

Karolina Trejgis

List of Publications by Citations

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Version: 2024-04-28

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21
papers

536
citations

10
h-index

23
g-index

24
ext. papers

734
ext. citations

6.9
avg, IF

4.92
L-index

#	Paper	IF	Citations
21	Optimization of highly sensitive YAG:Cr,Nd nanocrystal-based luminescent thermometer operating in an optical window of biological tissues. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7343-7351	3.6	93
20	The influence of manganese concentration on the sensitivity of bandshape and lifetime luminescent thermometers based on YAlO:Mn,Mn,Nd nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9574-9581	3.6	74
19	Luminescence lifetime thermometry with Mn ³⁺ /Mn ⁴⁺ co-doped nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7092-7100	7.1	71
18	Engineering excited state absorption based nanothermometry for temperature sensing and imaging. <i>Nanoscale</i> , 2020 , 12, 4667-4675	7.7	50
17	Luminescence based temperature bio-imaging: Status, challenges, and perspectives. <i>Applied Physics Reviews</i> , 2021 , 8, 011317	17.3	42
16	Thermochromic Luminescent Nanomaterials Based on Mn/Tb Codoping for Temperature Imaging with Digital Cameras. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44039-44048	9.5	41
15	Phosphor-Assisted Temperature Sensing and Imaging Using Resonant and Nonresonant Photoexcitation Scheme. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43081-43089	9.5	37
14	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	5.6	31
13	Enhancing the sensitivity of a Nd,Yb:YVO nanocrystalline luminescent thermometer by host sensitization. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10532-10539	3.6	23
12	Nd ³⁺ doped TZPN glasses for NIR operating single band ratiometric approach of contactless temperature readout. <i>Journal of Luminescence</i> , 2020 , 224, 117295	3.8	20
11	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	5.1	9
10	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	5.7	9
9	Fabrication and characterization of up-converting [NaYF ₄ :Er,Yb@NaYF ₄] core-shell nanoparticles for temperature sensing applications. <i>Scientific Reports</i> , 2020 , 10, 14672	4.9	7
8	Upconverting SrF ₂ :Er ³⁺ Nanoparticles for Optical Temperature Sensors. <i>ACS Applied Nano Materials</i> ,	5.6	7
7	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> ,	7.1	4
6	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> , 2021 , 898, 162839	5.7	4
5	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	7.1	16

4	A single-band ratiometric luminescent thermometer based on tetrafluorides operating entirely in the infrared region. <i>Nanoscale Advances</i> ,	5.1	2
3	Synergy between NIR luminescence and thermal emission toward highly sensitive NIR operating emissive thermometry. <i>Scientific Reports</i> , 2020 , 10, 19692	4.9	2
2	Synthesis and characterizations of YZ-BDC:Eu,Tb nanothermometers for luminescence-based temperature sensing.. <i>RSC Advances</i> , 2022 , 12, 13065-13073	3.7	0
1	Modulation of thermometric performance of single-band-ratiometric luminescent thermometers based on luminescence of Nd activated tetrafluorides by size modification.. <i>Scientific Reports</i> , 2022 , 12, 5847	4.9	