

Huey Hoon Hng

List of Publications by Year in descending order

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237
papers

19,615
citations

9756

73
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12233

133
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248
all docs

248
docs citations

248
times ranked

22989
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured metal oxide-based materials as advanced anodes for lithium-ion batteries. <i>Nanoscale</i> , 2012, 4, 2526.	2.8	1,012
2	Formation of Fe ₂ O ₃ Microboxes with Hierarchical Shell Structures from Metal-Organic Frameworks and Their Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 17388-17391.	6.6	935
3	A Leavening Strategy to Prepare Reduced Graphene Oxide Foams. <i>Advanced Materials</i> , 2012, 24, 4144-4150.	11.1	765
4	Synthesis of porous NiO nanocrystals with controllable surface area and their application as supercapacitor electrodes. <i>Nano Research</i> , 2010, 3, 643-652.	5.8	534
5	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9052-9056.	7.2	520
6	Highly Stretchable, Integrated Supercapacitors Based on Single-Walled Carbon Nanotube Films with Continuous Reticulate Architecture. <i>Advanced Materials</i> , 2013, 25, 1058-1064.	11.1	496
7	Epitaxial Growth of Branched Fe ₂ O ₃ /SnO ₂ Nano-Heterostructures with Improved Lithium-Ion Battery Performance. <i>Advanced Functional Materials</i> , 2011, 21, 2439-2445.	7.8	439
8	Achieving high specific charge capacitances in Fe ₃ O ₄ /reduced graphene oxide nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 3422.	6.7	430
9	Hierarchical hollow spheres composed of ultrathin Fe ₂ O ₃ nanosheets for lithium storage and photocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2013, 6, 987.	15.6	404
10	Photoluminescence study of ZnO films prepared by thermal oxidation of Zn metallic films in air. <i>Journal of Applied Physics</i> , 2003, 94, 354-358.	1.1	385
11	Embedding Sulfur in MOF-Derived Microporous Carbon Polyhedrons for Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2013, 19, 10804-10808.	1.7	355
12	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. <i>Nanoscale</i> , 2011, 3, 1084-1089.	2.8	352
13	High-Power and High-Energy-Density Flexible Pseudocapacitor Electrodes Made from Porous CuO Nanobelts and Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 2013-2019.	7.3	340
14	Controlled Soft-Template Synthesis of Ultrathin C@FeS Nanosheets with High-Li-Storage Performance. <i>ACS Nano</i> , 2012, 6, 4713-4721.	7.3	293
15	Direct Synthesis of Anatase TiO ₂ Nanowires with Enhanced Photocatalytic Activity. <i>Advanced Materials</i> , 2012, 24, 2567-2571.	11.1	271
16	Ultrathin V ₂ O ₅ nanosheet cathodes: realizing ultrafast reversible lithium storage. <i>Nanoscale</i> , 2013, 5, 556-560.	2.8	236
17	Fabrication of Flexible Thermoelectric Thin Film Devices by Inkjet Printing. <i>Small</i> , 2014, 10, 3551-3554.	5.2	219
18	Comprehensive study of ZnO films prepared by filtered cathodic vacuum arc at room temperature. <i>Journal of Applied Physics</i> , 2003, 94, 1597-1604.	1.1	211

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19	Olivine-Type Nanosheets for Lithium Ion Battery Cathodes. ACS Nano, 2013, 7, 5637-5646.	7.3	210
20	Synthesis of SnO ₂ Hierarchical Structures Assembled from Nanosheets and Their Lithium Storage Properties. Journal of Physical Chemistry C, 2011, 115, 24605-24610.	1.5	200
21	Cobalt Oxide Nanowall Arrays on Reduced Graphene Oxide Sheets with Controlled Phase, Grain Size, and Porosity for Li-Ion Battery Electrodes. Journal of Physical Chemistry C, 2011, 115, 8400-8406.	1.5	196
22	Enhanced Thermopower of Graphene Films with Oxygen Plasma Treatment. ACS Nano, 2011, 5, 2749-2755.	7.3	181
23	Synthesis of Cobalt Phosphides and Their Application as Anodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 1093-1099.	4.0	178
24	Flexible carbon nanotube papers with improved thermoelectric properties. Energy and Environmental Science, 2012, 5, 5364-5369.	15.6	164
25	Multifunctional Architectures Constructing of PANI Nanoneedle Arrays on MoS ₂ Thin Nanosheets for High-Energy Supercapacitors. Small, 2015, 11, 4123-4129.	5.2	164
26	Synthesis of Ultrathin Silicon Nanosheets by Using Graphene Oxide as Template. Chemistry of Materials, 2011, 23, 5293-5295.	3.2	162
27	Cu doped V ₂ O ₅ flowers as cathode material for high-performance lithium ion batteries. Nanoscale, 2013, 5, 4937.	2.8	161
28	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. Advanced Functional Materials, 2014, 24, 6516-6523.	7.8	157
29	Reduced graphene oxide supported highly porous V ₂ O ₅ spheres as a high-power cathode material for lithium ion batteries. Nanoscale, 2011, 3, 4752.	2.8	155
30	Template-Assisted Formation of Rattle-Type V ₂ O ₅ Hollow Microspheres with Enhanced Lithium Storage Properties. Advanced Functional Materials, 2013, 23, 5669-5674.	7.8	154
31	Structural, electrical and optical properties of Al-doped ZnO thin films prepared by filtered cathodic vacuum arc technique. Journal of Crystal Growth, 2004, 268, 596-601.	0.7	150
32	Multifunctional 2D Ni ₂ P Nanocrystals-Black Phosphorus Heterostructure. Advanced Energy Materials, 2017, 7, 1601285.	10.2	149
33	Effect of poly(ethylene oxide) on ionic conductivity and electrochemical properties of poly(vinylidene fluoride) based polymer gel electrolytes prepared by electrospinning for lithium ion batteries. Journal of Power Sources, 2014, 245, 283-291.	4.0	144
34	Oxidation-Etching Preparation of MnO ₂ Tubular Nanostructures for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2012, 4, 2769-2774.	4.0	139
35	2D Black Phosphorus for Energy Storage and Thermoelectric Applications. Small, 2017, 13, 1700661.	5.2	139
36	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. Journal of Materials Chemistry A, 2013, 1, 82-88.	5.2	138

