Pooi See Lee

List of Publications by Year
in descending order

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403 papers	31,772 citations	2669 95 h-index	5227 165 g-index
418 all docs	418 docs citations	418 times ranked	31150 citing authors

#	Article	IF	Citations
1	3D carbon based nanostructures for advanced supercapacitors. Energy and Environmental Science, 2013, 6, 41-53.	15.6	1,389
2	Highly Stretchable Piezoresistive Grapheneâ€“Nanocellulose Nanopaper for Strain Sensors. Advanced Materials, 2014, 26, 2022-2027.	11.1	1,009
3	Extremely Stretchable Strain Sensors Based on Conductive Selfâ€Healing Dynamic Crossâ€Links Hydrogels for Humanâ€Motion Detection. Advanced Science, 2017, 4, 1600190.	5.6	728
4	Hybrid Materials and Polymer Electrolytes for Electrochromic Device Applications. Advanced Materials, 2012, 24, 4071-4096.	11.1	672
5	Recent progress in layered transition metal carbides and/or nitrides (MXenes) and their composites: synthesis and applications. Journal of Materials Chemistry A, 2017, 5, 3039-3068.	5.2	625
6	Large Areal Mass, Flexible and Freeâ€Standing Reduced Graphene Oxide/Manganese Dioxide Paper for Asymmetric Supercapacitor Device. Advanced Materials, 2013, 25, 2809-2815.	11.1	562
7	Facile Coating of Manganese Oxide on Tin Oxide Nanowires with High-Performance Capacitive Behavior. ACS Nano, 2010, 4, 4247-4255.	7.3	518
8	Next-Generation Multifunctional Electrochromic Devices. Accounts of Chemical Research, 2016, 49, 1469-1476.	7.6	516
9	Skin-touch-actuated textile-based triboelectric nanogenerator with black phosphorus for durable biomechanical energy harvesting. Nature Communications, 2018, 9, 4280.	5.8	433
10	Rational Design of MnO/Carbon Nanopeapods with Internal Void Space for High-Rate and Long-Life Li-Ion Batteries. ACS Nano, 2014, 8, 6038-6046.	7.3	420
11	Enhancing electrochemical reaction sites in nickelâ€“cobalt layered double hydroxides on zinc tin oxide nanowires: a hybrid material for an asymmetric supercapacitor device. Nanoscale, 2012, 4, 7266.	2.8	409
12	Synthesis, Assembly, and Electrochromic Properties of Uniform Crystalline WO₃ Nanorods. Journal of Physical Chemistry C, 2008, 112, 14306-14312.	1.5	404
13	Stretchable and Wearable Electrochromic Devices. ACS Nano, 2014, 8, 316-322.	7.3	399
14	Highly Stable Transparent Conductive Silver Grid/PEDOT:PSS Electrodes for Integrated Bifunctional Flexible Electrochromic Supercapacitors. Advanced Energy Materials, 2016, 6, 1501882.	10.2	391
15	Smart Windows: Electroâ€, Thermoâ€, Mechanoâ€, Photochromics, and Beyond. Advanced Energy Materials, 2019, 9, 1902066.	10.2	383
16	Electrochromo-supercapacitor based on direct growth of NiO nanoparticles. Nano Energy, 2015, 12, 258-267.	8.2	360
17	Dodecyl sulfate-induced fast faradic process in nickel cobalt oxideâ€“reduced graphite oxide composite material and its application for asymmetric supercapacitor device. Journal of Materials Chemistry, 2012, 22, 23114.	6.7	338
18	Polydopamine Spheres as Active Templates for Convenient Synthesis of Various Nanostructures. Small, 2013, 9, 596-603.	5.2	323

#	Article	IF	Citations
19	Highly Transparent, Stretchable, and Selfâ€Healing Ionicâ€Skin Triboelectric Nanogenerators for Energy Harvesting and Touch Applications. Advanced Materials, 2017, 29, 1702181.	11.1	322
20	Highâ€“rate electrochemical capacitors from highly graphitic carbonâ€“tipped manganese oxide/mesoporous carbon/manganese oxide hybrid nanowires. Energy and Environmental Science, 2011, 4, 1813.	15.6	315
21	Extremely stretchable and self-healing conductor based on thermoplastic elastomer for all-three-dimensional printed triboelectric nanogenerator. Nature Communications, 2019, 10, 2158.	5.8	308
22	High performance porous nickel cobalt oxide nanowires for asymmetric supercapacitor. Nano Energy, 2014, 3, 119-126.	8.2	304
