

Weidong Fei

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.

95
papers

2,775
citations

31
h-index

49
g-index

100
ext. papers

3,525
ext. citations

7.4
avg, IF

5.52
L-index

#	Paper	IF	Citations
95	Interface design and engineering in Al matrix composite with low CTE and high strength reinforced by barium strontium titanate particles. <i>Materials Today Communications</i> , 2022 , 103512	2.5	0
94	Enhanced energy storage properties of amorphous BiFeO ₃ /Al ₂ O ₃ multilayers. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 1852-1858	5.5	4
93	Multiferroic Properties and Magnetic Anisotropy in P(VDF-TrFE) Composites with Oriented CoFe ₂ O ₄ Nanofibers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8840-8852	3.8	4
92	A two-step thermal treatment method to produce reduced graphene oxide with selectively increasing electrochemically active carbonyl group content for high-performance supercapacitor electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 620, 126573	5.1	8
91	Recent Progress in Graphene/Polymer Nanocomposites. <i>Advanced Materials</i> , 2021 , 33, e2001105	24	75
90	A highly conductive Ni(OH) nano-sheet wrapped CuCoS nano-tube electrode with a core-shell structure for high performance supercapacitors. <i>Dalton Transactions</i> , 2021 , 50, 8476-8486	4.3	3
89	Effect of Excess Ratio of Alkali Metal on Microstructure and Ferroelectric Property of K _{0.5} Na _{0.5} NbO ₃ Thin Film. <i>Integrated Ferroelectrics</i> , 2021 , 213, 137-145	0.8	2
88	A saddle-shaped o-tetraphenylene based molecular semiconductor with a high glass transition temperature for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9927-9936	13	5
87	Graphene-like carbon nanosheet/copper composite with combined performance designed by pyrolyzing trimesic acid@copper formate. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 111-120	5.5	5
86	Lateral size effect of reduced graphene oxide on properties of copper matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141579	5.3	2
85	All-in-One Sulfur Host: Smart Controls of Architecture and Composition for Accelerated Liquid-Solid Redox Conversion in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39424-39434	9.5	8
84	Effects of high-shear mixing and the graphene oxide weight fraction on the electrochemical properties of the GO/Ni(OH) electrode. <i>Dalton Transactions</i> , 2020 , 49, 1752-1764	4.3	3
83	Facile synthesis of high-performance carbon nanosheet/Cu composites from copper formate. <i>Carbon</i> , 2020 , 165, 349-357	10.4	6
82	Research progress in molecular dynamics simulation of CNT and graphene reinforced metal matrix composites 2020 , 1,		1
81	Ba and Mg co-doping to suppress high-temperature dielectric loss in lead-free Na _{0.5} Bi _{0.5} TiO ₃ -based systems. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 720-727	6	7
80	Hole-pinned defect-dipoles induced colossal permittivity in Bi doped SrTiO ₃ ceramics with Sr deficiency. <i>Journal of Materials Science and Technology</i> , 2020 , 44, 54-61	9.1	8
79	Sea urchin-like CuCo ₂ S ₄ microspheres with a controllable interior structure as advanced electrode materials for high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 603-609	6.8	14