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37	Ultrahigh Rate Capabilities of Lithium-Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration. <i>Advanced Materials</i> , 2014, 26, 1296-1303.	11.1	138
38	Controlled Synthesis of Carbon-Coated Cobalt Sulfide Nanostructures in Oil Phase with Enhanced Li Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2999-3006.	4.0	137
39	p-type Bi _{0.4} Sb _{1.6} Te ₃ nanocomposites with enhanced figure of merit. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	135
40	General Approach for MOF-Derived Porous Spinel AFe ₂ O ₄ Hollow Structures and Their Superior Lithium Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26751-26757.	4.0	133
41	Enhancement of near-band-edge photoluminescence from ZnO films by face-to-face annealing. <i>Journal of Crystal Growth</i> , 2003, 259, 335-342.	0.7	129
42	Template-free synthesis of urchin-like Co ₃ O ₄ hollow spheres with good lithium storage properties. <i>Journal of Power Sources</i> , 2013, 222, 97-102.	4.0	128
43	Synthesis of Two-Dimensional Transition-Metal Phosphates with Highly Ordered Mesoporous Structures for Lithium-Ion Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9352-9355.	7.2	128
44	Three-Dimensional CdS-Titanate Composite Nanomaterials for Enhanced Visible-Light-Driven Hydrogen Evolution. <i>Small</i> , 2013, 9, 996-1002.	5.2	124
45	Reducing the Symmetry of Bimetallic Au@Ag Nanoparticles by Exploiting Eccentric Polymer Shells. <i>Journal of the American Chemical Society</i> , 2010, 132, 9537-9539.	6.6	121
46	Li ₃ V ₂ (PO ₄) ₃ nanocrystals embedded in a nanoporous carbon matrix supported on reduced graphene oxide sheets: Binder-free and high rate cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 214, 171-177.	4.0	112
47	Effect of nano-clay on ionic conductivity and electrochemical properties of poly(vinylidene fluoride) based nanocomposite porous polymer membranes and their application as polymer electrolyte in lithium ion batteries. <i>European Polymer Journal</i> , 2013, 49, 307-318.	2.6	109
48	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. <i>ACS Nano</i> , 2022, 16, 8213-8222.	7.3	109
49	Germanium nanowires-based carbon composite as anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 206, 253-258.	4.0	105
50	Binder-free graphene foams for O ₂ electrodes of Li-O ₂ batteries. <i>Nanoscale</i> , 2013, 5, 9651.	2.8	103
51	Characterization of Al-doped ZnO thermoelectric materials prepared by RF plasma powder processing and hot press sintering. <i>Ceramics International</i> , 2009, 35, 3067-3072.	2.3	101
52	Glass forming ability of bulk glass forming alloys. <i>Scripta Materialia</i> , 1997, 36, 783-787.	2.6	99
53	A Simple Chemical Approach for PbTe Nanowires with Enhanced Thermoelectric Properties. <i>Chemistry of Materials</i> , 2008, 20, 6298-6300.	3.2	97
54	Biomolecule-Assisted Hydrothermal Synthesis and Self-Assembly of Bi ₂ Te ₃ Nanostring-Cluster Hierarchical Structure. <i>ACS Nano</i> , 2010, 4, 2523-2530.	7.3	94

