

Kaili Zhang

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158
papers

8,401
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50
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88
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167
ext. papers

9,931
ext. citations

8.6
avg, IF

6.44
L-index

#	Paper	IF	Citations
158	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. <i>Progress in Materials Science</i> , 2014 , 60, 208-337	42.2	852
157	Nanoenergetic Materials for MEMS: A Review. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 919-931	9.3	354
156	Development of micro power generators [A review]. <i>Applied Energy</i> , 2011 , 88, 1-16	10.7	271
155	A hydrolysis-hydrothermal route for the synthesis of ultrathin LiAlO ₂ -inlaid LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ as a high-performance cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 894-904	13	251
154	Three-dimensional hierarchical Co ₃ O ₄ /CuO nanowire heterostructure arrays on nickel foam for high-performance lithium ion batteries. <i>Nano Energy</i> , 2014 , 6, 19-26	17.1	206
153	Nanostructured energetic composites: synthesis, ignition/combustion modeling, and applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3058-74	9.5	202
152	Smart construction of three-dimensional hierarchical tubular transition metal oxide core/shell heterostructures with high-capacity and long-cycle-life lithium storage. <i>Nano Energy</i> , 2015 , 12, 437-446	17.1	200
151	Anion and cation substitution in transition-metal oxides nanosheets for high-performance hybrid supercapacitors. <i>Nano Energy</i> , 2019 , 57, 22-33	17.1	193
150	Hierarchical Mesoporous Zinc-Nickel-Cobalt Ternary Oxide Nanowire Arrays on Nickel Foam as High-Performance Electrodes for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26512-21	9.5	189
149	Lithiophilic Cu-CuO-Ni Hybrid Structure: Advanced Current Collectors Toward Stable Lithium Metal Anodes. <i>Advanced Materials</i> , 2018 , 30, 1705830	24	176
148	Design and understanding of dendritic mixed-metal hydroxide nanosheets@N-doped carbon nanotube array electrode for high-performance asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2019 , 16, 632-645	19.4	170
147	Facile general strategy toward hierarchical mesoporous transition metal oxides arrays on three-dimensional macroporous foam with superior lithium storage properties. <i>Nano Energy</i> , 2015 , 13, 77-91	17.1	154
146	A facile method to improve the high rate capability of Co ₃ O ₄ nanowire array electrodes. <i>Nano Research</i> , 2010 , 3, 895-901	10	153
145	High-performance hybrid supercapacitors based on self-supported 3D ultrathin porous quaternary Zn-Ni-Al-Co oxide nanosheets. <i>Nano Energy</i> , 2016 , 28, 475-485	17.1	143
144	An Aqueous Zn-Ion Hybrid Supercapacitor with High Energy Density and Ultrastability up to 80 000 Cycles. <i>Advanced Energy Materials</i> , 2019 , 9, 1902915	21.8	137
143	A Nano Initiator Realized by Integrating Al/CuO-Based Nanoenergetic Materials With a Au/Pt/Cr Microheater. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 832-836	2.5	133
142	Robust erythrocyte-like Fe ₂ O ₃ @carbon with yolk-shell structures as high-performance anode for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 347, 563-573	14.7	131