78	High energy storage density achieved in Bi ³⁺ -Li ⁺ co-doped SrTi _{0.99} Mn _{0.01} O ₃ thin film via ionic pair doping-engineering. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 706-711	6	12
77	Defects and Aliovalent Doping Engineering in Electroceramics. <i>Chemical Reviews</i> , 2020 , 120, 1710-1787	68.1	61
76	A supercapacitor with ultrahigh volumetric capacitance produced by self-assembly of reduced graphene oxide through phosphoric acid treatment. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18933-18944	12	21
75	In situ synthesis of core-shell vanadium nitride@N-doped carbon microsheet sponges as high-performance anode materials for solid-state supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 122-129	9.3	18
74	Role of A- and B-site excess doping on the improvement of the piezoelectric properties of BaTiO ₃ lead-free piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 7831-7838	2.1	2
73	Phase composition and electrical properties of K _{0.4} Na _{0.6} Nb _{1-x} TaxO ₃ lead-free thin films. <i>Ferroelectrics</i> , 2019 , 540, 103-111	0.6	
72	Perovskite Sr(NaBi)TiMnO Thin Films with Defect Dipoles for High Energy-Storage and Electrocaloric Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37947-37954	9.5	16
71	Designing oxygen bonding between reduced graphene oxide and multishelled Mn ₃ O ₄ hollow spheres for enhanced performance of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6686-6694	13	71
70	Direct synthesis of high-quality graphene on Cu powders from adsorption of small aromatic hydrocarbons: A route to high strength and electrical conductivity for graphene/Cu composite. <i>Journal of Alloys and Compounds</i> , 2019 , 798, 403-413	5.7	27
69	Free-standing porous NiP-NiP heterostructured arrays for efficient electrocatalytic water splitting. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 332-336	9.3	30
68	"One-for-All" strategy to design oxygen-deficient triple-shelled MnO and hollow FeO microcubes for high energy density asymmetric supercapacitors. <i>Dalton Transactions</i> , 2019 , 48, 8623-8632	4.3	16
67	Controlled synthesis of MOF-derived quadruple-shelled Co ₂ S hollow dodecahedrons as enhanced electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2019 , 312, 54-61	6.7	47
66	PVDF-based composites filled with PZT@Ag core-shell structured particles for enhanced dielectric properties. <i>Modern Physics Letters B</i> , 2019 , 33, 1950139	1.6	5
65	Enhanced thermal and mechanical properties of Sr _{0.2} Ba _{0.8} TiO ₃ /Cu composites by introducing Cu ₂ O interface coating. <i>Materials and Design</i> , 2019 , 166, 107594	8.1	8
64	Ultrahigh energy storage and electrocaloric performance achieved in SrTiO ₃ amorphous thin films via polar cluster engineering. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17797-17805	13	18
63	Bifunctional Electrocatalysts Based on Mo-Doped NiCoP Nanosheet Arrays for Overall Water Splitting. <i>Nano-Micro Letters</i> , 2019 , 11, 55	19.5	59
62	High energy-storage density of lead-free (SrBi)TiMnO thin films induced by Bi-V dipolar defects. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16359-16366	3.6	12
61	Oxygen-vacancy-rich nickel-cobalt layered double hydroxide electrode for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 59-65	9.3	35

60	High energy storage density at low electric field of ABO ₃ antiferroelectric films with ionic pair doping. <i>Energy Storage Materials</i> , 2019 , 18, 238-245	19.4	36
59	Designing and constructing core-shell NiCoS@NiS on Ni foam by facile one-step strategy as advanced battery-type electrodes for supercapattery. <i>Journal of Colloid and Interface Science</i> , 2019 , 536, 456-462	9.3	57
58	Heterostructural Graphene Quantum Dot/MnO Nanosheets toward High-Potential Window Electrodes for High-Performance Supercapacitors. <i>Advanced Science</i> , 2018 , 5, 1700887	13.6	155
57	Local Order and Oxygen Ion Conduction Induced High-Temperature Colossal Permittivity in Lead-Free Bi _{0.5} Na _{0.5} TiO ₃ -Based Systems. <i>ACS Applied Energy Materials</i> , 2018 , 1, 956-962	6.1	8
56	0.6ST-0.4NBT thin film with low level Mn doping as a lead-free ferroelectric capacitor with high energy storage performance. <i>Applied Physics Letters</i> , 2018 , 112, 093902	3.4	28
55	Structure-Property Relationships: High Energy Storage Performance of Opposite Double-Heterojunction Ferroelectricity Insulators (Adv. Funct. Mater. 10/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870066	15.6	1
54	High-Performance Supercapacitors: In Situ Synthesis of Vertical Standing Nanosized NiO Encapsulated in Graphene as Electrodes for High-Performance Supercapacitors (Adv. Sci. 3/2018). <i>Advanced Science</i> , 2018 , 5, 1870019	13.6	3
53	High Energy Storage Performance of Opposite Double-Heterojunction Ferroelectricity Insulators. <i>Advanced Functional Materials</i> , 2018 , 28, 1706211	15.6	79
52	Hierarchical NiCo-LDH/NiCoP@NiMn-LDH hybrid electrodes on carbon cloth for excellent supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15040-15046	13	150
51	Significantly enhanced energy storage performance in BiFeO ₃ /BaTiO ₃ /BiFeO ₃ sandwich-structured films through crystallinity regulation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 21917-21924	3.6	20
50	Achieving high strength and ductility in graphene/magnesium composite via an in-situ reaction wetting process. <i>Carbon</i> , 2018 , 139, 954-963	10.4	53
49	High strength and ductility of graphene-like carbon nanosheet/copper composites fabricated directly from commercial oleic acid coated copper powders. <i>Nanoscale</i> , 2018 , 10, 16990-16995	7.7	20
48	Preparation mechanism of hierarchical layered structure of graphene/copper composite with ultrahigh tensile strength. <i>Carbon</i> , 2018 , 127, 329-339	10.4	53
47	Interlayer coupling to enhance the energy storage performance of Na _{0.5} Bi _{0.5} TiO ₃ /Bi _{0.5} TiO ₃ multilayer films with the electric field amplifying effect. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24550-24559 ^{13, 51}	13	51
46	Correlating the electrocatalytic stability of platinum monolayer catalysts with their structural evolution in the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20725-20736	13	15
45	Mesostructured Carbon Nanotube-on-MnO Nanosheet Composite for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38963-38969	9.5	55
44	Core-branched CoSe ₂ /Ni _{0.85} Se nanotube arrays on Ni foam with remarkable electrochemical performance for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19151-19158	13	136
43	Rational construction of core-shell Ni ₃ S ₂ @Ni(OH) ₂ nanostructures as battery-like electrodes for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1985-1991	6.8	32

