

Guoliang Yuan

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.

113
papers

2,772
citations

29
h-index

47
g-index

115
ext. papers

3,510
ext. citations

7.5
avg, IF

5.49
L-index

#	Paper	IF	Citations
113	Highly efficient piezo-catalysis of the heat-treated cellulose nanocrystal for dye decomposition driven by ultrasonic vibration. <i>Separation and Purification Technology</i> , 2022 , 286, 120450	8.3	6
112	Adhesive and high-sensitivity modified TiCT (MXene)-based organohydrogels with wide work temperature range for wearable sensors.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 94-102	9.3	8
111	Modification of SnO ₂ with Phosphorus-Containing Lewis Acid for High-Performance Planar Perovskite Solar Cells with Negligible Hysteresis. <i>Solar Rrl</i> , 2022 , 6, 2100942	7.1	4
110	Enhanced ferroelectric and piezoelectric response by MnO ₂ added Bi _{0.5} (K _{0.2} Na _{0.8}) _{0.5} TiO ₃ ceramics. <i>Journal of Solid State Chemistry</i> , 2021 , 306, 122716	3.3	1
109	Enhancement of piezoelectric catalysis of Na _{0.5} Bi _{0.5} TiO ₃ with electric poling for dye decomposition. <i>Ceramics International</i> , 2021 ,	5.1	8
108	Stable piezoelectric response of 0-3 type CaBi ₂ Nb ₂ O ₉ :xwt%BiFeO ₃ composites for high-temperature piezoelectric applications. <i>Journal of Asian Ceramic Societies</i> , 2021 , 9, 312-322	2.4	3
107	The integration of diverse fluorescence performances of Sr ₂ SnO ₄ :xSm ³⁺ ceramics with an infinite luminescence modulation ratio. <i>Chemical Engineering Journal</i> , 2021 , 410, 128287	14.7	14
106	Strong piezocatalysis in barium titanate/carbon hybrid nanocomposites for dye wastewater decomposition. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 758-765	9.3	24
105	Reversible and color controllable emissions in Er ³⁺ /Pr ³⁺ -codoped K _{0.5} Na _{0.5} NbO ₃ ceramics with splendid photochromic properties for anti-counterfeiting applications. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1904-1916	6	12
104	Covalently injectable chitosan/chondroitin sulfate hydrogel integrated gelatin/heparin microspheres for soft tissue engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021 , 70, 149-157	3	12
103	Ultrasensitive flexible magnetoelectric sensor. <i>APL Materials</i> , 2021 , 9, 021123	5.7	8
102	Piezoelectricity in Excess of 800 pC/N over 400 °C in BiScO-PbTiO-CaTiO Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33253-33261	9.5	5
101	Giant Bulk Photostriction of Lead Halide Perovskite Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32263-32269	9.5	0
100	Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021 , 9, 2100837	8.1	1
99	Synergetic effect of piezoelectricity and Ag deposition on photocatalytic performance of barium titanate perovskite. <i>Solar Energy</i> , 2021 , 224, 455-461	6.8	3
98	Dual Functions of Performance Improvement and Lead Leakage Mitigation of Perovskite Solar Cells Enabled by Phenylbenzimidazole Sulfonic Acid.. <i>Small Methods</i> , 2021 , e2101257	12.8	11
97	Giant modulation of photoluminescence in CsPbBr ₃ films through polarization switching of PMN-PT. <i>Applied Physics Letters</i> , 2021 , 119, 252903	3.4	

