Karolina Trejgis

List of Publications by Year in Descending Order

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	Modulation of thermometric performance of single-band-ratiometric luminescent thermometers based on luminescence of Nd activated tetrafluorides by size modification.. *Scientific Reports*, **2022**, 12, 5847	4.9	
20	Synthesis and characterizations of YZ-BDC:Eu,Tb nanothermometers for luminescence-based temperature sensing.. *RSC Advances*, **2022**, 12, 13065-13073	3.7	0
19	Impact of host composition and dopant ion concentration on the thermometric properties of a Eu3+ activated fluoride-based single-band ratiometric luminescent thermometer. *Journal of Alloys and Compounds*, **2021**, 898, 162839	5.7	4
18	Luminescence based temperature bio-imaging: Status, challenges, and perspectives. *Applied Physics Reviews*, **2021**, 8, 011317	17.3	42
17	Strong sensitivity enhancement in lifetime-based luminescence thermometry by co-doping of SrTiO3:Mn4+ nanocrystals with trivalent lanthanide ions. *Journal of Materials Chemistry C*, **2021**, 9, 10309-10316	7.1	3
16	The role of surface related quenching in the single band ratiometric approach based on excited state absorption processes in Nd3+ doped phosphors. *Materials Research Bulletin*, **2021**, 139, 111288	5.1	9
15	Highly sensitive multiparametric luminescent thermometer for biologically-relevant temperatures based on Mn4+, Ln3+ co-doped SrTiO3 nanocrystals. *Journal of Alloys and Compounds*, **2021**, 875, 159973	5.7	9
14	Engineering excited state absorption based nanothermometry for temperature sensing and imaging. *Nanoscale*, **2020**, 12, 4667-4675	7.7	50
13	Fabrication and characterization of up-converting NaYF:Er,Yb@NaYF core-shell nanoparticles for temperature sensing applications. *Scientific Reports*, **2020**, 10, 14672	4.9	7
12	Thermochromic Luminescent Nanomaterials Based on Mn/Tb Codoping for Temperature Imaging with Digital Cameras. *ACS Applied Materials & Interfaces*, **2020**, 12, 44039-44048	9.5	41
11	Synergy between NIR luminescence and thermal emission toward highly sensitive NIR operating emissive thermometry. *Scientific Reports*, **2020**, 10, 19692	4.9	2
10	Nd3+ doped TZPN glasses for NIR operating single band ratiometric approach of contactless temperature readout. *Journal of Luminescence*, **2020**, 224, 117295	3.8	20
9	Near-Infrared-to-Near-Infrared Excited-State Absorption in LaPO4:Nd3+ Nanoparticles for Luminescent Nanothermometry. *ACS Applied Nano Materials*, **2020**, 3, 4818-4825	5.6	31
8	Enhancing the sensitivity of a Nd,Yb:YVO nanocrystalline luminescent thermometer by host sensitization. *Physical Chemistry Chemical Physics*, **2019**, 21, 10532-10539	3.6	23
7	The influence of manganese concentration on the sensitivity of bandshape and lifetime luminescent thermometers based on YAlO:Mn,Mn,Nd nanocrystals. *Physical Chemistry Chemical Physics*, **2018**, 20, 9574-9581	3.6	74
6	Luminescence lifetime thermometry with Mn3+/Mn4+ co-doped nanocrystals. *Journal of Materials Chemistry C*, **2018**, 6, 7092-7100	7.1	71
5	Optimization of highly sensitive YAG:Cr,Nd nanocrystal-based luminescent thermometer operating in an optical window of biological tissues. *Physical Chemistry Chemical Physics*, **2017**, 19, 7343-7351	3.6	93

4	Phosphor-Assisted Temperature Sensing and Imaging Using Resonant and Nonresonant Photoexcitation Scheme. *ACS Applied Materials & Interfaces*, **2017**, 9, 43081-43089	9.5	37
3	Effect of the nanoparticle size on thermometric properties of a single-band ratiometric luminescent thermometer in NaYF4:Nd3+. *Journal of Materials Chemistry C*,	7.1	4
2	A single-band ratiometric luminescent thermometer based on tetrafluorides operating entirely in the infrared region. *Nanoscale Advances*,	5.1	2
1	Upconverting SrF2:Er3+ Nanoparticles for Optical Temperature Sensors. *ACS Applied Nano Materials*,	5.6	7