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List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly Sensitive Dual Self-Referencing Temperature Readout from the $\text{Mn}^{4+}/\text{Ho}^{3+}$ Binary Luminescence Thermometry Probe. <i>Advanced Optical Materials</i> , 2018, 6, 1800552.	7.3	113
2	Making Nd^{3+} a Sensitive Luminescent Thermometer for Physiological Temperatures—An Account of Pitfalls in Boltzmann Thermometry. <i>Nanomaterials</i> , 2020, 10, 543.	4.1	94
3	$\text{MgTiO}_3:\text{Mn}^{4+}$ a multi-reading temperature nanoprobe. <i>RSC Advances</i> , 2018, 8, 18341-18346.	3.6	56
4	$\text{Li}_2\text{TiO}_3:\text{Mn}^{4+}$ Deep-Red Phosphor for the Lifetime-Based Luminescence Thermometry. <i>ChemistrySelect</i> , 2019, 4, 7067-7075.	1.5	41
5	Strong emission via up-conversion of $\text{Gd}_2\text{O}_3:\text{Yb}^{3+}, \text{Ho}^{3+}$ nanopowders co-doped with alkali metals ions. <i>Journal of Luminescence</i> , 2014, 145, 466-472.	3.1	36
6	Enhancement of luminescence emission from $\text{GdVO}_4:\text{Er}^{3+}/\text{Yb}^{3+}$ phosphor by Li^{+} co-doping. <i>Journal of Solid State Chemistry</i> , 2014, 217, 92-98.	2.9	36
7	Annealing effects on the microstructure and photoluminescence of Eu^{3+} -doped GdVO_4 powders. <i>Optical Materials</i> , 2013, 35, 1797-1804.	3.6	34
8	Luminescence of Mn^{4+} ions in CaTiO_3 and MgTiO_3 perovskites: Relationship of experimental spectroscopic data and crystal field calculations. <i>Optical Materials</i> , 2017, 74, 46-51.	3.6	31
9	Surface-modified TiO_2 powders with phenol derivatives: A comparative DFT and experimental study. <i>Chemical Physics Letters</i> , 2017, 686, 167-172.	2.6	29
10	$\text{LiNa}_8\text{TiO}_{10}$ phosphor for the lifetime-based luminescence thermometry. <i>Optics Communications</i> , 2019, 452, 342-346.	2.1	28
11	Multiparametric luminescence thermometry from $\text{Dy}^{3+}, \text{Cr}^{3+}$ double activated YAG. <i>Journal of Luminescence</i> , 2021, 238, 118306.	3.1	22
12	Comparative structural and photoluminescent study of Eu^{3+} -doped La_2O_3 and $\text{La}(\text{OH})_3$ nanocrystalline powders. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 276-282.	4.0	21
13	Europium(III)-doped $\text{A}_2\text{Hf}_2\text{O}_7$ ($\text{A} = \text{Y}, \text{Gd}, \text{Lu}$) nanoparticles: Influence of annealing temperature, europium(III) concentration and host cation on the luminescent properties. <i>Optical Materials</i> , 2016, 61, 68-76.	3.6	18
14	Visible light absorption of surface-modified Al_2O_3 powders: A comparative DFT and experimental study. <i>Microporous and Mesoporous Materials</i> , 2019, 273, 41-49.	4.4	15
15	Effects of Li^{+} co-doping on properties of Eu^{3+} activated TiO_2 anatase nanoparticles. <i>Optical Materials</i> , 2017, 72, 316-322.	3.6	14
16	Hybrid visible-light responsive Al_2O_3 particles. <i>Chemical Physics Letters</i> , 2017, 685, 416-421.	2.6	14
17	Europium-doped nanocrystalline $\text{Y}_2\text{O}_3 \sim \text{La}_2\text{O}_3$ solid solutions with bixbyite structure. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 1152-1159.	4.0	12
18	Charge-transfer complex formation between TiO_2 nanoparticles and thiosalicylic acid: A comprehensive experimental and DFT study. <i>Optical Materials</i> , 2017, 73, 163-171.	3.6	12

#	ARTICLE	IF	CITATIONS
19	Antimicrobial and Photocatalytic Abilities of Ag ₂ CO ₃ Nano-Rods. ChemistrySelect, 2017, 2, 2931-2938.	1.5	11
20	Effect of annealing on luminescence of Eu ³⁺ - and Sm ³⁺ -doped Mg ₂ TiO ₄ nanoparticles. Journal of Luminescence, 2016, 170, 679-685.	3.1	9
21	The photocatalytic performance of silver halides – Silver carbonate heterostructures. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 336, 1-7.	3.9	9
22	Highly sensitive temperature reading from intensity ratio of Eu ³⁺ And Mn ⁴⁺ emissions in Y ₃ Al ₅ O ₁₂ nanocrystals. Materials Research Bulletin, 2022, 149, 111708.	5.2	9
23	Photoluminescence of the Eu ³⁺ -Activated Y _x Lu _{1-x} NbO ₄ (x = 0, 0.25, 0.5, 0.75, 1) Solid-Solution Phosphors. Crystals, 2022, 12, 427.	2.2	7
24	Eu ³⁺ -doped (Y _{0.5} La _{0.5}) ₂ O ₃ : new nanophosphor with the bixbyite cubic structure. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	6
25	Photoluminescence of europium(III)-doped (Y Sc _{1-x}) ₂ O ₃ nanoparticles: Linear relationship between structural and emission properties. Ceramics International, 2016, 42, 3899-3906.	4.8	5
26	Electronic structure of surface complexes between CeO ₂ and benzene derivatives: A comparative experimental and DFT study. Materials Chemistry and Physics, 2019, 236, 121816.	4.0	4
27	Surface Plasmon Enhancement of Eu ³⁺ Emission Intensity in LaPO ₄ /Ag Nanoparticles. Materials, 2020, 13, 3071.	2.9	4
28	Processing and characterization of up-converting Er ³⁺ doped (Lu _{0.5} Y _{0.5}) ₂ O ₃ nanophosphor. International Journal of Materials Research, 2013, 104, 216-221.	0.3	4
29	Radiation effects on luminescent and structural properties of YPO ₄ : Pr ³⁺ nanophosphors. Radiation Effects and Defects in Solids, 2018, 173, 1054-1067.	1.2	1