Qiwei Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

46 papers	1,846 citations	257450 24 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	1097 citing authors

#	Article	IF	Citations
1	Thermal Enhancement of Upconversion by Negative Lattice Expansion in Orthorhombic Yb₂W₃O₁₂. Angewandte Chemie - International Edition, 2019, 58, 17255-17259.	13.8	158
2	Giant energy-storage density and high efficiency achieved in (Bi_{0.5}Na_{0.5})TiO₃â€“Bi(Ni_{0.5}Zr_{0.5})O₃ thick films with polar nanoregions. Journal of Materials Chemistry C, 2018, 6, 10693-10703.	5.5	120
3	Strong red emission in Pr doped (Bi0.5Na0.5)TiO3 ferroelectric ceramics. Journal of Applied Physics, 2011, 110, .	2.5	111
4	Simultaneous Enhancement and Modulation of Upconversion by Thermal Stimulation in Sc₂Mo₃O₁₂ Crystals. Journal of Physical Chemistry Letters, 2020, 11, 3020-3024.	4.6	91
5	Dual-Mode Luminescence Modulation upon Visible-Light-Driven Photochromism with High Contrast for Inorganic Luminescence Ferroelectrics. ACS Applied Materials & Interfaces, 2016, 8, 4789-4794.	8.0	83
6	Reversible Luminescence Modulation upon Photochromic Reactions in Rare-Earth Doped Ferroelectric Oxides by in Situ Photoluminescence Spectroscopy. ACS Applied Materials & Interfaces, 2015, 7, 25289-25297.	8.0	82
7	Multifunctional antiferroelectric MLCC with highâ€energyâ€storage properties and large fieldâ€induced strain. Journal of the American Ceramic Society, 2018, 101, 2313-2320.	3.8	79
8	Nondestructive up-conversion readout in Er/Yb co-doped Na_{0.5}Bi_{2.5}Nb₂O₉-based optical storage materials for optical data storage device applications. Journal of Materials Chemistry C, 2017, 5, 3838-3847.	5.5	70
9	(K,Na)NbO₃ ferroelectrics: a new class of solid-state photochromic materials with reversible luminescence switching behavior. Journal of Materials Chemistry C, 2017, 5, 9080-9087.	5.5	70
10	Tunable Luminescence Contrast of Na_{0.5}Bi_{4.5}Ti₄O₁₅:Re (Re = Sm, Pr, Er) Photochromics by Controlling the Excitation Energy of Luminescent Centers. ACS Applied Materials & Interfaces, 2016, 8, 34581-34589.	8.0	68
11	Defect Management and Multiâ€Mode Optoelectronic Manipulations via Photoâ€Thermochromism in Smart Windows. Laser and Photonics Reviews, 2021, 15, 2100211.	8.7	66
12	Green and red emission for (K0.5Na0.5)NbO3:Pr ceramics. Journal of Applied Physics, 2012, 111, 046102.	2.5	56
13	Green and red upconversion luminescence of Er3+-doped K0.5Na0.5NbO3 ceramics. Ceramics International, 2014, 40, 2581-2584.	4.8	54
14	A highly efficient, orange light-emitting (K_{0.5}Na_{0.5})NbO₃:Sm³⁺/Zr⁴⁺ lead-free piezoelectric material with superior water resistance behavior. Journal of Materials Chemistry C, 2015, 3, 5275-5284.	5.5	54
15	Enhanced dielectric and energy storage properties of BaTiO3 nanofiber/polyimide composites by controlling surface defects of BaTiO3 nanofibers. Applied Surface Science, 2020, 501, 144243.	6.1	49
16	Luminescence photoswitching of Ho-doped Na_{0.5}Bi_{2.5}Nb₂O₉ ferroelectrics: the luminescence readout process. Journal of Materials Chemistry C, 2017, 5, 807-816.	5.5	47
17	Photoluminescence, photochromism, and reversible luminescence modulation behavior of Sm-doped Na0.5Bi2.5Nb2O9 ferroelectrics. Journal of the European Ceramic Society, 2017, 37, 955-966.	5.7	47
18	Reversible photoresponsive switching in Bi_{2.5}Na_{0.5}Nb₂O₉-based luminescent ferroelectrics. Chemical Communications, 2015, 51, 16316-16319.	4.1	41