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55	Photo-modulable molecular transport junctions based on organometallic molecular wires. <i>Chemical Science</i> , 2012, 3, 3113.	3.7	94
56	Synthesis of Cu _x S/Cu Nanotubes and Their Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12468-12474.	1.5	92
57	Kinetic study of thermal- and impact-initiated reactions in Al-Fe ₂ O ₃ nanothermite. <i>Combustion and Flame</i> , 2010, 157, 2241-2249.	2.8	91
58	Direct growth of FeVO ₄ nanosheet arrays on stainless steel foil as high-performance binder-free Li ion battery anode. <i>RSC Advances</i> , 2012, 2, 3630.	1.7	91
59	Achieving Site-Specificity in Multistep Colloidal Synthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 7624-7627.	6.6	85
60	Sb ₂ Te ₃ Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. <i>Chemistry of Materials</i> , 2010, 22, 3086-3092.	3.2	83
61	A simple process to prepare nitrogen-modified few-layer graphene for a supercapacitor electrode. <i>Carbon</i> , 2013, 57, 184-190.	5.4	83
62	Facile preparation of hydrated vanadium pentoxide nanobelts based bulky paper as flexible binder-free cathodes for high-performance lithium ion batteries. <i>RSC Advances</i> , 2011, 1, 117.	1.7	82
63	One-pot synthesis of carbon-coated VO ₂ (B) nanobelts for high-rate lithium storage. <i>RSC Advances</i> , 2012, 2, 1174-1180.	1.7	81
64	Synergetic approach to achieve enhanced lithium ion storage performance in ternary phased SnO ₂ -Fe ₂ O ₃ /rGO composite nanostructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 12770.	6.7	80
65	Kinetically Controlled Assembly of a Spirocyclic Aromatic Hydrocarbon into Polyhedral Micro/Nanocrystals. <i>ACS Nano</i> , 2012, 6, 5309-5319.	7.3	80
66	Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi _{0.5} Sb _{1.5} Te ₃ Nanocomposites. <i>Advanced Electronic Materials</i> , 2017, 3, 1600554.	2.6	80
67	Microstructure and Current-Voltage Characteristics of Multicomponent Vanadium-Doped Zinc Oxide Varistors. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2455-2462.	1.9	78
68	Laser action in ZnO nanoneedles selectively grown on silicon and plastic substrates. <i>Applied Physics Letters</i> , 2005, 87, 013104.	1.5	77
69	Carbon inverse opal entrapped with electrode active nanoparticles as high-performance anode for lithium-ion batteries. <i>Scientific Reports</i> , 2013, 3, 2317.	1.6	77
70	Advanced porous electrodes with flow channels for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2017, 341, 83-90.	4.0	77
71	Coaxial Fe ₃ O ₄ /CuO hybrid nanowires as ultra fast charge/discharge lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8672.	5.2	76
72	Evolution of visible luminescence in ZnO by thermal oxidation of zinc films. <i>Chemical Physics Letters</i> , 2003, 375, 113-118.	1.2	75

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73	One-step electrochemical preparation of graphene-based heterostructures for Li storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 8455.	6.7	75
74	Synthesis of Uniform Layered Protonated Titanate Hierarchical Spheres and Their Transformation to Anatase TiO ₂ for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2012, 18, 2094-2099.	1.7	74
75	Synthesis and characterization of self-assembled nanoenergetic Al-Fe ₂ O ₃ thermite system. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 90-94.	1.9	73
76	Effects of MnO ₂ doping in V ₂ O ₅ -doped ZnO varistor system. <i>Materials Chemistry and Physics</i> , 2002, 75, 61-66.	2.0	70
77	Controlled Synthesis of Sb Nanostructures and Their Conversion to CoSb ₃ Nanoparticle Chains for Li-Ion Battery Electrodes. <i>Chemistry of Materials</i> , 2010, 22, 5333-5339.	3.2	69
78	Vanadium Pentoxide-Based Cathode Materials for Lithium-Ion Batteries: Morphology Control, Carbon Hybridization, and Cation Doping. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 276-294.	1.2	69
79	Protein-Based Memristive Nanodevices. <i>Small</i> , 2011, 7, 3016-3020.	5.2	67
80	Oriented Molecular Attachments Through Sol-Gel Chemistry for Synthesis of Ultrathin Hydrated Vanadium Pentoxide Nanosheets and Their Applications. <i>Small</i> , 2013, 9, 716-721.	5.2	67
81	Binary-Phased Nanoparticles for Enhanced Thermoelectric Properties. <i>Advanced Materials</i> , 2009, 21, 3196-3200.	11.1	66
82	Template-Free Electrochemical Deposition of Interconnected ZnSb Nanoflakes for Li-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2011, 23, 1032-1038.	3.2	65
83	Electrophoretic Build-Up of Alternately Multilayered Films and Micropatterns Based on Graphene Sheets and Nanoparticles and their Applications in Flexible Supercapacitors. <i>Small</i> , 2012, 8, 3201-3208.	5.2	65
84	Characterisation of Zn ₃ (VO ₄) ₂ phases in V ₂ O ₅ -doped ZnO varistors. <i>Journal of the European Ceramic Society</i> , 1999, 19, 721-726.	2.8	64
85	Reversible Al Metal Anodes Enabled by Amorphization for Aqueous Aluminum Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 11444-11455.	6.6	63
86	Facile Preparation of Ordered Porous Graphene-Metal Oxide@C Binder-Free Electrodes with High Li Storage Performance. <i>Small</i> , 2013, 9, 3390-3397.	5.2	62
87	Asymmetric anatase TiO ₂ nanocrystals with exposed high-index facets and their excellent lithium storage properties. <i>Nanoscale</i> , 2011, 3, 4082.	2.8	61
88	Controlled growth of SnO ₂ @Fe ₂ O ₃ double-sided nanocombs as anodes for lithium-ion batteries. <i>Nanoscale</i> , 2012, 4, 4459.	2.8	60
89	n-Type Carbon Nanotubes/Silver Telluride Nanohybrid Buckypaper with a High-Thermoelectric Figure of Merit. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4940-4946.	4.0	60
90	Fe ₂ O ₃ nanocluster-decorated graphene as O ₂ electrode for high energy Li-O ₂ batteries. <i>RSC Advances</i> , 2012, 2, 8508.	1.7	59

