

Ce-Wen Nan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

6,272
citations

35
h-index

78
g-index

117
ext. papers

8,108
ext. citations

12.3
avg, IF

6.03
L-index

#	Paper	IF	Citations
108	Controllable electrical, magnetoelectric and optical properties of BiFeO ₃ via domain engineering. <i>Progress in Materials Science</i> , 2022 , 127, 100943	42.2	4
107	Perspectives on domain engineering for dielectric energy storage thin films. <i>Applied Physics Letters</i> , 2022 , 120, 150501	3.4	1
106	Long decay length of magnon-polarons in BiFeO/LaSrMnO heterostructures.. <i>Nature Communications</i> , 2021 , 12, 7258	17.4	2
105	Self-Propagating Enabling High Lithium Metal Utilization Ratio Composite Anodes for Lithium Metal Batteries. <i>Nano Letters</i> , 2021 , 21, 791-797	11.5	24
104	Influence of Crystallinity of Lithium Thiophosphate Solid Electrolytes on the Performance of Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100654	21.8	25
103	Lithium Argyrodite as Solid Electrolyte and Cathode Precursor for Solid-State Batteries with Long Cycle Life. <i>Advanced Energy Materials</i> , 2021 , 11, 2101370	21.8	20
102	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. <i>Journal of Materiomics</i> , 2021 , 7, 209-218	6.7	30
101	A sandwich structure assisted by defect engineering for higher thermoelectric performance in ZnO-based films. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1370-1378	3.8	4
100	Electric-field control of skyrmions in multiferroic heterostructure via magnetoelectric coupling. <i>Nature Communications</i> , 2021 , 12, 322	17.4	19
99	Designing polymer nanocomposites with high energy density using machine learning. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	9
98	Magnetoelectric phase transition driven by interfacial-engineered Dzyaloshinskii-Moriya interaction. <i>Nature Communications</i> , 2021 , 12, 5453	17.4	4
97	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , 2021 , 374, 100-104	33.3	49
96	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. <i>Energy Storage Materials</i> , 2021 , 42, 836-844	19.4	5
95	Polarization-switching pathway determined electrical transport behaviors in rhombohedral BiFeO thin films. <i>Nanoscale</i> , 2021 , 13, 17746-17753	7.7	1
94	Robust Ferromagnetism in Highly Strained SrCoO ₃ Thin Films. <i>Physical Review X</i> , 2020 , 10,	9.1	5
93	Mechanisms of Skyrmion and Skyrmion Crystal Formation from the Conical Phase. <i>Nano Letters</i> , 2020 , 20, 4731-4738	11.5	5
92	Mechanical and biocompatible properties of polymer-infiltrated-ceramic-network materials for dental restoration. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 123-128	10.7	7

91	An alternating multilayer architecture boosts ultrahigh energy density and high discharge efficiency in polymer composites.. <i>RSC Advances</i> , 2020 , 10, 5886-5893	3.7	6
90	Response to Comment on "Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes". <i>Advanced Materials</i> , 2020 , 32, e2000026	24	24
89	Interfacial-hybridization-modified Ir ferromagnetism and electronic structure in LaMnO ₃ /SrIrO ₃ superlattices. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
88	Structure design boosts concomitant enhancement of permittivity, breakdown strength, discharged energy density and efficiency in all-organic dielectrics. <i>IET Nanodielectrics</i> , 2020 , 3, 147-155	2.8	5
87	Ultrahigh Breakdown Strength and Improved Energy Density of Polymer Nanocomposites with Gradient Distribution of Ceramic Nanoparticles. <i>Advanced Functional Materials</i> , 2020 , 30, 1906112	15.6	65
86	High-conductivity free-standing Li ₆ PS ₅ Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. <i>Journal of Materiomics</i> , 2020 , 6, 70-76	6.7	19
85	Multifield-Inspired Tunable Carrier Effects Based on Ferroelectric-Silicon PN Heterojunction. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900795	6.4	9
84	Stabilization of ferroelastic charged domain walls in self-assembled BiFeO ₃ nanoislands. <i>Journal of Applied Physics</i> , 2020 , 128, 124103	2.5	2
83	Three-dimensional structured asymmetric electrolytes for high interface stability and fast Li-ion transport in solid-state Li-metal batteries. <i>Materials Today Energy</i> , 2020 , 18, 100522	7	7
82	Dielectric films for high performance capacitive energy storage: multiscale engineering. <i>Nanoscale</i> , 2020 , 12, 19582-19591	7.7	32
81	Composition Modulation and Structure Design of Inorganic-in-Polymer Composite Solid Electrolytes for Advanced Lithium Batteries. <i>Small</i> , 2020 , 16, e1902813	11	44
80	Super-elastic ferroelectric single-crystal membrane with continuous electric dipole rotation. <i>Science</i> , 2019 , 366, 475-479	33.3	127
79	Structure and electrochemical properties of C-coated Li ₂ O/V ₂ O ₅ /P ₂ O ₅ glass-ceramic as cathode material for lithium-ion batteries. <i>Functional Materials Letters</i> , 2019 , 12, 1951002	1.2	10
78	Strong phonon localization in PbTe with dislocations and large deviation to Matthiessen's rule. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	19
77	High-Energy-Density Ferroelectric Polymer Nanocomposites for Capacitive Energy Storage: Enhanced Breakdown Strength and Improved Discharge Efficiency. <i>Materials Today</i> , 2019 , 29, 49-67	21.8	143
76	Robust polarization switching in self-assembled BiFeO ₃ nanoislands with quad-domain structures. <i>Acta Materialia</i> , 2019 , 175, 324-330	8.4	14
75	Ferroelectric Photodetector with High Current on/off Ratio (~10 ⁴) in Self-Assembled Topological Nanoislands. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 862-868	4	22
74	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	17.1	84

