

Karolina Trejgis

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

929
citations

567247

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24
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of highly sensitive YAG:Cr ³⁺ ,Nd ³⁺ nanocrystal-based luminescent thermometer operating in an optical window of biological tissues. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7343-7351.	2.8	121
2	Luminescence lifetime thermometry with Mn ³⁺ –Mn ⁴⁺ co-doped nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7092-7100.	5.5	109
3	Thermochromic Luminescent Nanomaterials Based on Mn ⁴⁺ /Tb ³⁺ Codoping for Temperature Imaging with Digital Cameras. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44039-44048.	8.0	90
4	The influence of manganese concentration on the sensitivity of bandshape and lifetime luminescent thermometers based on Y ₃ Al ₅ O ₁₂ :Mn ³⁺ ,Mn ⁴⁺ ,Nd ³⁺ nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9574-9581.	2.8	89
5	Luminescence based temperature bio-imaging: Status, challenges, and perspectives. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	84
6	Engineering excited state absorption based nanothermometry for temperature sensing and imaging. <i>Nanoscale</i> , 2020, 12, 4667-4675.	5.6	72
7	Luminescence thermometry with transition metal ions. A review. <i>Coordination Chemistry Reviews</i> , 2022, 469, 214671.	18.8	69
8	Near-Infrared-to-Near-Infrared Excited-State Absorption in LaPO ₄ :Nd ³⁺ Nanoparticles for Luminescent Nanothermometry. <i>ACS Applied Nano Materials</i> , 2020, 3, 4818-4825.	5.0	44
9	Phosphor-Assisted Temperature Sensing and Imaging Using Resonant and Nonresonant Photoexcitation Scheme. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43081-43089.	8.0	42
10	Enhancing the sensitivity of a Nd ³⁺ ,Yb ³⁺ :YVO ₄ nanocrystalline luminescent thermometer by host sensitization. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10532-10539.	2.8	37
11	Upconverting SrF ₂ :Er ³⁺ Nanoparticles for Optical Temperature Sensors. <i>ACS Applied Nano Materials</i> , 2021, 4, 10438-10448.	5.0	35
12	Fabrication and characterization of up-converting β -NaYF ₄ :Er ³⁺ ,Yb ³⁺ @NaYF ₄ core–shell nanoparticles for temperature sensing applications. <i>Scientific Reports</i> , 2020, 10, 14672.	3.3	26
13	Nd ³⁺ doped TZPN glasses for NIR operating single band ratiometric approach of contactless temperature readout. <i>Journal of Luminescence</i> , 2020, 224, 117295.	3.1	25
14	Highly sensitive multiparametric luminescent thermometer for biologically-relevant temperatures based on Mn ⁴⁺ , Ln ³⁺ co-doped SrTiO ₃ nanocrystals. <i>Journal of Alloys and Compounds</i> , 2021, 875, 159973.	5.5	23
15	The role of surface related quenching in the single band ratiometric approach based on excited state absorption processes in Nd ³⁺ doped phosphors. <i>Materials Research Bulletin</i> , 2021, 139, 111288.	5.2	17
16	Strong sensitivity enhancement in lifetime-based luminescence thermometry by co-doping of SrTiO ₃ :Mn ⁴⁺ nanocrystals with trivalent lanthanide ions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10309-10316.	5.5	14
17	Effect of the nanoparticle size on thermometric properties of a single-band ratiometric luminescent thermometer in NaYF ₄ :Nd ³⁺ . <i>Journal of Materials Chemistry C</i> , 2022, 10, 3006-3014.	5.5	12
18	Impact of host composition and dopant ion concentration on the thermometric properties of a Eu ³⁺ activated fluoride-based single-band ratiometric luminescent thermometer. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162839.	5.5	6

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19	A single-band ratiometric luminescent thermometer based on tetrafluorides operating entirely in the infrared region. <i>Nanoscale Advances</i> , 2022, 4, 437-446.	4.6	5
20	Synergy between NIR luminescence and thermal emission toward highly sensitive NIR operating emissive thermometry. <i>Scientific Reports</i> , 2020, 10, 19692.	3.3	4
21	Modulation of thermometric performance of single-band-ratiometric luminescent thermometers based on luminescence of Nd ³⁺ activated tetrafluorides by size modification. <i>Scientific Reports</i> , 2022, 12, 5847.	3.3	3
22	Synthesis and characterizations of YZ-BDC:Eu ³⁺ ,Tb ³⁺ nanothermometers for luminescence-based temperature sensing. <i>RSC Advances</i> , 2022, 12, 13065-13073.	3.6	2