Yejing Dai

List of Publications by Year
in descending order

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54 papers	4,252 citations	168829 31 h-index	182931 54 g-index
54 all docs	54 docs citations	54 times ranked	4972 citing authors

#	Article	IF	Citations
1	The effect of B site doping of Nb5+ and aging process on the properties of BNKT-BT lead-free piezoelectric ceramics. Ceramics International, 2022, 48, 2355-2361.	2.3	12
2	Structural transition, large strain induced by B-site equivalent doping with Hf4+ ions in BNT-based ceramics. Ceramics International, 2021, 47, 6842-6847.	2.3	6
3	Accelerated oxidation and microstructure evolution of SiC in the presence of NaF. Journal of Nuclear Materials, 2021, 543, 152560.	1.3	4
4	Improved Output Performance of Triboelectric Nanogenerator by Fast Accumulation Process of Surface Charges. Advanced Energy Materials, 2021, 11, 2100050.	10.2	67
5	Selection rules of triboelectric materials for direct-current triboelectric nanogenerator. Nature Communications, 2021, 12, 4686.	5.8	154
6	Homogeneous Na+ transfer dynamic at Na/Na3Zr2Si2PO12 interface for all solid-state sodium metal batteries. Nano Energy, 2021, 88, 106293.	8.2	60
7	Giant electroâ€strain in textured Li⁺â€doped 0.852BNTâ€“0.11BKTâ€“0.038BT ternary leadâ€free piezoelectric ceramics. Journal of the American Ceramic Society, 2020, 103, 1765-1772.	1.9	19
8	Ultrahigh electro-strain in acceptor-doped KNN lead-free piezoelectric ceramics via defect engineering. Acta Materialia, 2020, 200, 35-41.	3.8	56
9	Rationally patterned electrode of direct-current triboelectric nanogenerators for ultrahigh effective surface charge density. Nature Communications, 2020, 11, 6186.	5.8	129
10	Low temperature synthesis of plate-like Na0.5Bi0.5TiO3 via molten salt method. Ceramics International, 2020, 46, 19752-19757.	2.3	16
11	Enhanced catalytic performance of Ag2O/BaTiO3 heterostructure microspheres by the piezo/pyro-phototronic synergistic effect. Nano Energy, 2020, 73, 104783.	8.2	86
12	Unique Flexible NiFe₂O₄@S/rGOâ€“CNT Electrode via the Synergistic Adsorption/Electrocatalysis Effect toward High-Performance Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry Letters, 2019, 10, 6518-6524.	2.1	32
13	Ferroelectricity-induced performance enhancement of V-doped ZnO/Si photodetector by direct energy band modulation. Nano Energy, 2019, 65, 104046.	8.2	36
14	The formation and effect of defect dipoles in lead-free piezoelectric ceramics: A review. Sustainable Materials and Technologies, 2019, 20, e00092.	1.7	39
15	Large electro-strain signal of the BNTâ€“BTâ€“KNN lead-free piezoelectric ceramics with CuO doping. Journal of Advanced Dielectrics, 2019, 09, 1950022.	1.5	20
16	Ferroelectricityâ€Enhanced Piezoâ€Phototronic Effect in 2D Vâ€Doped ZnO Nanosheets. Advanced Science, 2019, 6, 1900314.	5.6	33
17	Flexible and free-standing SiOx/CNT composite films for high capacity and durable lithium ion batteries. Carbon, 2019, 152, 888-897.	5.4	82
18	Piezo-phototronic effect-modulated carrier transport behavior in different regions of a Si/CdS heterojunction photodetector under a Visâ€“NIR waveband. Physical Chemistry Chemical Physics, 2019, 21, 9574-9580.	1.3	11