141	Sulfur impregnated N, P co-doped hierarchical porous carbon as cathode for high performance Li-S batteries. <i>Journal of Power Sources</i> , 2017 , 341, 165-174	8.9	125
140	Direct growth of urchin-like ZnCo ₂ O ₄ microspheres assembled from nanowires on nickel foam as high-performance electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2015 , 169, 202-209	6.7	120
139	Approaching the ideal elastic strain limit in silicon nanowires. <i>Science Advances</i> , 2016 , 2, e1501382	14.3	116
138	Synthesis of large-area and aligned copper oxide nanowires from copper thin film on silicon substrate. <i>Nanotechnology</i> , 2007 , 18, 275607	3.4	114
137	Development of a nano-Al ₂ O ₃ /CuO based energetic material on silicon substrate. <i>Applied Physics Letters</i> , 2007 , 91, 113117	3.4	102
136	Polyvinylpyrrolidone-Induced Uniform Surface-Conductive Polymer Coating Endows Ni-Rich LiNiCoMnO with Enhanced Cyclability for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12594-12604	9.5	94
135	Fast response resistive humidity sensitivity of polyimide/multiwall carbon nanotube composite films. <i>Sensors and Actuators B: Chemical</i> , 2011 , 152, 99-106	8.5	94
134	A MEMS-based solid propellant microthruster with Au/Ti igniter. <i>Sensors and Actuators A: Physical</i> , 2005 , 122, 113-123	3.9	94
133	Interfacial intermetallic growth and mechanical properties of carbon nanotubes reinforced Sn _{3.5} Ag _{0.5} Cu solder joint under current stressing. <i>Journal of Alloys and Compounds</i> , 2014 , 595, 92-102	5.7	89
132	Fabrication of plate-like MnO ₂ with excellent cycle stability for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2018 , 291, 249-255	6.7	89
131	Facile large-scale synthesis of vertically aligned CuO nanowires on nickel foam: growth mechanism and remarkable electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3865	13	87
130	Hybrid Reduced Graphene Oxide Nanosheet Supported Mn-Ni-Co Ternary Oxides for Aqueous Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19114-19123	9.5	81
129	Heat transfer and entropy generation analyses in a channel partially filled with porous media using local thermal non-equilibrium model. <i>Energy</i> , 2015 , 82, 922-938	7.9	76
128	Integration of nano-Al with Co ₃ O ₄ nanorods to realize high-exothermic core-shell nanoenergetic materials on a silicon substrate. <i>Combustion and Flame</i> , 2012 , 159, 2202-2209	5.3	74
127	Fabrication and understanding of CuSi-Si@carbon@graphene nanocomposites as high-performance anodes for lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 22203-22214	7.7	72
126	Seed-assisted smart construction of high mass loading NiCoMn hydroxide nanoflakes for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16776-16785	13	69
125	Activated Microporous Carbon Derived from Almond Shells for High Energy Density Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15288-96	9.5	68
124	Theoretical study on photocatalytic oxidation of VOCs using nano-TiO ₂ photocatalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 188, 65-73	4.7	68

