

Qiwei Zhang

List of Publications by Year in descending order

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46
papers

1,846
citations

257450

24
h-index

254184

43
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46
all docs

46
docs citations

46
times ranked

1097
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient sono-piezo-photo synergistic catalysis in bismuth layered ferroelectrics via finely distinguishing sonochemical and electromechanochemical processes. <i>Journal of Materiomics</i> , 2022, 8, 47-58.	5.7	13
2	Fast self-bleaching Nb ₂ O ₅ -based photochromics for high security dynamic anti-counterfeiting and optical storage applications. <i>Chemical Engineering Journal</i> , 2022, 435, 134801.	12.7	14
3	Highly responsive photochromic behavior with large coloration contrast in Ba/Sm co-doped (K _{0.5} Na _{0.5})NbO ₃ transparent ceramics. <i>Ceramics International</i> , 2022, 48, 18899-18908.	4.8	21
4	Self-recoverable photochromism of tape-casting-derived Er-doped potassium sodium niobate thick films via sol-gel route. <i>Journal of Luminescence</i> , 2022, 247, 118875.	3.1	3
5	Optical temperature sensing properties and thermoluminescence behavior in Er-modified potassium sodium niobate-based multifunctional ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 11891-11902.	5.5	15
6	High transmittance and optical storage behaviors in Tb ³⁺ doped K _{0.5} Na _{0.5} NbO ₃ -based ferroelectric materials. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1211-1220.	5.7	32
7	Highly efficient synergetic piezo/photocatalytic degradation in novel M _{0.5} Bi _{2.5} Nb ₂ O ₉ (M=Li, Na, K) ferroelectric nanosheets. <i>Ceramics International</i> , 2021, 47, 8573-8583.	4.8	10
8	Rare earth orthoniobate photochromics with self-activated upconversion emissions for high-performance optical storage applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13841-13850.	5.5	14
9	Site-Selective Occupancy of Eu ²⁺ toward High Luminescence Switching Contrast in BaMgSiO ₄ -Based Photochromic Materials. <i>Advanced Optical Materials</i> , 2021, 9, 2001626.	7.3	35
10	Multicolor and multimode luminescent modulation via energy transfer engineering in Tb ³⁺ /Eu ³⁺ co-doped (K _{0.5} Na _{0.5})NbO ₃ transparent photochromic materials. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159852.	5.5	15
11	Defect Management and Multi-Mode Optoelectronic Manipulations via Photo-Thermochromism in Smart Windows. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100211.	8.7	66
12	Trap-induced self-recoverable photochromism of rare-earth doped sodium niobate translucent ceramics. <i>Ceramics International</i> , 2021, 47, 31702-31712.	4.8	5
13	Enhanced dielectric and energy storage properties of BaTiO ₃ nanofiber/polyimide composites by controlling surface defects of BaTiO ₃ nanofibers. <i>Applied Surface Science</i> , 2020, 501, 144243.	6.1	49
14	Single-band near-infrared upconversion emission and visible-light absorption in highly doped pseudo-perovskite oxides. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110253.	6.2	6
15	Photochromic and energy storage properties in K _{0.5} Na _{0.5} NbO ₃ -based ferroelectrics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19277-19292.	2.2	6
16	Optical control of Er ³⁺ -doped M _{0.5} Bi _{2.5} Nb ₂ O ₉ (M = Li, Na, K) materials for thermal stability and temperature sensing using photochromic reactions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15685-15696.	5.5	19
17	Simultaneous Enhancement and Modulation of Upconversion by Thermal Stimulation in Sc ₂ Mo ₃ O ₁₂ Crystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3020-3024.	4.6	91
18	Electro-optical effect and optical absorption in (K,Na)NbO ₃ -based piezoceramics. <i>Scripta Materialia</i> , 2020, 178, 398-401.	5.2	5