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19	Reversible luminescence modulation of Hoâ€doped K_{0.5}Na_{0.5}NbO₃ piezoelectrics with high luminescence contrast. Journal of the American Ceramic Society, 2018, 101, 2305-2312.	3.8	41
20	Reversible upconversion switching for Ho/Yb codoped (K,Na)NbO₃ ceramics with excellent luminescence readout capability. Journal of the American Ceramic Society, 2018, 101, 5659-5674.	3.8	36
21	Siteâ€Selective Occupancy of Eu²⁺ toward High Luminescence Switching Contrast in BaMgSiO₄â€Based Photochromic Materials. Advanced Optical Materials, 2021, 9, 2001626.	7.3	35
22	Achieving multicolor emission readout and tunable photoswitching via multiplexing of dual lanthanides in ferroelectric oxides. Journal of Materials Chemistry C, 2019, 7, 5782-5791.	5.5	33
23	High transmittance and optical storage behaviors in Tb3+ doped K0.5Na0.5NbO3-based ferroelectric materials. Journal of the European Ceramic Society, 2021, 41, 1211-1220.	5.7	32
24	Highly efficient orange emission (K0.5Na0.5)NbO3:Sm3+ lead free piezoceramics. Materials Letters, 2014, 117, 283-285.	2.6	29
25	Enhanced microwave dielectric properties of Ba0.4Sr0.6TiO3 ceramics doping by metal Fe powders. Journal of Applied Physics, 2012, 112, .	2.5	24
26	Photochromismâ€induced light scattering and photoswithing in Er doped (K,Na)NbO₃ transparent ceramics. Journal of the American Ceramic Society, 2019, 102, 6732-6740.	3.8	24
27	Significantly enhanced dielectric constant and energy storage properties in polyimide/reduced BaTiO₃composite films with excellent thermal stability. RSC Advances, 2019, 9, 7706-7717.	3.6	23
28	Highly responsive photochromic behavior with large coloration contrast in Ba/Sm co-doped (K0.5Na0.5)NbO3 transparent ceramics. Ceramics International, 2022, 48, 18899-18908.	4.8	21
29	Defect modulated luminescent and photochromic behaviors in Pr/Er codoped Na0.5Bi2.5Nb2O9 ceramics for display and optical storage. Journal of Luminescence, 2019, 215, 116626.	3.1	19
30	Optical control of Er³⁺-doped M_{0.5}Bi_{2.5}Nb₂O₉ (M = Li, Na, K) materials for thermal stability and temperature sensing using photochromic reactions. Journal of Materials Chemistry C, 2020, 8, 15685-15696.	5.5	19
31	Optical temperature sensing and luminescent switching properties in Pr/Erâ€doped (K_{0.5}Na_{0.5})NbO₃ materials. Journal of the American Ceramic Society, 2020, 103, 3205-3216.	3.8	17
32	Reversible up-conversion emission and photo-switching properties in Er doped (K,Na)NbO3 ferroelectrics. Journal of Luminescence, 2019, 207, 85-92.	3.1	16
33	Multicolor and multimode luminescent modulation via energy transfer engineering in Tb3+/Eu3+ co-doped (K0.5Na0.5)NbO3 transparent photochromic materials. Journal of Alloys and Compounds, 2021, 873, 159852.	5.5	15
34	Optical temperature sensing properties and thermoluminescence behavior in Er-modified potassium sodium niobate-based multifunctional ferroelectric ceramics. Journal of Materials Chemistry C, 2022, 10, 11891-11902.	5.5	15
35	A new red-emitting material K0.5Na0.5NbO3:Eu3+ for white LEDs. Materials Research Bulletin, 2015, 64, 134-138.	5.2	14
36	Rare earth orthoniobate photochromics with self-activated upconversion emissions for high-performance optical storage applications. Journal of Materials Chemistry C, 2021, 9, 13841-13850.	5.5	14

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37	Fast self-bleaching Nb2O5-based photochromics for high security dynamic anti-counterfeiting and optical storage applications. Chemical Engineering Journal, 2022, 435, 134801.	12.7	14
38	Highly efficient sono-piezo-photo synergistic catalysis in bismuth layered ferroelectrics via finely distinguishing sonochemical and electromechanochemical processes. Journal of Materiomics, 2022, 8, 47-58.	5.7	13
39	Highly efficient synergetic piezo/photocatalytic degradation in novel M0.5Bi2.5Nb2O9 (M=Li, Na, K) ferroelectric nanosheets. Ceramics International, 2021, 47, 8573-8583.	4.8	10
40	Synthesis of 1,3-dicarbonyl-functionalized reduced graphene oxide/MnO₂ composites and their electrochemical properties as supercapacitors. RSC Advances, 2018, 8, 11338-11343.	3.6	6
41	Single-band near-infrared upconversion emission and visible-light absorption in highly doped pseudo-perovskite oxides. Solar Energy Materials and Solar Cells, 2020, 205, 110253.	6.2	6
42	Photochromic and energy storage properties in K0.5Na0.5NbO3-based ferroelectrics. Journal of Materials Science: Materials in Electronics, 2020, 31, 19277-19292.	2.2	6
43	Thermal Enhancement of Upconversion by Negative Lattice Expansion in Orthorhombic Yb₂W₃O₁₂. Angewandte Chemie, 2019, 131, 17415-17419.	2.0	5
44	Electro-optical effect and optical absorption in (K,Na)NbO3-based piezoceramics. Scripta Materialia, 2020, 178, 398-401.	5.2	5
45	Trap-induced self-recoverable photochromism of rare-earth doped sodium niobate translucent ceramics. Ceramics International, 2021, 47, 31702-31712.	4.8	5
46	Self-recoverable photochromism of tape-casting-derived Er-doped potassium sodium niobate thick films via sol-gel route. Journal of Luminescence, 2022, 247, 118875.	3.1	3