23	Nickel Cobalt Oxide-Single Wall Carbon Nanotube Composite Material for Superior Cycling Stability and High-Performance Supercapacitor Application. Journal of Physical Chemistry C, 2012, 116, 12448-12454.	1.5	295
24	Stretchable Graphene Thermistor with Tunable Thermal Index. ACS Nano, 2015, 9, 2130-2137.	7.3	293
25	Controlled Synthesis of WO₃ Nanorods and Their Electrochromic Properties in H₂SO₄ Electrolyte. Journal of Physical Chemistry C, 2009, 113, 9655-9658.	1.5	287
26	Enhanced Piezoelectric Energy Harvesting Performance of Flexible PVDF-TrFE Bilayer Films with Graphene Oxide. ACS Applied Materials & Interfaces, 2016, 8, 521-529.	4.0	284
27	Functional Fibers and Fabrics for Soft Robotics, Wearables, and Humanâ€“Robot Interface. Advanced Materials, 2021, 33, e2002640.	11.1	278
28	Flexible and Highly Scalable V₂O₅â€rGO Electrodes in an Organic Electrolyte for Supercapacitor Devices. Advanced Energy Materials, 2014, 4, 1400236.	10.2	276
29	Sulfidation of NiMnâ€Layered Double Hydroxides/Graphene Oxide Composites toward Supercapacitor Electrodes with Enhanced Performance. Advanced Energy Materials, 2016, 6, 1501745.	10.2	254
30	Rational Design of Nanostructured Electrode Materials toward Multifunctional Supercapacitors. Advanced Functional Materials, 2020, 30, 1902564.	7.8	252
31	Ultrahighâ€Performance Solarâ€Blind Photodetectors Based on Individual Singleâ€crystalline In₂Ge₂O₇ Nanobelts. Advanced Materials, 2010, 22, 5145-5149.	11.1	249
32	Inkjet Printed Large Area Multifunctional Smart Windows. Advanced Energy Materials, 2017, 7, 1602598.	10.2	239
33	Highly Stretchable and Selfâ€Deformable Alternating Current Electroluminescent Devices. Advanced Materials, 2015, 27, 2876-2882.	11.1	238
34	Wearable Allâ€Fabricâ€Based Triboelectric Generator for Water Energy Harvesting. Advanced Energy Materials, 2017, 7, 1701243.	10.2	220
35	Core-shell nanofiber mats for tactile pressure sensor and nanogenerator applications. Nano Energy, 2018, 44, 248-255.	8.2	216
36	Leaf-inspired multiresponsive MXene-based actuator for programmable smart devices. Science Advances, 2019, 5, eaaw7956.	4.7	213

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37	Metal Organic Frameworkâ€Derived Metal Phosphates as Electrode Materials for Supercapacitors. Advanced Energy Materials, 2016, 6, 1501833.	10.2	212
38	A Stretchable and Selfâ€Healing Energy Storage Device Based on Mechanically and Electrically Restorative Liquidâ€Metal Particles and Carboxylated Polyurethane Composites. Advanced Materials, 2019, 31, e1805536.	11.1	209
39	Printable Superelastic Conductors with Extreme Stretchability and Robust Cycling Endurance Enabled by Liquidâ€Metal Particles. Advanced Materials, 2018, 30, e1706157.	11.1	208
40	Self-Assembly-Induced Alternately Stacked Single-Layer MoS₂ and N-doped Graphene: A Novel van der Waals Heterostructure for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 2372-2379.	4.0	202
41	Ultra-large optical modulation of electrochromic porous WO₃film and the local monitoring of redox activity. Chemical Science, 2016, 7, 1373-1382.	3.7	198
42	Extremely Stretchable Electroluminescent Devices with Ionic Conductors. Advanced Materials, 2016, 28, 4490-4496.	11.1	193
43	Nonâ€Volatile Organic Memory Applications Enabled by In Situ Synthesis of Gold Nanoparticles in a Selfâ€Assembled Block Copolymer. Advanced Materials, 2008, 20, 2325-2331.	11.1	186
44	Surface functionalization of BaTiO3 nanoparticles and improved electrical properties of BaTiO3/polyvinylidene fluoride composite. RSC Advances, 2011, 1, 576.	1.7	177
45	Hexagonal Boron Nitride Thin Film for Flexible Resistive Memory Applications. Advanced Functional Materials, 2016, 26, 2176-2184.	7.8	167
