Huey Hoon Hng

List of Publications by Citations

236 papers	17,285 citations	67 h-index	125 g-index
248 ext. papers	18,408 ext. citations	7.3 avg, IF	6.58 L-index

#	Paper	IF	Citations
236	Nanostructured metal oxide-based materials as advanced anodes for lithium-ion batteries. *Nanoscale*, **2012**, 4, 2526-42	7.7	915
235	Formation of Fe2O3 microboxes with hierarchical shell structures from metal-organic frameworks and their lithium storage properties. *Journal of the American Chemical Society*, **2012**, 134, 17388-91	16.4	841
234	A leavening strategy to prepare reduced graphene oxide foams. *Advanced Materials*, **2012**, 24, 4144-50	24	701
233	Synthesis of porous NiO nanocrystals with controllable surface area and their application as supercapacitor electrodes. *Nano Research*, **2010**, 3, 643-652	10	472
232	An effective method for the fabrication of few-layer-thick inorganic nanosheets. *Angewandte Chemie - International Edition*, **2012**, 51, 9052-6	16.4	453
231	Highly stretchable, integrated supercapacitors based on single-walled carbon nanotube films with continuous reticulate architecture. *Advanced Materials*, **2013**, 25, 1058-64	24	440
230	Epitaxial Growth of Branched α-Fe2O3/SnO2 Nano-Heterostructures with Improved Lithium-Ion Battery Performance. *Advanced Functional Materials*, **2011**, 21, 2439-2445	15.6	408
229	Hierarchical hollow spheres composed of ultrathin Fe2O3 nanosheets for lithium storage and photocatalytic water oxidation. *Energy and Environmental Science*, **2013**, 6, 987	35.4	384
228	Achieving high specific charge capacitances in Fe3O4/reduced graphene oxide nanocomposites. *Journal of Materials Chemistry*, **2011**, 21, 3422		378
227	Photoluminescence study of ZnO films prepared by thermal oxidation of Zn metallic films in air. *Journal of Applied Physics*, **2003**, 94, 354-358	2.5	356
226	Facile synthesis of metal oxide/reduced graphene oxide hybrids with high lithium storage capacity and stable cyclability. *Nanoscale*, **2011**, 3, 1084-9	7.7	330
225	Embedding sulfur in MOF-derived microporous carbon polyhedrons for lithium-sulfur batteries. *Chemistry - A European Journal*, **2013**, 19, 10804-8	4.8	327
224	High-power and high-energy-density flexible pseudocapacitor electrodes made from porous CuO nanobelts and single-walled carbon nanotubes. *ACS Nano*, **2011**, 5, 2013-9	16.7	304
223	Controlled soft-template synthesis of ultrathin C@FeS nanosheets with high-Li-storage performance. *ACS Nano*, **2012**, 6, 4713-21	16.7	269
222	Direct synthesis of anatase TiO2 nanowires with enhanced photocatalytic activity. *Advanced Materials*, **2012**, 24, 2567-71	24	256
221	Ultrathin V2O5 nanosheet cathodes: realizing ultrafast reversible lithium storage. *Nanoscale*, **2013**, 5, 556-60	7.7	207
220	Olivine-type nanosheets for lithium ion battery cathodes. *ACS Nano*, **2013**, 7, 5637-46	16.7	193

219	Comprehensive study of ZnO films prepared by filtered cathodic vacuum arc at room temperature. *Journal of Applied Physics*, **2003**, 94, 1597-1604	2.5	191
218	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	3.8	181
217	Synthesis of SnO2 Hierarchical Structures Assembled from Nanosheets and Their Lithium Storage Properties. *Journal of Physical Chemistry C*, **2011**, 115, 24605-24610	3.8	181
216	Fabrication of flexible thermoelectric thin film devices by inkjet printing. *Small*, **2014**, 10, 3551-4	11	177
215	Enhanced thermopower of graphene films with oxygen plasma treatment. *ACS Nano*, **2011**, 5, 2749-55	16.7	162
214	Synthesis of cobalt phosphides and their application as anodes for lithium ion batteries. *ACS Applied Materials & Interfaces*, **2013**, 5, 1093-9	9.5	154
213	Synthesis of Ultrathin Silicon Nanosheets by Using Graphene Oxide as Template. *Chemistry of Materials*, **2011**, 23, 5293-5295	9.6	151
212	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. *Advanced Functional Materials*, **2014**, 24, 6516-6523	15.6	143
211	Flexible carbon nanotube papers with improved thermoelectric properties. *Energy and Environmental Science*, **2012**, 5, 5364-5369	35.4	143
210	Reduced graphene oxide supported highly porous V2O5 spheres as a high-power cathode material for lithium ion batteries. *Nanoscale*, **2011**, 3, 4752-8	7.7	143
209	Multifunctional Architectures Constructing of PANI Nanoneedle Arrays on MoS2 Thin Nanosheets for High-Energy Supercapacitors. *Small*, **2015**, 11, 4123-9	11	141
208	Template-Assisted Formation of Rattle-type V2O5 Hollow Microspheres with Enhanced Lithium Storage Properties. *Advanced Functional Materials*, **2013**, 23, 5669-5674	15.6	140
207	Cu doped V2O5 flowers as cathode material for high-performance lithium ion batteries. *Nanoscale*, **2013**, 5, 4937-43	7.7	138
206	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	1.6	131
205	Oxidation-etching preparation of MnO2 tubular nanostructures for high-performance supercapacitors. *ACS Applied Materials & Interfaces*, **2012**, 4, 2769-74	9.5	129
204	Ultrahigh rate capabilities of lithium-ion batteries from 3D ordered hierarchically porous electrodes with entrapped active nanoparticles configuration. *Advanced Materials*, **2014**, 26, 1296-303	24	127
203	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	13	126
202	Controlled synthesis of carbon-coated cobalt sulfide nanostructures in oil phase with enhanced li storage performances. *ACS Applied Materials & Interfaces*, **2012**, 4, 2999-3006	9.5	125

