

# Puxian Xiong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3384523/publications.pdf>

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	Visible to Near-Infrared Persistent Luminescence and Mechanoluminescence from Pr <sup>3+</sup> -Doped LiGa <sub>5</sub> O <sub>8</sub> for Energy Storage and Bioimaging. <i>Advanced Optical Materials</i> , 2019, 7, 1901107.	3.6	100
2	Self-Recoverable Mechanically Induced Instant Luminescence from Cr <sup>3+</sup> -Doped LiGa <sub>5</sub> O <sub>8</sub> . <i>Advanced Functional Materials</i> , 2021, 31, 2010685.	7.8	84
3	Ultraviolet-A Persistent Luminescence of a Bi <sup>3+</sup> -Activated LiScGeO <sub>4</sub> Material. <i>Inorganic Chemistry</i> , 2020, 59, 12920-12927.	1.9	56
4	Bismuth activated high thermal stability blue-emitting phosphor Na <sub>2</sub> Y <sub>2</sub> B <sub>2</sub> O <sub>7</sub> :Bi used for near-UV white-light LEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16584-16592.	2.7	53
5	A promising blue-emitting phosphor CaYGaO <sub>4</sub> :Bi <sup>3+</sup> for near-ultraviolet (NUV) pumped white LED application and the emission improvement by Li <sup>+</sup> ions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 303-312.	2.7	53
6	Novel persistent and tribo-luminescence from bismuth ion pairs doped strontium gallate. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10367-10375.	2.7	49
7	Near infrared mechanoluminescence from the Nd <sup>3+</sup> doped perovskite LiNbO <sub>3</sub> :Nd <sup>3+</sup> for stress sensors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6301-6307.	2.7	48
8	Recent Advances in Super Broad Infrared Luminescence Bismuth-Doped Crystals. <i>IScience</i> , 2020, 23, 101578.	1.9	46
9	Sr <sub>3</sub> Y(BO <sub>3</sub> ) <sub>3</sub> :Bi <sup>3+</sup> 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
10	Recent Advances in Mechanoluminescence of Doped Zinc Sulfides. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100276.	4.4	44
11	Visible to near-infrared persistent luminescence from Tm <sup>3+</sup> -doped two-dimensional layered perovskite Sr <sub>2</sub> SnO <sub>4</sub> . <i>Journal of Materials Chemistry C</i> , 2019, 7, 8303-8309.	2.7	40
12	Cr <sup>3+</sup> -Free near-infrared persistent luminescence material LiGaO <sub>2</sub> :Fe <sup>3+</sup> : optical properties, afterglow mechanism and potential bioimaging. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14100-14108.	2.7	40
13	Near-infrared mechanoluminescence crystals: a review. <i>IScience</i> , 2021, 24, 101944.	1.9	36
14	Near infrared mechanoluminescence from Sr <sub>3</sub> Sn <sub>2</sub> O <sub>7</sub> :Nd <sup>3+</sup> for in situ biomechanical sensor and dynamic pressure mapping. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5899-5909.	1.9	33
15	Discovery of a novel rare-earth free narrow-band blue-emitting phosphor Y <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Bi <sup>3+</sup> with strong NUV excitation for LCD LED backlights. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13668-13675.	2.7	33
16	Origin of D-band emission in a novel Bi <sup>3+</sup> -doped phosphor La <sub>3</sub> SnGa <sub>5</sub> O <sub>14</sub> :Bi <sup>3+</sup> . <i>Journal of Materials Chemistry C</i> , 2021, 9, 3455-3461.	2.7	33
17	Single Bi <sup>3+</sup> 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
18	Deep red SrLaGa <sub>3</sub> O <sub>7</sub> :Mn <sup>4+</sup> for near ultraviolet excitation of white light LEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3969-3977.	2.7	32

#	ARTICLE	IF	CITATIONS
19	(INVITED) Recent advances in ultraviolet persistent phosphors. <i>Optical Materials: X</i> , 2019, 2, 100022.	0.3	28
20	Bismuth activated blue phosphor with high absorption efficiency for white LEDs. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160960.	2.8	28
21	Broadband NIR emission from multiple Bi centers in nitridated borogermanate glasses via tailoring local glass structure. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2076-2084.	2.7	25
22	Self-activated persistent luminescence from $\text{Ba}_2\text{Zr}_2\text{Si}_3\text{O}_{12}$ for information storage. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6922-6931.	1.9	22
23	$\text{LiTaO}_3\text{:Bi}^{3+},\text{Tb}^{3+},\text{Ga}^{3+},\text{Ge}^{4+}$ : 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
24	Visible and Near-Infrared Emission in $\text{Ba}_3\text{Sc}_4\text{O}_9\text{:Bi}$ Phosphor: An Investigation on Bismuth Valence Modification. <i>Inorganic Chemistry</i> , 2021, 60, 13510-13516.	1.9	17
25	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
26	$\text{Bi}^{3+}/\text{Mn}^{4+}$ co-doped dual-emission phosphors for potential plant lighting. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5793-5806.	1.9	16
27	Unusual concentration induced antithermal quenching of the $\text{Eu}^{2+}$ emission at 490 nm in $\text{Sr}_4\text{Al}_{14}\text{O}_{25}\text{:Eu}^{2+}$ for near ultraviolet excited white LEDs. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5758-5768.	1.9	10
28	Tunable luminescence in $\text{Pr}^{3+}$ single-doped oxyfluoride glass ceramic and fibers. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5266-5275.	2.7	10
29	Multicolor Phosphate Glasses for Potential White LED Lighting and X-Ray Detections. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	9
30	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
31	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
32	Obtain full visible spectrum light-emitting diode illumination via bismuth-activated cyan phosphors. <i>Materials Today Chemistry</i> , 2022, 23, 100754.	1.7	6
33	Dual near infrared emission in $\text{Ag}_2\text{Se}$ quantum dots via Pb doping for broadband mini light-emitting diodes. <i>Chemical Communications</i> , 2022, 58, 8432-8435.	2.2	4
34	Transparent nanocrystal-in-glass composite (NGC) fibers for multifunctional temperature and pressure sensing. <i>Fundamental Research</i> , 2022, .	1.6	1