

Guoliang Yuan

List of Publications by Year in descending order

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115
papers

4,259
citations

101543

36
h-index

128289

60
g-index

115
all docs

115
docs citations

115
times ranked

6041
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of piezoelectric catalysis of Na _{0.5} Bi _{0.5} TiO ₃ with electric poling for dye decomposition. <i>Ceramics International</i> , 2022, 48, 3695-3701.	4.8	31
2	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> , 2022, 306, 122716.	2.9	11
3	Development and Prospects of Halide Perovskite Single Crystal Films. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	6
4	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.	7.9	38
5	Adhesive and high-sensitivity modified Ti ₃ C ₂ TX (MXene)-based organohydrogels with wide work temperature range for wearable sensors. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 94-102.	9.4	34
6	Thermally Stable Piezoelectric Performance of MnO ₂ Inserted Pseudo-tetragonal Phase Existent CaBi ₂ Nb ₂ O ₉ -based Ceramics. <i>Materials Technology</i> , 2022, 37, 2702-2710.	3.0	7
7	Dual Functions of Performance Improvement and Lead Leakage Mitigation of Perovskite Solar Cells Enabled by Phenylbenzimidazole Sulfonic Acid. <i>Small Methods</i> , 2022, 6, e2101257.	8.6	22
8	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, .	5.8	17
9	Flexible multi-state nonvolatile antiferroelectric memory. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6232-6240.	3.8	3
10	Robust Flexo-Catalysis in Centrosymmetric Nanoparticles. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	6
11	The Enhancement of Photochromism and Luminescence Modulation Properties of Ferroelectric Ceramics via Chemical and Physical Strategies. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	13
12	Strong piezocatalysis in barium titanate/carbon hybrid nanocomposites for dye wastewater decomposition. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 758-765.	9.4	71
13	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.	5.7	43
14	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.	3.4	20
15	Ultrasensitive flexible magnetoelectric sensor. <i>APL Materials</i> , 2021, 9, .	5.1	25
16	The integration of diverse fluorescence performances of Sr _{2-x} SnO ₄ :xSm ³⁺ ceramics with an infinite luminescence modulation ratio. <i>Chemical Engineering Journal</i> , 2021, 410, 128287.	12.7	31
17	Piezoelectricity in Excess of 800 pC/N over 400 Å°C in BiScO ₃ -PbTiO ₃ -CaTiO ₃ Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33253-33261.	8.0	19
18	Giant Bulk Photostriction of Lead Halide Perovskite Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32263-32269.	8.0	6

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19	Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2100837.	7.3	12
20	Synergetic effect of piezoelectricity and Ag deposition on photocatalytic performance of barium titanate perovskite. <i>Solar Energy</i> , 2021, 224, 455-461.	6.1	22
21	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.	2.3	7
22	Giant modulation of photoluminescence in CsPbBr ₃ films through polarization switching of PMN-PT. <i>Applied Physics Letters</i> , 2021, 119, 252903.	3.3	0
23	Light-controlled molecular resistive switching ferroelectric heterojunction. <i>Materials Today</i> , 2020, 34, 51-57.	14.2	10
24	A review of flexible perovskite oxide ferroelectric films and their application. <i>Journal of Materiomics</i> , 2020, 6, 1-16.	5.7	136
25	Large Piezoelectricity in Ternary Lead-Free Single Crystals. <i>Advanced Electronic Materials</i> , 2020, 6, 1900949.	5.1	83
26	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.	6.1	30
27	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.	7.5	68
28	Enhancing photoelectrochemical performance of the Bi ₂ Mo ₆ photoanode by ferroelectric polarization regulation. <i>Nanoscale</i> , 2020, 12, 18446-18454.	5.6	13
29	Composition-dependent microstructure and electrical property of (1-x)SbN _x BNBT solid solutions. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6913-6921.	3.8	4
30	Highly Controllable and Silicon-Compatible Ferroelectric Photovoltaic Synapses for Neuromorphic Computing. <i>IScience</i> , 2020, 23, 101874.	4.1	32
31	Emergence of Ferroelectricity in Halide Perovskites. <i>Small Methods</i> , 2020, 4, 2000149.	8.6	95
32	Ferroelastic-Domain-Assisted Mechanical Switching of Ferroelectric Domains in Pb(Zr,Ti)O ₃ Thin Films. <i>Advanced Electronic Materials</i> , 2020, 6, 2000300.	5.1	12
33	Piezo-catalysis for nondestructive tooth whitening. <i>Nature Communications</i> , 2020, 11, 1328.	12.8	236
34	Constructing Asymmetrical Ni-Centered {NiN ₂ O ₄ } 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.	13.7	7
35	Strong tribo-catalysis of zinc oxide nanorods via triboelectrically-harvesting friction energy. <i>Ceramics International</i> , 2020, 46, 25293-25298.	4.8	46
36	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	4

