

Ce-Wen Nan

List of Publications by Year in descending order

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336
papers

30,742
citations

5248

83
h-index

5227

165
g-index

344
all docs

344
docs citations

344
times ranked

21309
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroic magnetoelectric composites: Historical perspective, status, and future directions. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	3,224
2	PEO/garnet composite electrolytes for solid-state lithium batteries: From “ceramic-in-polymer” to “polymer-in-ceramic”. <i>Nano Energy</i> , 2018, 46, 176-184.	8.2	1,042
3	Physics of inhomogeneous inorganic materials. <i>Progress in Materials Science</i> , 1993, 37, 1-116.	16.0	952
4	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018, 11, 1945-1976.	15.6	894
5	Synergistic Coupling between $\text{Li}_{6.75}\text{La}_3\text{Zr}_{1.75}\text{Ta}_{0.25}\text{O}_{12}$ and Poly(vinylidene fluoride) Induces High Ionic Conductivity, Mechanical Strength, and Thermal Stability of Solid Composite Electrolytes. <i>Journal of the American Chemical Society</i> , 2017, 139, 13779-13785.	6.6	698
6	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019, 365, 578-582.	6.0	662
7	Electric-field control of tri-state phase transformation with a selective dual-ion switch. <i>Nature</i> , 2017, 546, 124-128.	13.7	551
8	BiCuSeO oxyselenides: new promising thermoelectric materials. <i>Energy and Environmental Science</i> , 2014, 7, 2900-2924.	15.6	544
9	Giant Energy Density and Improved Discharge Efficiency of Solution-Processed Polymer Nanocomposites for Dielectric Energy Storage. <i>Advanced Materials</i> , 2016, 28, 2055-2061.	11.1	534
10	Ultrahigh Energy Density of Polymer Nanocomposites Containing $\text{BaTiO}_3 @ \text{TiO}_2$ Nanofibers by Atomic-Scale Interface Engineering. <i>Advanced Materials</i> , 2015, 27, 819-824.	11.1	503
11	Direct observation of lithium dendrites inside garnet-type lithium-ion solid electrolyte. <i>Electrochemistry Communications</i> , 2015, 57, 27-30.	2.3	480
12	Tailoring inorganic-polymer composites for the mass production of solid-state batteries. <i>Nature Reviews Materials</i> , 2021, 6, 1003-1019.	23.3	409
13	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018, 9, 1813.	5.8	408
14	Controlled Fabrication of BiFeO_3 Uniform Microcrystals and Their Magnetic and Photocatalytic Behaviors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2903-2908.	1.5	372
15	Topological-Structure Modulated Polymer Nanocomposites Exhibiting Highly Enhanced Dielectric Strength and Energy Density. <i>Advanced Functional Materials</i> , 2014, 24, 3172-3178.	7.8	371
16	Multiferroic Heterostructures Integrating Ferroelectric and Magnetic Materials. <i>Advanced Materials</i> , 2016, 28, 15-39.	11.1	356
17	Solid Garnet Batteries. <i>Joule</i> , 2019, 3, 1190-1199.	11.7	352
18	Improving the dielectric constants and breakdown strength of polymer composites: effects of the shape of the BaTiO_3 nano-inclusions, surface modification and polymer matrix. <i>Journal of Materials Chemistry</i> , 2012, 22, 16491.	6.7	341