123	Mesoporous ZnCo ₂ O ₄ microspheres composed of ultrathin nanosheets cross-linked with metallic NiSix nanowires on Ni foam as anodes for lithium ion batteries. <i>Nano Energy</i> , 2014 , 10, 245-258	17.1	66
122	Effect of graphene doping on microstructural and mechanical properties of Sn ₈ Zn ₈ Bi solder joints together with electromigration analysis. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 162-171	5.7	66
121	A comparative study of longitudinal fins of rectangular, trapezoidal and concave parabolic profiles with multiple nonlinearities. <i>Energy</i> , 2013 , 51, 243-256	7.9	62
120	Fabrication, modeling and testing of a thin film Au/Ti microheater. <i>International Journal of Thermal Sciences</i> , 2007 , 46, 580-588	4.1	62
119	Highly exothermic and superhydrophobic Mg/fluorocarbon core/shell nanoenergetic arrays. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10497-505	9.5	61
118	Core-Shell Structured Nanoenergetic Materials: Preparation and Fundamental Properties. <i>Advanced Materials</i> , 2020 , 32, e2001291	24	57
117	Development of a low-temperature co-fired ceramic solid propellant microthruster. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 944-952	2	55
116	Surface-Engineered Black Niobium Oxide@Graphene Nanosheets for High-Performance Sodium-/Potassium-Ion Full Batteries. <i>Small</i> , 2019 , 15, e1901272	11	54
115	Templated and Catalytic Fabrication of N-Doped Hierarchical Porous Carbon-Carbon Nanotube Hybrids as Host for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33876-33886	9.5	54
114	3D hierarchically porous zinc/nickel/cobalt oxide nanosheets grown on Ni foam as binder-free electrodes for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24022-24032	13	53
113	Growth of hierarchical 3D mesoporous NiSix /NiCo ₂ O ₄ core/shell heterostructures on nickel foam for lithium-ion batteries. <i>ChemSusChem</i> , 2014 , 7, 2325-34	8.3	53
112	Integrating Al with NiO nano honeycomb to realize an energetic material on silicon substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 957-962	2.6	53
111	High-performance lithium-rich layered oxide materials: Effects of chelating agents on microstructure and electrochemical properties. <i>Electrochimica Acta</i> , 2015 , 174, 446-455	6.7	51
110	Entropy generation in thermal systems with solid structures – A concise review. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 917-931	4.9	51
109	Effect of nanostructures on the exothermic reaction and ignition of Al/CuOx based energetic materials. <i>Journal of Materials Science</i> , 2012 , 47, 1296-1305	4.3	51
108	Characterization and electrochemical performance of lithium-active titanium dioxide inlaid LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ material prepared by lithium residue-assisted method. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 77-82	5.7	49
107	Heat transfer and second law analyses of forced convection in a channel partially filled by porous media and featuring internal heat sources. <i>Energy</i> , 2015 , 93, 106-127	7.9	49
106	Generation of entropy and forced convection of heat in a conduit partially filled with porous media – Local thermal non-equilibrium and exothermicity effects. <i>Applied Thermal Engineering</i> , 2016 , 106, 518-536	5.8	48

105	Nitrogen-Doped Sponge Ni Fibers as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Nano-Micro Letters</i> , 2019 , 11, 21	19.5	46
104	Oxygen redox activity with small voltage hysteresis in Na _{0.67} Cu _{0.28} Mn _{0.72} O ₂ for sodium-ion batteries. <i>Energy Storage Materials</i> , 2020 , 28, 300-306	19.4	46
103	Improved lithium ion battery performance by mesoporous Co ₃ O ₄ nanosheets grown on self-standing NiSix nanowires on nickel foam. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8483	13	46
102	CuO/Mg/fluorocarbon sandwich-structure superhydrophobic nanoenergetic composite with anti-humidity property. <i>Chemical Engineering Journal</i> , 2015 , 266, 163-170	14.7	46
101	Development of a solid propellant microthruster with chamber and nozzle etched on a wafer surface. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 785-792	2	45
100	Facile green in situ synthesis of Mg/CuO core/shell nanoenergetic arrays with a superior heat-release property and long-term storage stability. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7641-6	9.5	44
99	Local and CMOS-compatible synthesis of CuO nanowires on a suspended microheater on a silicon substrate. <i>Nanotechnology</i> , 2010 , 21, 235602	3.4	44
98	Hierarchical Porous Acetylene Black/ZnFe ₂ O ₄ @Carbon Hybrid Materials with High Capacity and Robust Cycling Performance for Li-ion Batteries. <i>Electrochimica Acta</i> , 2016 , 187, 584-592	6.7	42
97	Convective-radiative radial fins with convective base heating and convective-radiative tip cooling: Homogeneous and functionally graded materials. <i>Energy Conversion and Management</i> , 2013 , 74, 366-376	10.6	42
96	Sputtering graphite coating to improve the elevated-temperature cycling ability of the LiMn ₂ O ₄ electrode. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16021-9	3.6	41
95	Converting Corncob to Activated Porous Carbon for Supercapacitor Application. <i>Nanomaterials</i> , 2018 , 8,	5.4	40
94	MEMS-based solid propellant microthruster design, simulation, fabrication, and testing. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 165-175	2.5	40
93	Sub 30 nm silver nanowire synthesized using KBr as co-nucleant through one-pot polyol method for optoelectronic applications. <i>Organic Electronics</i> , 2015 , 26, 380-385	3.5	39
92	A graphite functional layer covering the surface of LiMn ₂ O ₄ electrode to improve its electrochemical performance. <i>Electrochemistry Communications</i> , 2013 , 36, 6-9	5.1	38
91	Mesoporous aluminium manganese cobalt oxide with pentahedron structures for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18417-18427	13	36
90	Effects of nano-Ag on the combustion process of Al-TiO ₂ metastable intermolecular composite. <i>Applied Thermal Engineering</i> , 2014 , 62, 732-737	5.8	36
89	Facile synthesis, growth mechanism and reversible superhydrophobic and superhydrophilic properties of non-flaking CuO nanowires grown from porous copper substrates. <i>Nanotechnology</i> , 2013 , 24, 065602	3.4	36
88	Fast deflagration to detonation transition of energetic material based on a quasi-core/shell structured nanothermite composite. <i>Composites Science and Technology</i> , 2015 , 107, 113-119	8.6	36