201	Effect of poly(ethylene oxide) on ionic conductivity and electrochemical properties of poly(vinylidenefluoride) based polymer gel electrolytes prepared by electrospinning for lithium ion batteries. *Journal of Power Sources*, **2014**, 245, 283-291	8.9	121
200	p-type Bi0.4Sb1.6Te3 nanocomposites with enhanced figure of merit. *Applied Physics Letters*, **2010**, 96, 182104	3.4	121
199	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. *Small*, **2013**, 9, 996-1002	11	118
198	Reducing the symmetry of bimetallic Au@Ag nanoparticles by exploiting eccentric polymer shells. *Journal of the American Chemical Society*, **2010**, 132, 9537-9	16.4	117
197	Template-free synthesis of urchin-like Co3O4 hollow spheres with good lithium storage properties. *Journal of Power Sources*, **2013**, 222, 97-102	8.9	116
196	Enhancement of near-band-edge photoluminescence from ZnO films by face-to-face annealing. *Journal of Crystal Growth*, **2003**, 259, 335-342	1.6	116
195	Multifunctional 0D2D Ni2P NanocrystalsBlack Phosphorus Heterostructure. *Advanced Energy Materials*, **2017**, 7, 1601285	21.8	114
194	2D Black Phosphorus for Energy Storage and Thermoelectric Applications. *Small*, **2017**, 13, 1700661	11	113
193	Synthesis of two-dimensional transition-metal phosphates with highly ordered mesoporous structures for lithium-ion battery applications. *Angewandte Chemie - International Edition*, **2014**, 53, 9352-5	16.4	113
192	General Approach for MOF-Derived Porous Spinel AFe2O4 Hollow Structures and Their Superior Lithium Storage Properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 26751-7	9.5	108
191	Li3V2(PO4)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. *Journal of Power Sources*, **2012**, 214, 171-177	8.9	106
190	Binder-free graphene foams for O2 electrodes of Li-O2 batteries. *Nanoscale*, **2013**, 5, 9651-8	7.7	97
189	Germanium nanowires-based carbon composite as anodes for lithium-ion batteries. *Journal of Power Sources*, **2012**, 206, 253-258	8.9	95
188	Glass forming ability of bulk glass forming alloys. *Scripta Materialia*, **1997**, 36, 783-787	5.6	92
187	A Simple Chemical Approach for PbTe Nanowires with Enhanced Thermoelectric Properties. *Chemistry of Materials*, **2008**, 20, 6298-6300	9.6	91
186	Photo-modulable molecular transport junctions based on organometallic molecular wires. *Chemical Science*, **2012**, 3, 3113	9.4	90
185	Biomolecule-assisted hydrothermal synthesis and self-assembly of Bi2Te3 nanostring-cluster hierarchical structure. *ACS Nano*, **2010**, 4, 2523-30	16.7	86
184	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. *European Polymer Journal*, **2013**, 49, 307-318	5.2	85