96	Emergence of Ferroelectricity in Halide Perovskites. <i>Small Methods</i> , 2020 , 4, 2000149	12.8	37
95	Ferroelastic-Domain-Assisted Mechanical Switching of Ferroelectric Domains in Pb(Zr,Ti)O ₃ Thin Films. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000300	6.4	5
94	Piezo-catalysis for nondestructive tooth whitening. <i>Nature Communications</i> , 2020 , 11, 1328	17.4	100
93	Constructing Asymmetrical Ni-Centered {NiNO} Octahedra in Layered Metal-Organic Structures for Near-Room-Temperature Single-Phase Magnetoelectricity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12841-12849	16.4	3
92	Strong tribo-catalysis of zinc oxide nanorods via triboelectrically-harvesting friction energy. <i>Ceramics International</i> , 2020 , 46, 25293-25298	5.1	17
91	Transition in temperature scaling behaviors and super temperature stable polarization in BiScO ₃ PbZrO ₃ PbTiO ₃ system. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3691-3697	3.8	2
90	Enhanced Performance of Organic Field-Effect Transistor Memory by Hole-Barrier Modulation with an N-Type Organic Buffer Layer between Pentacene and Polymer Electret. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901184	6.4	7
89	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary g-C ₃ N ₄ /TiO ₂ /PbTiO ₃ Films. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000185	4.6	7
88	Photoluminescence, thermoluminescence and reversible photoluminescence modulation of multifunctional optical materials Pr ³⁺ doped K _{1-x} Na _x NbO ₃ ferroelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3946-3955	6	24
87	A review of flexible perovskite oxide ferroelectric films and their application. <i>Journal of Materiomics</i> , 2020 , 6, 1-16	6.7	69
86	Large Piezoelectricity in Ternary Lead-Free Single Crystals. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900949	4.9	58
85	Enhanced photocatalytic efficiency in degrading organic dyes by coupling CdS nanowires with ZnFe ₂ O ₄ nanoparticles. <i>Solar Energy</i> , 2020 , 195, 271-277	6.8	20
84	Doubly crosslinked biodegradable hydrogels based on gellan gum and chitosan for drug delivery and wound dressing. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2204-2214	7.9	19
83	Enhancing photoelectrochemical performance of the BiMoO photoanode by ferroelectric polarization regulation. <i>Nanoscale</i> , 2020 , 12, 18446-18454	7.7	9
82	Composition-dependent microstructure and electrical property of (1-x)SBN-xBNBT solid solutions. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6913-6921	3.8	1
81	Highly Controllable and Silicon-Compatible Ferroelectric Photovoltaic Synapses for Neuromorphic Computing. <i>IScience</i> , 2020 , 23, 101874	6.1	9
80	Light-controlled molecular resistive switching ferroelectric heterojunction. <i>Materials Today</i> , 2020 , 34, 51-57	21.8	5
79	Transparent, Flexible, Fatigue-Free, Optical-Read, and Nonvolatile Ferroelectric Memories. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35169-35176	9.5	21

78	Construction of all-solid-state Z-scheme 2D BiVO ₄ /Ag/CdS composites with robust photoactivity and stability. <i>Applied Surface Science</i> , 2019 , 498, 143900	6.7	26
77	Photovoltaic, photo-impedance, and photo-capacitance effects of the flexible (111) BiFeO ₃ film. <i>Applied Physics Letters</i> , 2019 , 115, 112902	3.4	19
76	Covalently polysaccharide-based alginate/chitosan hydrogel embedded alginate microspheres for BSA encapsulation and soft tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 127, 340-348	7.9	53
75	High-temperature multilayer actuators based on CuO added BiScO ₃ PbTiO ₃ piezoceramics and Ag electrodes. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5424-5431	3.8	10
74	Magnetic and self-healing chitosan-alginate hydrogel encapsulated gelatin microspheres via covalent cross-linking for drug delivery. <i>Materials Science and Engineering C</i> , 2019 , 101, 619-629	8.3	80
73	Enhanced high permittivity and lowered dielectric loss in cellulose fiber framework polymer microcomposites. <i>Polymer Composites</i> , 2019 , 40, 1526-1535	3	2
72	Giant Electric Bias-Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. <i>Advanced Optical Materials</i> , 2019 , 7, 1901092	8.1	6
71	Nonvolatile Photoelectric Memory Induced by Interfacial Charge at a Ferroelectric PZT-Gated Black Phosphorus Transistor. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900458	6.4	19
70	Covalent Chitosan-Cellulose Hydrogels via Schiff-Base Reaction Containing Macromolecular Microgels for pH-Sensitive Drug Delivery and Wound Dressing. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900399	2.6	20
69	Flexible and Ultrasensitive Piezoelectric Composites Based on Highly (001)-Assembled BaTiO ₃ Microplatelets for Wearable Electronics Application. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900689	6.8	4
68	Thickness dependence of domain size in 2D ferroelectric CuInP ₂ S ₆ nanoflakes. <i>AIP Advances</i> , 2019 , 9, 115211	1.5	5
67	Photon-Induced Reversible Phase Transition in CsPbBr ₃ Perovskite. <i>Advanced Functional Materials</i> , 2019 , 29, 1807922	15.6	37
66	Energy transduction ferroic materials. <i>Materials Today</i> , 2018 , 21, 771-784	21.8	23
65	Anti-parallel polarization switching in a triglycine sulfate organic ferroelectric insulator: The role of surface charges. <i>Applied Physics Letters</i> , 2018 , 112, 162903	3.4	2
64	0B type Bi ₃ TaTiO ₉ :40wt%BiFeO ₃ composite with improved high-temperature piezoelectric properties. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 1-6	5.7	13
63	Magnetically Separable CdS/ZnFe ₂ O ₄ Composites with Highly Efficient Photocatalytic Activity and Photostability under Visible Light. <i>ACS Applied Nano Materials</i> , 2018 , 1, 831-838	5.6	37
62	Light-induced dilation in nanosheets of charge-transfer complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3776-3781	11.5	16
61	Flexible memristors as electronic synapses for neuro-inspired computation based on scotch tape-exfoliated mica substrates. <i>Nano Research</i> , 2018 , 11, 1183-1192	10	69

