

Jonas J Joos

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

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49

all docs

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docs citations

49

times ranked

2027

citing authors

#	ARTICLE	IF	CITATIONS
1	A Standalone, Battery-Free Light Dosimeter for Ultraviolet to Infrared Light. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
2	Revealing trap depth distributions in persistent phosphors with a thermal barrier for charging. <i>Physical Review B</i> , 2022, 105, .	3.2	6
3	Charge transfer from Eu ²⁺ to trivalent lanthanide co-dopants: Systematic behavior across the series. <i>Journal of Chemical Physics</i> , 2021, 154, 064704. Elucidation of the electron transfer mechanism in Eu^{2+} and Sm^{3+} codoped $\text{Eu}_x\text{Sm}_{1-x}\text{Al}_2\text{O}_3$. <i>Physical Review B</i> , 2021, 104, .	3.0	20
4	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
5	Mixed-Valence Lanthanide-Activated Phosphors: Invariance of the Intervalence Charge Transfer (IVCT) Absorption Onset across the Series. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2619-2626.	3.1	15
6	On a local (de-)trapping model for highly doped Pr ³⁺ radioluminescent and persistent luminescent nanoparticles. <i>Nanoscale</i> , 2020, 12, 20759-20766.	5.6	13
7	Broadband infrared LEDs based on europium-to-terbium charge transfer luminescence. <i>Nature Communications</i> , 2020, 11, 3647.	12.8	99
8	Identification of Dy ³⁺ as Electron Trap in Persistent Phosphors. <i>Physical Review Letters</i> , 2020, 125, 033001.		
9	The almost hidden role of deep traps when measuring afterglow and thermoluminescence of persistent phosphors. <i>Journal of Luminescence</i> , 2020, 226, 117496.	3.1	18
10	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. <i>Journal of Luminescence</i> , 2020, 226, 117482.	3.1	18
11	Optically Stimulated Nanodosimeters with High Storage Capacity. <i>Nanomaterials</i> , 2019, 9, 1127.	4.1	26
12	Blind spheres of paramagnetic dopants in solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10185-10194.	2.8	21
13	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
14	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
15	2D and 3D lanthanide metal-organic frameworks constructed from three benzenedicarboxylate ligands: synthesis, structure and luminescent properties. <i>CrystEngComm</i> , 2018, 20, 615-623.	2.6	32
16	Insight into the Upconversion Luminescence of Highly Efficient Lanthanide-Doped Bi ₂ O ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7389-7398.	3.1	28
17	Microscopic Study of Dopant Distribution in Europium Doped SrGa ₂ S ₄ : Impact on Thermal Quenching and Phosphor Performance. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3052-R3056.	1.8	9

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19	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
20	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
21	Red Mn ⁴⁺ -Doped Fluoride Phosphors: Why Purity Matters. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18845-18856.	8.0	74
22	(Invited) Eu ²⁺ -Doped K _x Na _{1-x} LuS ₂ Ternary Sulfides: Application and Perspectives in White LEDs. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
23	(Invited) Red Fluoride Phosphors: A Story of Reliability. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
24	(Invited) Microscopic Study of Dopant Distribution in Phosphors: Impact on Thermal Quenching and Phosphor Performance. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
25	Stabilizing colour and intensity. <i>Nature Materials</i> , 2017, 16, 500-501.	27.5	88
26	Hybrid remote quantum dot/powder phosphor designs for display backlights. <i>Light: Science and Applications</i> , 2017, 6, e16271-e16271.	16.6	133
27	Charge transfer induced energy storage in CaZnOS:Mn – insight from experimental and computational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9075-9085.	2.8	21
28	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
29	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
30	Counting the Photons: Determining the Absolute Storage Capacity of Persistent Phosphors. <i>Materials</i> , 2017, 10, 867.	2.9	47
31	Nonequivalent lanthanide defects: Energy level modeling. <i>Optical Materials</i> , 2016, 61, 50-58.	3.6	6
32	Investigation of the quenching mechanisms of Tb ³⁺ doped scheelites. <i>Journal of Luminescence</i> , 2016, 173, 263-273.	3.1	12
33	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
34	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
35	Energy level modeling of lanthanide materials: review and uncertainty analysis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19058-19078.	2.8	60
36	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. <i>Review of Scientific Instruments</i> , 2014, 85, 123115.	1.3	96

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CITATIONS

37	Trapping and detrapping in $\text{SrAl}_2\text{O}_4:\text{Eu}_{128}$ phosphors: Influence of excitation wavelength and temperature. Physical Review B, 2014, 90, .		
38	Luminescence of ytterbium in CaS and SrS. Journal of Luminescence, 2014, 154, 445-451.	3.1	18
39	Evaluating the use of blue phosphors in white LEDs: the case of $\text{Sr}_0.25\text{Ba}_0.75\text{Si}_2\text{O}_2\text{N}_2:\text{Eu}^{2+}$. Journal of Solid State Lighting, 2014, 1, 6.	2.3	17
40	Origin of saturated green emission from europium in zinc thiogallate. Optical Materials Express, 2013, 3, 1338.	3.0	17
41	Thermal quenching and luminescence lifetime of saturated green $\text{Sr}_1-x\text{Eu}_x\text{Ga}_2\text{S}_4$ phosphors. Optical Materials, 2012, 34, 1902-1907.	3.6	30