73	Phase-field modeling and machine learning of electric-thermal-mechanical breakdown of polymer-based dielectrics. <i>Nature Communications</i> , 2019 , 10, 1843	17.4	97
72	Current-controlled propagation of spin waves in antiparallel, coupled domains. <i>Nature Nanotechnology</i> , 2019 , 14, 691-697	28.7	43
71	Scalable preparation of hierarchical porous activated carbon/graphene composites for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10058-10066	13	17
70	Self-Suppression of Lithium Dendrite in All-Solid-State Lithium Metal Batteries with Poly(vinylidene difluoride)-Based Solid Electrolytes. <i>Advanced Materials</i> , 2019 , 31, e1806082	24	169
69	Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density. <i>Advanced Energy Materials</i> , 2019 , 9, 1803411	21.8	84
68	Ultrahigh-energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019 , 365, 578-582	33.3	353
67	High-performance Li6PS5Cl-based all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18612-18618	13	23
66	A Ferroconcrete-Like All-Organic Nanocomposite Exhibiting Improved Mechanical Property, High Breakdown Strength, and High Energy Efficiency. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900433	3.9	7
65	Self-assembly growth of a multiferroic topological nanoisland array. <i>Nanoscale</i> , 2019 , 11, 20514-20521	7.7	3
64	Modulating interfacial charge distribution and compatibility boosts high energy density and discharge efficiency of polymer nanocomposites.. <i>RSC Advances</i> , 2019 , 9, 35990-35997	3.7	5
63	Ultrahigh discharge efficiency in multilayered polymer nanocomposites of high energy density. <i>Energy Storage Materials</i> , 2019 , 18, 213-221	19.4	77
62	Bi _{3.25} La _{0.75} Ti _{2.5} Nb _{0.25} (Fe _{0.5} Co _{0.5}) _{0.25} O ₁₂ , a single phase room temperature multiferroic. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2733-2740	7.1	16
61	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium Batteries Enabled by a Glass-Ceramics Solo. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10029-10035	9.5	31
60	Tunable photoelectric response in NiO-based heterostructures by various orientations. <i>Applied Physics Letters</i> , 2018 , 112, 093301	3.4	3
59	Polymer Nanocomposites with Ultrahigh Energy Density and High Discharge Efficiency by Modulating their Nanostructures in Three Dimensions. <i>Advanced Materials</i> , 2018 , 30, e1707269	24	157
58	Controllable conductive readout in self-assembled, topologically confined ferroelectric domain walls. <i>Nature Nanotechnology</i> , 2018 , 13, 947-952	28.7	104
57	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018 , 9, 1813	17.4	237
56	Strain-Mediated Converse Magnetoelectric Coupling in La _{0.7} Sr _{0.3} MnO ₃ /Pb(Mg _{1/3} Nb _{2/3})O ₃ BbTiO ₃ Multiferroic Heterostructures. <i>Crystal Growth and Design</i> , 2018 , 18, 5934-5939	3.5	15