60	Flexible, Fatigue-Free, and Large-Scale BiLaTiO Ferroelectric Memories. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21428-21433	9.5	26
59	Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-to-Plane Ferroelectric/Semiconductor Junctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1704337	15.6	19
58	Self-Organized Ferroelectric Domains Controlled by a Constant Bias from the Atomic Force Microscopy Tip. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40911-40917	9.5	7
57	In-Plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. <i>Advanced Materials</i> , 2018 , 30, e1803249	24	45
56	Effects of LiNbO3 doping on the microstructures and electrical properties of BiScO3/BbTiO3 piezoelectric system. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 18036-18044	2.1	7
55	An All-Inorganic, Transparent, Flexible, and Nonvolatile Resistive Memory. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800412	6.4	20
54	Multifunctional Ag nanoparticles in heterostructured Ag2MoO4/Ag/AgBr cubes with boosted photocatalytic performances. <i>Solar Energy</i> , 2018 , 170, 124-131	6.8	37
53	Injectable polysaccharide hydrogel embedded with hydroxyapatite and calcium carbonate for drug delivery and bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1257-1266 ⁹²	7.9	92
52	Heterogeneous domain configurations in ferroelectric crystals during thermal depolarization. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1751-1759	3.8	8
51	High-temperature piezoelectric properties of 0-3 type CaBi4Ti4O15:xwt%BiFeO3 composites. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3522-3529	3.8	18
50	Ultrathin Cs3Bi2I9 Nanosheets as an Electronic Memory Material for Flexible Memristors. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700131	4.6	57
49	Flexible, Semitransparent, and Inorganic Resistive Memory based on BaTi Co O Film. <i>Advanced Materials</i> , 2017 , 29, 1700425	24	74
48	Flexible PbZr0.52Ti0.48O3 Capacitors with Giant Piezoelectric Response and Dielectric Tunability. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600542	6.4	66
47	Structural origin of room temperature poling enhanced piezoelectricity in modified Pb(Mg1/3Nb2/3)O3-30%PbTiO3 crystals. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4938-4944 ^{3.8}	3.8	7
46	Phase Transition in the Near-Surface Region of Ternary Pb(In1/2Nb1/2)O3/Bb(Mg1/3Nb2/3)O3/BbTiO3 Relaxor Ferroelectric Crystals. <i>Physical Review Applied</i> , 2017 , 8,	4.3	13
45	Highly Stretchable, Ultrasensitive, and Wearable Strain Sensors Based on Facilely Prepared Reduced Graphene Oxide Woven Fabrics in an Ethanol Flame. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32054-32064	9.5	117
44	Polarization dependent ferroelectric photovoltaic effects in BFTO/CuO thin films. <i>Applied Physics Letters</i> , 2017 , 111, 032901	3.4	22
43	Chiral Molecular Ferroelectrics with Polarized Optical Effect and Electroresistive Switching. <i>ACS Nano</i> , 2017 , 11, 11739-11745	16.7	16