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19	Magnetic-Field-Induced Electric Polarization in Multiferroic Nanostructures. <i>Physical Review Letters</i> , 2005, 94, 197203.	2.9	339
20	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. <i>ACS Energy Letters</i> , 2018, 3, 1212-1218.	8.8	321
21	Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene fluoride) Tj ETQq1 1.0,784314.rgBT / 11.1 298	11.1	298
22	Solvent-Free Synthesis of Thin, Flexible, Nonflammable Garnet-Based Composite Solid Electrolyte for All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903376.	10.2	284
23	Enhanced dielectric and ferroelectric properties induced by dopamine-modified BaTiO ₃ nanofibers in flexible poly(vinylidene fluoride-trifluoroethylene) nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 8063.	6.7	282
24	Solid polymer electrolyte soft interface layer with 3D lithium anode for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 17, 309-316.	9.5	279
25	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , 2021, 374, 100-104.	6.0	276
26	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. <i>Science</i> , 2019, 366, 475-479.	6.0	272
27	Intercalated Electrolyte with High Transference Number for Dendrite-Free Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1901047.	7.8	266
28	High-Throughput Phase-Field Design of High-Energy-Density Polymer Nanocomposites. <i>Advanced Materials</i> , 2018, 30, 1704380.	11.1	254
29	Polycrystalline BiCuSeO oxide as a potential thermoelectric material. <i>Energy and Environmental Science</i> , 2012, 5, 7188.	15.6	240
30	A comprehensive review on synthesis methods for transition-metal oxide nanostructures. <i>CrystEngComm</i> , 2015, 17, 3551-3585.	1.3	240
31	Lithium-Salt-Rich PEO/Li _{0.3} La _{0.557} TiO ₃ Interpenetrating Composite Electrolyte with Three-Dimensional Ceramic Nano-Backbone for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24791-24798.	4.0	230
32	Oxide Electrolytes for Lithium Batteries. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3603-3623.	1.9	226
33	Polymer Nanocomposites with Ultrahigh Energy Density and High Discharge Efficiency by Modulating their Nanostructures in Three Dimensions. <i>Advanced Materials</i> , 2018, 30, e1707269.	11.1	226
34	Atomic-scale origin of the large grain-boundary resistance in perovskite Li-ion-conducting solid electrolytes. <i>Energy and Environmental Science</i> , 2014, 7, 1638.	15.6	219
35	BiFeO ₃ –SrTiO ₃ thin film as a new lead-free relaxor-ferroelectric capacitor with ultrahigh energy storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5920-5926.	5.2	218
36	Enhanced Ionic Conductivity of Polymer Electrolytes Containing Nanocomposite SiO ₂ Particles. <i>Physical Review Letters</i> , 2003, 91, 266104.	2.9	211

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37	Effects of anisotropy, aspect ratio, and nonstraightness of carbon nanotubes on thermal conductivity of carbon nanotube composites. <i>Applied Physics Letters</i> , 2007, 90, 021914.	1.5	204
38	Mobile Ions in Composite Solids. <i>Chemical Reviews</i> , 2020, 120, 4169-4221.	23.0	193
39	Synergistically Optimizing Electrical and Thermal Transport Properties of BiCuSeO via a Dual Doping Approach. <i>Advanced Energy Materials</i> , 2016, 6, 1502423.	10.2	178
40	Li ₂ CO ₃ : A Critical Issue for Developing Solid Garnet Batteries. <i>ACS Energy Letters</i> , 2020, 5, 252-262.	8.8	177
41	Phase-field modeling and machine learning of electric-thermal-mechanical breakdown of polymer-based dielectrics. <i>Nature Communications</i> , 2019, 10, 1843.	5.8	174
42	Preparation of Ca ₃ Co ₄ O ₉ and Improvement of its Thermoelectric Properties by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1337-1340.	1.9	171
43	High-Conductivity Argyrodite Li ₆ PS ₅ Cl Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42279-42285.	4.0	170
44	Superior Energy Storage Performances of Polymer Nanocomposites via Modification of Filler/Polymer Interfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800096.	1.9	170
45	Anomalous luminescence in Sr ₄ Al ₁₄ O ₂₅ :Eu, Dy phosphors. <i>Applied Physics Letters</i> , 2002, 81, 996-998.	1.5	168
46	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. <i>Nature Nanotechnology</i> , 2018, 13, 947-952.	15.6	163
47	High-entropy enhanced capacitive energy storage. <i>Nature Materials</i> , 2022, 21, 1074-1080.	13.3	161
48	Achieving High Energy Density in PVDF-Based Polymer Blends: Suppression of Early Polarization Saturation and Enhancement of Breakdown Strength. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27236-27242.	4.0	158
49	Influence of interfacial bonding on giant magnetoelectric response of multiferroic laminated composites of Tb _{1-x} DyxFe ₂ and PbZrxTi _{1-x} O ₃ . <i>Applied Physics Letters</i> , 2003, 83, 4366-4368.	1.5	155
50	Largely enhanced energy density in flexible P(VDF-TrFE) nanocomposites by surface-modified electrospun BaSrTiO ₃ fibers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1688-1693.	5.2	151
51	Synergy of micro-/mesoscopic interfaces in multilayered polymer nanocomposites induces ultrahigh energy density for capacitive energy storage. <i>Nano Energy</i> , 2019, 62, 220-229.	8.2	144
52	Significant enhancement in the visible light photocatalytic properties of BiFeO ₃ –graphene nanohybrids. <i>Journal of Materials Chemistry A</i> , 2013, 1, 823-829.	5.2	140
53	Two Birds with One Stone: Metal–Organic Framework Derived Micro/Nanostructured Ni ₂ P/Ni Hybrids Embedded in Porous Carbon for Electrocatalysis and Energy Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1901510.	7.8	140
54	Addressing the Interface Issues in All-Solid-State Bulk-Type Lithium Ion Battery via an All-Composite Approach. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9654-9661.	4.0	139

