Guoliang Yuan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2465243/publications.pdf

Version: 2024-02-01

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	Piezo-catalysis for nondestructive tooth whitening. Nature Communications, 2020, 11, 1328.	12.8	236
2	Hierarchical heterostructures of Ag nanoparticles decorated MnO₂nanowires as promising electrodes for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 1216-1221.	10.3	179
3	Giant photostriction in organicâ€“inorganic lead halide perovskites. Nature Communications, 2016, 7, 11193.	12.8	164
4	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
5	Magnetic and self-healing chitosan-alginate hydrogel encapsulated gelatin microspheres via covalent cross-linking for drug delivery. Materials Science and Engineering C, 2019, 101, 619-629.	7.3	149
6	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
7	A review of flexible perovskite oxide ferroelectric films and their application. Journal of Materiomics, 2020, 6, 1-16.	5.7	136
8	Emergence of Ferroelectricity in Halide Perovskites. Small Methods, 2020, 4, 2000149.	8.6	95
9	Covalently polysaccharide-based alginate/chitosan hydrogel embedded alginate microspheres for BSA encapsulation and soft tissue engineering. International Journal of Biological Macromolecules, 2019, 127, 340-348.	7.5	93
10	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
11	Facile synthesis of chain-like LiCoO2 nanowire arrays as three-dimensional cathode for microbatteries. NPG Asia Materials, 2014, 6, e126-e126.	7.9	90
12	Ultrathin Cs₃Bi₂I₉ Nanosheets as an Electronic Memory Material for Flexible Memristors. Advanced Materials Interfaces, 2017, 4, 1700131.	3.7	90
13	Flexible, Semitransparent, and Inorganic Resistive Memory based on BaTi_{0.95}Co_{0.05}O₃ Film. Advanced Materials, 2017, 29, 1700425.	21.0	89
14	Large Piezoelectricity in Ternary Leadâ€Free Single Crystals. Advanced Electronic Materials, 2020, 6, 1900949.	5.1	83
15	Flexible PbZr_{0.52}Ti_{0.48}O₃ Capacitors with Giant Piezoelectric Response and Dielectric Tunability. Advanced Electronic Materials, 2017, 3, 1600542.	5.1	80
16	Inâ€Plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. Advanced Materials, 2018, 30, e1803249.	21.0	76
17	Characterization and Manipulation of Mixed Phase Nanodomains in Highly Strained BiFeO₃ Thin Films. ACS Nano, 2012, 6, 5388-5394.	14.6	72
18	Strong piezocatalysis in barium titanate/carbon hybrid nanocomposites for dye wastewater decomposition. Journal of Colloid and Interface Science, 2021, 586, 758-765.	9.4	71

#	Article	IF	Citations
19	Doubly crosslinked biodegradable hydrogels based on gellan gum and chitosan for drug delivery and wound dressing. International Journal of Biological Macromolecules, 2020, 164, 2204-2214.	7.5	68
20	Photonâ€Induced Reversible Phase Transition in CsPbBr₃ Perovskite. Advanced Functional Materials, 2019, 29, 1807922.	14.9	56
21	Ferroelectric BiFeO₃as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. Small, 2017, 13, 1602355.	10.0	53
22	Upward ferroelectric self-polarization induced by compressive epitaxial strain in (001) BaTiO3 films. Journal of Applied Physics, 2013, 113, .	2.5	48
23	Structure, ferroelectric and piezoelectric properties of multiferroic Bi0.875Sm0.125FeO3 ceramics. Journal of Alloys and Compounds, 2012, 541, 173-176.	5.5	47