55	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018 , 11, 1945-1976	19.6	601
54	High-Throughput Phase-Field Design of High-Energy-Density Polymer Nanocomposites. <i>Advanced Materials</i> , 2018 , 30, 1704380	24	171
53	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	13	76
52	Tunable pseudocapacitive contribution in nanosheet-constructed titania hierarchical tubes to achieve superior lithium-storage properties by phase control. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24298-24310	13	19
51	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	13	30
50	High-Conductivity Argyrodite LiPSCl Solid Electrolytes Prepared via Optimized Sintering Processes for All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42279-42285	9.5	94
49	Understanding and predicting geometrical constraint ferroelectric charged domain walls in a BiFeO ₃ island via phase-field simulations. <i>Applied Physics Letters</i> , 2018 , 113, 222902	3.4	13
48	Synthesis and Broadband Spectra Photocatalytic Properties of Bi ₂ (CO) ₃ . <i>Materials</i> , 2018 , 11,	3.5	3
47	Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018 , 4, eaar4298	14.3	28
46	Self-Reconstructed Formation of a One-Dimensional Hierarchical Porous Nanostructure Assembled by Ultrathin TiO Nanobelts for Fast and Stable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19047-19058	9.5	25
45	BiFeO ₃ /TiO 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	13	158
44	Mechanical properties of polymer-infiltrated-ceramic (sodium aluminum silicate) composites for dental restoration. <i>Journal of Dentistry</i> , 2017 , 62, 91-97	4.8	18
43	Thermoelectric Properties of Cl-Doped BiCuSeO Oxyselenides. <i>Journal of Electronic Materials</i> , 2017 , 46, 2593-2598	1.9	10
42	Coaxial-Structured Weavable and Wearable Electroluminescent Fibers. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700401	6.4	38
41	Synergistic Coupling between LiLaZrTaO 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	16.4	452
40	High-temperature electrical and thermal transport behaviors in layered structure WSe ₂ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5528-5535	3.8	5
39	High Capacity, Superior Cyclic Performances in All-Solid-State Lithium-Ion Batteries Based on 78LiS-22PS Glass-Ceramic Electrolytes Prepared via Simple Heat Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28542-28548	9.5	36
38	Tuning Phase Composition of Polymer Nanocomposites toward High Energy Density and High Discharge Efficiency by Nonequilibrium Processing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29717-29731	9.5	63

37	Highly (001)-Textured Tetragonal BiFeO Film and Its Photoelectrochemical Behaviors Tuned by Magnetic Field. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30127-30132	9.5	6
36	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1998-1999	0.5	
35	Nanoscale Bandgap Tuning across an Inhomogeneous Ferroelectric Interface. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24704-24710	9.5	12
34	Electric-field control of ferromagnetism through oxygen ion gating. <i>Nature Communications</i> , 2017 , 8, 2156	17.4	63
33	Room temperature magnetoelectric coupling in intrinsic multiferroic Aurivillius phase textured ceramics. <i>Dalton Transactions</i> , 2016 , 45, 14049-14052	4.3	17
32	2D Metals by Repeated Size Reduction. <i>Advanced Materials</i> , 2016 , 28, 8170-8176	24	53
31	Manipulation of Magnetic Properties by Oxygen Vacancies in Multiferroic YMnO ₃ . <i>Advanced Functional Materials</i> , 2016 , 26, 3589-3598	15.6	40
30	Giant Energy Density and Improved Discharge Efficiency of Solution-Processed Polymer Nanocomposites for Dielectric Energy Storage. <i>Advanced Materials</i> , 2016 , 28, 2055-61	24	43 ²
29	Good Low-Temperature Properties of Nitrogen-Enriched Porous Carbon as Sulfur Hosts for High-Performance Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17253-9	9.5	38
28	Controlled functionalization of poly(4-methyl-1-pentene) films for high energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4797-4807	13	50
27	In Vitro Cell Proliferation and Mechanical Behaviors Observed in Porous Zirconia Ceramics. <i>Materials</i> , 2016 , 9,	3.5	6
26	The Effects of Spark-Plasma Sintering (SPS) on the Microstructure and Mechanical Properties of BaTiO ₃ /Y-TZP Composites. <i>Materials</i> , 2016 , 9,	3.5	6
25	Photoelectrochemical Performance Observed in Mn-Doped BiFeO ₃ /Heterostructured Thin Films. <i>Nanomaterials</i> , 2016 , 6,	5.4	22
24	Optimization of the thermoelectric properties of Bi ₂ O ₂ Se ceramics by altering the temperature of spark plasma sintering. <i>Journal of Electroceramics</i> , 2016 , 37, 66-72	1.5	14
23	Thermoelectric transport properties of BiCuSeO with embedded La _{0.8} Sr _{0.2} CoO ₃ nanoinclusions. <i>Science China Technological Sciences</i> , 2016 , 59, 1036-1041	3.5	7
22	2D Metals: 2D Metals by Repeated Size Reduction (Adv. Mater. 37/2016). <i>Advanced Materials</i> , 2016 , 28, 8169-8169	24	1
21	Oxide Semiconductors: Arc-Melting to Narrow the Bandgap of Oxide Semiconductors (Adv. Mater. 16/2015). <i>Advanced Materials</i> , 2015 , 27, 2675-2675	24	
20	Electrical and Thermal Transport Behavior in Zn-Doped BiCuSeO Oxyselenides. <i>Journal of Electronic Materials</i> , 2015 , 44, 1627-1631	1.9	32