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55	High energy density of polymer nanocomposites at a low electric field induced by modulation of their topological-structure. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8359-8365.	5.2	137
56	Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density. <i>Advanced Energy Materials</i> , 2019, 9, 1803411.	10.2	132
57	Coupled magnetodielectric properties of laminated $\text{PbZr}_{0.53}\text{Ti}_{0.47}\text{O}_3/\text{NiFe}_2\text{O}_4$ ceramics. <i>Journal of Applied Physics</i> , 2004, 95, 5685-5690.	1.1	131
58	$\text{BiFeO}_3/\text{TiO}_2$ core-shell structured nanocomposites as visible-active photocatalysts and their optical response mechanism. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	123
59	Large high-frequency magnetoelectric response in laminated composites of piezoelectric ceramics, rare-earth iron alloys and polymer. <i>Applied Physics Letters</i> , 2004, 84, 3516-3518.	1.5	122
60	Band-Gap Engineering and Enhanced Photocatalytic Activity of Sm and Mn Doped BiFeO_3 Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2017, 100, 31-40.	1.9	117
61	Highly enhanced energy density induced by hetero-interface in sandwich-structured polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12321.	5.2	116
62	Ultrahigh Breakdown Strength and Improved Energy Density of Polymer Nanocomposites with Gradient Distribution of Ceramic Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 1906112.	7.8	116
63	Hierarchical interfaces induce high dielectric permittivity in nanocomposites containing $\text{TiO}_2/\text{BaTiO}_3$ nanofibers. <i>Nanoscale</i> , 2014, 6, 6701-6709.	2.8	115
64	The Gadolinium (Gd^{3+}) and Tin (Sn^{4+}) Co-doped BiFeO_3 Nanoparticles as New Solar Light Active Photocatalyst. <i>Scientific Reports</i> , 2017, 7, 42493.	1.6	115
65	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrier-phonon coupling. <i>Energy and Environmental Science</i> , 2017, 10, 1590-1599.	15.6	115
66	Regulating Uniform Li Plating/Stripping via Dual-Conductive Metal-Organic Frameworks for High-Rate Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000786.	7.8	114
67	Understanding and designing magnetoelectric heterostructures guided by computation: progresses, remaining questions, and perspectives. <i>Npj Computational Materials</i> , 2017, 3, .	3.5	110
68	Electrical and thermal transport behaviours of high-entropy perovskite thermoelectric oxides. <i>Journal of Advanced Ceramics</i> , 2021, 10, 377-384.	8.9	110
69	Impact of P-Doped in Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ on Degree of Disorder, Grain Morphology, and Electrochemical Performance. <i>Chemistry of Materials</i> , 2015, 27, 7734-7742.	3.2	103
70	Grain boundary behavior in varistor-capacitor TiO_2 -rich $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	102
71	Structural transitions and enhanced ferroelectricity in Ca and Mn co-doped BiFeO_3 thin films. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	100
72	Self-organized Synthesis of Silver Chainlike and Dendritic Nanostructures via a Solvothermal Method. <i>Chemistry of Materials</i> , 2003, 15, 4436-4441.	3.2	99