46	Achieving High Rate Performance in Layered Hydroxide Supercapacitor Electrodes. Advanced Energy Materials, 2014, 4, 1301240.	10.2	166
47	Inorganicâ€“organic hybrid polymer with multiple redox for high-density data storage. Chemical Science, 2014, 5, 3404-3408.	3.7	164
48	An Intrinsically Stretchable Nanowire Photodetector with a Fully Embedded Structure. Advanced Materials, 2014, 26, 943-950.	11.1	163
49	Deformable conductors for humanâ€“machine interface. Materials Today, 2018, 21, 508-526.	8.3	163
50	Wide-bandgap Zn2GeO4 nanowire networks as efficient ultraviolet photodetectors with fast response and recovery time. Applied Physics Letters, 2010, 96, .	1.5	162
51	All 3D-printed stretchable piezoelectric nanogenerator with non-protruding kirigami structure. Nano Energy, 2020, 72, 104676.	8.2	161
52	Inkjet-printed all solid-state electrochromic devices based on NiO/WO₃ nanoparticle complementary electrodes. Nanoscale, 2016, 8, 348-357.	2.8	157
53	Novel polymer nanocomposites from bioinspired green aqueous functionalization of BNNTs. Polymer Chemistry, 2012, 3, 962.	1.9	155
54	Recent Advances in Flexible Electrochromic Devices: Prerequisites, Challenges, and Prospects. Energy Technology, 2018, 6, 33-45.	1.8	155

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55	A light-stimulated synaptic transistor with synaptic plasticity and memory functions based on InGaZnOxâ€“Al2O3 thin film structure. Journal of Applied Physics, 2016, 119, .	1.1	153
56	Progress on triboelectric nanogenerator with stretchability, self-healability and bio-compatibility. Nano Energy, 2019, 59, 237-257.	8.2	151
57	Orthorhombic niobium oxide nanowires for next generation hybrid supercapacitor device. Nano Energy, 2015, 11, 765-772.	8.2	149
58	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. Chemical Communications, 2015, 51, 3109-3112.	2.2	145
59	DNA Sensing by Field-Effect Transistors Based on Networks of Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 14427-14432.	6.6	144
60	Gold-Nanoparticle-Functionalized In₂O₃ Nanowires as CO Gas Sensors with a Significant Enhancement in Response. ACS Applied Materials & Interfaces, 2011, 3, 2246-2252.	4.0	144
61	Charging phenomena in pentacene-gold nanoparticle memory device. Applied Physics Letters, 2007, 90, 042906.	1.5	141
62	Green aqueous modification of fluoropolymers for energy storage applications. Journal of Materials Chemistry, 2012, 22, 5951.	6.7	141
63	Recent Progress in Artificial Muscles for Interactive Soft Robotics. Advanced Materials, 2021, 33, e2003088.	11.1	139
64	Ultrafast Laser Pulses Enable Oneâ€Step Graphene Patterning on Woods and Leaves for Green Electronics. Advanced Functional Materials, 2019, 29, 1902771.	7.8	138
65	Spin-Orbit Splitting in Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Revealed by Triply Resonant Raman Scattering. Physical Review Letters, 2013, 111, 126801.	2.9	137
66	Thin SnO₂ Nanowires with Uniform Diameter as Excellent Field Emitters: A Stability of More Than 2400 Minutes. Advanced Functional Materials, 2012, 22, 1613-1622.	7.8	134
67	Synthesis of In2O3â€“ZnO coreâ€“shell nanowires and their application in gas sensing. Sensors and Actuators B: Chemical, 2011, 160, 1346-1351.	4.0	133
68	V₂O₅ Loaded on SnO₂ Nanowires for Highâ€Rate Li Ion Batteries. Advanced Materials, 2011, 23, 746-750.	11.1	132
69	A Stretchable and Transparent Nanocomposite Nanogenerator for Self-Powered Physiological Monitoring. ACS Applied Materials & Interfaces, 2017, 9, 42200-42209.	4.0	131
70	NiMn layered double hydroxides as efficient electrocatalysts for the oxygen evolution reaction and their application in rechargeable Znâ€“air batteries. Nanoscale, 2017, 9, 774-780.	2.8	130
71	Carbon Coated Bimetallic Sulfide Hollow Nanocubes as Advanced Sodium Ion Battery Anode. Advanced Energy Materials, 2017, 7, 1700180.	10.2	130