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91	A facile approach toward transition metal oxide hierarchical structures and their lithium storage properties. <i>Nanoscale</i> , 2012, 4, 3718.	2.8	58
92	Visible Photoresponse of Single-Layer Graphene Decorated with TiO ₂ Nanoparticles. <i>Small</i> , 2013, 9, 2076-2080.	5.2	58
93	Fabrication of Core-Shell Structure of M@C (M=Se, Au, Ag ₂ Se) and Transformation to Yolk-Shell Structure by Electron Beam Irradiation or Vacuum Annealing. <i>Chemistry of Materials</i> , 2009, 21, 3848-3852.	3.2	55
94	Bottom-Up Preparation of Porous Metal Oxide Ultrathin Sheets with Adjustable Composition/Phases and Their Applications. <i>Small</i> , 2011, 7, 3458-3464.	5.2	55
95	Production and annealing of nanocrystalline Fe-Si and Fe-Si-Al alloy powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 371, 210-216.	2.6	53
96	Grain growth in sintered ZnO-1 mol% V ₂ O ₅ ceramics. <i>Materials Letters</i> , 2003, 57, 1411-1416.	1.3	52
97	Waste Energy Harvesting. <i>Lecture Notes in Energy</i> , 2014, , .	0.2	52
98	Field emission from zinc oxide nanoneedles on plastic substrates. <i>Nanotechnology</i> , 2005, 16, 1300-1303.	1.3	51
99	Solvothermal synthesis of pyrite FeS ₂ nanocubes and their superior high rate lithium storage properties. <i>RSC Advances</i> , 2014, 4, 48770-48776.	1.7	51
100	Storage Capacity and Cycling Stability in Ge Anodes: Relationship of Anode Structure and Cycling Rate. <i>Advanced Energy Materials</i> , 2015, 5, 1500599.	10.2	51
101	Observations of nitrogen-related photoluminescence bands from nitrogen-doped ZnO films. <i>Journal of Crystal Growth</i> , 2003, 252, 265-269.	0.7	50
102	Synthesis of hexagonal-symmetry γ -iron oxyhydroxide crystals using reduced graphene oxide as a surfactant and their Li storage properties. <i>CrystEngComm</i> , 2012, 14, 147-153.	1.3	49
103	Mesoporous Cobalt Oxalate Nanostructures as High-Performance Anode Materials for Lithium-Ion Batteries: Ex Situ Electrochemical Mechanistic Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16316-16325.	1.5	48
104	Rapid fabrication of a novel Sn-Ge alloy: structure-property relationship and its enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14577.	5.2	47
105	Nitrogen doped carbon nanotubes encapsulated MnO nanoparticles derived from metal coordination polymer towards high performance Lithium-ion Battery Anodes. <i>Electrochimica Acta</i> , 2016, 187, 406-412.	2.6	47
106	Effects of dopants on the microstructure and properties of PZT ceramics. <i>Materials Chemistry and Physics</i> , 2002, 75, 151-156.	2.0	46
107	Flexible Ultraviolet Random Lasers Based on Nanoparticles. <i>Small</i> , 2005, 1, 956-959.	5.2	46
108	Cr ₂ O ₃ doping in ZnO-0.5mol% V ₂ O ₅ varistor ceramics. <i>Ceramics International</i> , 2009, 35, 409-413.	2.3	46

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109	Enhanced thermoelectric properties of n-type Bi ₂ Te _{2.7} Se _{0.3} thin films through the introduction of Pt nanoinclusions by pulsed laser deposition. <i>Nano Energy</i> , 2014, 8, 223-230.	8.2	46
110	Vanadium redox flow battery with slotted porous electrodes and automatic rebalancing demonstrated on a 1â€“kW system level. <i>Applied Energy</i> , 2019, 236, 437-443.	5.1	46
111	Low Temperature Processing of Nanocrystalline Lead Zirconate Titanate (PZT) Thick Films and Ceramics by a Modified Sol-Gel Route. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 6969-6975.	0.8	45
112	Low-loss and directional output ZnO thin-film ridge waveguide random lasers with MgO capped layer. <i>Applied Physics Letters</i> , 2005, 86, 031112.	1.5	45
113	Bulk nanostructured processing of aluminum alloy. <i>Journal of Materials Processing Technology</i> , 2007, 192-193, 575-581.	3.1	45
114	Tuning the shape and thermoelectric property of PbTe nanocrystals by bismuth doping. <i>Nanoscale</i> , 2010, 2, 1256.	2.8	45
115	Preparation and thermoelectric properties of sulfur doped Ag ₂ Te nanoparticles via solvothermal methods. <i>Nanoscale</i> , 2012, 4, 3926.	2.8	45
116	Functionalized single-walled carbon nanotubes with enhanced electrocatalytic activity for <math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mrow><msup><mrow><mtext>Br</mtext></mrow><mrow><mo>-</mo></mrow></math> redox reactions in van. <i>Carbon</i> , 2013, 64, 464-471.	5.4	45
117	Internal stress and surface morphology of zinc oxide thin films deposited by filtered cathodic vacuum arc technique. <i>Thin Solid Films</i> , 2004, 458, 15-19.	0.8	44
118	Microstructure and Properties of Al-6061 Alloy by Equal Channel Angular Extrusion for 16 Passes. <i>Materials and Manufacturing Processes</i> , 2007, 22, 819-824.	2.7	44
119	Microstructure and currentâ€“voltage characteristics of ZnOâ€“V ₂ O ₅ â€“MnO ₂ varistor system. <i>Ceramics International</i> , 2004, 30, 1647-1653.	2.3	43
120	Titania Nanosheets Hierarchically Assembled on Carbon Nanotubes as Highâ€“Rate Anodes for Lithiumâ€“Ion Batteries. <i>Chemistry - A European Journal</i> , 2012, 18, 3132-3135.	1.7	43
121	Dual phase polymer gel electrolyte based on non-woven poly(vinylidene fluoride-co-hexafluoropropylene)â€“layered clay nanocomposite fibrous membranes for lithium ion batteries. <i>Materials Research Bulletin</i> , 2013, 48, 526-537.	2.7	43
122	Enhanced high temperature thermoelectric properties of Bi-doped c-axis oriented Ca ₃ Co ₄ O ₉ thin films by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	42
123	The grain refinement of Al-6061 via ECAE processing: Deformation behavior, microstructure and property. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 526, 84-92.	2.6	41
124	Influence of Nanoinclusions on Thermoelectric Properties of n-Type Bi ₂ Te ₃ Nanocomposites. <i>Journal of Electronic Materials</i> , 2011, 40, 1018-1023.	1.0	41
125	Critical cooling rates for glass formation in Zrâ€“,Alâ€“,Cuâ€“,Ni alloys. <i>Journal of Non-Crystalline Solids</i> , 1996, 208, 127-138.	1.5	39
126	Effects of Nb doping on thermoelectric properties of Zn ₄ Sb ₃ at high temperatures. <i>Journal of Materials Research</i> , 2009, 24, 430-435.	1.2	39