183	Synthesis of CuxS/Cu Nanotubes and Their Lithium Storage Properties. *Journal of Physical Chemistry C*, **2012**, 116, 12468-12474	3.8	82
182	Direct growth of FeVO4 nanosheet arrays on stainless steel foil as high-performance binder-free Li ion battery anode. *RSC Advances*, **2012**, 2, 3630	3.7	80
181	Characterization of Al-doped ZnO thermoelectric materials prepared by RF plasma powder processing and hot press sintering. *Ceramics International*, **2009**, 35, 3067-3072	5.1	78
180	Sb2Te3 Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. *Chemistry of Materials*, **2010**, 22, 3086-3092	9.6	77
179	Kinetic study of thermal- and impact-initiated reactions in Al/Fe2O3 nanothermite. *Combustion and Flame*, **2010**, 157, 2241-2249	5.3	77
178	Synergetic approach to achieve enhanced lithium ion storage performance in ternary phased SnO2/Fe2O3/rGO composite nanostructures. *Journal of Materials Chemistry*, **2011**, 21, 12770		76
177	Facile preparation of hydrated vanadium pentoxide nanobelts based bulky paper as flexible binder-free cathodes for high-performance lithium ion batteries. *RSC Advances*, **2011**, 1, 117	3.7	75
176	One-pot synthesis of carbon-coated VO2(B) nanobelts for high-rate lithium storage. *RSC Advances*, **2012**, 2, 1174-1180	3.7	73
175	A simple process to prepare nitrogen-modified few-layer graphene for a supercapacitor electrode. *Carbon*, **2013**, 57, 184-190	10.4	72
174	Kinetically controlled assembly of a spirocyclic aromatic hydrocarbon into polyhedral micro/nanocrystals. *ACS Nano*, **2012**, 6, 5309-19	16.7	72
173	Carbon inverse opal entrapped with electrode active nanoparticles as high-performance anode for lithium-ion batteries. *Scientific Reports*, **2013**, 3, 2317	4.9	71
172	Evolution of visible luminescence in ZnO by thermal oxidation of zinc films. *Chemical Physics Letters*, **2003**, 375, 113-118	2.5	69
171	Laser action in ZnO nanoneedles selectively grown on silicon and plastic substrates. *Applied Physics Letters*, **2005**, 87, 013104	3.4	68
170	One-step electrochemical preparation of graphene-based heterostructures for Li storage. *Journal of Materials Chemistry*, **2012**, 22, 8455		67
169	Achieving Site-Specificity in Multistep Colloidal Synthesis. *Journal of the American Chemical Society*, **2015**, 137, 7624-7	16.4	66
168	Synthesis of uniform layered protonated titanate hierarchical spheres and their transformation to anatase TiO2 for lithium-ion batteries. *Chemistry - A European Journal*, **2012**, 18, 2094-9	4.8	66
167	Coaxial Fe3O4/CuO hybrid nanowires as ultra fast charge/discharge lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2013**, 1, 8672	13	66
166	Synthesis and characterization of self-assembled nanoenergetic Al/Fe2O3 thermite system. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 90-94	3.9	66

165	Microstructure and Current–Voltage Characteristics of Multicomponent Vanadium-Doped Zinc Oxide Varistors. *Journal of the American Ceramic Society*, **2004**, 83, 2455-2462	3.8	64
164	Effects of MnO2 doping in V2O5-doped ZnO varistor system. *Materials Chemistry and Physics*, **2002**, 75, 61-66	4.4	63
163	Electrophoretic build-up of alternately multilayered films and micropatterns based on graphene sheets and nanoparticles and their applications in flexible supercapacitors. *Small*, **2012**, 8, 3201-8	11	61
162	Facile preparation of ordered porous graphene-metal oxide@C binder-free electrodes with high Li storage performance. *Small*, **2013**, 9, 3390-7	11	61
161	Template-Free Electrochemical Deposition of Interconnected ZnSb Nanoflakes for Li-Ion Battery Anodes. *Chemistry of Materials*, **2011**, 23, 1032-1038	9.6	61
160	Binary-Phased Nanoparticles for Enhanced Thermoelectric Properties. *Advanced Materials*, **2009**, 21, 3196-3200	24	61
159	Characterisation of Zn3(VO4)2 phases in V2O5-doped ZnO varistors. *Journal of the European Ceramic Society*, **1999**, 19, 721-726	6	61
158	Fe2O3 nanocluster-decorated graphene as O2 electrode for high energy Li–O2 batteries. *RSC Advances*, **2012**, 2, 8508	3.7	59
157	Protein-based memristive nanodevices. *Small*, **2011**, 7, 3016-20	11	59
156	Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi0.5Sb1.5Te3 Nanocomposites. *Advanced Electronic Materials*, **2017**, 3, 1600554	6.4	57
155	Advanced porous electrodes with flow channels for vanadium redox flow battery. *Journal of Power Sources*, **2017**, 341, 83-90	8.9	57
154	Oriented molecular attachments through sol-gel chemistry for synthesis of ultrathin hydrated vanadium pentoxide nanosheets and their applications. *Small*, **2013**, 9, 716-21	11	57
153	Controlled Synthesis of Sb Nanostructures and Their Conversion to CoSb3Nanoparticle Chains for Li-Ion Battery Electrodes. *Chemistry of Materials*, **2010**, 22, 5333-5339	9.6	57
152	Controlled growth of SnO@Fe–O double-sided nanocombs as anodes for lithium-ion batteries. *Nanoscale*, **2012**, 4, 4459-63	7.7	56
151	Visible photoresponse of single-layer graphene decorated with TiO nanoparticles. *Small*, **2013**, 9, 2076-80	11	55
150	Asymmetric anatase TiO nanocrystals with exposed high-index facets and their excellent lithium storage properties. *Nanoscale*, **2011**, 3, 4082-4	7.7	55
149	A facile approach toward transition metal oxide hierarchical structures and their lithium storage properties. *Nanoscale*, **2012**, 4, 3718-24	7.7	53
148	Fabrication of Core–Shell Structure of (M=Se, Au, Ag2Se) and Transformation to Yolk–Shell Structure by Electron Beam Irradiation or Vacuum Annealing. *Chemistry of Materials*, **2009**, 21, 3848-3852	9.6	53