24	Flexible organic ferroelectric films with a large piezoelectric response. NPG Asia Materials, 2015, 7, e189-e189.	7.9	47
25	Magnetically Separable CdS/ZnFe₂O₄ Composites with Highly Efficient Photocatalytic Activity and Photostability under Visible Light. ACS Applied Nano Materials, 2018, 1, 831-838.	5.0	47
26	Strong tribo-catalysis of zinc oxide nanorods via triboelectrically-harvesting friction energy. Ceramics International, 2020, 46, 25293-25298.	4.8	46
27	Porous manganese oxide generated from lithiation/delithiation with improved electrochemical oxidation for supercapacitors. Journal of Materials Chemistry, 2011, 21, 15521.	6.7	45
28	Multifunctional Ag nanoparticles in heterostructured Ag2MoO4/Ag/AgBr cubes with boosted photocatalytic performances. Solar Energy, 2018, 170, 124-131.	6.1	44
29	Reversible and color controllable emissions in Er3+/Pr3+-codoped K0.5Na0.5NbO3 ceramics with splendid photochromic properties for anti-counterfeiting applications. Journal of the European Ceramic Society, 2021, 41, 1904-1916.	5.7	43
30	Coexistence of unipolar and bipolar resistive switching in BiFeO3 and Bi0.8Ca0.2FeO3 films. Journal of Applied Physics, 2012, 111, .	2.5	42
31	Upward ferroelectric self-poling in (001) oriented PbZr0.2Ti0.8O3 epitaxial films with compressive strain. AIP Advances, 2013, 3, .	1.3	42
32	The development of BiFeO3-based ceramics. Science Bulletin, 2014, 59, 5161-5169.	1.7	40
33	Construction of all-solid-state Z-scheme 2D BiVO4/Ag/CdS composites with robust photoactivity and stability. Applied Surface Science, 2019, 498, 143900.	6.1	40
34	Room Temperature Multiferroicity of Charge Transfer Crystals. ACS Nano, 2015, 9, 9373-9379.	14.6	38
35	Photoluminescence, thermoluminescence and reversible photoluminescence modulation of multifunctional optical materials Pr3+ doped K Na1-NbO3 ferroelectric ceramics. Journal of the European Ceramic Society, 2020, 40, 3946-3955.	5.7	38
36	Highly efficient piezo-catalysis of the heat-treated cellulose nanocrystal for dye decomposition driven by ultrasonic vibration. Separation and Purification Technology, 2022, 286, 120450.	7.9	38

#	Article	IF	Citations
37	Flexible, Fatigue-Free, and Large-Scale Bi_{3.25}La_{0.75}Ti₃O₁₂ Ferroelectric Memories. ACS Applied Materials & Interfaces, 2018, 10, 21428-21433.	8.0	35
38	Covalent Chitosanâ€Cellulose Hydrogels via Schiffâ€Base Reaction Containing Macromolecular Microgels for pHâ€Sensitive Drug Delivery and Wound Dressing. Macromolecular Chemistry and Physics, 2019, 220, 1900399.	2.2	35
39	Transparent, Flexible, Fatigue-Free, Optical-Read, and Nonvolatile Ferroelectric Memories. ACS Applied Materials & Interfaces, 2019, 11, 35169-35176.	8.0	35
40	Adhesive and high-sensitivity modified Ti3C2TX (MXene)-based organohydrogels with wide work temperature range for wearable sensors. Journal of Colloid and Interface Science, 2022, 613, 94-102.	9.4	34
41	Structure, ferroelectricity and piezoelectricity evolutions of Bi1â^'xSmxFeO3 at various temperatures. Solid State Communications, 2012, 152, 497-500.	1.9	33
42	Highly Controllable and Silicon-Compatible Ferroelectric Photovoltaic Synapses for Neuromorphic Computing. IScience, 2020, 23, 101874.	4.1	32
43	Ferroelectric Polarization Switching Dynamics and Domain Growth of Triglycine Sulfate and Imidazolium Perchlorate. Advanced Electronic Materials, 2016, 2, 1600038.	5.1	31