19	Modulation of topological structure induces ultrahigh energy density of graphene/Ba 0.6 Sr 0.4 TiO ₃ nanofiber/polymer nanocomposites. <i>Nano Energy</i> , 2015 , 18, 176-186	17.1	119
18	Unlocking the energy capabilities of micron-sized LiFePO ₄ . <i>Nature Communications</i> , 2015 , 6, 7898	17.4	51
17	Ultrahigh energy density of polymer nanocomposites containing BaTiO ₃ @TiO ₂ nanofibers by atomic-scale interface engineering. <i>Advanced Materials</i> , 2015 , 27, 819-24	24	416
16	Tunable magnetic and electrical behaviors in perovskite oxides by oxygen octahedral tilting. <i>Science China Materials</i> , 2015 , 58, 302-312	7.1	22
15	The Phase Characterization of BaTiO ₃ -LaCaMnO ₃ Complete Solid Solution and Its Physical Properties. <i>Ferroelectrics</i> , 2015 , 489, 60-64	0.6	4
14	Topological-Structure Modulated Polymer Nanocomposites Exhibiting Highly Enhanced Dielectric Strength and Energy Density. <i>Advanced Functional Materials</i> , 2014 , 24, 3172-3178	15.6	304
13	Role of the interface on the magnetoelectric properties of BaTiO ₃ thin films deposited on polycrystalline Ni foils. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 708-714	7.1	26
12	Strain-induced modulation of magnetic anisotropy in Co/BaTiO ₃ composite. <i>Science Bulletin</i> , 2014 , 59, 5191-5193		0
11	Voltage-controlled Kerr response in Ni/Pb(Zr _{0.52} Ti _{0.48})O ₃ heterostructures. <i>Science Bulletin</i> , 2014 , 59, 5218-5222		0
10	Growth behaviors and characteristics of low temperature spin-sprayed ZnO and Al-doped ZnO microstructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2058-2066	2.1	4
9	Magnetic and electrical properties of PbTiO ₃ /Mn-Zn ferrite multiphase nanotube arrays by electro-deposition. <i>Journal of Applied Physics</i> , 2012 , 112, 104310	2.5	3
8	Improving the dielectric constants and breakdown strength of polymer composites: effects of the shape of the BaTiO ₃ nanoinclusions, surface modification and polymer matrix. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16491		301
7	A four-state memory cell based on magnetoelectric composite. <i>Science Bulletin</i> , 2008 , 53, 2135-2138	10.6	26
6	Large-scale self-assembled ag nanotubes. <i>Tsinghua Science and Technology</i> , 2005 , 10, 736-740	3.4	8
5	Ge Incorporation to Stabilize Efficient Inorganic CsPbI ₃ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2103690	21.8	7
4	Challenges, interface engineering, and processing strategies toward practical sulfide-based all-solid-state lithium batteries. <i>Informa Materly</i> ,	23.1	9
3	Topologically protected oxygen redox in a layered manganese oxide cathode for sustainable batteries. <i>Nature Sustainability</i> ,	22.1	5
2	Highly Sensitive Strain Sensor from Topological-Structure Modulated Dielectric Elastic Nanocomposites. <i>Advanced Materials Technologies</i> , 2101190	6.8	1

1 Machine learning in energy storage materials

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