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127	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. <i>Nanoscale</i> , 2013, 5, 12383.	2.8	39
128	Study on effect of poly (ethylene oxide) addition and in-situ porosity generation on poly (vinylidene fluoride) thin films. <i>Journal of Applied Polymer Science</i> , 2014, 267, 48-57.	4.0	39
129	Synthesis and characterization of high-energy ball milled Ni ₈₅ Fe ₁₅ Mo ₅ . <i>Journal of Alloys and Compounds</i> , 2004, 379, 266-271.	2.8	38
130	Influence of pulsed laser deposition rate on the microstructure and thermoelectric properties of Ca ₃ Co ₄ O ₉ thin films. <i>Journal of Crystal Growth</i> , 2009, 311, 4123-4128.	0.7	38
131	Power Factor Enhancement for Few-Layered Graphene Films by Molecular Attachments. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1780-1785.	1.5	38
132	Peroxide induced tin oxide coating of graphene oxide at room temperature and its application for lithium ion batteries. <i>Nanotechnology</i> , 2012, 23, 485601.	1.3	38
133	Cooperative enhancement of capacities in nanostructured SnSb/carbon nanotube network nanocomposite as anode for lithium ion batteries. <i>Journal of Power Sources</i> , 2012, 201, 288-293.	4.0	38
134	Synthesis, Crystal Structure, and Optical Properties of a Three-Dimensional Quaternary Hg ₇ In ₆ S ₅ Cl ₅ Chalcogenide. <i>Inorganic Chemistry</i> , 2012, 51, 4414-4416.	1.9	37
135	Aqueous-Based Chemical Route toward Ambient Preparation of Multicomponent Core-Shell Nanotubes. <i>ACS Nano</i> , 2014, 8, 4004-4014.	7.3	37
136	Compressed hydrogen gas-induced synthesis of Au-Pt core-shell nanoparticle chains towards high-performance catalysts for Li ₂ O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10676-10681.	5.2	37
137	One-pot solvothermal synthesis of Co _{1-x} Mn _x C ₂ O ₄ and their application as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 638, 324-333.	2.8	36
138	Template free electrochemical deposition of ZnSb nanotubes for Li ion battery anodes. <i>Chemical Communications</i> , 2011, 47, 9849.	2.2	35
139	A carbon monoxide gas sensor using oxygen plasma modified carbon nanotubes. <i>Nanotechnology</i> , 2012, 23, 425502.	1.3	35
140	In situ growth of Si nanowires on graphene sheets for Li-ion storage. <i>Electrochimica Acta</i> , 2012, 74, 176-181.	2.6	34
141	Facile synthesis of Cu ₇ Te ₄ nanorods and the enhanced thermoelectric properties of Cu ₇ Te ₄ -Bi _{0.4} Sb _{1.6} Te ₃ nanocomposites. <i>Nano Energy</i> , 2013, 2, 4-11.	8.2	34
142	Designing hybrid architectures for advanced thermoelectric materials. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2457-2473.	3.2	34
143	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 1143-1154.	1.7	33
144	Novel Approaches for Solving the Capacity Fade Problem during Operation of a Vanadium Redox Flow Battery. <i>Batteries</i> , 2018, 4, 48.	2.1	33