147	Bottom-up preparation of porous metal-oxide ultrathin sheets with adjustable composition/phases and their applications. *Small*, **2011**, 7, 3458-64	11	51
146	n-Type carbon nanotubes/silver telluride nanohybrid buckypaper with a high-thermoelectric figure of merit. *ACS Applied Materials & Interfaces*, **2014**, 6, 4940-6	9.5	50
145	Vanadium Pentoxide-Based Cathode Materials for Lithium-Ion Batteries: Morphology Control, Carbon Hybridization, and Cation Doping. *Particle and Particle Systems Characterization*, **2015**, 32, 276-294	3.1	50
144	Grain growth in sintered ZnO□1 mol% V2O5 ceramics. *Materials Letters*, **2003**, 57, 1411-1416	3.3	49
143	Field emission from zinc oxide nanoneedles on plastic substrates. *Nanotechnology*, **2005**, 16, 1300-1303	3.4	48
142	Production and annealing of nanocrystalline Fe□Si and Fe□Si□Al alloy powders. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 371, 210-216	5.3	48
141	Synthesis of hexagonal-symmetry □ron oxyhydroxide crystals using reduced graphene oxide as a surfactant and their Li storage properties. *CrystEngComm*, **2012**, 14, 147-153	3.3	46
140	Storage Capacity and Cycling Stability in Ge Anodes: Relationship of Anode Structure and Cycling Rate. *Advanced Energy Materials*, **2015**, 5, 1500599	21.8	45
139	Observations of nitrogen-related photoluminescence bands from nitrogen-doped ZnO films. *Journal of Crystal Growth*, **2003**, 252, 265-269	1.6	44
138	Microstructure and current□oltage characteristics of ZnO□V2O5□MnO2 varistor system. *Ceramics International*, **2004**, 30, 1647-1653	5.1	43
137	Titania nanosheets hierarchically assembled on carbon nanotubes as high-rate anodes for lithium-ion batteries. *Chemistry - A European Journal*, **2012**, 18, 3132-5	4.8	42
136	Rapid fabrication of a novel Sn□e alloy: structure□roperty relationship and its enhanced lithium storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 14577	13	42
135	Low-loss and directional output ZnO thin-film ridge waveguide random lasers with MgO capped layer. *Applied Physics Letters*, **2005**, 86, 031112	3.4	41
134	Internal stress and surface morphology of zinc oxide thin films deposited by filtered cathodic vacuum arc technique. *Thin Solid Films*, **2004**, 458, 15-19	2.2	41
133	Flexible ultraviolet random lasers based on nanoparticles. *Small*, **2005**, 1, 956-9	11	41
132	Solvothermal synthesis of pyrite FeS2 nanocubes and their superior high rate lithium storage properties. *RSC Advances*, **2014**, 4, 48770-48776	3.7	40
131	Mesoporous Cobalt Oxalate Nanostructures as High-Performance Anode Materials for Lithium-Ion Batteries: Ex Situ Electrochemical Mechanistic Study. *Journal of Physical Chemistry C*, **2013**, 117, 16316-16325	4.8	40
130	Tuning the shape and thermoelectric property of PbTe nanocrystals by bismuth doping. *Nanoscale*, **2010**, 2, 1256-9	7.7	40

129	Cr2O3 doping in ZnO□0.5 mol% V2O5 varistor ceramics. *Ceramics International*, **2009**, 35, 409-413	5.1	40
128	Bulk nanostructured processing of aluminum alloy. *Journal of Materials Processing Technology*, **2007**, 192-193, 575-581	5.3	40
127	Low Temperature Processing of Nanocrystalline Lead Zirconate Titanate (PZT) Thick Films and Ceramics by a Modified Sol-Gel Route. *Japanese Journal of Applied Physics*, **2002**, 41, 6969-6975	1.4	40
126	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. *Nanoscale*, **2013**, 5, 12383-7	7.7	39
125	Enhanced high temperature thermoelectric properties of Bi-doped c-axis oriented Ca3Co4O9 thin films by pulsed laser deposition. *Journal of Applied Physics*, **2010**, 108, 083709	2.5	39
124	Nitrogen doped carbon nanotubes encapsulated MnO nanoparticles derived from metal coordination polymer towards high performance Lithium-ion Battery Anodes. *Electrochimica Acta*, **2016**, 187, 406-412	6.7	38
123	Influence of Nanoinclusions on Thermoelectric Properties of n-Type Bi2Te3 Nanocomposites. *Journal of Electronic Materials*, **2011**, 40, 1018-1023	1.9	38
122	Microstructure and Properties of Al-6061 Alloy by Equal Channel Angular Extrusion for 16 Passes. *Materials and Manufacturing Processes*, **2007**, 22, 819-824	4.1	38
121	Effects of dopants on the microstructure and properties of PZT ceramics. *Materials Chemistry and Physics*, **2002**, 75, 151-156	4.4	38
120	Cooperative enhancement of capacities in nanostructured SnSb/carbon nanotube network nanocomposite as anode for lithium ion batteries. *Journal of Power Sources*, **2012**, 201, 288-293	8.9	37
119	The grain refinement of Al-6061 via ECAE processing: Deformation behavior, microstructure and property. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 526, 84-92	5.3	37
118	Aqueous-based chemical route toward ambient preparation of multicomponent core-shell nanotubes. *ACS Nano*, **2014**, 8, 4004-14	16.7	36
117	Peroxide induced tin oxide coating of graphene oxide at room temperature and its application for lithium ion batteries. *Nanotechnology*, **2012**, 23, 485601	3.4	36
116	Dual phase polymer gel electrolyte based on non-woven poly(vinylidenefluoride-co-hexafluoropropylene)□layered clay nanocomposite fibrous membranes for lithium ion batteries. *Materials Research Bulletin*, **2013**, 48, 526-537	5.1	36
115	Synthesis and characterization of high-energy ball milled Ni□15%Fe□5%Mo. *Journal of Alloys and Compounds*, **2004**, 379, 266-271	5.7	36
114	Critical cooling rates for glass formation in Zr?Al?Cu?Ni alloys. *Journal of Non-Crystalline Solids*, **1996**, 208, 127-138	3.9	36
113	Waste Energy Harvesting. *Lecture Notes in Energy*, **2014**,	0.4	35
112	Preparation and thermoelectric properties of sulfur doped Ag2Te nanoparticles via solvothermal methods. *Nanoscale*, **2012**, 4, 3926-31	7.7	35