87	In situ preparation of explosive embedded CuO/Al/CL20 nanoenergetic composite with enhanced reactivity. <i>Chemical Engineering Journal</i> , 2018 , 354, 885-895	14.7	35
86	Precise determination of the threshold diameter for a single-walled carbon nanotube to collapse. <i>ACS Nano</i> , 2014 , 8, 9657-63	16.7	35
85	Temperature distribution, local and total entropy generation analyses in MHD porous channels with thick walls. <i>Energy</i> , 2015 , 87, 540-554	7.9	33
84	Turning indium oxide into high-performing electrode materials via cation substitution strategy: Preserving single crystalline cubic structure of 2D nanoflakes towards energy storage devices. <i>Journal of Power Sources</i> , 2020 , 480, 228873	8.9	33
83	A Scalable Approach for Dendrite-Free Alkali Metal Anodes via Room-Temperature Facile Surface Fluorination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4962-4968	9.5	32
82	Formation mechanism of overlapping grain boundaries in graphene chemical vapor deposition growth. <i>Chemical Science</i> , 2017 , 8, 2209-2214	9.4	31
81	In situ synthesis of CuO and Cu nanostructures with promising electrochemical and wettability properties. <i>Small</i> , 2014 , 10, 935-43	11	30
80	Pressure loss and compensation in the combustion process of Al/CuO nanoenergetics on a microheater chip. <i>Combustion and Flame</i> , 2014 , 161, 2975-2981	5.3	29
79	Development of vertically aligned trimetallic Mg-Ni-Co oxide grass-like nanostructure for high-performance energy storage applications. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 782-792	9.3	29
78	Theoretical and experimental studies of impacts of heat shields on heat pipe evacuated tube solar collector. <i>Renewable Energy</i> , 2019 , 138, 999-1009	8.1	28
77	Graphene-Encapsulated Nanosheet-Assembled Zinc-Nickel-Cobalt Oxide Microspheres for Enhanced Lithium Storage. <i>ChemSusChem</i> , 2016 , 9, 186-96	8.3	28
76	An oriented NiCo-MOF anchored on solution-free 1D CuO: a p/n heterojunction for supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17790-17800	13	28
75	Classical entropy generation analysis in cooled homogenous and functionally graded material slabs with variation of internal heat generation with temperature, and convective/radiative boundary conditions. <i>Energy</i> , 2014 , 65, 387-397	7.9	26
74	Synthesis of NiO nanowalls by thermal treatment of Ni film deposited onto a stainless steel substrate. <i>Nanotechnology</i> , 2008 , 19, 155605	3.4	26
73	Investigation on the ignition of a MEMS solid propellant microthruster before propellant combustion. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 322-332	2	24
72	Integration of CuO nanosheets to Zn-Ni-Co oxide nanowire arrays for energy storage applications. <i>Chemical Engineering Journal</i> , 2021 , 413, 127570	14.7	24
71	Heat transfer and thermodynamic performance of convective/radiative cooling double layer walls with temperature-dependent thermal conductivity and internal heat generation. <i>Energy Conversion and Management</i> , 2015 , 89, 12-23	10.6	22
70	Lithiophilicity conversion of the Cu surface through facile thermal oxidation: boosting a stable Li/Cu composite anode through melt infusion. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5726-5732	13	22