72	Plasma Modified MoS₂ Nanoflakes for Surface Enhanced Raman Scattering. Small, 2014, 10, 1090-1095.	5.2	129

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73	Room temperature CO gas sensing using Zn-doped In2O3 single nanowire field effect transistors. Sensors and Actuators B: Chemical, 2010, 150, 19-24.	4.0	128
74	Stretchable Silverâ€Zinc Batteries Based on Embedded Nanowire Elastic Conductors. Advanced Energy Materials, 2014, 4, 1301396.	10.2	127
75	Stretchable Energy Storage and Conversion Devices. Small, 2014, 10, 3443-3460.	5.2	126
76	A fiber asymmetric supercapacitor based on FeOOH/PPy on carbon fibers as an anode electrode with high volumetric energy density for wearable applications. Nanoscale, 2017, 9, 10794-10801.	2.8	126
77	Molecular Level Assembly for High-Performance Flexible Electrochromic Energy-Storage Devices. ACS Energy Letters, 2020, 5, 1159-1166.	8.8	126
78	Synthesis, Characterization, and Nonâ€Volatile Memory Device Application of an Nâ€Substituted Heteroacene. Chemistry - an Asian Journal, 2014, 9, 779-783.	1.7	123
79	Nanostructured electrochromic films by inkjet printing on large area and flexible transparent silver electrodes. Nanoscale, 2014, 6, 4572.	2.8	120
80	Waterâ€Processable, Stretchable, Selfâ€Healable, Thermally Stable, and Transparent Ionic Conductors for Actuators and Sensors. Advanced Materials, 2020, 32, e1906679.	11.1	119
81	Self-powered pressure sensor for ultra-wide range pressure detection. Nano Research, 2017, 10, 3557-3570.	5.8	117
82	Self-restoring, waterproof, tunable microstructural shape memory triboelectric nanogenerator for self-powered water temperature sensor. Nano Energy, 2019, 61, 584-593.	8.2	117
83	Polarization Orientation, Piezoelectricity, and Energy Harvesting Performance of Ferroelectric PVDFâ€TrFE Nanotubes Synthesized by Nanoconfinement. Advanced Energy Materials, 2014, 4, 1400723.	10.2	111
84	Poly(vinylidene fluoride)-graft-poly(2-hydroxyethyl methacrylate): a novel material for high energy density capacitors. Journal of Materials Chemistry, 2011, 21, 3751.	6.7	110
85	Recent Advances in Electrochromic Smart Fenestration. Advanced Sustainable Systems, 2017, 1, 1700074.	2.7	110
86	Dopant induced hollow BaTiO3 nanostructures for application in high performance capacitors. Journal of Materials Chemistry, 2011, 21, 16500.	6.7	109
87	Electrochemical Supercapacitors: From Mechanism Understanding to Multifunctional Applications. Advanced Energy Materials, 2021, 11, 2003311.	10.2	109
88	Nanoarchitectured current collector for high rate capability of polyaniline based supercapacitor electrode. Electrochimica Acta, 2012, 65, 190-195.	2.6	108
89	Stretchable, Breathable, and Stable Leadâ€Free Perovskite/Polymer Nanofiber Composite for Hybrid Triboelectric and Piezoelectric Energy Harvesting. Advanced Materials, 2022, 34, e2200042.	11.1	108
90	Enhanced organic ferroelectric field effect transistor characteristics with strained poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	106

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91	The Advances of Metal Sulfides and In Situ Characterization Methods beyond Li Ion Batteries: Sodium, Potassium, and Aluminum Ion Batteries. Small Methods, 2020, 4, 1900648.	4.6	106
92	Manganese oxide micro-supercapacitors with ultra-high areal capacitance. Nanoscale, 2013, 5, 4119.	2.8	103
93	Stress-induced structural changes in electrospun polyvinylidene difluoride nanofibers collected using a modified rotating disk. Polymer, 2008, 49, 4196-4203.	1.8	100
94	Micellar poly(styrene-b-4-vinylpyridine)-nanoparticle hybrid system for non-volatile organic transistor memory. Journal of Materials Chemistry, 2009, 19, 7354.	6.7	99
95	High-efficiency transfer of percolating nanowire films for stretchable and transparent photodetectors. Nanoscale, 2014, 6, 10734-10739.	2.8	99