111	Synthesis, crystal structure, and optical properties of a three-dimensional quaternary Hg-In-S-Cl chalcohalide: Hg7InS6Cl5. *Inorganic Chemistry*, **2012**, 51, 4414-6	5.1	35
110	Influence of pulsed laser deposition rate on the microstructure and thermoelectric properties of Ca3Co4O9 thin films. *Journal of Crystal Growth*, **2009**, 311, 4123-4128	1.6	35
109	Functionalized single-walled carbon nanotubes with enhanced electrocatalytic activity for . *Carbon*, **2013**, 64, 464-471	10.4	34
108	Effects of Nb doping on thermoelectric properties of Zn4Sb3 at high temperatures. *Journal of Materials Research*, **2009**, 24, 430-435	2.5	34
107	Enhanced thermoelectric properties of n-type Bi2Te2.7Se0.3 thin films through the introduction of Pt nanoinclusions by pulsed laser deposition. *Nano Energy*, **2014**, 8, 223-230	17.1	33
106	Template free electrochemical deposition of ZnSb nanotubes for Li ion battery anodes. *Chemical Communications*, **2011**, 47, 9849-51	5.8	33
105	Compressed hydrogen gas-induced synthesis of Au□Pt core□shell nanoparticle chains towards high-performance catalysts for Li□O2 batteries. *Journal of Materials Chemistry A*, **2014**, 2, 10676-10681	13	32
104	Study on effect of poly (ethylene oxide) addition and in-situ porosity generation on poly (vinylidene fluoride)-glass ceramic composite membranes for lithium polymer batteries. *Journal of Power Sources*, **2014**, 267, 48-57	8.9	32
103	Power Factor Enhancement for Few-Layered Graphene Films by Molecular Attachments. *Journal of Physical Chemistry C*, **2011**, 115, 1780-1785	3.8	32
102	In situ growth of Si nanowires on graphene sheets for Li-ion storage. *Electrochimica Acta*, **2012**, 74, 176-181	4.7	31
101	Facile synthesis of Cu7Te4 nanorods and the enhanced thermoelectric properties of Cu7Te4□Bi0.4Sb1.6Te3 nanocomposites. *Nano Energy*, **2013**, 2, 4-11	17.1	31
100	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. *Angewandte Chemie*, **2012**, 124, 9186-9190	3.6	31
99	Nanohybridization of ferrocene clusters and reduced graphene oxides with enhanced lithium storage capability. *Chemical Communications*, **2011**, 47, 10383-5	5.8	31
98	Designing hybrid architectures for advanced thermoelectric materials. *Materials Chemistry Frontiers* , **2017**, 1, 2457-2473	7.8	30
97	One-step solvothermal synthesis of single-crystalline TiOF2 nanotubes with high lithium-ion battery performance. *Chemistry - A European Journal*, **2012**, 18, 4026-30	4.8	30
96	Solution heteroepitaxial growth of dendritic SnO2/TiO2 hybrid nanowires. *Journal of Materials Research*, **2011**, 26, 2254-2260	2.5	29
95	Highly active and stable heterogeneous catalysts based on the entrapment of noble metal nanoparticles in 3D ordered porous carbon. *Carbon*, **2016**, 96, 75-82	10.4	28
94	One-pot solvothermal synthesis of Co1□MnxC2O4 and their application as anode materials for lithium-ion batteries. *Journal of Alloys and Compounds*, **2015**, 638, 324-333	5.7	27