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73	High-temperature electrical transport behaviors in textured Ca ₃ Co ₄ O ₉ -based polycrystalline ceramics. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	98
74	Dielectric and energy storage performances of polyimide/BaTiO ₃ nanocomposites at elevated temperatures. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	98
75	Enhanced electrochemical performance of bulk type oxide ceramic lithium batteries enabled by interface modification. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4649-4657.	5.2	98
76	Ferroelastic switching in a layered-perovskite thin film. <i>Nature Communications</i> , 2016, 7, 10636.	5.8	97
77	High permittivity Li and Al doped NiO ceramics. <i>Applied Physics Letters</i> , 2004, 85, 5664-5666.	1.5	95
78	Angular Dependence of Exchange Bias and Magnetization Reversal Controlled by Electric-Field-Induced Competing Anisotropies. <i>Advanced Materials</i> , 2016, 28, 363-369.	11.1	92
79	Oxygen vacancy-enriched MoO ₃ nanobelts for asymmetric supercapacitors with excellent room/low temperature performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13205-13214.	5.2	92
80	Challenges, interface engineering, and processing strategies toward practical sulfide-based all-solid-state lithium batteries. <i>Informa Mater</i> , 2022, 4, .	8.5	92
81	Phase-Field Model of Electrothermal Breakdown in Flexible High-Temperature Nanocomposites under Extreme Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1800509.	10.2	90
82	Room-temperature ferromagnetic and ferroelectric behavior in polycrystalline ZnO-based thin films. <i>Applied Physics Letters</i> , 2007, 90, 222110.	1.5	88
83	Bandgap engineering and enhanced interface coupling of graphene-BiFeO ₃ nanocomposites as efficient photocatalysts under visible light. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1967-1973.	5.2	87
84	Energy-storage performance and electrocaloric effect in (100)-oriented Pb _{0.97} La _{0.02} (Zr _{0.95} Ti _{0.05})O ₃ antiferroelectric thick films. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	86
85	Size-dependent electric voltage controlled magnetic anisotropy in multiferroic heterostructures: Interface-charge and strain mediated magnetoelectric coupling. <i>Physical Review B</i> , 2011, 83, .	1.1	86
86	Free-standing sulfide/polymer composite solid electrolyte membranes with high conductance for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2020, 25, 145-153.	9.5	85
87	Sol-gel derived Li-La-Zr-O thin films as solid electrolytes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13277.	5.2	84
88	Opportunities and challenges for magnetoelectric devices. <i>APL Materials</i> , 2019, 7, .	2.2	84
89	High Cycling Stability for Solid-State Li Metal Batteries via Regulating Solvation Effect in Poly(Vinylidene Fluoride)-Based Electrolytes. <i>Batteries and Supercaps</i> , 2020, 3, 876-883.	2.4	84
90	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. <i>Journal of Materiomics</i> , 2021, 7, 209-218.	2.8	82