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19	Optical temperature sensing and luminescent switching properties in Pr/Er-doped (K _{0.5} Na _{0.5})NbO ₃ materials. Journal of the American Ceramic Society, 2020, 103, 3205-3216.	3.8	17
20	Defect modulated luminescent and photochromic behaviors in Pr/Er codoped Na _{0.5} Bi _{2.5} Nb ₂ O ₉ ceramics for display and optical storage. Journal of Luminescence, 2019, 215, 116626.	3.1	19
21	Thermal Enhancement of Upconversion by Negative Lattice Expansion in Orthorhombic Yb ₂ W ₃ O ₁₂ . Angewandte Chemie - International Edition, 2019, 58, 17255-17259.	13.8	158
22	Thermal Enhancement of Upconversion by Negative Lattice Expansion in Orthorhombic Yb ₂ W ₃ O ₁₂ . Angewandte Chemie, 2019, 131, 17415-17419.	2.0	5
23	Photochromism-induced light scattering and photoswitching in Er doped (K,Na)NbO ₃ transparent ceramics. Journal of the American Ceramic Society, 2019, 102, 6732-6740.	3.8	24
24	Significantly enhanced dielectric constant and energy storage properties in polyimide/reduced BaTiO ₃ composite films with excellent thermal stability. RSC Advances, 2019, 9, 7706-7717.	3.6	23
25	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
26	Reversible up-conversion emission and photo-switching properties in Er doped (K,Na)NbO ₃ ferroelectrics. Journal of Luminescence, 2019, 207, 85-92.	3.1	16
27	Reversible luminescence modulation of Ho-doped K _{0.5} Na _{0.5} NbO ₃ piezoelectrics with high luminescence contrast. Journal of the American Ceramic Society, 2018, 101, 2305-2312.	3.8	41
28	Multifunctional antiferroelectric MLCC with high energy storage properties and large field-induced strain. Journal of the American Ceramic Society, 2018, 101, 2313-2320.	3.8	79
29	Synthesis of 1,3-dicarbonyl-functionalized reduced graphene oxide/MnO ₂ composites and their electrochemical properties as supercapacitors. RSC Advances, 2018, 8, 11338-11343.	3.6	6
30	Reversible upconversion switching for Ho/Yb codoped (K,Na)NbO ₃ ceramics with excellent luminescence readout capability. Journal of the American Ceramic Society, 2018, 101, 5659-5674.	3.8	36
31	Giant energy-storage density and high efficiency achieved in (Bi _{0.5} Na _{0.5})TiO ₃ -Bi(Ni _{0.5} Zr _{0.5})O ₃ thick films with polar nanoregions. Journal of Materials Chemistry C, 2018, 6, 10693-10703.		120
32	Nondestructive up-conversion readout in Er/Yb co-doped Na _{0.5} Bi _{2.5} Nb ₂ O ₉ -based optical storage materials for optical data storage device applications. Journal of Materials Chemistry C, 2017, 5, 3838-3847.	5.5	70
33	Luminescence photoswitching of Ho-doped Na _{0.5} Bi _{2.5} Nb ₂ O ₉ ferroelectrics: the luminescence readout process. Journal of Materials Chemistry C, 2017, 5, 807-816.	5.5	47
34	(K,Na)NbO ₃ 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
35	Photoluminescence, photochromism, and reversible luminescence modulation behavior of Sm-doped Na _{0.5} Bi _{2.5} Nb ₂ O ₉ ferroelectrics. Journal of the European Ceramic Society, 2017, 37, 955-966.	5.7	47
36	Tunable Luminescence Contrast of Na _{0.5} Bi _{4.5} Ti ₄ O ₁₅ :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

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37	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
38	A new red-emitting material $K_{0.5}Na_{0.5}NbO_3:Eu^{3+}$ for white LEDs. Materials Research Bulletin, 2015, 64, 134-138.	5.2	14
39	A highly efficient, orange light-emitting $(K_{0.5}Na_{0.5})NbO_3:Sm^{3+}/Zr^{4+}$ lead-free piezoelectric material with superior water resistance behavior. Journal of Materials Chemistry C, 2015, 3, 5275-5284.	5.5	54
40	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
41	Reversible photoresponsive switching in $Bi_{2.5}Na_{0.5}Nb_2O_9$ -based luminescent ferroelectrics. Chemical Communications, 2015, 51, 16316-16319.	4.1	41
42	Highly efficient orange emission $(K_{0.5}Na_{0.5})NbO_3:Sm^{3+}$ lead free piezoceramics. Materials Letters, 2014, 117, 283-285.	2.6	29
43	Green and red upconversion luminescence of Er^{3+} -doped $K_{0.5}Na_{0.5}NbO_3$ ceramics. Ceramics International, 2014, 40, 2581-2584.	4.8	54
44	Green and red emission for $(K_{0.5}Na_{0.5})NbO_3:Pr$ ceramics. Journal of Applied Physics, 2012, 111, 046102.	2.5	56
45	Enhanced microwave dielectric properties of $Ba_{0.4}Sr_{0.6}TiO_3$ ceramics doping by metal Fe powders. Journal of Applied Physics, 2012, 112, .	2.5	24
46	Strong red emission in Pr doped $(Bi_{0.5}Na_{0.5})TiO_3$ ferroelectric ceramics. Journal of Applied Physics, 2011, 110, .	2.5	111