93	Carbon buffered-transition metal oxidenanoparticle□graphene hybrid nanosheets as high-performance anode materials for lithium ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 6901-6907	13	27
92	Microstructure and current-voltage characteristics of praseodymium-doped zinc oxide varistors containing MnO2, Sb2O3 and Co3O4. *Journal of Materials Science*, **2002**, 37, 1143-1154	4.3	27
91	A carbon monoxide gas sensor using oxygen plasma modified carbon nanotubes. *Nanotechnology*, **2012**, 23, 425502	3.4	26
90	Effect of intermolecular dipole-dipole interactions on interfacial supramolecular structures of C3-symmetric hexa-peri-hexabenzocoronene derivatives. *Langmuir*, **2011**, 27, 1314-8	4	25
89	Enhanced electrochemical catalytic activity of new nickel hydroxide nanostructures with (100) facet. *CrystEngComm*, **2011**, 13, 188-192	3.3	25
88	Vanadium redox flow battery with slotted porous electrodes and automatic rebalancing demonstrated on a 1 kW system level. *Applied Energy*, **2019**, 236, 437-443	10.7	25
87	Synthesis of Two-Dimensional Transition-Metal Phosphates with Highly Ordered Mesoporous Structures for Lithium-Ion Battery Applications. *Angewandte Chemie*, **2014**, 126, 9506-9509	3.6	24
86	A facile approach to nanoarchitectured three-dimensional graphene-based Li-Mn-O composite as high-power cathodes for Li-ion batteries. *Beilstein Journal of Nanotechnology*, **2012**, 3, 513-23	3	24
85	Thermoelectric properties of p-type CoSb3 nanocomposites with dispersed CoSb3 nanoparticles. *Journal of Applied Physics*, **2009**, 106, 013705	2.5	24
84	Synthesis and thermoelectric properties of double-filled skutterudites CeyYb0.5□Fe1.5Co2.5Sb12. *Journal of Alloys and Compounds*, **2009**, 467, 528-532	5.7	24
83	Formation kinetics of Ni□5% Fe□% Mo during ball milling. *Materials Letters*, **2004**, 58, 2824-2828	3.3	24
82	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. *CrystEngComm*, **2012**, 14, 75-78	3.3	22
81	Synthesis of CoSb3 by a modified polyol process. *Materials Letters*, **2008**, 62, 2483-2485	3.3	22
80	Synthesis and high temperature thermoelectric properties of calcium and cerium double-filled skutterudites Ca0.1CexCo4Sb12. *Journal Physics D: Applied Physics*, **2009**, 42, 105408	3	21
79	Growth of dandelion-shaped CuInSe2 nanostructures by a two-step solvothermal process. *Nanotechnology*, **2011**, 22, 195607	3.4	21
78	Effects of MgO doping in ZnO□.5mol% V2O5 varistors. *Ceramics International*, **2008**, 34, 1153-1157	5.1	21
77	Study of flow behavior in all-vanadium redox flow battery using spatially resolved voltage distribution. *Journal of Power Sources*, **2017**, 360, 443-452	8.9	20
76	Deposition of nickel nanoparticles onto aluminum powders using a modified polyol process. *Materials Research Bulletin*, **2009**, 44, 95-99	5.1	20

75	Operando X-ray Studies of Crystalline Ge Anodes with Different Conductive Additives. *Journal of Physical Chemistry C*, **2015**, 119, 22772-22777	3.8	19
74	Controlled synthesis of double-wall a-FePO4 nanotubes and their LIB cathode properties. *Small*, **2013**, 9, 1036-41	11	19
73	Study of deformation homogeneity in the multi-pass equal channel angular extrusion process. *Journal of Materials Processing Technology*, **2007**, 192-193, 121-127	5.3	19
72	Deformation Behavior Study of Multi-Pass ECAE Process for Fabrication of Ultrafine or Nanostructured Bulk Materials. *Materials and Manufacturing Processes*, **2006**, 21, 507-512	4.1	19
71	Surface chemical states on 3C-SiC/Si epilayers. *Applied Surface Science*, **1994**, 81, 377-385	6.7	19
70	ZnO thin films produced by filtered cathodic vacuum arc technique. *Ceramics International*, **2004**, 30, 1669-1674	5.1	18
69	Growth of Si nanowires in porous carbon with enhanced cycling stability for Li-ion storage. *Journal of Power Sources*, **2014**, 250, 160-165	8.9	17
68	Nanoparticles of polystyrene latexes by semicontinuous microemulsion polymerization using mixed surfactants. *Journal of Nanoscience and Nanotechnology*, **2003**, 3, 235-40	1.3	17
67	The improvement of thermoelectric property of bulk ZnO via ZnS addition: Influence of intrinsic defects. *Ceramics International*, **2018**, 44, 6461-6465	5.1	16
66	Facile precipitation of two phase alloys in SnTe0.75Se0.25 with improved power factor. *Journal of Alloys and Compounds*, **2014**, 587, 420-427	5.7	16
65	Novel Approaches for Solving the Capacity Fade Problem during Operation of a Vanadium Redox Flow Battery. *Batteries*, **2018**, 4, 48	5.7	16
64	Aqueous solution synthesis of (Sb, Bi)2(Te, Se)3 nanocrystals with controllable composition and morphology. *Journal of Materials Chemistry C*, **2013**, 1, 6271	7.1	15
63	Electrical transport and thermoelectric properties of double filled compounds Ca0.1CexCo4Sb12 at low temperatures. *Journal of Applied Physics*, **2008**, 104, 103720	2.5	15
62	Zinc Vanadates in Vanadium Oxide-Doped Zinc Oxide Varistors. *Journal of the American Ceramic Society*, **2004**, 84, 435-41	3.8	15
61	Microstructure and properties of PZT53/47 thick films derived from sols with submicron-sized PZT particle. *Ceramics International*, **2004**, 30, 1925-1927	5.1	15
60	F spots and domain patterns in rhombohedral PbZr0.90Ti0.10O3. *Applied Physics Letters*, **2003**, 83, 3692-3694	3.4	15
59	Green synthesis of highly reduced graphene oxide by compressed hydrogen gas towards energy storage devices. *Journal of Power Sources*, **2015**, 274, 310-317	8.9	14
58	Effect of Ag-doping on crystal structure and high temperature thermoelectric properties of c-axis oriented Ca3Co4O9 thin films by pulsed laser deposition. *Journal of Alloys and Compounds*, **2012**, 511, 133-138	5.7	14