69	Self-conversion templated fabrication of sulfur encapsulated inside the N-doped hollow carbon sphere and 3D graphene frameworks for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2019 , 295, 900-909	6.7	22
68	Boron-Doped Trimetallic Cu-Ni-Co Oxide Nanoneedles for Supercapacitor Application. <i>ACS Applied Nano Materials</i> , 2021 , 4, 129-141	5.6	22
67	Defect-engineered vanadium trioxide nanofiber bundle@graphene hybrids for high-performance all-vanadate Na-ion and K-ion full batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19581-19588	13	21
66	Performance Prediction of a Novel Solid-Propellant Microthruster. <i>Journal of Propulsion and Power</i> , 2006 , 22, 56-63	1.8	21
65	Redox of Dual-Radical Intermediates in a Methylene-Linked Covalent Triazine Framework for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 514-521	9.5	20
64	Effects of lithium-active manganese trioxide coating on the structural and electrochemical characteristics of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ as cathode materials for lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 684-691	5.7	19
63	Temperature distribution and classical entropy generation analyses in an asymmetric cooling composite hollow cylinder with temperature-dependent thermal conductivity and internal heat generation. <i>Energy</i> , 2014 , 73, 484-496	7.9	18
62	Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation. <i>Journal of Power Sources</i> , 2021 , 513, 230556	8.9	18
61	Stabilizing the oxygen lattice and reversible oxygen redox in Na-deficient cathode oxides. <i>Journal of Power Sources</i> , 2019 , 439, 227086	8.9	17
60	Energetic composites based on nano-Al and energetic coordination polymers (ECPs): The Father-son Effect of ECPs. <i>Chemical Engineering Journal</i> , 2020 , 392, 123719	14.7	16
59	Nanoforest of hierarchical core/shell CuO@NiCo ₂ O ₄ nanowire heterostructure arrays on nickel foam for high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 63905-63914	3.7	15
58	Multi-dimensional dual-phase-lag heat conduction in cylindrical coordinates: Analytical and numerical solutions. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 960-966	4.9	13
57	An extremely superhydrophobic and intrinsically stable Si/fluorocarbon energetic composite based on upright nano/submicron-sized Si wire arrays. <i>RSC Advances</i> , 2015 , 5, 106098-106106	3.7	13
56	High entropy alloys as electrode material for supercapacitors: A review. <i>Journal of Energy Storage</i> , 2021 , 44, 103405	7.8	13
55	Temperature and Entropy Generation Analyses Between and Inside Rotating Cylinders Using Copper-Water Nanofluid. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	12
54	Controlled facile synthesis, growth mechanism, and exothermic properties of large-area Co ₃ O ₄ nanowalls and nanowires on silicon substrates. <i>Journal of Applied Physics</i> , 2012 , 112, 014310	2.5	12
53	Temperature distribution, local and total entropy generation analyses in asymmetric cooling composite geometries with multiple nonlinearities: Effect of imperfect thermal contact. <i>Energy</i> , 2014 , 78, 218-234	7.9	11
52	Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices. <i>Applied Materials Today</i> , 2022 , 26, 101297	6.6	11