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91	Photocatalytic and magnetic behaviors observed in nanostructured BiFeO ₃ particles. Journal of Applied Physics, 2009, 105, .	1.1	81
92	Tuning Phase Composition of Polymer Nanocomposites toward High Energy Density and High Discharge Efficiency by Nonequilibrium Processing. ACS Applied Materials & Interfaces, 2017, 9, 29717-29731.	4.0	81
93	Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. Nature Communications, 2019, 10, 2814.	5.8	81
94	Inverse Problem for Composites with Imperfect Interface: Determination of Interfacial Thermal Resistance, Thermal Conductivity of Constituents, and Microstructural Parameters. Journal of the American Ceramic Society, 2000, 83, 848-854.	1.9	78
95	High-Temperature Electrical Transport and Thermoelectric Power of Partially Substituted Ca ₃ Co ₄ O ₉ -Based Ceramics. Journal of the American Ceramic Society, 2007, 90, 132-136.	1.9	77
96	Doping for higher thermoelectric properties in p-type BiCuSeO oxyselenide. Applied Physics Letters, 2013, 102, 123905.	1.5	77
97	Enhanced Thermoelectric Properties of Bi ₂ O ₂ Se Ceramics by Bi Deficiencies. Journal of the American Ceramic Society, 2015, 98, 2465-2469.	1.9	77
98	Effect of BaTiO ₃ size on dielectric property of BaTiO ₃ /PVDF composites. Journal of Electroceramics, 2008, 21, 381-384.	0.8	75
99	Water printing of ferroelectric polarization. Nature Communications, 2018, 9, 3809.	5.8	75
100	High-temperature thermoelectric behaviors of Sn-doped n-type Bi ₂ O ₂ Se ceramics. Journal of Electroceramics, 2015, 34, 175-179.	0.8	74
101	Toroidal polar topology in strained ferroelectric polymer. Science, 2021, 371, 1050-1056.	6.0	74
102	Flexible and highly sensitive pressure sensor based on controllably oxidized MXene. Information Materials, 2022, 4, .	8.5	74
103	Enhancement of thermoelectric performance in Cd-doped Ca ₃ Co ₄ O ₉ via spin entropy, defect chemistry and phonon scattering. Journal of Materials Chemistry A, 2014, 2, 19479-19487.	5.2	71
104	High Performance Oxides-Based Thermoelectric Materials. Jom, 2015, 67, 211-221.	0.9	71
105	Current-controlled propagation of spin waves in antiparallel, coupled domains. Nature Nanotechnology, 2019, 14, 691-697.	15.6	71
106	Dielectric films for high performance capacitive energy storage: multiscale engineering. Nanoscale, 2020, 12, 19582-19591.	2.8	69
107	Minimizing Voltage Loss in Efficient All-Inorganic CsPbI ₂ Br Perovskite Solar Cells through Energy Level Alignment. ACS Energy Letters, 2019, 4, 2491-2499.	8.8	68
108	High-Temperature Thermoelectric Behaviors of Fine-Grained Gd-Doped CaMnO ₃ Ceramics. Journal of the American Ceramic Society, 2010, 93, 2121-2124.	1.9	67

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109	Enhanced thermoelectric performance of $\text{Bi}_2\text{O}_3\text{Se}$ by Cl doping at Se site. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1494-1501.	1.9	66
110	Atomic-resolution imaging of electrically induced oxygen vacancy migration and phase transformation in $\text{SrCoO}_{2.5}$. <i>Nature Communications</i> , 2017, 8, 104.	5.8	66
111	An in Situ-Formed Mosaic $\text{Li}_7\text{Sn}_3/\text{LiF}$ Interface Layer for High-Rate and Long-Life Garnet-Based Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34939-34947.	4.0	66
112	A surface-modified TiO_2 nanorod array/P(VDF-HFP) dielectric capacitor with ultra high energy density and efficiency. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12777-12784.	2.7	65
113	Fast 180° magnetization switching in a strain-mediated multiferroic heterostructure driven by a voltage. <i>Scientific Reports</i> , 2016, 6, 27561.	1.6	64
114	Influence of Crystallinity of Lithium Thiophosphate Solid Electrolytes on the Performance of Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100654.	10.2	64
115	Non-intuitive concomitant enhancement of dielectric permittivity, breakdown strength and energy density in percolative polymer nanocomposites by trace Ag nanodots. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15198-15206.	5.2	61
116	Hierarchical porous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ - TiO_2 composite anode materials with pseudocapacitive effect for high-rate and low-temperature applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14339-14351.	5.2	60
117	Super Long-Cycling All-Solid-State Battery with Thin $\text{Li}_6\text{PS}_5\text{Cl}$ -Based Electrolyte. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	58
118	Enhanced thermoelectric performance of In_2O_3 -based ceramics via Nanostructuring and Point Defect Engineering. <i>Scientific Reports</i> , 2015, 5, 7783.	1.6	57
119	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , 2021, 11, 2101370.	10.2	56
120	Fast Magnetic Domain-Wall Motion in a Ring-Shaped Nanowire Driven by a Voltage. <i>Nano Letters</i> , 2016, 16, 2341-2348.	4.5	55
121	Effects of $\text{Li}_{6.75}\text{La}_3\text{Zr}_{1.75}\text{Ta}_{0.25}\text{O}_{12}$ on chemical and electrochemical properties of polyacrylonitrile-based solid electrolytes. <i>Solid State Ionics</i> , 2018, 327, 32-38.	1.3	55
122	Organic-Organic Composite Electrolyte Enables Ultralong Cycle Life in Solid-State Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24837-24844.	4.0	55
123	Ultrahigh Energy Density in Continuously Gradient-Structured All-Organic Dielectric Polymer Films. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	55
124	Sintering Temperature Dependence of Grain Boundary Resistivity in a Rare-Earth-Doped ZnO Varistor. <i>Journal of the American Ceramic Society</i> , 2007, 90, 291-294.	1.9	54
125	Synergistically optimizing electrical and thermal transport properties of $\text{Bi}_2\text{O}_3\text{Se}$ ceramics by Te substitution. <i>Journal of the American Ceramic Society</i> , 2018, 101, 326-333.	1.9	54
126	Synergistical Enhancement of Thermoelectric Properties in $\text{Bi}_2\text{O}_3\text{Se}$ by Carrier Engineering and Hierarchical Microstructure. <i>Advanced Energy Materials</i> , 2019, 9, 1900354.	10.2	54

