

David Van der Heggen

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

497
citations

687220

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14
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14
docs citations

14
times ranked

446
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband infrared LEDs based on europium-to-terbium charge transfer luminescence. Nature Communications, 2020, 11, 3647.	5.8	99
2	Persistent phosphors for the future: Fit for the right application. Journal of Applied Physics, 2020, 128, .	1.1	99
3	Highly Responsive Photochromic Ceramics for High-Contrast Rewritable Information Displays. Laser and Photonics Reviews, 2021, 15, 2000525.	4.4	51
4	Counting the Photons: Determining the Absolute Storage Capacity of Persistent Phosphors. Materials, 2017, 10, 867.	1.3	47
5	Importance of Evaluating the Intensity Dependency of the Quantum Efficiency: Impact on LEDs and Persistent Phosphors. ACS Photonics, 2018, 5, 4529-4537.	3.2	46
6	Optically Stimulated Nanodosimeters with High Storage Capacity. Nanomaterials, 2019, 9, 1127.	1.9	26
7	The almost hidden role of deep traps when measuring afterglow and thermoluminescence of persistent phosphors. Journal of Luminescence, 2020, 226, 117496.	1.5	18
8	Elucidation of the electron transfer mechanism in Eu^{2+} and Sm^{2+} codoped Pr^{3+} Physical Review B, 2021, 104, .	1.1	18
9	Hackmanite – The Natural Glow-in-the-Dark Material. Chemistry of Materials, 2020, 32, 8895-8905.	3.2	17
10	A Standalone, Battery-Free Light Dosimeter for Ultraviolet to Infrared Light. Advanced Functional Materials, 2022, 32, .	7.8	17
11	Realizing Simultaneous X-Ray Imaging and Dosimetry Using Phosphor-Based Detectors with High Memory Stability and Convenient Readout Process. Advanced Functional Materials, 2022, 32, .	7.8	17
12	Microwave-assisted synthesis followed by a reduction step: making persistent phosphors with a large storage capacity. Dalton Transactions, 2020, 49, 4518-4527.	1.6	15
13	Realizing nondestructive luminescence readout in photochromic ceramics via deep ultraviolet excitation for optical information storage. Journal of Materials Chemistry C, 2021, 9, 14012-14020.	2.7	14
14	On a local (de-)trapping model for highly doped Pr^{3+} radioluminescent and persistent luminescent nanoparticles. Nanoscale, 2020, 12, 20759-20766.	2.8	13