

Puxian Xiong

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,090
citations

304368

22
h-index

414034

32
g-index

34
all docs

34
docs citations

34
times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Obtain full visible spectrum light-emitting diode illumination via bismuth-activated cyan phosphors. <i>Materials Today Chemistry</i> , 2022, 23, 100754.	1.7	6
2	Tunable luminescence in Pr ³⁺ single-doped oxyfluoride glass ceramic and fibers. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5266-5275.	2.7	10
3	Single Bi ³⁺ Ultrabroadband White Luminescence in Double Perovskite via Crystal Lattice Engineering toward Light-Emitting Diode Applications. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	33
4	Monitoring cardiovascular disease severity using near-infrared mechanoluminescent materials as a built-in indicator. <i>Materials Horizons</i> , 2022, 9, 1658-1669.	6.4	17
5	Bi ³⁺ /Mn ⁴⁺ co-doped dual-emission phosphors for potential plant lighting. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5793-5806.	1.9	16
6	Transparent nanocrystal-in-glass composite (NGC) fibers for multifunctional temperature and pressure sensing. <i>Fundamental Research</i> , 2022, , .	1.6	1
7	Dual near infrared emission in Ag ₂ Se quantum dots <i>via</i> Pb doping for broadband mini light-emitting diodes. <i>Chemical Communications</i> , 2022, 58, 8432-8435.	2.2	4
8	LiTaO ₃ :Bi ³⁺ ,Tb ³⁺ ,Ga ³⁺ ,Ge ⁴⁺ : A Smart Perovskite with High Charge Carrier Storage Capacity for X-Ray Imaging, Stress Sensing, and Non-Real-Time Recording. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	22
9	Multicolor Phosphate Glasses for Potential White LED Lighting and X-Ray Detections. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	9
10	Enhancement of ultrabroadband Bi NIR emission via fluorination for all wavelength amplification of optical communication. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1309-1317.	1.9	8
11	A promising blue-emitting phosphor CaYGaO ₄ :Bi ³⁺ for near-ultraviolet (NUV) pumped white LED application and the emission improvement by Li ⁺ ions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 303-312.	2.7	53
12	Regulating the Bi NIR luminescence behaviours in fluorine and nitrogen co-doped germanate glasses. <i>Materials Advances</i> , 2021, 2, 4743-4751.	2.6	8
13	Deep red SrLaGa ₃ O ₇ :Mn ⁴⁺ for near ultraviolet excitation of white light LEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3969-3977.	2.7	32
14	Origin of D-band emission in a novel Bi ³⁺ -doped phosphor La ₃ SnGa ₅ O ₁₄ :Bi ³⁺ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 3455-3461.	2.7	33
15	Self-Recoverable Mechanically Induced Instant Luminescence from Cr ³⁺ -Doped LiGa ₅ O ₈ . <i>Advanced Functional Materials</i> , 2021, 31, 2010685.	7.8	84
16	Visible and Near-Infrared Emission in Ba ₃ Sc ₄ O ₉ :Bi Phosphor: An Investigation on Bismuth Valence Modification. <i>Inorganic Chemistry</i> , 2021, 60, 13510-13516.	1.9	17
17	Bismuth activated blue phosphor with high absorption efficiency for white LEDs. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160960.	2.8	28
18	Sr ₃ Y(BO ₃) ₃ :Bi ³⁺ phosphor with excellent thermal stability and color tunability for near-ultraviolet white-light LEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3672-3681.	2.7	46

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19	Near-infrared mechanoluminescence crystals: a review. IScience, 2021, 24, 101944.	1.9	36
20	Recent Advances in Mechanoluminescence of Doped Zinc Sulfides. Laser and Photonics Reviews, 2021, 15, 2100276.	4.4	44
21	Recent Advances in Super Broad Infrared Luminescence Bismuth-Doped Crystals. IScience, 2020, 23, 101578.	1.9	46
22	Bismuth activated high thermal stability blue-emitting phosphor Na ₂ Y ₂ B ₂ O ₇ :Bi used for near-UV white-light LEDs. Journal of Materials Chemistry C, 2020, 8, 16584-16592.	2.7	53
23	Self-activated persistent luminescence from Ba ₂ Zr ₂ Si ₃ O ₁₂ for information storage. Journal of the American Ceramic Society, 2020, 103, 6922-6931.	1.9	22
24	Discovery of a novel rare-earth free narrow-band blue-emitting phosphor Y ₃ Al ₂ Ga ₃ O ₁₂ :Bi ³⁺ with strong NUV excitation for LCD LED backlights. Journal of Materials Chemistry C, 2020, 8, 13668-13675.	2.7	33
25	Cr ³⁺ -Free near-infrared persistent luminescence material LiGaO ₂ :Fe ³⁺ : optical properties, afterglow mechanism and potential bioimaging. Journal of Materials Chemistry C, 2020, 8, 14100-14108.	2.7	40
26	Ultraviolet-A Persistent Luminescence of a Bi ³⁺ -Activated LiScGeO ₄ Material. Inorganic Chemistry, 2020, 59, 12920-12927.	1.9	56
27	Unusual concentration induced antithermal quenching of the Eu ²⁺ emission at 490 nm in Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ for near ultraviolet excited white LEDs. Journal of the American Ceramic Society, 2020, 103, 5758-5768.	1.9	10
28	Visible to Near-Infrared Persistent Luminescence and Mechanoluminescence from Pr ³⁺ -Doped LiGa ₅ O ₈ for Energy Storage and Bioimaging. Advanced Optical Materials, 2019, 7, 1901107.	3.6	100
29	Broadband NIR emission from multiple Bi centers in nitridated borogermanate glasses via tailoring local glass structure. Journal of Materials Chemistry C, 2019, 7, 2076-2084.	2.7	25
30	(INVITED) Recent advances in ultraviolet persistent phosphors. Optical Materials: X, 2019, 2, 100022.	0.3	28
31	Visible to near-infrared persistent luminescence from Tm ³⁺ -doped two-dimensional layered perovskite Sr ₂ SnO ₄ . Journal of Materials Chemistry C, 2019, 7, 8303-8309.	2.7	40
32	Near infrared mechanoluminescence from the Nd ³⁺ doped perovskite LiNbO ₃ :Nd ³⁺ for stress sensors. Journal of Materials Chemistry C, 2019, 7, 6301-6307.	2.7	48
33	Near infrared mechanoluminescence from Sr ₃ Sn ₂ O ₇ :Nd ³⁺ for in situ biomechanical sensor and dynamic pressure mapping. Journal of the American Ceramic Society, 2019, 102, 5899-5909.	1.9	33
34	Novel persistent and tribo-luminescence from bismuth ion pairs doped strontium gallate. Journal of Materials Chemistry C, 2018, 6, 10367-10375.	2.7	49