51	Dilute Aqueous-Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering. <i>Advanced Materials</i> , 2021 , 33, e2102390	24	11
50	Aligned three-dimensional prismatic magnesium nanostructures realized onto silicon substrate. <i>Applied Physics Letters</i> , 2008 , 92, 063123	3.4	10
49	Fluorinated Carbonate Electrolyte with Superior Oxidative Stability Enables Long-Term Cycle Stability of Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ Cathodes in Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002737	21.8	10
48	ZnO-MOF on solution-free CuO nanowires for flexible hybrid energy storage devices. <i>Materials Today Physics</i> , 2022 , 23, 100655	8	10
47	Effects of different types of defects on ignition mechanisms in shocked 1,3-dicyclopentamethylene tetranitramine crystals: A molecular dynamics study based on ReaxFF-ig force field. <i>Journal of Applied Physics</i> , 2019 , 125, 195101	2.5	9
46	Analytical solution for transient temperature and thermal stresses within convective multilayer disks with time-dependent internal heat generation, Part I: Methodology. <i>Journal of Thermal Stresses</i> , 2016 , 39, 398-413	2.2	9
45	Highly stable 3D hierarchical manganese sulfide multi-layer nanoflakes with excellent electrochemical performances for supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162390	5.7	9
44	First and second thermodynamic laws analyses between and inside two rotating solid cylindrical geometries with magnetohydrodynamic flow. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 760-769	4.9	8
43	In Situ Synthesized MEMS Compatible Energetic Arrays Based on Energetic Coordination Polymer and Nano-Al with Tunable Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30740-30749	9.5	8
42	Research progress and future aspects: Metal selenides as effective electrodes. <i>Energy Storage Materials</i> , 2022 , 47, 13-43	19.4	8
41	Recent advances in oriented metal-organic frameworks for supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> ,	13	8
40	Phosphorus containing layered quadruple hydroxide electrode materials on lab waste recycled flexible current collector. <i>Journal of Colloid and Interface Science</i> , 2021 , 609, 566-566	9.3	8
39	Yolk-shell structured metal oxide@carbon nanoring anode boosting performance of lithium-ion batteries. <i>New Journal of Chemistry</i> , 2019 , 43, 16148-16155	3.6	7
38	Study of microstructure evolution in novel Sn ₂ N/Cu bi-layer and Cu/Sn ₂ N/Cu sandwich structures with nanoscale thickness for 3D packaging interconnection. <i>Microelectronic Engineering</i> , 2014 , 122, 52-58	5	7
37	Si Wire Supported MnO/Al/Fluorocarbon 3D Core/Shell Nanoenergetic Arrays with Long-Term Storage Stability. <i>Scientific Reports</i> , 2017 , 7, 6678	4.9	7
36	Hydrogenation of bilayer graphene: A small twist makes a big difference. <i>Nano Research</i> , 2015 , 8, 3887-3897	7	
35	Multi-physics system modeling of a pneumatic micro actuator. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 489-498	3.9	7
34	Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance. <i>Coordination Chemistry Reviews</i> , 2022 , 458, 214429	23.2	7