42	CuO added Pb 0.92 Sr 0.06 Ba 0.02 (Mg 1/3 Nb 2/3) 0.25 (Ti 0.53 Zr 0.47) 0.75 O 3 ceramics sintered with Ag el. <i>Chinese Physics B</i> , 2017 , 26, 037702	1.2	12
41	Ferroelectric BiFeO ₃ as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. <i>Small</i> , 2017 , 13, 1602355	11	44
40	Ferroic phase transitions and switching properties of modified BiFeO ₃ /SrTiO ₃ multiferroic perovskites. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12067-12073	2.1	10
39	Fragile morphotropic phase boundary and phase stability in the near-surface region of the relaxor ferroelectric (1-x)Pb(Zn ^{1/3} Nb ^{2/3})O ₃ -xPbTiO ₃ : [001] field-cooled phase diagrams. <i>Physical Review B</i> , 2016 , 94,	3.3	11
38	Giant photostriction in organic-inorganic lead halide perovskites. <i>Nature Communications</i> , 2016 , 7, 11193	17.4	119
37	Large field-induced-strain at high temperature in ternary ferroelectric crystals. <i>Scientific Reports</i> , 2016 , 6, 35120	4.9	8
36	Electrical and mechanical switching of ferroelectric polarization in the 70 nm BiFeO ₃ film. <i>Scientific Reports</i> , 2016 , 6, 19092	4.9	25
35	Multifunctional Charge-Transfer Single Crystals through Supramolecular Assembly. <i>Advanced Materials</i> , 2016 , 28, 5322-9	24	13
34	External stimuli controlled multiferroic charge-transfer crystals. <i>Nano Research</i> , 2016 , 9, 925-932	10	13
33	Ferroelectric Polarization Switching Dynamics and Domain Growth of Triglycine Sulfate and Imidazolium Perchlorate. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600038	6.4	26
32	Encoding, training and retrieval in ferroelectric tunnel junctions. <i>Scientific Reports</i> , 2016 , 6, 27022	4.9	8
31	The enhanced photocurrent of epitaxial BiFeO ₃ film at 130 °C. <i>Journal of Applied Physics</i> , 2016 , 119, 044102	10.7	22
30	Structural and electrical properties of multiferroic (1-x)BiFeO ₃ -xBi _{0.5} K _{0.5} TiO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 228-233	5.7	11
29	Room Temperature Multiferroicity of Charge Transfer Crystals. <i>ACS Nano</i> , 2015 , 9, 9373-9	16.7	35
28	Flexible organic ferroelectric films with a large piezoelectric response. <i>NPG Asia Materials</i> , 2015 , 7, e189	18.9	39
27	Hierarchical heterostructures of Ag nanoparticles decorated MnO ₂ nanowires as promising electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1216-1221	13	160
26	Influence of the Strain on Dielectric and Ferroelectric Properties of 0.5BaZr _{0.2} Ti _{0.8} O ₃ -0.5Ba _{0.7} Ca _{0.3} TiO ₃ . <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2823-2828	3.8	8
25	Charge-Transfer Magnets: Multiferroicity of Carbon-Based Charge-Transfer Magnets (Adv. Mater. 4/2015). <i>Advanced Materials</i> , 2015 , 27, 733-733	24	