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145	Nanohybridization of ferrocene clusters and reduced graphene oxides with enhanced lithium storage capability. <i>Chemical Communications</i> , 2011, 47, 10383.	2.2	32
146	One-Step Solvothermal Synthesis of Single-Crystalline TiO ₂ Nanotubes with High Lithium-Ion Battery Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 4026-4030.	1.7	31
147	Solution heteroepitaxial growth of dendritic SnO ₂ /TiO ₂ hybrid nanowires. <i>Journal of Materials Research</i> , 2011, 26, 2254-2260.	1.2	30
148	Highly active and stable heterogeneous catalysts based on the entrapment of noble metal nanoparticles in 3D ordered porous carbon. <i>Carbon</i> , 2016, 96, 75-82.	5.4	30
149	Effect of Intermolecular Dipole-Dipole Interactions on Interfacial Supramolecular Structures of C ₃ -Symmetric Hexa-peri-hexabenzocoronene Derivatives. <i>Langmuir</i> , 2011, 27, 1314-1318.	1.6	29
150	Synthesis and thermoelectric properties of double-filled skutterudites Ce _{0.5} Yb _{0.5} Fe _{1.5} Co _{2.5} Sb ₁₂ . <i>Journal of Alloys and Compounds</i> , 2009, 467, 528-532.	2.8	28
151	Enhanced electrochemical catalytic activity of new nickel hydroxide nanostructures with (100) facet. <i>CrystEngComm</i> , 2011, 13, 188-192.	1.3	28
152	A facile approach to nanoarchitected three-dimensional graphene-based Li-Mn-O composite as high-power cathodes for Li-ion batteries. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 513-523.	1.5	28
153	Carbon buffered-transition metal oxidenanoparticle-graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6901-6907.	5.2	28
154	Study of flow behavior in all-vanadium redox flow battery using spatially resolved voltage distribution. <i>Journal of Power Sources</i> , 2017, 360, 443-452.	4.0	28
155	Combustion Characteristics of Fluoropolymer Coated Boron Powders. <i>Combustion Science and Technology</i> , 2022, 194, 1183-1198.	1.2	28
156	Combustion of fluoropolymer coated Al and Al-Mg alloy powders. <i>Combustion and Flame</i> , 2020, 220, 394-406.	2.8	27
157	Thermoelectric properties of p-type CoSb ₃ nanocomposites with dispersed CoSb ₃ nanoparticles. <i>Journal of Applied Physics</i> , 2009, 106, 013705.	1.1	26
158	Multiple doped ZnO with enhanced thermoelectric properties. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4182-4188.	2.8	26
159	Controlled Synthesis of Double-Wall FePO ₄ Nanotubes and their LIB Cathode Properties. <i>Small</i> , 2013, 9, 1036-1041.	5.2	25
160	Formation kinetics of Ni-15% Fe-5% Mo during ball milling. <i>Materials Letters</i> , 2004, 58, 2824-2828.	1.3	24
161	Synthesis of CoSb ₃ by a modified polyol process. <i>Materials Letters</i> , 2008, 62, 2483-2485.	1.3	24
162	Synthesis and high temperature thermoelectric properties of calcium and cerium double-filled skutterudites Ca _{0.1} Ce _x Co ₄ Sb ₁₂ . <i>Journal Physics D: Applied Physics</i> , 2009, 42, 105408.	1.3	23

#	ARTICLE	IF	CITATIONS
163	Growth of dandelion-shaped CuInSe_2 nanostructures by a two-step solvothermal process. <i>Nanotechnology</i> , 2011, 22, 195607.	1.3	23
164	Superior wide-temperature lithium storage in a porous cobalt vanadate. <i>Nano Research</i> , 2020, 13, 1867-1874.	5.8	23
165	Nanothermite composites with a novel cast curable fluoropolymer. <i>Chemical Engineering Journal</i> , 2021, 414, 128786.	6.6	23
166	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(ii)-based frameworks. <i>CrystEngComm</i> , 2012, 14, 75-78.	1.3	22
167	Effects of MgO doping in $\text{ZnO} \sim 0.5\text{mol}\% \text{V}_2\text{O}_5$ varistors. <i>Ceramics International</i> , 2008, 34, 1153-1157.	2.3	21
168	Surface chemical states on 3C-SiC/Si epilayers. <i>Applied Surface Science</i> , 1994, 81, 377-385.	3.1	20
169	Zinc Vanadates in Vanadium Oxide-Doped Zinc Oxide Varistors. <i>Journal of the American Ceramic Society</i> , 2001, 84, 435-41.	1.9	20
170	Deformation Behavior Study of Multi-Pass ECAE Process for Fabrication of Ultrafine or Nanostructured Bulk Materials. <i>Materials and Manufacturing Processes</i> , 2006, 21, 507-512.	2.7	20
171	Study of deformation homogeneity in the multi-pass equal channel angular extrusion process. <i>Journal of Materials Processing Technology</i> , 2007, 192-193, 121-127.	3.1	20
172	Deposition of nickel nanoparticles onto aluminum powders using a modified polyol process. <i>Materials Research Bulletin</i> , 2009, 44, 95-99.	2.7	20
173	Growth of Si nanowires in porous carbon with enhanced cycling stability for Li-ion storage. <i>Journal of Power Sources</i> , 2014, 250, 160-165.	4.0	20
174	Operando X-ray Studies of Crystalline Ge Anodes with Different Conductive Additives. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22772-22777.	1.5	20
175	The improvement of thermoelectric property of bulk ZnO via ZnS addition: Influence of intrinsic defects. <i>Ceramics International</i> , 2018, 44, 6461-6465.	2.3	20
176	Effect of Ag-doping on crystal structure and high temperature thermoelectric properties of c-axis oriented $\text{Ca}_3\text{Co}_4\text{O}_9$ thin films by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2012, 511, 133-138.	2.8	19
177	Nanoparticles of Polystyrene Latexes by Semicontinuous Microemulsion Polymerization Using Mixed Surfactants. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 235-240.	0.9	18
178	Microstructure and properties of PZT53/47 thick films derived from sols with submicron-sized PZT particle. <i>Ceramics International</i> , 2004, 30, 1925-1927.	2.3	18
179	ZnO thin films produced by filtered cathodic vacuum arc technique. <i>Ceramics International</i> , 2004, 30, 1669-1674.	2.3	18
180	Facile precipitation of two phase alloys in $\text{SnTe}_{0.75}\text{Se}_{0.25}$ with improved power factor. <i>Journal of Alloys and Compounds</i> , 2014, 587, 420-427.	2.8	18