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19	A Facile Synthesis of A Novel Cu2Se@CMK-3 Nanocomposite for Rechargeable Sodium Batteries. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012147.	0.3	2
20	BNT-based multi-layer ceramic actuator with enhanced temperature stability. Journal of Alloys and Compounds, 2019, 771, 541-546.	2.8	18
21	On the Electronâ€Transfer Mechanism in the Contactâ€Electrification Effect. Advanced Materials, 2018, 30, e1706790.	11.1	483
22	Field Emission of Electrons Powered by a Triboelectric Nanogenerator. Advanced Functional Materials, 2018, 28, 1800610.	7.8	44
23	Selfâ€Powered Si/CdS Flexible Photodetector with Broadband Response from 325 to 1550 nm Based on Pyroâ€phototronic Effect: An Approach for Photosensing below Bandgap Energy. Advanced Materials, 2018, 30, 1705893.	11.1	163
24	Superelastic 3D few-layer MoS2/carbon framework heterogeneous electrodes for highly reversible sodium-ion batteries. Nano Energy, 2018, 48, 526-535.	8.2	99
25	Enhanced electromechanical strain response in (Fe0.5Nb0.5)4+-modified Bi0.5(Na0.8K0.2)0.5TiO3 lead-free piezoelectric ceramics. Journal of Materials Science, 2018, 53, 8059-8066.	1.7	12
26	Enhanced piezoelectric properties and strain response in â€˜001â€‰ textured BNT-BKT-BT ceramics. Materials and Design, 2018, 137, 184-191.	3.3	58
27	A rational designed multi-layered structure to improve the temperature stability of Li modified (K,Na)NbO3 piezoceramics. Journal of Alloys and Compounds, 2018, 731, 39-43.	2.8	9
28	Enhanced performances of Si/CdS heterojunction near-infrared photodetector by the piezo-phototronic effect. Nano Energy, 2018, 44, 311-318.	8.2	54
29	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. ACS Nano, 2018, 12, 5726-5733.	7.3	109
30	Enhanced Performance of a Selfâ€Powered Organic/Inorganic Photodetector by Pyroâ€Phototronic and Piezoâ€Phototronic Effects. Advanced Materials, 2017, 29, 1606698.	11.1	157
31	Simultaneously Enhancing Light Emission and Suppressing Efficiency Droop in GaN Microwire-Based Ultraviolet Light-Emitting Diode by the Piezo-Phototronic Effect. Nano Letters, 2017, 17, 3718-3724.	4.5	55
32	A Highly Stretchable and Washable All-Yarn-Based Self-Charging Knitting Power Textile Composed of Fiber Triboelectric Nanogenerators and Supercapacitors. ACS Nano, 2017, 11, 9490-9499.	7.3	419
33	Large electro-strain response of La3+ and Nb5+ co-doped ternary 0.85Bi0.5Na0.5TiO3-0.11Bi0.5K0.5TiO3-0.04BaTiO3 lead-free piezoelectric ceramics. Journal of Alloys and Compounds, 2017, 724, 1000-1006.	2.8	34
34	Light-Triggered Pyroelectric Nanogenerator Based on a pn-Junction for Self-Powered Near-Infrared Photosensing. ACS Nano, 2017, 11, 8339-8345.	7.3	147
35	Achieving ultrahigh triboelectric charge density for efficient energy harvesting. Nature Communications, 2017, 8, 88.	5.8	495
36	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Selfâ€Powered Active Motion Sensors. Advanced Materials, 2017, 29, 1702648.	11.1	321