96	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. ACS Nano, 2021, 15, 5307-5315.	7.3	99
97	Fast charging self-powered electric double layer capacitor. Journal of Power Sources, 2017, 342, 70-78.	4.0	98
98	Transparent, Flexible Cellulose Nanofibrilâ€“Phosphorene Hybrid Paper as Triboelectric Nanogenerator. Advanced Materials Interfaces, 2017, 4, 1700651.	1.9	97
99	Foldable Electrochromics Enabled by Nanopaper Transfer Method. Advanced Functional Materials, 2015, 25, 4203-4210.	7.8	96
100	A Deformable and Highly Robust Ethyl Cellulose Transparent Conductor with a Scalable Silver Nanowires Bundle Micromesh. Advanced Materials, 2018, 30, e1802803.	11.1	95
101	Locomotion of Miniature Soft Robots. Advanced Materials, 2021, 33, e2003558.	11.1	95
102	Polystyrene grafted polyvinylidenefluoride copolymers with high capacitive performance. Polymer Chemistry, 2011, 2, 2000.	1.9	94
103	Electrochemical energy storage in a Î²-Na0.33V2O5 nanobelt network and its application for supercapacitors. Journal of Materials Chemistry, 2010, 20, 8368.	6.7	91
104	Cryogel Synthesis of Hierarchical Interconnected Macro-/Mesoporous Co₃O₄ with Superb Electrochemical Energy Storage. Journal of Physical Chemistry C, 2012, 116, 4930-4935.	1.5	90
105	Self-healable sticky porous elastomer for gas-solid interacted power generation. Science Advances, 2020, 6, eabb4246.	4.7	88
106	Mechanically interlocked stretchable nanofibers for multifunctional wearable triboelectric nanogenerator. Nano Energy, 2020, 78, 105358.	8.2	88
107	Ferroelastic-switching-driven large shear strain and piezoelectricity in a hybrid ferroelectric. Nature Materials, 2021, 20, 612-617.	13.3	87
108	New salicidation technology with Ni(Pt) alloy for MOSFETs. IEEE Electron Device Letters, 2001, 22, 568-570.	2.2	85

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109	Formation of hexagonal-molybdenum trioxide (h-MoO₃) nanostructures and their pseudocapacitive behavior. Nanoscale, 2015, 7, 11777-11786.	2.8	85
110	Transparent and stretchable bimodal triboelectric nanogenerators with hierarchical micro-nanostructures for mechanical and water energy harvesting. Nano Energy, 2019, 64, 103904.	8.2	85
111	Direct Observation of Indium Conductive Filaments in Transparent, Flexible, and Transferable Resistive Switching Memory. ACS Nano, 2017, 11, 1712-1718.	7.3	83
112	Significant electrochemical stability of manganese dioxide/polyaniline coaxial nanowires by self-terminated double surfactant polymerization for pseudocapacitor electrode. Journal of Materials Chemistry, 2012, 22, 23921.	6.7	82
113	â€œNano to nanoâ€•electrodeposition of WO₃ crystalline nanoparticles for electrochromic coatings. Journal of Materials Chemistry A, 2014, 2, 16224-16229.	5.2	81
114	Direct Observation of Conducting Filaments in Tungsten Oxide Based Transparent Resistive Switching Memory. ACS Applied Materials & Interfaces, 2016, 8, 27885-27891.	4.0	80
115	Progress on wearable triboelectric nanogenerators in shapes of fiber, yarn, and textile. Science and Technology of Advanced Materials, 2019, 20, 837-857.	2.8	79
116	Layer-by-Layer Assembly of PEDOT:PSS and WO3 Nanoparticles: Enhanced Electrochromic Coloration Efficiency and Mechanism Studies by Scanning Electrochemical Microscopy. Electrochimica Acta, 2015, 174, 57-65.	2.6	78
117	Direct inkjet-patterning of energy efficient flexible electrochromics. Nano Energy, 2018, 49, 147-154.	8.2	78
118	Rugged Soft Robots using Tough, Stretchable, and Selfâ€Healable Adhesive Elastomers. Advanced Functional Materials, 2021, 31, 2103097.	7.8	77
119	One-pot sequential electrochemical deposition of multilayer poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonic acid)/tungsten trioxide hybrid films and their enhanced electrochromic properties. Journal of Materials Chemistry A, 2014, 2, 2708-2717.	5.2	74