#	ARTICLE	IF	CITATIONS
181	XPS and SIMS studies of MBE-grown CdTe/InSb(001) heterostructures. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 4359-4369.	0.7	17
182	F spots and domain patterns in rhombohedral PbZr _{0.90} Ti _{0.10} O ₃ . <i>Applied Physics Letters</i> , 2003, 83, 3692-3694.	1.5	16
183	Effects of Pulsed Laser Deposition Conditions on the Microstructure of Ca ₃ Co ₄ O ₉ Thin Films. <i>Journal of Electronic Materials</i> , 2010, 39, 1611-1615.	1.0	16
184	Aqueous solution synthesis of (Sb, Bi) ₂ (Te, Se) ₃ nanocrystals with controllable composition and morphology. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6271.	2.7	16
185	Anomalous Behavior of Anion Exchange Membrane during Operation of a Vanadium Redox Flow Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 1712-1719.	2.5	16
186	Grain growth of ZnO in binary ZnO-V ₂ O ₅ ceramics. <i>Journal of Materials Science</i> , 2003, 38, 2367-2372.	1.7	15
187	Electrical transport and thermoelectric properties of double filled compounds Ca _{0.1} Ce _x Co ₄ Sb ₁₂ at low temperatures. <i>Journal of Applied Physics</i> , 2008, 104, 103720.	1.1	15
188	Green synthesis of highly reduced graphene oxide by compressed hydrogen gas towards energy storage devices. <i>Journal of Power Sources</i> , 2015, 274, 310-317.	4.0	15
189	Synthesis of Single-Crystalline LiMn ₂ O ₄ and LiMn _{1.5} Ni _{0.5} O ₄ Nanocrystals and Their Lithium Storage Properties. <i>ChemPlusChem</i> , 2013, 78, 218-221.	1.3	14
190	Waste Mechanical Energy Harvesting (I): Piezoelectric Effect. <i>Lecture Notes in Energy</i> , 2014, , 19-133.	0.2	14
191	Decomposition and Energy-Enhancement Mechanism of the Energetic Binder Glycidyl Azide Polymer at Explosive Detonation Temperatures. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5542-5554.	1.1	14
192	Formation conditions of random laser cavities in annealed ZnO epilayers. <i>IEEE Journal of Quantum Electronics</i> , 2005, 41, 970-973.	1.0	13
193	High-temperature lasing characteristics of randomly assembled SnO ₂ backbone nanowires coated with ZnO nanofins. <i>Journal of Applied Physics</i> , 2009, 106, 123105.	1.1	13
194	Immobilization of plant polyphenol stabilized-Sn nanoparticles onto carbon nanotubes and their application in rechargeable lithium ion batteries. <i>RSC Advances</i> , 2013, 3, 5310.	1.7	13
195	Effects of addition of Pb(Y _{1/2} Nb _{1/2})O ₃ (PYN) on microstructure and piezoelectric properties of Pb(Zr _{0.53} Ti _{0.47})O ₃ . <i>Ceramics International</i> , 2004, 30, 2171-2176.	2.3	12
196	Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. <i>Langmuir</i> , 2010, 26, 4616-4619.	1.6	12
197	Controlled CVD growth of Cu-Sb alloy nanostructures. <i>Nanotechnology</i> , 2011, 22, 325602.	1.3	12
198	Integrated Charge Transfer in Colloidal Cu-MnO Heterostructures for High-Performance Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17452-17460.	1.5	12

#	ARTICLE	IF	CITATIONS
199	Critical cooling rates of glass formation in Mg-based Mg-Ni-Nd alloys. Journal of Materials Science Letters, 1995, 14, 988-990.	0.5	10
200	Densification of porous 8Åmol% yttria-stabilized zirconia component: modelling and experimental studies. Journal of Materials Science, 2010, 45, 575-581.	1.7	10
201	Controlled Synthesis of Ag/Ag/C Hybrid Nanostructures and their Surface-Enhanced Raman Scattering Properties. Chemistry - A European Journal, 2011, 17, 13386-13390.	1.7	9
202	Fe-Based Metallopolymer Nanowall-Based Composites for Li ⁺ O ₂ Battery Cathode. ACS Applied Materials & Interfaces, 2014, 6, 7164-7170.	4.0	9
203	The ferroelectric-antiferroelectric transition in Pb[Zr _{0.9} (Ce _x Ti _{1-x}) _{0.1}]O ₃ due to Ce ⁴⁺ doping. Solid State Communications, 2003, 125, 297-300.	0.9	8
204	Effect of various deposition parameters on the co-deposition behavior of cobalt antimony in citric-based solution. Journal of Materials Research, 2008, 23, 3013-3020.	1.2	8
205	Cosintering of a Bimodal Pore Distribution Layered Structure: Constitutive Models and Experiments. Journal of the American Ceramic Society, 2011, 94, 1528-1535.	1.9	8
206	High thermal conductivity ceramic layered system substrates for microelectronic applications. Journal of Materials Science: Materials in Electronics, 2002, 13, 461-464.	1.1	7
207	Reactivity of Al/CuO Nanothermite Composites with Fluoropolymers. Combustion Science and Technology, 2022, 194, 1378-1394.	1.2	7
208	Accurate machine learning models based on small dataset of energetic materials through spatial matrix featurization methods. Journal of Energy Chemistry, 2021, 63, 364-375.	7.1	7
209	Enhancement of electrochemical properties of Ca ₃ Co ₄ O ₉ as anode materials for lithium-ion batteries by transition metal doping. Ionics, 2017, 23, 395-403.	1.2	6
210	Facile synthesis and electrochemical properties of alpha-phase ferric oxide hematite cocoons and rods as high-performance anodes for lithium-ion batteries. Journal of Materials Research, 2013, 28, 824-831.	1.2	5
211	Waste Thermal Energy Harvesting (I): Thermoelectric Effect. Lecture Notes in Energy, 2014, , 263-403.	0.2	5
212	Improvement of electrochemical properties of Ca ₃ Co ₄ O ₉ as anode materials for lithium-ion batteries by Cr doping. Journal of Solid State Electrochemistry, 2015, 19, 1197-1202.	1.2	5
213	3-Amino-1,2,4(4 <i>H</i>)-oxadiazol-5-one (AOD) and its nitrogen-rich salts: a class of insensitive energetic materials. New Journal of Chemistry, 2018, 42, 1840-1844.	1.4	5
214	Waste Mechanical Energy Harvesting (II): Nanopiezoelectric Effect. Lecture Notes in Energy, 2014, , 135-262.	0.2	5
215	Waste Thermal Energy Harvesting (II): Pyroelectric Effect and Others. Lecture Notes in Energy, 2014, , 405-480.	0.2	5
216	XPS and Sims Studies of CVD-GROWN Cubic SiC Films on Si(100). Materials Research Society Symposia Proceedings, 1994, 339, 411.	0.1	4