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37	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.	5.1	14
38	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary $\text{g-C}_3\text{N}_4/\text{TiO}_2/\text{PbTiO}_3$ Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000185.	3.7	11
39	Photoluminescence, thermoluminescence and reversible photoluminescence modulation of multifunctional optical materials Pr^{3+} doped $\text{KNa}_1\text{-NbO}_3$ ferroelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3946-3955.	5.7	38
40	Enhanced high permittivity and lowered dielectric loss in cellulose-fiber framework polymer microcomposites. <i>Polymer Composites</i> , 2019, 40, 1526-1535.	4.6	3
41	Giant Electric Bias-Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. <i>Advanced Optical Materials</i> , 2019, 7, 1901092.	7.3	8
42	Nonvolatile Photoelectric Memory Induced by Interfacial Charge at a Ferroelectric PZT-Gated Black Phosphorus Transistor. <i>Advanced Electronic Materials</i> , 2019, 5, 1900458.	5.1	31
43	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.	2.2	35
44	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.	5.8	9
45	Thickness dependence of domain size in 2D ferroelectric CuInP_2S_6 nanoflakes. <i>AIP Advances</i> , 2019, 9, .	1.3	19
46	Transparent, Flexible, Fatigue-Free, Optical-Read, and Nonvolatile Ferroelectric Memories. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35169-35176.	8.0	35
47	Construction of all-solid-state Z-scheme 2D $\text{BiVO}_4/\text{Ag}/\text{CdS}$ composites with robust photoactivity and stability. <i>Applied Surface Science</i> , 2019, 498, 143900.	6.1	40
48	Photovoltaic, photo-impedance, and photo-capacitance effects of the flexible (111) BiFeO_3 film. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	26
49	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.	7.5	93
50	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	17
51	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.	7.3	149
52	Photon-Induced Reversible Phase Transition in CsPbBr_3 Perovskite. <i>Advanced Functional Materials</i> , 2019, 29, 1807922.	14.9	56
53	Energy transduction ferroic materials. <i>Materials Today</i> , 2018, 21, 771-784.	14.2	30
54	Anti-parallel polarization switching in a triglycine sulfate organic ferroelectric insulator: The role of surface charges. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	4