33	Exploring the solid-state interfacial reaction of Al/Fe ₂ O ₃ nanothermites by thermal analysis. <i>Journal of Materials Science</i> , 2019 , 54, 4115-4123	4.3	7
32	Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries.. <i>Small Methods</i> , 2021 , 5, e2100580	12.8	6
31	Comparison study of carbon clusters formation during thermal decomposition of 1,3,5-triamino-2,4,6-trinitrobenzene and benzotrifuroxan: a ReaxFF based sequential molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5154-5162	3.6	5
30	Controlling the size of silver nanowires through one-pot polyol method with trace halide and its effect on kinetic process. <i>Materials Research Express</i> , 2017 , 4, 075052	1.7	5
29	Solar Hydrogen Generation from Water Splitting Using ZnO/CuO Hetero Nanostructures. <i>Energy Procedia</i> , 2014 , 61, 345-348	2.3	5
28	Modified KBBF-like Material for Energy Storage Applications: ZnNiBO(OH) with Enhanced Cycle Life.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	5
27	Analytical solution for transient temperature and thermal stresses within convective multilayer disks with time-dependent internal heat generation, Part II: Applications. <i>Journal of Thermal Stresses</i> , 2016 , 39, 414-436	2.2	5
26	Additive-Free Energetic Film Based on Graphene Oxide and Nanoscale Energetic Coordination Polymer for Transient Microchip. <i>Advanced Functional Materials</i> , 2021 , 31, 2103199	15.6	5
25	Preparation of Cyclotrimethylenetrinitramine-Copper Oxide Core-Shell Particles and Their Thermal Decomposition Kinetics. <i>Propellants, Explosives, Pyrotechnics</i> , 2019 , 44, 1368-1374	1.7	4
24	Realization of aligned three-dimensional single-crystal chromium nanostructures by thermal evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 1049-1055	2.6	4
23	NiO nanostructured honeycomb realized by annealing Ni film deposited on silicon. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5903-7	1.3	4
22	Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 7810-7813	5.8	4
21	Comparative study of ternary metal chalcogenides (MX; M= ZnCoNi; X= S, Se, Te): Formation process, charge storage mechanism and hybrid supercapacitor. <i>Journal of Power Sources</i> , 2022 , 534, 231414	8.9	4
20	Comment on Series solution of convective radiative conduction equation of the nonlinear fin with temperature dependent thermal conductivity by Sobhan Mosayebidorcheh and Taha Mosayebidorcheh, [Int. J. Heat Mass Transfer] 55 (2012) 6589-6594. <i>International Journal of Heat</i>	4.9	3
19	Entropy Generation Analysis in Convective-radiative Cooling Composite Walls with Temperature-dependent Thermal Conductivity and Internal Heat Generation. <i>Energy Procedia</i> , 2014 , 61, 463-467	2.3	3
18	CuO nanowires grown from Cu film heated under a N ₂ /O ₂ flow. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1418-22	1.3	3
17	Lithiophilicity conversion of carbon paper with uniform Cu ₂ O coating: Boosting stable Li-Cu ₂ O-CP composite anode through melting infusion. <i>Chemical Engineering Journal</i> , 2020 , 388, 124238	14.7	2
16	Thermoelastic analysis for freestanding micro-hotplates for micro/nano gas sensors 2013 ,		2

15	A wireless addressing interface circuitry for microthruster array applications. <i>Aircraft Engineering and Aerospace Technology</i> , 2007 , 79, 628-634	5	2
14	Graphene oxide induced nanoscale energetic coordination polymer with self-sustaining combustion ability. <i>Energetic Materials Frontiers</i> , 2020 , 1, 51-58	3.3	2
13	Coupling a Three-Dimensional Nanopillar and Robust Film to Guide Li-Ion Flux for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45416-45425	9.5	2
12	Synthesis of CuO nanowires from porous copper with promising application for nanoenergetic materials 2013 ,		1
11	Micro/Nano Functional Manufacturing: From Microthruster to Nano Energetic Material to Micro/Nano Initiator. <i>Key Engineering Materials</i> , 2010 , 426-427, 240-244	0.4	1
10	Study of formaldehyde photocatalytic degradation using nano TiO ₂ 2007 ,		1
9	Oxidation State as a Descriptor in Oxygen Reduction Electrocatalysis. <i>CCS Chemistry</i> , 1-12	7.2	1
8	Revealing the catalytic pathway of a quinone-mediated oxygen reduction reaction in aprotic Li-O batteries.. <i>Chemical Communications</i> , 2021 ,	5.8	1
7	Reaction violence difference revealed by reactive molecular dynamics: Comparison of the thermal decomposition of hexahydro-1, 3, 5-trinitro-1, 3, 5-triazine and benzotrifuroxan. <i>Chemical Physics Letters</i> , 2020 , 739, 136861	2.5	1
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4	Glycerol-mediated synthesis of copper-doped zinc sulfide with ultrathin nanoflakes for flexible energy electrode materials. <i>Journal of Alloys and Compounds</i> , 2022 , 165701	5.7	1
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