42	Graphene-copper composite with micro-layered grains and ultrahigh strength. <i>Scientific Reports</i> , 2017 , 7, 41896	4.9	65
41	High-energy storage density and excellent temperature stability in antiferroelectric/ferroelectric bilayer thin films. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3080-3087	3.8	43
40	Mn doping to enhance energy storage performance of lead-free 0.7NBT-0.3ST thin films with weak oxygen vacancies. <i>Applied Physics Letters</i> , 2017 , 110, 243901	3.4	79
39	Large-area synthesis of monolayer MoSe ₂ films on SiO ₂ /Si substrates by atmospheric pressure chemical vapor deposition. <i>RSC Advances</i> , 2017 , 7, 27969-27973	3.7	46
38	In situ encapsulated Fe ₃ O ₄ nanosheet arrays with graphene layers as an anode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24594-24601	13	82
37	Effect of deformation on thermal expansion behavior of Sr _{0.2} Ba _{0.8} TiO ₃ /Cu composite. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 735-741	5.7	7
36	Thermal expansion behavior of copper matrix composite containing negative thermal expansion PbTiO ₃ particles. <i>Materials and Design</i> , 2017 , 132, 442-447	8.1	23
35	Effect of defects controlled by preparation condition and heat treatment on the ferromagnetic properties of few-layer graphene. <i>Scientific Reports</i> , 2017 , 7, 5877	4.9	10
34	Hierarchical CuCo ₂ O ₄ @NiMoO ₄ core-shell hybrid arrays as a battery-like electrode for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1575-1581	6.8	43
33	Magnetic properties of N-doped graphene with high Curie temperature. <i>Scientific Reports</i> , 2016 , 6, 21832	4.9	57
32	Large-scale synthesis of few-layer graphene from magnesium and different carbon sources and its application in dye-sensitized solar cells. <i>Materials and Design</i> , 2016 , 92, 462-470	8.1	16
31	In situ growth of manganese oxide on 3D graphene by a reverse microemulsion method for supercapacitors. <i>Journal of Power Sources</i> , 2016 , 307, 129-137	8.9	28
30	Giant electrocaloric effect in PZT bilayer thin films by utilizing the electric field engineering. <i>Applied Physics Letters</i> , 2016 , 108, 162902	3.4	32
29	Defect dipole induced large recoverable strain and high energy-storage density in lead-free Na _{0.5} Bi _{0.5} TiO ₃ -based systems. <i>Applied Physics Letters</i> , 2016 , 108, 202902	3.4	108
28	Large Piezoelectric Response Induced by the Coexistence of Low-Symmetry and Self-Polarization in Li ⁺ -Nb ⁵⁺ -Doped BiFeO ₃ Polycrystalline Films. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6246-6251	3.8	6
27	Positive/negative electrocaloric effect induced by defect dipoles in PZT ferroelectric bilayer thin films. <i>RSC Advances</i> , 2016 , 6, 71934-71939	3.7	27
26	High apparent strengthening efficiency for reduced graphene oxide in copper matrix composites produced by molecule-lever mixing and high-shear mixing. <i>RSC Advances</i> , 2015 , 5, 51193-51200	3.7	38
25	Thickness-Dependent Monoclinic Phases and Piezoelectric Properties Observed in Polycrystalline (Pb _{0.94} La _{0.04})(Zr _{0.60} Ti _{0.40})O ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17487-17492	3.8	2