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55	O ³ type Bi ₃ TaTiO ₉ :40wt%BiFeO ₃ composite with improved high-temperature piezoelectric properties. Journal of Alloys and Compounds, 2018, 740, 1-6.	5.5	18
56	Magnetically Separable CdS/ZnFe ₂ O ₄ Composites with Highly Efficient Photocatalytic Activity and Photostability under Visible Light. ACS Applied Nano Materials, 2018, 1, 831-838.	5.0	47
57	Light-induced dilation in nanosheets of charge-transfer complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3776-3781.	7.1	20
58	Flexible memristors as electronic synapses for neuro-inspired computation based on scotch tape-exfoliated mica substrates. Nano Research, 2018, 11, 1183-1192.	10.4	91
59	Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-Plane Ferroelectric/Semiconductor Junctions. Advanced Functional Materials, 2018, 28, 1704337.	14.9	21
60	Self-Organized Ferroelectric Domains Controlled by a Constant Bias from the Atomic Force Microscopy Tip. ACS Applied Materials & Interfaces, 2018, 10, 40911-40917.	8.0	9
61	In-Plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. Advanced Materials, 2018, 30, e1803249.	21.0	76
62	Effects of LiNbO ₃ doping on the microstructures and electrical properties of BiScO ₃ -PbTiO ₃ piezoelectric system. Journal of Materials Science: Materials in Electronics, 2018, 29, 18036-18044.	2.2	10
63	An All-Inorganic, Transparent, Flexible, and Nonvolatile Resistive Memory. Advanced Electronic Materials, 2018, 4, 1800412.	5.1	25
64	Multifunctional Ag nanoparticles in heterostructured Ag ₂ MoO ₄ /Ag/AgBr cubes with boosted photocatalytic performances. Solar Energy, 2018, 170, 124-131.	6.1	44
65	Injectable polysaccharide hydrogel embedded with hydroxyapatite and calcium carbonate for drug delivery and bone tissue engineering. International Journal of Biological Macromolecules, 2018, 118, 1257-1266.	7.5	147
66	Flexible, Fatigue-Free, and Large-Scale Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ Ferroelectric Memories. ACS Applied Materials & Interfaces, 2018, 10, 21428-21433.	8.0	35
67	Heterogeneous domain configurations in ferroelectric crystals during thermal depolarization. Journal of the American Ceramic Society, 2017, 100, 1751-1759.	3.8	10
68	High-temperature piezoelectric properties of O ³ type CaBi ₄ Ti ₄ O ₁₅ :x wt%BiFeO ₃ composites. Journal of the American Ceramic Society, 2017, 100, 3522-3529.	3.8	29
69	Ultrathin Cs ₃ Bi ₂ I ₉ Nanosheets as an Electronic Memory Material for Flexible Memristors. Advanced Materials Interfaces, 2017, 4, 1700131.	3.7	90
70	Flexible, Semitransparent, and Inorganic Resistive Memory based on BaTi _{0.95} Co _{0.05} O ₃ Film. Advanced Materials, 2017, 29, 1700425.	21.0	89
71	Flexible PbZr _{0.52} Ti _{0.48} O ₃ Capacitors with Giant Piezoelectric Response and Dielectric Tunability. Advanced Electronic Materials, 2017, 3, 1600542.	5.1	80
72	Structural origin of room temperature poling enhanced piezoelectricity in modified Pb(Mg _{1/3} Nb _{2/3})O ₃ -30%PbTiO ₃ crystals. Journal of the American Ceramic Society, 2017, 100, 4938-4944.	3.8	8

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73	Phase Transition in the Near-Surface Region of Ternary $PbIn_2Sb_2Te_6$. ACS Applied Materials & Interfaces, 2017, 9, 32054-32064.	3.8	15
74	Highly Stretchable, Ultrasensitive, and Wearable Strain Sensors Based on Facilely Prepared Reduced Graphene Oxide Woven Fabrics in an Ethanol Flame. ACS Applied Materials & Interfaces, 2017, 9, 32054-32064.	8.0	156
75	Polarization dependent ferroelectric photovoltaic effects in BFTO/CuO thin films. Applied Physics Letters, 2017, 111, .	3.3	27
76	Chiral Molecular Ferroelectrics with Polarized Optical Effect and Electroresistive Switching. ACS Nano, 2017, 11, 11739-11745.	14.6	26
77	CuO added $Pb_{0.92}Sr_{0.06}Ba_{0.02}(Mg_{1/3}Nb)Tj$ ETQq1 1 0.784314 rgBT /Overlo B, 2017, 26, 037702.	1.4	18
78	Ferroelectric $BiFeO_3$ as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. Small, 2017, 13, 1602355.	10.0	53
79	Ferroelectric Polarization Switching Dynamics and Domain Growth of Triglycine Sulfate and Imidazolium Perchlorate. Advanced Electronic Materials, 2016, 2, 1600038.	5.1	31
80	Encoding, training and retrieval in ferroelectric tunnel junctions. Scientific Reports, 2016, 6, 27022.	3.3	8
81	The enhanced photocurrent of epitaxial $BiFeO_3$ film at $130^\circ C$. Journal of Applied Physics, 2016, 119, .	2.5	28
82	Structural and electrical properties of multiferroic $(1-x)BiFeO_3 \cdot xBi_{0.5}K_{0.5}TiO_3$ ceramics. Journal of Alloys and Compounds, 2016, 678, 228-233.	5.5	16
83	Ferroic phase transitions and switching properties of modified $BiFeO_3 \cdot SrTiO_3$ multiferroic perovskites. Journal of Materials Science: Materials in Electronics, 2016, 27, 12067-12073.	2.2	12
84	Fragile morphotropic phase boundary and phase stability in the near-surface region of the relaxor ferroelectric $Pb_{0.9}Pb_{0.1}Bi_{0.5}K_{0.5}TiO_3$		

