLE	IF	CITATIONS
163	Oxidation behaviour of copper nanorods. <i>Chemical Physics Letters</i> , 2003, 378, 85-88.	2.6	32
164	HRTEM study of orthorhombic zirconia in MgO-PSZ. <i>Journal of Applied Crystallography</i> , 2003, 36, 1026-1029.	4.5	5
165	Epitaxial Heterostructures: Side-to-Side ZnS, ZnSe Biaxial Nanowires, and Sandwichlike ZnS/ZnS Triaxial Nanowires. <i>Journal of the American Chemical Society</i> , 2003, 125, 11306-11313.	13.7	124
166	Ga-filled single-crystalline MgO nanotube: Wide-temperature range nanothermometer. <i>Applied Physics Letters</i> , 2003, 83, 999-1001.	3.3	100
167	Temperature measurement using a gallium-filled carbon nanotube nanothermometer. <i>Applied Physics Letters</i> , 2003, 83, 2913-2915.	3.3	74
168	Thermal oxidation of gallium nitride nanowires. <i>Applied Physics Letters</i> , 2003, 83, 3177-3179.	3.3	21
169	Highly effective metal vapor absorbents based on carbon nanotubes. <i>Applied Physics Letters</i> , 2002, 81, 4844-4846.	3.3	36
170	Identification of various phases in HRTEM images of MgO-PSZ. <i>Journal of Electron Microscopy</i> , 2001, 50, 443-446.	0.9	7