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List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,784
citations

304743

22
h-index

302126

39
g-index

49
all docs

49
docs citations

49
times ranked

2027
citing authors

#	ARTICLE	IF	CITATIONS
1	K ₂ SiF ₆ :Mn ⁴⁺ as a red phosphor for displays and warm-white LEDs: a review of properties and perspectives. <i>Optical Materials Express</i> , 2017, 7, 3332.	3.0	186
2	Hybrid remote quantum dot/powder phosphor designs for display backlights. <i>Light: Science and Applications</i> , 2017, 6, e16271-e16271.	16.6	133
3	Trapping and detrapping in $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$ phosphors: Influence of excitation wavelength and temperature. <i>Physical Review B</i> , 2014, 90, .	8.5	128
4	First-Principles Study of Antisite Defect Configurations in ZnGa ₂ O ₄ :Cr Persistent Phosphors. <i>Inorganic Chemistry</i> , 2016, 55, 2402-2412.	4.0	106
5	Broadband infrared LEDs based on europium-to-terbium charge transfer luminescence. <i>Nature Communications</i> , 2020, 11, 3647.	12.8	99
6	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. <i>Review of Scientific Instruments</i> , 2014, 85, 123115.	1.3	96
7	Stabilizing colour and intensity. <i>Nature Materials</i> , 2017, 16, 500-501.	27.5	88
8	Luminescent Behavior of the K ₂ SiF ₆ :Mn ⁴⁺ Red Phosphor at High Fluxes and at the Microscopic Level. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, R3040-R3048.	1.8	80
9	Red Mn ⁴⁺ -Doped Fluoride Phosphors: Why Purity Matters. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18845-18856.	8.0	74
10	Identification of Dy^{3+} as Electron Trap in Persistent Phosphors. <i>Physical Review Letters</i> , 2020, 125, 033001.	7.3	64
11	Energy level modeling of lanthanide materials: review and uncertainty analysis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19058-19078.	2.8	60
12	Exploring Lanthanide Doping in UiO-66: A Combined Experimental and Computational Study of the Electronic Structure. <i>Inorganic Chemistry</i> , 2018, 57, 5463-5474.	4.0	51
13	Insights into the complexity of the excited states of Eu-doped luminescent materials. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 871-888.	6.0	49
14	Counting the Photons: Determining the Absolute Storage Capacity of Persistent Phosphors. <i>Materials</i> , 2017, 10, 867.	2.9	47
15	Importance of Evaluating the Intensity Dependency of the Quantum Efficiency: Impact on LEDs and Persistent Phosphors. <i>ACS Photonics</i> , 2018, 5, 4529-4537.	6.6	46
16	Oxidation and Luminescence Quenching of Europium in BaMgAl ₁₀ O ₁₇ Blue Phosphors. <i>Chemistry of Materials</i> , 2017, 29, 10122-10129.	6.7	41
17	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.	2.8	39
18	Direct Evidence of Intervalence Charge-Transfer States of Eu-Doped Luminescent Materials. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1581-1586.	4.6	34

#	ARTICLE	IF	CITATIONS
19	2D and 3D lanthanide metal-organic frameworks constructed from three benzenedicarboxylate ligands: synthesis, structure and luminescent properties. CrystEngComm, 2018, 20, 615-623.	2.6	32
20	Thermal quenching and luminescence lifetime of saturated green Sr ^{1-x} Eu _x Ga ₂ S ₄ phosphors. Optical Materials, 2012, 34, 1902-1907.	3.6	30
21	Insight into the Upconversion Luminescence of Highly Efficient Lanthanide-Doped Bi ₂ O ₃ Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 7389-7398.	3.1	28
22	Optically Stimulated Nanodosimeters with High Storage Capacity. Nanomaterials, 2019, 9, 1127.	4.1	26
23	Charge transfer induced energy storage in CaZnOS:Mn – insight from experimental and computational spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 9075-9085.	2.8	21
24	Blind spheres of paramagnetic dopants in solid state NMR. Physical Chemistry Chemical Physics, 2019, 21, 10185-10194.	2.8	21
25	Charge transfer from Eu ²⁺ to trivalent lanthanide co-dopants: Systematic behavior across the series. Journal of Chemical Physics, 2021, 154, 064704.	3.0	20
26	Luminescence of ytterbium in CaS and SrS. Journal of Luminescence, 2014, 154, 445-451.	3.1	18
27	The almost hidden role of deep traps when measuring afterglow and thermoluminescence of persistent phosphors. Journal of Luminescence, 2020, 226, 117496.	3.1	18
28	A new microwave approach for the synthesis of green emitting Mn ²⁺ -doped ZnAl ₂ O ₄ : A detailed study on its structural and optical properties. Journal of Luminescence, 2020, 226, 117482.	3.1	18
29	Elucidation of the electron transfer mechanism in Eu^{2+} and Sm^{2+} codoped ZnAl_2O_4 . Physical Chemistry Chemical Physics Review B, 2021, 104, .	3.2	18
30	Origin of saturated green emission from europium in zinc thiogallate. Optical Materials Express, 2013, 3, 1338.	3.0	17
31	Evaluating the use of blue phosphors in white LEDs: the case of Sr _{0.25} Ba _{0.75} Si ₂ O ₂ N ₂ :Eu ²⁺ . Journal of Solid State Lighting, 2014, 1, 6.	2.3	17
32	A Standalone, Battery-Free Light Dosimeter for Ultraviolet to Infrared Light. Advanced Functional Materials, 2022, 32, .	14.9	17
33	Mixed-Valence Lanthanide-Activated Phosphors: Invariance of the Intervalence Charge Transfer (IVCT) Absorption Onset across the Series. Journal of Physical Chemistry C, 2020, 124, 2619-2626.	3.1	15
34	On a local (de-)trapping model for highly doped Pr ³⁺ radioluminescent and persistent luminescent nanoparticles. Nanoscale, 2020, 12, 20759-20766.	5.6	13
35	Investigation of the quenching mechanisms of Tb ³⁺ doped scheelites. Journal of Luminescence, 2016, 173, 263-273.	3.1	12
36	Microscopic Study of Dopant Distribution in Europium Doped SrGa ₂ S ₄ : Impact on Thermal Quenching and Phosphor Performance. ECS Journal of Solid State Science and Technology, 2018, 7, R3052-R3056.	1.8	9

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37	Nonequivalent lanthanide defects: Energy level modeling. <i>Optical Materials</i> , 2016, 61, 50-58.	3.6	6
38	Revealing trap depth distributions in persistent phosphors with a thermal barrier for charging. <i>Physical Review B</i> , 2022, 105, .	3.2	6
39	(Invited) Eu ²⁺ -Doped K _x Na _{1-x} LuS ₂ Ternary Sulfides: Application and Perspectives in White LEDs. ECS Meeting Abstracts, 2018, , .	0.0	0
40	(Invited) Red Fluoride Phosphors: A Story of Reliability. ECS Meeting Abstracts, 2018, , .	0.0	0
41	(Invited) Microscopic Study of Dopant Distribution in Phosphors: Impact on Thermal Quenching and Phosphor Performance. ECS Meeting Abstracts, 2018, , .	0.0	0