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127	Ferromagnetism and electrical transport in Fe-doped NiO. <i>Physical Review B</i> , 2006, 73, .	1.1	53
128	Thickness-dependent dielectric and energy storage properties of (Pb _{0.96} La _{0.04})(Zr _{0.98} Ti _{0.02})O ₃ antiferroelectric thin films. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	52
129	Contribution of point defects and nano-grains to thermal transport behaviours of oxide-based thermoelectrics. <i>Npj Computational Materials</i> , 2016, 2, .	3.5	52
130	A novel pseudocapacitance mechanism of elm seed-like mesoporous MoO ₃ nanosheets as electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14560-14566.	5.2	52
131	Dielectric and nonlinear electrical behaviors of La-doped CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	51
132	High-conductivity free-standing Li ₆ PS ₅ Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. <i>Journal of Materials</i> , 2020, 6, 70-76.	2.8	51
133	Dependence of giant magnetoelectric effect on interfacial bonding for multiferroic laminated composites of rare-earth-iron alloys and lead zirconate titanate. <i>Journal of Applied Physics</i> , 2004, 95, 2660-2664.	1.1	50
134	Thermoelectric Properties of Pb-Doped BiCuSeO Ceramics. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2710-2713.	1.9	50
135	Effect of the morphology of Li-La-Zr-O solid electrolyte coating on the electrochemical performance of spinel LiMn _{1.95} Ni _{0.05} O _{3.98} F _{0.02} cathode materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18889-18897.	5.2	50
136	Garnet-type oxide electrolyte with novel porous-dense bilayer configuration for rechargeable all-solid-state lithium batteries. <i>Ionics</i> , 2017, 23, 2521-2527.	1.2	50
137	High Capacity, Superior Cyclic Performances in All-Solid-State Lithium-Ion Batteries Based on Li ₂ S-22P ₂ S ₅ Glass-Ceramic Electrolytes Prepared via Simple Heat Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28542-28548.	4.0	49
138	Microstructure Manipulation for Enhancing the Resistance of Garnet-Type Solid Electrolytes to Short Circuit by Li Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5928-5937.	4.0	49
139	High-performance all-solid-state lithium-sulfur batteries with sulfur/carbon nano-hybrids in a composite cathode. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23345-23356.	5.2	48
140	Aqueous MXene/Xanthan Gum Hybrid Inks for Screen Printing Electromagnetic Shielding, Joule Heater, and Piezoresistive Sensor. <i>Small</i> , 2022, 18, e2107087.	5.2	48
141	Orientation-dependent multiferroic properties in Pb(Zr _{0.52} Ti _{0.48})O ₃ -CoFe ₂ O ₄ nanocomposite thin films derived by a sol-gel processing. <i>Journal of Applied Physics</i> , 2008, 103, 034103.	1.1	47
142	Universality of the surface magnetoelectric effect in half-metals. <i>Physical Review B</i> , 2009, 79, .	1.1	47
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