44	Nonvolatile Photoelectric Memory Induced by Interfacial Charge at a Ferroelectric PZTâ€Gated Black Phosphorus Transistor. Advanced Electronic Materials, 2019, 5, 1900458.	5.1	31
45	The integration of diverse fluorescence performances of Sr2â^'SnO4:xSm3+ ceramics with an infinite luminescence modulation ratio. Chemical Engineering Journal, 2021, 410, 128287.	12.7	31
46	Enhancement of piezoelectric catalysis of Na0.5Bi0.5TiO3 with electric poling for dye decomposition. Ceramics International, 2022, 48, 3695-3701.	4.8	31
47	Energy transduction ferroic materials. Materials Today, 2018, 21, 771-784.	14.2	30
48	Enhanced photocatalytic efficiency in degrading organic dyes by coupling CdS nanowires with ZnFe2O4 nanoparticles. Solar Energy, 2020, 195, 271-277.	6.1	30
49	Highâ€temperature piezoelectric properties of 0â€3 type CaBi₄Ti₄O₁₅:xÂwt%BiFeO₃ composites. Journal of the American Ceramic Society, 2017, 100, 3522-3529.	3.8	29
50	Multiferroic properties of Bi1â^'xDyxFeO3 (x=0â€“0.2) ceramics at various temperatures. Materials Letters, 2012, 72, 160-163.	2.6	28
51	The enhanced photocurrent of epitaxial BiFeO3 film at 130â€‰Â°C. Journal of Applied Physics, 2016, 119, .	2.5	28
52	Electrical and mechanical switching of ferroelectric polarization in the 70 nm BiFeO3 film. Scientific Reports, 2016, 6, 19092.	3.3	28
53	Polarization dependent ferroelectric photovoltaic effects in BFTO/CuO thin films. Applied Physics Letters, 2017, 111, .	3.3	27
54	Chiral Molecular Ferroelectrics with Polarized Optical Effect and Electroresistive Switching. ACS Nano, 2017, 11, 11739-11745.	14.6	26

#	Article	IF	Citations
55	Photovoltaic, photo-impedance, and photo-capacitance effects of the flexible (111) BiFeO3 film. Applied Physics Letters, 2019, 115, .	3.3	26
56	An Allâ€Inorganic, Transparent, Flexible, and Nonvolatile Resistive Memory. Advanced Electronic Materials, 2018, 4, 1800412.	5.1	25
57	Ultrasensitive flexible magnetoelectric sensor. APL Materials, 2021, 9, .	5.1	25
58	Temperature Gradient Introduced Ferroelectric Selfâ€Poling in <scp><scp>BiFeO</scp></scp>₃ Ceramics. Journal of the American Ceramic Society, 2013, 96, 3788-3792.	3.8	23
59	Mechanism of polarization fatigue in BiFeO₃: The role of Schottky barrier. Applied Physics Letters, 2014, 104, 012903.	3.3	23
60	Unipolar resistive switching of ZnO-single-wire memristors. Nanoscale Research Letters, 2014, 9, 381.	5.7	22
61	Synergetic effect of piezoelectricity and Ag deposition on photocatalytic performance of barium titanate perovskite. Solar Energy, 2021, 224, 455-461.	6.1	22
62	Dual Functions of Performance Improvement and Lead Leakage Mitigation of Perovskite Solar Cells Enabled by Phenylbenzimidazole Sulfonic Acid. Small Methods, 2022, 6, e2101257.	8.6	22
63	Multifunctional Chargeâ€Transfer Single Crystals through Supramolecular Assembly. Advanced Materials, 2016, 28, 5322-5329.	21.0	21
64	Colossal Xâ€Rayâ€Induced Persistent Photoconductivity in Currentâ€Perpendicularâ€toâ€Plane Ferroelectric/Semiconductor Junctions. Advanced Functional Materials, 2018, 28, 1704337.	14.9	21
65	Improved ferroelectricity of (1â^'x)Na0.5Bi0.5TiO3â€“xBaTiO3 ceramics rapidly sintered at low temperature. Ceramics International, 2014, 40, 11819-11824.	4.8	20
66	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