120	Redox Active Polyaniline-h-MoO₃Hollow Nanorods for Improved Pseudocapacitive Performance. Journal of Physical Chemistry C, 2015, 119, 9041-9049.	1.5	74
121	Synthesis and Structure Characterization of Ternary Zn₂GeO₄ Nanowires by Chemical Vapor Transport. Journal of Physical Chemistry C, 2009, 113, 14135-14139.	1.5	73
122	Electrophoretic deposition (EPD) of WO3 nanorods for electrochromic application. Journal of the European Ceramic Society, 2010, 30, 1139-1144.	2.8	73
123	Electrochemical Mechanism Investigation of Cu₂MoS₄ Hollow Nanospheres for Fast and Stable Sodium Ion Storage. Advanced Functional Materials, 2019, 29, 1807753.	7.8	72
124	Oneâ€Dimensional Ï€â€“d Conjugated Coordination Polymer for Electrochromic Energy Storage Device with Exceptionally High Performance. Advanced Science, 2020, 7, 1903109.	5.6	72
125	A Highâ€Performance Lithiumâ€Ion Capacitor Based on 2D Nanosheet Materials. Small, 2017, 13, 1602893.	5.2	70
126	Emerging Soft Conductors for Bioelectronic Interfaces. Advanced Functional Materials, 2020, 30, 1907184.	7.8	70

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127	Micro-Raman Spectroscopy Investigation of Nickel Silicides and Nickel (Platinum) Silicides. Electrochemical and Solid-State Letters, 1999, 3, 153.	2.2	67
128	Highly Transparent Conducting Nanopaper for Solid State Foldable Electrochromic Devices. Small, 2016, 12, 6370-6377.	5.2	66
129	Rewritable Multilevel Memory Performance of a Tetraazatetracene Donorâ€“Acceptor Derivative with Good Endurance. Chemistry - an Asian Journal, 2015, 10, 116-119.	1.7	65
130	Synthesis, growth mechanism and room-temperature blue luminescence emission of uniform WO3 nanosheets with W as starting material. Journal of Crystal Growth, 2009, 311, 316-319.	0.7	64
131	Development and applications of transparent conductive nanocellulose paper. Science and Technology of Advanced Materials, 2017, 18, 620-633.	2.8	64
132	Hollow LiMn₂O₄ Nanocones as Superior Cathode Materials for Lithiumâ€ion Batteries with Enhanced Power and Cycle Performances. Small, 2014, 10, 1096-1100.	5.2	63
133	Spray coated ultrathin films from aqueous tungsten molybdenum oxide nanoparticle ink for high contrast electrochromic applications. Journal of Materials Chemistry C, 2016, 4, 33-38.	2.7	63
134	Coaxial Agâ€“base metal nanowire networks with high electrochemical stability for transparent and stretchable asymmetric supercapacitors. Nanoscale Horizons, 2017, 2, 199-204.	4.1	63
135	Deformable and Transparent Ionic and Electronic Conductors for Soft Energy Devices. Advanced Energy Materials, 2017, 7, 1701369.	10.2	63
136	Network-Enhanced Photoresponse Time of Ge Nanowire Photodetectors. ACS Applied Materials & Interfaces, 2010, 2, 1794-1797.	4.0	62
137	Wide-Spectrum Modulated Electrochromic Smart Windows Based on MnO₂/PB Films. ACS Applied Materials & Interfaces, 2022, 14, 1443-1451.	4.0	62
138	Dopant distribution in the recrystallization transient at the maximum melt depth induced by laser annealing. Applied Physics Letters, 2006, 89, 172111.	1.5	61
139	Layer-by-Layer Assembled Solid Polymer Electrolyte for Electrochromic Devices. Chemistry of Materials, 2011, 23, 2142-2149.	3.2	61
140	Stretchable Energy Storage Devices: From Materials and Structural Design to Device Assembly. Advanced Energy Materials, 2021, 11, 2003308.	10.2	61
141	Resistive switching effects of HfO2 high-k dielectric. Microelectronic Engineering, 2008, 85, 2420-2424.	1.1	60
142	High switching speed and coloration efficiency of titanium-doped vanadium oxide thin film electrochromic devices. Journal of Materials Chemistry C, 2013, 1, 7380.	2.7	60
143	Sustainable wearable energy storage devices selfâ€charged by humanâ€body bioenergy. SusMat, 2021, 1, 285-302.	7.8	60