#	ARTICLE	IF	CITATIONS
217	Synthesis of Sub-Micron Nickel Particles Coated onto Aluminum Powders via a Modified Polyol Process. <i>Metals and Materials International</i> , 2008, 14, 583-587.	1.8	4
218	A Study on the Electrodeposition Behavior of Cobalt Antimonides in Citric Based Solutions. <i>Solid State Phenomena</i> , 2008, 136, 75-82.	0.3	4
219	Improved thermal properties of Al powders coated with submicron-sized hollow nickel particles. <i>Journal of Materials Research</i> , 2009, 24, 3220-3225.	1.2	4
220	Lithium-Ion Batteries: Ultrahigh Rate Capabilities of Lithium-Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration (Adv. Mater.) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>	11.1	10
221	Microstructural Features of Solid-State Diffusion Bonded Incoloy MA 956. <i>Materials and Manufacturing Processes</i> , 2003, 18, 599-608.	2.7	3
222	Making Graphene "Bread" A Leavening Strategy to Prepare Reduced Graphene Oxide Foams (Adv. Mater.) <i>Tj ETQq0 0 0 rgBT /Over</i>	11.1	3
223	Combustion Studies of 4-Nitramino-1,2,4-Triazole (4-NRTZ) and Its Salts: High Impulse Nitrogenous Fuels for Propellant Composite Materials. <i>ChemistrySelect</i> , 2018, 3, 12544-12551.	0.7	3
224	Theoretical studies on the structures, material properties, and IR spectra of polymorphs of 3,4-bis(1H-5-tetrazolyl)furoxan. <i>Journal of Molecular Modeling</i> , 2019, 25, 51.	0.8	3
225	Sign changes of seebeck coefficients due to extrinsic-to-intrinsic transition for PbTe nanocrystals. <i>World Journal of Engineering</i> , 2012, 9, 391-398.	1.0	2
226	Waste Thermal Energy Harvesting (III): Storage with Phase Change Materials. <i>Lecture Notes in Energy</i> , 2014, , 481-592.	0.2	2
227	Improved densification and thermoelectric performance of In ₅ SnSbO ₁₂ via Ga doping. <i>Journal of Materials Science</i> , 2018, 53, 6741-6751.	1.7	2
228	Synthesis and characterization of a novel azido fluoroalkyl oligoether energetic plasticizer. <i>Journal of Materials Research</i> , 2022, 37, 1296-1308.	1.2	2
229	Sol-Gel Derived PZT Thick Films with Nano-Sized Microstructure. <i>Materials Research Society Symposia Proceedings</i> , 2002, 748, 1.	0.1	1
230	PRODUCTION AND GRAIN STABILITY OF NANOCRYSTALLINE Fe-Si POWDERS AND THE EFFECTS OF ALUMINIUM ADDITION. <i>International Journal of Nanoscience</i> , 2005, 04, 667-676.	0.4	1
231	Effects of Co:Sb Molar Ratio on Synthesis and Properties of Undoped CoSb ₃ Prepared via a Polyol Method. <i>Journal of Electronic Materials</i> , 2010, 39, 1543-1548.	1.0	1
232	Bulk and Interfacial Effects in Co-Cr ₂ O ₃ Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 2700-2703.	0.9	1
233	Gas flow induced by ultrasonic cavitation bubble clouds and surface capillary wave. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1042-1046.	1.7	1
234	Synthesis of nano-sized CoSb ₃ -based skutterudites using a modified polyol process. , 2007, ,		0

#	ARTICLE	IF	CITATIONS
235	Synthesis of Nano-Sized Co-Sb Compounds through Solvothermal Routes. Solid State Phenomena, 2008, 136, 57-62.	0.3	0
236	Li-ion Batteries: Multifunctional 2D Ni ₂ P Nanocrystals@Black Phosphorus Heterostructure (Adv. Energy Mater. 2/2017). Advanced Energy Materials, 2017, 7, .	10.2	0
237	Wearable Electronics: Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi _{0.5} Sb _{1.5} Te ₃ Nanocomposites (Adv. Electron.) Tj ETQq1 1.0.784314 rgBT /Cv	1.0	0