67	Covalently injectable chitosan/chondroitin sulfate hydrogel integrated gelatin/heparin microspheres for soft tissue engineering. International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70, 149-157.	3.4	20
68	Thickness dependence of domain size in 2D ferroelectric CuInP2S6 nanoflakes. AIP Advances, 2019, 9, .	1.3	19
69	Piezoelectricity in Excess of 800 pC/N over 400 Â°C in BiScO₃â€“PbTiO₃â€“CaTiO₃ Ceramics. ACS Applied Materials & Interfaces, 2021, 13, 33253-33261.	8.0	19
70	All-polymeric control of nanoferronics. Science Advances, 2015, 1, e1501264.	10.3	18
71	CuO added Pb _{0.92} Sr _{0.06} Ba _{0.02} (Mg _{1/3} Nb) Tj ETQq1 1 0.784314 rgBT /Ove B, 2017, 26, 037702.	1.4	18
72	0â€“3 type Bi3TaTiO9:40wt%BiFeO3 composite with improved high-temperature piezoelectric properties. Journal of Alloys and Compounds, 2018, 740, 1-6.	5.5	18

#	Article	IF	Citations
73	Structural Evolving Sequence and Porous <scp><scp>Ba</scp></scp>₆<scp><scp>Zr</scp></scp>₂<scp><scp>Nb</scp></scp>₈<scp><s Ferroelectric Ceramics with Ultrahigh Breakdown Field and Zero Strain. Journal of the American Ceramic Society, 2013, 96, 555-560.	3.8	17
74	Highâ€temperature multilayer actuators based on CuO added BiScO₃â€“PbTiO₃ piezoceramics and Ag electrodes. Journal of the American Ceramic Society, 2019, 102, 5424-5431.	3.8	17
75	Modification of SnO₂ with Phosphorusâ€Containing Lewis Acid for Highâ€Performance Planar Perovskite Solar Cells with Negligible Hysteresis. Solar Rrl, 2022, 6, .	5.8	17
76	Structural and electrical properties of multiferroic (1â^'x)BiFeO3â^'xBi0.5K0.5TiO3 ceramics. Journal of Alloys and Compounds, 2016, 678, 228-233.	5.5	16
77	External stimuli controlled multiferroic charge-transfer crystals. Nano Research, 2016, 9, 925-932.	10.4	16
78	Phase Transition in the Near-Surface Region of Ternary <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pb</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mi>In</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:	3.8	15
79	Enhanced Performance of Organic Fieldâ€Effect Transistor Memory by Holeâ€Barrier Modulation with an Nâ€Type Organic Buffer Layer between Pentacene and Polymer Electret. Advanced Electronic Materials, 2020, 6, 1901184.	5.1	14
80	The Origin of Enhanced Room Temperature Ferromagnetism in Ba Doped BiFeO3. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3309-3313.	1.8	13
81	Enhancing photoelectrochemical performance of the Bi₂MoO₆ photoanode by ferroelectric polarization regulation. Nanoscale, 2020, 12, 18446-18454.	5.6	13
82	The Enhancement of Photochromism and Luminescence Modulation Properties of Ferroelectric Ceramics via Chemical and Physical Strategies. Laser and Photonics Reviews, 2022, 16, .	8.7	13
83	Ferroic phase transitions and switching properties of modified BiFeO3â€“SrTiO3 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 <mml:math		

#	Article	IF	Citations
91	Influence of the Strain on Dielectric and Ferroelectric Properties of 0.5BaZr_{0.2}Ti_{0.8}O₃â€“0.5Ba_{0.7}Ca_{0.3}TiO₃. Journal of the American Ceramic Society, 2015, 98, 2823-2828.	3.8	10
92	Heterogeneous domain configurations in ferroelectric crystals during thermal depolarization. Journal of the American Ceramic Society, 2017, 100, 1751-1759.	3.8	10
93	Effects of LiNbO3 doping on the microstructures and electrical properties of BiScO3â€“PbTiO3 piezoelectric system. Journal of Materials Science: Materials in Electronics, 2018, 29, 18036-18044.	2.2	10