144	One-step facile electrochemical preparation of WO3/graphene nanocomposites with improved electrochromic properties. Electrochimica Acta, 2014, 117, 139-144.	2.6	59

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145	Novel concepts in functional resistive switching memories. Journal of Materials Chemistry C, 2016, 4, 9637-9645.	2.7	59
146	Binder-free Co(OH)2 nanoflakeâ€“ITO nanowire heterostructured electrodes for electrochemical energy storage with improved high-rate capabilities. Journal of Materials Chemistry, 2011, 21, 10482.	6.7	58
147	Green synthesis of nanobelt-membrane hybrid structured vanadium oxide with high electrochromic contrast. Journal of Materials Chemistry C, 2014, 2, 4727-4732.	2.7	58
148	Interfacial reactions of Ni on Si1â^'xGex (x=0.2,â€‰0.3) at low temperature by rapid thermal annealing. Journal of Applied Physics, 2002, 92, 214-217.	1.1	57
149	Fully laser-patterned stretchable microsupercapacitors integrated with soft electronic circuit components. NPG Asia Materials, 2018, 10, 959-969.	3.8	56
150	Enhanced Ferroelectric Switching Characteristics of P(VDF-TrFE) for Organic Memory Devices. Journal of Physical Chemistry B, 2010, 114, 13289-13293.	1.2	55
151	Topotactic Phase Transformation of Hexagonal MoO₃ to Layered MoO₃-II and Its Two-Dimensional (2D) Nanosheets. Chemistry of Materials, 2014, 26, 5533-5539.	3.2	55
152	Holey graphene-wrapped porous TiNb24O62 microparticles as high-performance intercalation pseudocapacitive anode materials for lithium-ion capacitors. NPG Asia Materials, 2018, 10, 406-416.	3.8	55
153	Enhanced Electrochromism with Rapid Growth Layerâ€byâ€Layer Assembly of Polyelectrolyte Complexes. Advanced Functional Materials, 2015, 25, 401-408.	7.8	54
154	Hydrolytically Stable MOF in 3Dâ€Printed Structures. Advanced Sustainable Systems, 2018, 2, 1700150.	2.7	54
155	Investigation of turn-on voltage shift in organic ferroelectric transistor with high polarity gate dielectric. Organic Electronics, 2007, 8, 415-422.	1.4	53
156	Thermal reaction of nickel and Si[sub 0.75]Ge[sub 0.25] alloy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1903.	0.9	52
157	Advances in self-healing supramolecular soft materials and nanocomposites. Nano Convergence, 2019, 6, 29.	6.3	52
158	Flexible Superamphiphobic Film for Water Energy Harvesting. Advanced Materials Technologies, 2017, 2, 1600186.	3.0	51
159	Electrical detection of hybridization and threading intercalation of deoxyribonucleic acid using carbon nanotube network field-effect transistors. Applied Physics Letters, 2006, 89, 232104.	1.5	50
160	Printable elastomeric electrodes with sweat-enhanced conductivity for wearables. Science Advances, 2021, 7, .	4.7	50
161	Surface modification of liquid metal as an effective approach for deformable electronics and energy devices. Chemical Science, 2021, 12, 2760-2777.	3.7	49
162	Natural Polymer in Soft Electronics: Opportunities, Challenges, and Future Prospects. Advanced Materials, 2022, 34, e2105020.	11.1	49

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163	Formation of PVDF-g-HEMA/BaTiO3 nanocomposites via in situ nanoparticle synthesis for high performance capacitor applications. Journal of Materials Chemistry A, 2013, 1, 14455.	5.2	48
164	Oxidative Intercalation for Monometallic Ni²⁺-Ni³⁺Layered Double Hydroxide and Enhanced Capacitance in Exfoliated Nanosheets. Small, 2015, 11, 2044-2050.	5.2	48
165	Zincâ€Ion Hybrid Supercapacitors: Progress and Future Perspective. Batteries and Supercaps, 2021, 4, 1529-1546.	2.4	48
166	Tunable Intracrystal Cavity in Tungsten Bronzeâ€Like Bimetallic Oxides for Electrochromic Energy Storage. Advanced Energy Materials, 2022, 12, 2103106.	10.2	48
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