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37	Largely Improved Near-Infrared Silicon-Photosensing by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 7118-7125.	7.3	57
38	Phase structure, piezoelectric, ferroelectric, and electric-field-induced strain properties of Nb-modified 0.8Bi0.5Na0.5TiO3â˜'0.2Sr0.85Bi0.1TiO3 ceramics. Ceramics International, 2017, 43, 13612-13617.	2.3	10
39	Preparation and electrochemical performance of polymer-derived SiBCN-graphene composite as anode material for lithium ion batteries. Ceramics International, 2017, 43, 1210-1216.	2.3	21
40	The evolution mechanism of defect dipoles and high strain in MnO2-doped KNN lead-free ceramics. Applied Physics Letters, 2016, 108, .	1.5	71
41	Highly textured Ba 0.85 Ca 0.15 Ti 0.90 Zr 0.10 O 3 ceramics prepared by reactive template grain growth process. Materials Letters, 2016, 165, 131-134.	1.3	25
42	Evolution of textured Ca0.85(LiCe)0.075Bi4Ti4O15 ceramics via templated grain growth using a rolling-extended method. Journal of Materials Science: Materials in Electronics, 2015, 26, 2082-2089.	1.1	3
43	Structures and Electrical Properties of Textured Ca_{0.85}(LiCe)_{0.075}Bi₄Ti₄O₁₅Ceramics Prepared by the Reactive Templated Grain Growth. Integrated Ferroelectrics, 2015, 162, 1-7.	0.3	6
44	Microstructure and electrical properties in Zn-doped Ba0.85Ca0.15Ti0.90Zr0.10O3 piezoelectric ceramics. Journal of Alloys and Compounds, 2015, 637, 291-296.	2.8	64
45	The Relationship Between Phase Structure and Electrical Properties in (1Ââ˜'Âx)(<scp><scp>Bi</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>TiO</scp></scp>x<scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Quaternary Leadâ€Free Piezoelectric Ce. Journal of the American Ceramic Society, 2014, 97, 1283-1287.	1.9	24
46	Crystallographic textured evolution in 0.85Na0.5Bi0.5TiO3â€“0.04BaTiO3â€“0.11K0.5Bi0.5TiO3 ceramics prepared by reactive-templated grain growth method. Journal of Materials Science: Materials in Electronics, 2014, 25, 1873-1879.	1.1	6
47	Lanthanum-based coordination polymers microplates using a â€œgreen ligandâ€•EDTA with tailorable morphology and fluorescent property. RSC Advances, 2014, 4, 12844.	1.7	18
48	Photocatalytic degradation efficacy of Bi4Ti3O12 micro-scale platelets over methylene blue under visible light. Journal of Physics and Chemistry of Solids, 2013, 74, 1604-1607.	1.9	37
49	Microstructure Modifications and Sintering Mechanism of <scp>B</scp>a_{0.55}<scp>S</scp>r_{0.4}<scp>C</scp>a_{0.05}<scp>T</scp>i<scp>O</scp>₃ Ceramics Containing Different <scp>M</scp>g<scp>O</scp> Additive for <scp>LTCC</scp> Application. International Journal of Applied Ceramic Technology, 2013, 10, E192.	1.1	3
50	Microstructure and Hardening Mechanism of <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Leadâ€Free Ceramics with <scp><scp>CuO</scp></scp> Doping Sintered in Different Atmospheres. Journal of the American Ceramic Society, 2012, 95, 1182-1184.	1.9	31
51	Phase transition behavior and electrical properties of (1â˜'x)Bi0.5Na0.5TiO3â€“x(Na0.53K0.44Li0.04)(Nb0.88Sb0.08Ta0.04)O3 lead-free ceramics. Journal of the European Ceramic Society, 2012, 32, 1481-1484.	2.8	5
52	Ferroelectric polarization and domain walls in orthorhombic (K1â˜'xNax)NbO3 lead-free ferroelectric ceramics. Applied Physics Letters, 2010, 96, .	1.5	11
53	Phase transition behavior and electrical properties of lead-free (1â˜'x)(0.98K0.5Na0.5NbO3â€“0.02LiTaO3)â€“x(0.96Bi0.5Na0.5TiO3â€“0.04BaTiO3) piezoelectric ceramics. Journal of the European Ceramic Society, 2008, 28, 3193-3198.	2.8	18
54	Phase transitional behavior in K0.5Na0.5NbO3â€“LiTaO3 ceramics. Applied Physics Letters, 2007, 90, 262903.	1.5	301