57	Effects of Pulsed Laser Deposition Conditions on the Microstructure of Ca3Co4O9 Thin Films. *Journal of Electronic Materials*, **2010**, 39, 1611-1615	1.9	14
56	Waste Mechanical Energy Harvesting (I): Piezoelectric Effect. *Lecture Notes in Energy*, **2014**, 19-133	0.4	13
55	Superior wide-temperature lithium storage in a porous cobalt vanadate. *Nano Research*, **2020**, 13, 1867-1874	10	13
54	Integrated Charge Transfer in Colloidal Cu2MnO Heterostructures for High-Performance Lithium Ion Batteries. *Journal of Physical Chemistry C*, **2014**, 118, 17452-17460	3.8	12
53	Synthesis of Single-Crystalline LiMn2O4 and LiMn1.5Ni0.5O4 Nanocrystals and Their Lithium Storage Properties. *ChemPlusChem*, **2013**, 78, 218-221	2.8	12
52	High-temperature lasing characteristics of randomly assembled SnO2 backbone nanowires coated with ZnO nanofins. *Journal of Applied Physics*, **2009**, 106, 123105	2.5	12
51	Formation conditions of random laser cavities in annealed ZnO epilayers. *IEEE Journal of Quantum Electronics*, **2005**, 41, 970-973	2	12
50	Grain growth of ZnO in binary ZnO-V2O5 ceramics. *Journal of Materials Science*, **2003**, 38, 2367-2372	4.3	12
49	XPS and SIMS studies of MBE-grown CdTe/InSb(001) heterostructures. *Journal of Physics Condensed Matter*, **1995**, 7, 4359-4369	1.8	12
48	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions.. *ACS Nano*, **2022**,	16.7	12
47	Generation of dual patterns of metal oxide nanomaterials based on seed-mediated selective growth. *Langmuir*, **2010**, 26, 4616-9	4	11
46	Controlled CVD growth of Cu-Sb alloy nanostructures. *Nanotechnology*, **2011**, 22, 325602	3.4	10
45	Effects of addition of Pb(Y1/2Nb1/2)O3 (PYN) on microstructure and piezoelectric properties of Pb(Zr0.53Ti0.47)O3. *Ceramics International*, **2004**, 30, 2171-2176	5.1	10
44	Combustion Characteristics of Fluoropolymer Coated Boron Powders. *Combustion Science and Technology*, **2020**, 1-16	1.5	10
43	Fe-based metallopolymer nanowall-based composites for Li-O2 battery cathode. *ACS Applied Materials & Interfaces*, **2014**, 6, 7164-70	9.5	9
42	Immobilization of plant polyphenol stabilized-Sn nanoparticles onto carbon nanotubes and their application in rechargeable lithium ion batteries. *RSC Advances*, **2013**, 3, 5310	3.7	9
41	Nanothermite composites with a novel cast curable fluoropolymer. *Chemical Engineering Journal*, **2021**, 414, 128786	14.7	9
40	Anomalous Behavior of Anion Exchange Membrane during Operation of a Vanadium Redox Flow Battery. *ACS Applied Energy Materials*, **2019**, 2, 1712-1719	6.1	9

39	Controlled synthesis of Ag/Ag/C hybrid nanostructures and their surface-enhanced Raman scattering properties. *Chemistry - A European Journal*, **2011**, 17, 13386-90	4.8	8
38	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	2.5	8
37	The ferroelectric□antiferroelectric transition in Pb[Zr0.9(CexTi1−x)0.1]O3 due to Ce4+ doping. *Solid State Communications*, **2003**, 125, 297-300	1.6	8
36	Critical cooling rates of glass formation in Mg-based Mg-Ni-Nd alloys. *Journal of Materials Science Letters*, **1995**, 14, 988-990		8
35	Combustion of fluoropolymer coated Al and Al□Mg alloy powders. *Combustion and Flame*, **2020**, 220, 394-406	5.3	8
34	Cosintering of a Bimodal Pore Distribution Layered Structure: Constitutive Models and Experiments. *Journal of the American Ceramic Society*, **2011**, 94, 1528-1535	3.8	7
33	Densification of porous 8 mol% yttria-stabilized zirconia component: modelling and experimental studies. *Journal of Materials Science*, **2010**, 45, 575-581	4.3	7
32	High thermal conductivity ceramic layered system substrates for microelectronic applications. *Journal of Materials Science: Materials in Electronics*, **2002**, 13, 461-464	2.1	7
31	3-Amino-1,2,4(4H)-oxadiazol-5-one (AOD) and its nitrogen-rich salts: a class of insensitive energetic materials. *New Journal of Chemistry*, **2018**, 42, 1840-1844	3.6	5
30	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	2.5	5
29	Waste Thermal Energy Harvesting (II): Pyroelectric Effect and Others. *Lecture Notes in Energy*, **2014**, 405-480	0.4	5
28	Multiple doped ZnO with enhanced thermoelectric properties. *Journal of the European Ceramic Society*, **2021**, 41, 4182-4188	6	5
27	Lithium-Ion Batteries: Ultrahigh Rate Capabilities of Lithium-Ion Batteries from 3D Ordered Hierarchically Porous Electrodes with Entrapped Active Nanoparticles Configuration (Adv. Mater. 8/2014). *Advanced Materials*, **2014**, 26, 1295-1295	24	4
26	Improved thermal properties of Al powders coated with submicron-sized hollow nickel particles. *Journal of Materials Research*, **2009**, 24, 3220-3225	2.5	4
25	A Study on the Electrodeposition Behavior of Cobalt Antimonides in Citric Based Solutions. *Solid State Phenomena*, **2008**, 136, 75-82	0.4	4
24	Waste Mechanical Energy Harvesting (II): Nanopiezoelectric Effect. *Lecture Notes in Energy*, **2014**, 135-262	2.4	4
23	Reactivity of Al/CuO Nanothermite Composites with Fluoropolymers. *Combustion Science and Technology*, **2020**, 1-17	1.5	4
22	Enhancement of electrochemical properties of Ca3Co4O9 as anode materials for lithium-ion batteries by transition metal doping. *Ionics*, **2017**, 23, 395-403	2.7	3