24	All-polymeric control of nanoferronics. <i>Science Advances</i> , 2015 , 1, e1501264	14.3	18
23	Unipolar resistive switching of ZnO-single-wire memristors. <i>Nanoscale Research Letters</i> , 2014 , 9, 381	5	18
22	Improved ferroelectricity of $(1-x)\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3-x\text{BaTiO}_3$ ceramics rapidly sintered at low temperature. <i>Ceramics International</i> , 2014 , 40, 11819-11824	5.1	13
21	The development of BiFeO ₃ -based ceramics. <i>Science Bulletin</i> , 2014 , 59, 5161-5169		24
20	Mechanism of polarization fatigue in BiFeO ₃ : The role of Schottky barrier. <i>Applied Physics Letters</i> , 2014 , 104, 012903	3.4	23
19	Facile synthesis of chain-like LiCoO ₂ nanowire arrays as three-dimensional cathode for microbatteries. <i>NPG Asia Materials</i> , 2014 , 6, e126-e126	10.3	76
18	The Origin of Enhanced Room Temperature Ferromagnetism in Ba Doped BiFeO ₃ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 3309-3313	1.5	13
17	Ferroelectric domain evolution with temperature in BaTiO ₃ film on (001) SrTiO ₃ substrate. <i>Applied Physics Letters</i> , 2013 , 103, 062903	3.4	8
16	Effect of physisorption and chemisorption of water on resonant modes of rolled-up tubular microcavities. <i>Nanoscale Research Letters</i> , 2013 , 8, 531	5	10
15	Structural Evolving Sequence and Porous Ba ₆ Zr ₂ Nb ₈ O ₃₀ Ferroelectric Ceramics with Ultrahigh Breakdown Field and Zero Strain. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 555-560	3.8	13
14	Upward ferroelectric self-polarization induced by compressive epitaxial strain in (001) BaTiO ₃ films. <i>Journal of Applied Physics</i> , 2013 , 113, 204105	2.5	45
13	Temperature Gradient Introduced Ferroelectric Self-Poling in BiFeO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3788-3792	3.8	22
12	Upward ferroelectric self-poling in (001) oriented PbZr _{0.2} Ti _{0.8} O ₃ epitaxial films with compressive strain. <i>AIP Advances</i> , 2013 , 3, 122101	1.5	41
11	Multiferroic properties of Bi _{1-x} Dy _x FeO ₃ (x=0.0-0.2) ceramics at various temperatures. <i>Materials Letters</i> , 2012 , 72, 160-163	3.3	23
10	Structure, ferroelectricity and piezoelectricity evolutions of Bi _{1-x} Sm _x FeO ₃ at various temperatures. <i>Solid State Communications</i> , 2012 , 152, 497-500	1.6	31
9	Structure and piezoelectric properties of BiFeO ₃ and Bi _{0.92} Dy _{0.08} FeO ₃ multiferroics at high temperature. <i>Solid State Communications</i> , 2012 , 152, 1194-1198	1.6	11
8	Characterization and manipulation of mixed phase nanodomains in highly strained BiFeO ₃ thin films. <i>ACS Nano</i> , 2012 , 6, 5388-94	16.7	71
7	Structure, ferroelectric and piezoelectric properties of multiferroic Bi _{0.875} Sm _{0.125} FeO ₃ ceramics. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 173-176	5.7	44

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| 6 | Coexistence of unipolar and bipolar resistive switching in BiFeO ₃ and Bi _{0.8} Ca _{0.2} FeO ₃ films. <i>Journal of Applied Physics</i> , 2012 , 111, 104103 | 2.5 | 35 |
| 5 | Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15521 | | 40 |
| 4 | Development and Prospects of Halide Perovskite Single Crystal Films. <i>Advanced Electronic Materials</i> , 2106980 | 6.8 | 1 |
| 3 | Thermally Stable Piezoelectric Performance of MnO ₂ Inserted Pseudo-tetragonal Phase Existent CaBi ₂ Nb ₂ O ₉ -based Ceramics. <i>Materials Technology</i> , 1-9 | 2.1 | 0 |
| 2 | Coupled Current Jumps and Domain Wall Creeps in a Defect-Engineered Ferroelectric Resistive Memory. <i>Advanced Electronic Materials</i> , 2101059 | 6.4 | 1 |
| 1 | Robust Flexo-Catalysis in Centrosymmetric Nanoparticles. <i>Advanced Materials Technologies</i> , 2101484 | 6.8 | 1 |