Yejing Dai

List of Publications by Year in descending order

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54	4,252	147801	161849
papers	citations	31 h-index	54 g-index

54	54	54	4256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Achieving ultrahigh triboelectric charge density for efficient energy harvesting. Nature Communications, 2017, 8, 88.	12.8	495
2	On the Electronâ€Transfer Mechanism in the Contactâ€Electrification Effect. Advanced Materials, 2018, 30, e1706790.	21.0	483
3	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.	14.6	419
4	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Selfâ€Powered Active Motion Sensors. Advanced Materials, 2017, 29, 1702648.	21.0	321
5	Phase transitional behavior in K0.5Na0.5NbO3â€“LiTaO3 ceramics. Applied Physics Letters, 2007, 90, 262903.	3.3	301
6	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.	21.0	163
7	Enhanced Performance of a Selfâ€Powered Organic/Inorganic Photodetector by Pyroâ€Phototronic and Piezoâ€Phototronic Effects. Advanced Materials, 2017, 29, 1606698.	21.0	157
8	Selection rules of triboelectric materials for direct-current triboelectric nanogenerator. Nature Communications, 2021, 12, 4686.	12.8	154
9	Light-Triggered Pyroelectric Nanogenerator Based on a pn-Junction for Self-Powered Near-Infrared Photosensing. ACS Nano, 2017, 11, 8339-8345.	14.6	147
10	Rationally patterned electrode of direct-current triboelectric nanogenerators for ultrahigh effective surface charge density. Nature Communications, 2020, 11, 6186.	12.8	129
11	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. ACS Nano, 2018, 12, 5726-5733.	14.6	109
12	Superelastic 3D few-layer MoS2/carbon framework heterogeneous electrodes for highly reversible sodium-ion batteries. Nano Energy, 2018, 48, 526-535.	16.0	99
13	Enhanced catalytic performance of Ag2O/BaTiO3 heterostructure microspheres by the piezo/pyro-phototronic synergistic effect. Nano Energy, 2020, 73, 104783.	16.0	86
14	Flexible and free-standing SiOx/CNT composite films for high capacity and durable lithium ion batteries. Carbon, 2019, 152, 888-897.	10.3	82
15	The evolution mechanism of defect dipoles and high strain in MnO2-doped KNN lead-free ceramics. Applied Physics Letters, 2016, 108, .	3.3	71
16	Improved Output Performance of Triboelectric Nanogenerator by Fast Accumulation Process of Surface Charges. Advanced Energy Materials, 2021, 11, 2100050.	19.5	67
17	Microstructure and electrical properties in Zn-doped Ba0.85Ca0.15Ti0.90Zr0.10O3 piezoelectric ceramics. Journal of Alloys and Compounds, 2015, 637, 291-296.	5.5	64
18	Homogeneous Na+ transfer dynamic at Na/Na3Zr2Si2PO12 interface for all solid-state sodium metal batteries. Nano Energy, 2021, 88, 106293.	16.0	60

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19	Enhanced piezoelectric properties and strain response in ã€˜001ã€‰ textured BNT-BKT-BT ceramics. Materials and Design, 2018, 137, 184-191.	7.0	58
20	Largely Improved Near-Infrared Silicon-Photosensing by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 7118-7125.	14.6	57
21	Ultrahigh electro-strain in acceptor-doped KNN lead-free piezoelectric ceramics via defect engineering. Acta Materialia, 2020, 200, 35-41.	7.9	56
22	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.	9.1	55
23	Enhanced performances of Si/CdS heterojunction near-infrared photodetector by the piezo-phototronic effect. Nano Energy, 2018, 44, 311-318.	16.0	54
24	Field Emission of Electrons Powered by a Triboelectric Nanogenerator. Advanced Functional Materials, 2018, 28, 1800610.	14.9	44
25	The formation and effect of defect dipoles in lead-free piezoelectric ceramics: A review. Sustainable Materials and Technologies, 2019, 20, e00092.	3.3	39
26	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.	4.0	37
27	Ferroelectricity-induced performance enhancement of V-doped ZnO/Si photodetector by direct energy band modulation. Nano Energy, 2019, 65, 104046.	16.0	36
28	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.	5.5	34
29	Ferroelectricityâ€Enhanced Piezoâ€Phototronic Effect in 2D Vâ€Doped ZnO Nanosheets. Advanced Science, 2019, 6, 1900314.	11.2	33
30	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.	4.6	32
31	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.	3.8	31
32	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.	2.6	25
33	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.	3.8	24
34	Preparation and electrochemical performance of polymer-derived SiBCN-graphene composite as anode material for lithium ion batteries. Ceramics International, 2017, 43, 1210-1216.	4.8	21
35	Large electro-strain signal of the BNTâ€“BTâ€“KNN lead-free piezoelectric ceramics with CuO doping. Journal of Advanced Dielectrics, 2019, 09, 1950022.	2.4	20
36	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.	3.8	19

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37	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.	5.7	18
38	Lanthanum-based coordination polymers microplates using a â€œgreen ligandâ€•EDTA with tailorable morphology and fluorescent property. RSC Advances, 2014, 4, 12844.	3.6	18
39	BNT-based multi-layer ceramic actuator with enhanced temperature stability. Journal of Alloys and Compounds, 2019, 771, 541-546.	5.5	18
40	Low temperature synthesis of plate-like Na0.5Bi0.5TiO3 via molten salt method. Ceramics International, 2020, 46, 19752-19757.	4.8	16
41	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.	3.7	12
42	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.	4.8	12
43	Ferroelectric polarization and domain walls in orthorhombic (K1â^'xNax)NbO3 lead-free ferroelectric ceramics. Applied Physics Letters, 2010, 96, .	3.3	11
44	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.	2.8	11
45	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.	4.8	10
46	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.	5.5	9
47	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.	2.2	6
48	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.	0.7	6
49	Structural transition, large strain induced by B-site equivalent doping with Hf4+ ions in BNT-based ceramics. Ceramics International, 2021, 47, 6842-6847.	4.8	6
50	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.	5.7	5
51	Accelerated oxidation and microstructure evolution of SiC in the presence of NaF. Journal of Nuclear Materials, 2021, 543, 152560.	2.7	4
52	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.	2.1	3
53	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.	2.2	3
54	A Facile Synthesis of A Novel Cu2Se@CMK-3 Nanocomposite for Rechargeable Sodium Batteries. IOP Conference Series: Materials Science and Engineering, 2019, 678, 012147.	0.6	2