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91	Charge-Transfer Magnets: Multiferroicity of Carbon-Based Charge-Transfer Magnets (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overloc	21.0	10
92	All-polymeric control of nanoferronics. Science Advances, 2015, 1, e1501264.	10.3	18
93	Room Temperature Multiferroicity of Charge Transfer Crystals. ACS Nano, 2015, 9, 9373-9379.	14.6	38
94	Flexible organic ferroelectric films with a large piezoelectric response. NPG Asia Materials, 2015, 7, e189-e189.	7.9	47
95	Hierarchical heterostructures of Ag nanoparticles decorated MnO ₂ nanowires as promising electrodes for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 1216-1221.	10.3	179
96	The development of BiFeO ₃ -based ceramics. Science Bulletin, 2014, 59, 5161-5169.	1.7	40
97	Mechanism of polarization fatigue in BiFeO ₃ : The role of Schottky barrier. Applied Physics Letters, 2014, 104, 012903.	3.3	23
98	Facile synthesis of chain-like LiCoO ₂ nanowire arrays as three-dimensional cathode for microbatteries. NPG Asia Materials, 2014, 6, e126-e126.	7.9	90
99	Unipolar resistive switching of ZnO-single-wire memristors. Nanoscale Research Letters, 2014, 9, 381.	5.7	22
100	Improved ferroelectricity of (1-x)Na _{0.5} Bi _{0.5} TiO ₃ -xBaTiO ₃ ceramics rapidly sintered at low temperature. Ceramics International, 2014, 40, 11819-11824.	4.8	20
101	The Origin of Enhanced Room Temperature Ferromagnetism in Ba Doped BiFeO ₃ . Journal of Superconductivity and Novel Magnetism, 2013, 26, 3309-3313.	1.8	13
102	Ferroelectric domain evolution with temperature in BaTiO ₃ film on (001) SrTiO ₃ substrate. Applied Physics Letters, 2013, 103, .	3.3	9
103	Effect of physisorption and chemisorption of water on resonant modes of rolled-up tubular microcavities. Nanoscale Research Letters, 2013, 8, 531.	5.7	11
104	Structural Evolving Sequence and Porous Ba ₆ Zr ₂ Nb ₈ Ferroelectric Ceramics with Ultrahigh Breakdown Field and Zero Strain. Journal of the American Ceramic Society, 2013, 96, 555-560.	3.8	17
105	Upward ferroelectric self-polarization induced by compressive epitaxial strain in (001) BaTiO ₃ films. Journal of Applied Physics, 2013, 113, .	2.5	48
106	Temperature Gradient Introduced Ferroelectric Self-Poling in BiFeO ₃ Ceramics. Journal of the American Ceramic Society, 2013, 96, 3788-3792.	3.8	23
107	Upward ferroelectric self-poling in (001) oriented PbZr _{0.2} Ti _{0.8} O ₃ epitaxial films with compressive strain. AIP Advances, 2013, 3, .	1.3	42
108	Coexistence of unipolar and bipolar resistive switching in BiFeO ₃ and Bi _{0.8} Ca _{0.2} FeO ₃ films. Journal of Applied Physics, 2012, 111, .	2.5	42

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109	Characterization and Manipulation of Mixed Phase Nanodomains in Highly Strained BiFeO ₃ Thin Films. ACS Nano, 2012, 6, 5388-5394.	14.6	72
110	Structure, ferroelectric and piezoelectric properties of multiferroic Bi _{0.875} Sm _{0.125} FeO ₃ ceramics. Journal of Alloys and Compounds, 2012, 541, 173-176.	5.5	47
111	Multiferroic properties of Bi _{1-x} Dy _x FeO ₃ (x=0~0.2) ceramics at various temperatures. Materials Letters, 2012, 72, 160-163.	2.6	28
112	Structure, ferroelectricity and piezoelectricity evolutions of Bi _{1-x} Sm _x FeO ₃ at various temperatures. Solid State Communications, 2012, 152, 497-500.	1.9	33
113	Structure and piezoelectric properties of BiFeO ₃ and Bi _{0.92} Dy _{0.08} FeO ₃ multiferroics at high temperature. Solid State Communications, 2012, 152, 1194-1198.	1.9	11
114	Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. Journal of Materials Chemistry, 2011, 21, 15521.	6.7	45
115	Coupled Current Jumps and Domain Wall Creeps in a Defect-Engineered Ferroelectric Resistive Memory. Advanced Electronic Materials, 0, , 2101059.	5.1	5