94	Light-controlled molecular resistive switching ferroelectric heterojunction. Materials Today, 2020, 34, 51-57.	14.2	10
95	Ferroelectric domain evolution with temperature in BaTiO3 film on (001) SrTiO3 substrate. Applied Physics Letters, 2013, 103, .	3.3	9
96	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
97	Flexible and Ultrasensitive Piezoelectric Composites Based on Highly (00l)â€Assembled BaTiO₃ Microplatelets for Wearable Electronics Application. Advanced Materials Technologies, 2019, 4, 1900689.	5.8	9
98	Encoding, training and retrieval in ferroelectric tunnel junctions. Scientific Reports, 2016, 6, 27022.	3.3	8
99	Large field-induced-strain at high temperature in ternary ferroelectric crystals. Scientific Reports, 2016, 6, 35120.	3.3	8
100	Structural origin of room temperature poling enhanced piezoelectricity in modified Pb(Mg_{1/3}Nb_{2/3})O₃â€30%PbTiO₃ crystals. Journal of the American Ceramic Society, 2017, 100, 4938-4944.	3.8	8
101	Giant Electric Biasâ€Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. Advanced Optical Materials, 2019, 7, 1901092.	7.3	8
102	Constructing Asymmetrical Ni-Centered {NiN₂O₄} Octahedra in Layered Metalâ€“Organic Structures for Near-Room-Temperature Single-Phase Magnetoelectricity. Journal of the American Chemical Society, 2020, 142, 12841-12849.	13.7	7
103	Stable piezoelectric response of 0-3 type CaBi2Nb2O9:xwt%BiFeO3 composites for high-temperature piezoelectric applications. Journal of Asian Ceramic Societies, 2021, 9, 312-322.	2.3	7
104	Thermally Stable Piezoelectric Performance of MnO2 Inserted Pseudo-tetragonal Phase Existent CaBi2Nb2O9-based Ceramics. Materials Technology, 2022, 37, 2702-2710.	3.0	7
105	Giant Bulk Photostriction of Lead Halide Perovskite Single Crystals. ACS Applied Materials & Interfaces, 2021, 13, 32263-32269.	8.0	6
106	Development and Prospects of Halide Perovskite Single Crystal Films. Advanced Electronic Materials, 2022, 8, .	5.1	6
107	Robust Flexoâ€Catalysis in Centrosymmetric Nanoparticles. Advanced Materials Technologies, 2022, 7, .	5.8	6
108	Coupled Current Jumps and Domain Wall Creeps in a Defectâ€Engineered Ferroelectric Resistive Memory. Advanced Electronic Materials, 0, , 2101059.	5.1	5

#	Article	IF	Citations
109	Anti-parallel polarization switching in a triglycine sulfate organic ferroelectric insulator: The role of surface charges. Applied Physics Letters, 2018, 112, .	3.3	4
110	Compositionâ€dependent microstructure and electrical property of (1â^'x)SBNâ€xBNBT solid solutions. Journal of the American Ceramic Society, 2020, 103, 6913-6921.	3.8	4
111	Transition in temperature scaling behaviors and super temperature stable polarization in BiScO 3 â€“PbZrO 3 â€“PbTiO 3 system. Journal of the American Ceramic Society, 2020, 103, 3691-3697.	3.8	4
112	Enhanced high permittivity and lowed dielectric loss in celluloseâ€“fiber framework polymer microcomposites. Polymer Composites, 2019, 40, 1526-1535.	4.6	3
113	Flexible multiâ€state nonvolatile antiferroelectric memory. Journal of the American Ceramic Society, 2022, 105, 6232-6240.	3.8	3
114	Charge-Transfer Magnets: Multiferroicity of Carbon-Based Charge-Transfer Magnets (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	0
115	Giant modulation of photoluminescence in CsPbBr₃ films through polarization switching of PMN-PT. Applied Physics Letters, 2021, 119, 252903.	3.3	0