21	Improvement of electrochemical properties of Ca3Co4O9 as anode materials for lithium-ion batteries by Cr doping. *Journal of Solid State Electrochemistry*, **2015**, 19, 1197-1202	2.6	3
20	Making Graphene Bread□A Leavening Strategy to Prepare Reduced Graphene Oxide Foams (Adv. Mater. 30/2012). *Advanced Materials*, **2012**, 24, 4143-4143	24	3
19	Synthesis of sub-micron nickel particles coated onto aluminum powders via a modified polyol process. *Metals and Materials International*, **2008**, 14, 583-587	2.4	3
18	Decomposition and Energy-Enhancement Mechanism of the Energetic Binder Glycidyl Azide Polymer at Explosive Detonation Temperatures. *Journal of Physical Chemistry A*, **2020**, 124, 5542-5554	2.8	3
17	Waste Thermal Energy Harvesting (I): Thermoelectric Effect. *Lecture Notes in Energy*, **2014**, 263-403	0.4	2
16	Sign changes of seebeck coefficients due to extrinsic-to-intrinsic transition for PbTe nanocrystals. *World Journal of Engineering*, **2012**, 9, 391-398	1.8	2
15	Microstructural Features of Solid-State Diffusion Bonded Incoloy MA 956. *Materials and Manufacturing Processes*, **2003**, 18, 599-608	4.1	2
14	XPS and Sims Studies of CVD-GROWN Cubic SiC Films on Si(100). *Materials Research Society Symposia Proceedings*, **1994**, 339, 411		2
13	Combustion Studies of 4-Nitramino-1,2,4-Triazole (4-NRTZ) and Its Salts: High Impulse Nitrogenous Fuels for Propellant Composite Materials. *ChemistrySelect*, **2018**, 3, 12544-12551	1.8	2
12	Theoretical studies on the structures, material properties, and IR spectra of polymorphs of 3,4-bis(1H-5-tetrazolyl)furoxan. *Journal of Molecular Modeling*, **2019**, 25, 51	2	1
11	Waste Thermal Energy Harvesting (III): Storage with Phase Change Materials. *Lecture Notes in Energy*, **2014**, 481-592	0.4	1
10	Bulk and interfacial effects in Co-Cr2O3 nanocomposites. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 2700-3	1.3	1
9	Effects of Co:Sb Molar Ratio on Synthesis and Properties of Undoped CoSb3 Prepared via a Polyol Method. *Journal of Electronic Materials*, **2010**, 39, 1543-1548	1.9	1
8	Sol-Gel Derived PZT Thick Films with Nano-Sized Microstructure. *Materials Research Society Symposia Proceedings*, **2002**, 748, 1		1
7	Improved densification and thermoelectric performance of In5SnSbO12 via Ga doping. *Journal of Materials Science*, **2018**, 53, 6741-6751	4.3	0
6	Gas flow induced by ultrasonic cavitation bubble clouds and surface capillary wave. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 1042-6	3.2	0
5	Accurate machine learning models based on small dataset of energetic materials through spatial matrix featurization methods. *Journal of Energy Chemistry*, **2021**, 63, 364-364	12	0
4	Synthesis and characterization of a novel azido fluoroalkyl oligoether energetic plasticizer. *Journal of Materials Research*,1	2.5	0

List of Publications

3	Synthesis of Nano-Sized Co-Sb Compounds through Solvothermal Routes. *Solid State Phenomena*, **2008**, 136, 57-62	0.4
2	PRODUCTION AND GRAIN STABILITY OF NANOCRYSTALLINE Fe-Si POWDERS AND THE EFFECTS OF ALUMINIUM ADDITION. *International Journal of Nanoscience*, **2005**, 04, 667-676	0.6
1	Synthesis of PbTe Nanowires with Enhanced Seebeck Coefficient. *Ceramic Transactions*,147-153	0.1