24	LaNiO ₃ seed layer induced enhancement of piezoelectric properties in (1 0 0)-oriented (1-x)BZT/xBCT thin films. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2041-2049	6	28
23	Large-scale synthesis and characterization of super-bundle single-walled carbon nanotubes by water-assisted chemical vapor deposition. <i>RSC Advances</i> , 2015 , 5, 30564-30569	3.7	11
22	Two-dimensional electron gas in the KNbO ₃ :Y ultrathin film. <i>Journal of Materials Science</i> , 2015 , 50, 74-78	4.3	2
21	High-Energy Storage Density and Efficiency of (1-x)[0.94 NBT/0.06 BT]xST Lead-Free Ceramics. <i>Energy Technology</i> , 2015 , 3, 1198-1204	3.5	86
20	Electrodeposited nickel cobalt sulfide nanosheet arrays on 3D-graphene/Ni foam for high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 100106-100113	3.7	32
19	Enhanced Piezoelectric Properties of Li ⁺ and Al ³⁺ -Modified Barium Titanate Ceramics. <i>Ferroelectrics</i> , 2015 , 489, 156-163	0.6	7
18	Fabrication of manganese oxide/three-dimensional reduced graphene oxide composites as the supercapacitors by a reverse microemulsion method. <i>Carbon</i> , 2015 , 85, 249-260	10.4	61
17	Microstructure and properties of carbon nanosheet/copper composites processed by particle-assisted shear exfoliation. <i>RSC Advances</i> , 2015 , 5, 19321-19328	3.7	20
16	Effect of Ball Milling on the Defeat of Few-Layer Graphene and Properties of Copper Matrix Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014 , 27, 937-943	2.5	25
15	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. <i>RSC Advances</i> , 2014 , 4, 26335-26341	3.7	29
14	Enhanced piezoelectric and mechanical properties of AlN-modified BaTiO ₃ composite ceramics. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13078-85	3.6	22
13	Large piezoelectric properties induced by doping ionic pairs in BaTiO ₃ ceramics. <i>Acta Materialia</i> , 2014 , 79, 84-92	8.4	55
12	Effect of doped boron on the properties of ZnO thin films prepared by sol-gel spin coating. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 509-512	2.2	9
11	A new polymorph phase of LiAlSiO ₄ in LiAlSiO ₄ /Cu composite. <i>Advanced Composite Materials</i> , 2014 , 23, 327-335	2.8	2
10	Effect of H ₂ Reduction Temperature on the Properties of Reduced Graphene Oxide and Copper Matrix Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014 , 27, 924-929	2.5	10
9	Enhanced performance of core-shell-like structure Zr-doped CaCu ₃ Ti ₄ O ₁₂ ceramics prepared by a flame synthetic approach. <i>RSC Advances</i> , 2012 , 2, 6073	3.7	18
8	Magnetic Properties of Co-Fe-B Amorphous Films Thermomagnetically Treated with Different Field Directions. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-5	3.2	2
7	Tensile properties of ZnO- and ZnAl ₂ O ₄ -coated aluminum borate whiskers reinforced aluminum composites at elevated temperatures. <i>Journal of Composite Materials</i> , 2012 , 46, 1475-1481	2.7	9

6	Effects of lanthanum doping on the preferred orientation, phase structure and electrical properties of sol-gel derived $Pb_{1-x}La_x(Zr_{0.6}Ti_{0.4})O_3$ thin films. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2976-2980	5.7	20
5	Microstructures and Electric Properties of Highly (111)-Oriented Nb-Doped $Pb(Zr_{0.2}Ti_{0.8})O_3$ Films with $Pb_{0.8}La_{0.1}Ca_{0.1}Ti_{0.975}O_3$ Seed Layer. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1503-1508	3.8	7
4	Tensile properties of an aluminum matrix composite reinforced by SnO_2 -coated $Al_{18}B_4O_{33}$ whisker. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 1166-1170	1	
3	Effect of interfacial state on thermal expansion behaviors of $LiAlSiO_4$ particulate-reinforced Cu composites. <i>Scripta Materialia</i> , 2010 , 62, 867-870	5.6	29
2	Thermal expansion behavior of a $LiAlSiO_4/Cu$ composite. <i>Rare Metals</i> , 2009 , 28, 82-85	5.5	9
1	Tensile properties of thermally exposed aluminium borate whisker reinforced 6061 aluminium alloy composite. <i>Materials Science and Technology</i> , 2000 , 16, 431-435	1.5	6