

Jia-Ren Du

List of Publications by Year in descending order

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684
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Infrared Persistent Luminescence and Trap Reshuffling in Mn ⁴⁺ Doped Alkali-Earth Metal Tungstates. <i>Advanced Optical Materials</i> , 2022, 10, 2101714.	3.6	20
2	Modulating trap distribution of persistent phosphors upon simple microwave-assisted solid-state reactions. <i>Chemical Engineering Journal</i> , 2022, 431, 133706.	6.6	5
3	Enabling robust and hour-level organic long persistent luminescence from carbon dots by covalent fixation. <i>Light: Science and Applications</i> , 2022, 11, 80.	7.7	71
4	Revealing trap depth distributions in persistent phosphors with a thermal barrier for charging. <i>Physical Review B</i> , 2022, 105, .	1.1	6
5	Deep-level trap formation in Si-substituted Sr ₂ SnO ₄ :Sm ³⁺ for rewritable optical information storage. <i>Materials Today Chemistry</i> , 2022, 24, 100906.	1.7	6
6	Reversible yellow-gray photochromism in potassium-sodium niobate-based transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1925-1933.	2.8	48
7	Highly Responsive Photochromic Ceramics for High-Contrast Rewritable Information Displays. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000525.	4.4	51
8	Designing Photochromic Materials with Large Luminescence Modulation and Strong Photochromic Efficiency for Dual-Mode Rewritable Optical Storage. <i>Advanced Optical Materials</i> , 2021, 9, 2100669.	3.6	73
9	Energy efficient microwave-assisted preparation of deep red/near-infrared emitting lithium aluminate and gallate phosphors. <i>Journal of Luminescence</i> , 2021, 237, 118168.	1.5	12
10	Green and Near-Infrared Dual-Mode Afterglow of Carbon Dots and Their Applications for Confidential Information Readout. <i>Nano-Micro Letters</i> , 2021, 13, 198.	14.4	53
11	Enhanced near-infrared persistent luminescence in MgGa ₂ O ₄ :Cr ³⁺ through codoping. <i>Journal of Luminescence</i> , 2020, 220, 117035.	1.5	31
12	Identifying Near-Infrared Persistent Luminescence in Cr ³⁺ -Doped Magnesium Gallogermanates Featuring Afterglow Emission at Extremely Low Temperature. <i>Advanced Optical Materials</i> , 2020, 8, 1901848.	3.6	45
13	Persistent Luminescence: Temperature Dependency of Trap-Controlled Persistent Luminescence (Laser) Tj ETQq1 1 0.784314 rgBT /M	4.4	2
14	Achieving Efficient Red-Emitting Sr ₂ Ca _{1-x} Ln _x WO ₆ :Mn ⁴⁺ (Ln = La, Gd, Y, Lu, $\hat{\Gamma}$) Tj ETQq0 0 0 rgBT /Ov		35
15	Application via Facile Ion Substitution in Luminescence-Ignorable Sr ₂ CaWO ₆ :Mn ⁴⁺ . , 2020, 2, 771-778.		
15	Red-Light-Activated Red-Emitting Persistent Luminescence for Multicycle Bioimaging: A Case Study of CaS:Eu ²⁺ ,Dy ³⁺ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 16586-16595.	1.5	27
16	Temperature Dependency of Trap-Controlled Persistent Luminescence. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000060.	4.4	47
17	Persistent phosphors for the future: Fit for the right application. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	99
18	Temperature dependent persistent luminescence: Evaluating the optimum working temperature. <i>Scientific Reports</i> , 2019, 9, 10517.	1.6	44

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19	Near-infrared persistent luminescence in Mn ⁴⁺ doped perovskite type solid solutions. <i>Ceramics International</i> , 2019, 45, 8345-8353.	2.3	33
20	Facile Synthesis of Mn ⁴⁺ -Activated Double Perovskite Germanate Phosphors with Near-Infrared Persistent Luminescence. <i>Nanomaterials</i> , 2019, 9, 1759.	1.9	24
21	Predicting the afterglow duration in persistent phosphors: a validated approach to derive trap depth distributions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30455-30465.	1.3	39
22	Clarification of the Molecular Doping Mechanism in Organic Single-Crystalline Semiconductors and their Application in Color-Tunable Light-Emitting Devices. <i>Advanced Materials</i> , 2018, 30, e1801078.	11.1	53
23	Thermoluminescence and near-infrared persistent luminescence in LaAlO ₃ :Mn ⁴⁺ ,R (R= Na ⁺ , Ca ²⁺ , Sr ²⁺), <i>J. Appl. Phys.</i> 110, 074301 (2011)	2.3	31
24	LaAlO ₃ :Mn ⁴⁺ as Near-Infrared Emitting Persistent Luminescence Phosphor for Medical Imaging: A Charge Compensation Study. <i>Materials</i> , 2017, 10, 1422.	1.3	61
25	(Invited) Cr ³⁺ and Mn ⁴⁺ : Dopants for Near-Infrared Emitting Persistent Phosphors. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
26	Exploring long-wave infrared transmitting materials with A _x B _y form: First-principles gene-like studies. <i>Scientific Reports</i> , 2016, 6, 21912.	1.6	3
27	Instability origin and improvement scheme of facial Alq ₃ for blue OLED application. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 423-427.	1.3	2
28	memory device. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 76-81.	1.3	4