

Karolina A Ledwa

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

450
citations

858243

12
h-index

843174

20
g-index

24
all docs

24
docs citations

24
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	A single-band ratiometric luminescent thermometer based on tetrafluorides operating entirely in the infrared region. <i>Nanoscale Advances</i> , 2022, 4, 437-446.	2.2	5
2	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.	2.8	6
3	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.	2.7	12
4	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.	1.6	3
5	Role of SiO ₂ Coating on YAG:V ³⁺ ,Nd ³⁺ Nanoparticles in Luminescence Thermometry. <i>ACS Applied Nano Materials</i> , 2022, 5, 8271-8278.	2.4	2
6	The influence of Ce ³⁺ codoping on upconversion in nanocrystalline NaYF ₄ :Yb ³⁺ ,Tm ³⁺ . <i>Journal of Luminescence</i> , 2022, 251, 119116.	1.5	2
7	A novel approach in light-to-heat conversion: Cr ³⁺ -based photothermal agent. <i>Materials Today Chemistry</i> , 2022, 26, 101039.	1.7	2
8	Spectral and thermometric properties altering through crystal field strength modification and host material composition in luminescence thermometers based on Fe ³⁺ doped AB ₂ O ₄ -type nanocrystals (A = Mg, Ca; B = Al, Ga). <i>Journal of Materials Chemistry C</i> , 2021, 9, 517-527.	2.7	32
9	Energy transfer study in GdVO ₄ : Bi ³⁺ , Yb ³⁺ obtained by microwave-assisted hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158393.	2.8	6
10	Regenerability of complex (PdO) _x Pd _{0.05-x} Ce _{0.95} O _{2-y} catalyst stabilized on functionalized alumina surface. <i>Materials Research Bulletin</i> , 2021, 141, 111357.	2.7	5
11	Atomically dispersed cerium species in NM _x Ce _{1-x} O ₂ /Al ₂ O ₃ (NM = Rh, Ru) catalysts. <i>Materials Research Bulletin</i> , 2020, 122, 110673.	2.7	3
12	Structural modification of nanohydroxyapatite Ca ₁₀ (PO ₄) ₆ (OH) ₂ related to Eu ³⁺ and Sr ²⁺ ions doping and its spectroscopic and antimicrobial properties. <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110884.	1.5	30
13	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.	4.0	90
14	Ru _{0.05} Ce _{0.95} O _{2-y} deposited on functionalized alumina as a smart catalyst for propane oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119090.	10.8	23
15	Implementing Defects for Ratiometric Luminescence Thermometry. <i>Nanomaterials</i> , 2020, 10, 1333.	1.9	11
16	Reversibility of the "Solution" Redispersion Processes of Rhodium in Rh _{0.15} Ce _{0.85} O ₂ Nanoparticles Deposited on Functionalized Alumina. <i>ChemNanoMat</i> , 2020, 6, 1260-1269.	1.5	8
17	Intentional modification of the optical spectral response and relative sensitivity of luminescent thermometers based on Fe ³⁺ ,Cr ³⁺ ,Nd ³⁺ co-doped garnet nanocrystals by crystal field strength optimization. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1697-1705.	3.2	21
18	LiAl ₅ O ₈ :Fe ³⁺ and LiAl ₅ O ₈ :Fe ³⁺ , Nd ³⁺ as a New Luminescent Nanothermometer Operating in 1st Biological Optical Window. <i>Nanomaterials</i> , 2020, 10, 189.	1.9	31

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19	Thermal stability and propane combustion activity of $\text{Rh}_x\text{Ce}_{1-x}\text{O}_{2y}$ nanoparticles deposited on functionalized alumina. <i>Catalysis Science and Technology</i> , 2019, 9, 4633-4644.	2.1	12
20	Enhancing the Relative Sensitivity of V^{5+} , V^{4+} and V^{3+} Based Luminescent Thermometer by the Optimization of the Stoichiometry of $\text{Y}_3\text{Al}_5\text{Ga}_x\text{O}_{12}$ Nanocrystals. <i>Nanomaterials</i> , 2019, 9, 1375.	1.9	26
21	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.	1.3	37
22	$\text{Ru}_x\text{Ce}_{1-x}\text{O}_2$ -y nanoparticles deposited on functionalized $\hat{\text{I}}^3\text{-Al}_2\text{O}_3$ as a thermally stable oxidation catalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 135-144.	10.8	35
23	Dispersion of ceria nanoparticles on $\hat{\text{I}}^3$ -alumina surface functionalized using long chain carboxylic acids. <i>Applied Surface Science</i> , 2017, 400, 212-219.	3.1	24
24	From quencher to potent activator – Multimodal luminescence thermometry with Fe^{3+} in the oxides MAl_4O_7 (M = Ca, Sr, Ba). <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	24