

Zhenyu Liu

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,102
citations

516710

16
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501196

28
g-index

28
all docs

28
docs citations

28
times ranked

1558
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature sensor based on the UV upconversion luminescence of Gd ³⁺ in Yb ³⁺ –Tm ³⁺ –Gd ³⁺ codoped NaLuF ₄ microcrystals. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5502.	5.5	225
2	Multi-ion cooperative processes in Yb ³⁺ clusters. <i>Light: Science and Applications</i> , 2014, 3, e193-e193.	16.6	148
3	Impact of Lanthanide Nanomaterials on Photonic Devices and Smart Applications. <i>Small</i> , 2018, 14, e1801882.	10.0	128
4	Room temperature molecular up conversion in solution. <i>Nature Communications</i> , 2016, 7, 11978.	12.8	83
5	Enhanced deep-ultraviolet upconversion emission of Gd ³⁺ sensitized by Yb ³⁺ and Ho ³⁺ in β -NaLuF ₄ microcrystals under 980 nm excitation. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2485.	5.5	72
6	Fast synthesis of Dy ³⁺ and Tm ³⁺ co-doped double perovskite NaLaMgWO ₆ : a thermally stable single-phase white-emitting phosphor for WLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2117-2122.	5.5	66
7	Fast synthesis of red Li ₃ BaSrLn ₃ (WO ₄) ₈ :Eu ³⁺ phosphors for white LEDs under near-UV excitation by a microwave-assisted solid state reaction method and photoluminescence studies. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12322-12327.	5.5	48
8	Color control and white upconversion luminescence of LaOF:Ln ³⁺ (Ln = Yb, Er, Tm) nanocrystals prepared by the sol-gel Pechini method. <i>Dalton Transactions</i> , 2013, 42, 5159.	3.3	46
9	Improved 800 nm emission of Tm ³⁺ sensitized by Yb ³⁺ and Ho ³⁺ in β -NaYF ₄ nanocrystals under 980 nm excitation. <i>Optics Express</i> , 2012, 20, 7602.	3.4	34
10	Upconversion emissions from high-energy states of Eu ³⁺ sensitized by Yb ³⁺ and Ho ³⁺ in β -NaYF ₄ microcrystals under 980 nm excitation. <i>Optics Express</i> , 2011, 19, 25471.	3.4	32
11	Controllable synthesis and size-dependent upconversion luminescence properties of Lu ₂ O ₃ :Yb ³⁺ /Er ³⁺ nanospheres. <i>CrystEngComm</i> , 2014, 16, 4329-4337.	2.6	29
12	Reversible and Sensitive Hg ²⁺ Detection by a Cell-Permeable Ytterbium Complex. <i>Inorganic Chemistry</i> , 2018, 57, 120-128.	4.0	29
13	Synthesis and photoluminescence properties of perovskite LaMg _{0.667} Nb _{0.333} O ₃ :Mn ⁴⁺ ,Bi ³⁺ : a novel deep-red phosphor for WLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13297-13305.	5.5	22
14	Energy Transfer between Tb ³⁺ and Eu ³⁺ in LaPO ₄ : Pulsed versus Switched-off Continuous Wave Excitation. <i>Advanced Science</i> , 2019, 6, 1900487.	11.2	20
15	Infrared to ultraviolet upconversion fluorescence of Gd ³⁺ in β -NaYF ₄ microcrystals induced by 1560nm excitation. <i>Optical Materials</i> , 2011, 33, 783-787.	3.6	18
16	Controllable synthesis, upconversion luminescence, and paramagnetic properties of NaGdF ₄ :Yb ³⁺ ,Er ³⁺ microrods. <i>Journal of Fluorine Chemistry</i> , 2012, 144, 157-164.	1.7	17
17	Influence of core size on the upconversion luminescence properties of spherical Gd ₂ O ₃ :Yb ³⁺ /Er ³⁺ @SiO ₂ particles with core-shell structures. <i>Journal of Applied Physics</i> , 2013, 114, 183109.	2.5	15
18	Defect modulation and luminescence improvement of Mn ⁴⁺ -activated La(Mg) ₂ ETQqO ₀ 0 ₀ rgBT. <i>Overlock 10 Tf 50 67 Td Chemistry C</i> , 2022, 10, 3472-3479.	5.5	14

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19	The reported anomalous emission intensity of the ${}^5D_0 \rightarrow {}^7F_4$ transition of Eu^{3+} in a molybdate double perovskite. Journal of Materials Chemistry C, 2015, 3, 960-963.	5.5	12
20	Direct evidence of energy transfer from Er^{3+} to Sm^{3+} in $\text{Er}^{3+}/\text{Sm}^{3+}$ co-doped system. Chemical Physics Letters, 2012, 543, 166-169.	2.6	8
21	Tunable upconversion emission in $\text{Ba}_2\text{YF}_7:\text{Yb}^{3+}/\text{Er}^{3+}$ nanocrystals with different Yb^{3+} concentration. Materials Research Bulletin, 2013, 48, 2361-2364.	5.2	8
22	Enhanced Near-Infrared Upconversion Luminescence of $\text{Gd}^{3+}:\text{Yb}^{3+}, \text{Tm}^{3+}$ by Li^{+} . Journal of Nanoscience and Nanotechnology, 2014, 14, 3687-3689.	0.9	6
23	Electronic Spectra of $\text{Cs}_2\text{NaYb}(\text{NO}_2)_6$: Is There Quantum Cutting?. Journal of Physical Chemistry A, 2018, 122, 4381-4388.	2.5	5
24	Ultraviolet Upconversion Fluorescence of Er^{3+} in $\text{Yb}^{3+}/\text{Er}^{3+}$ -Codoped Gd_2O_3 Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 9765-9769.	0.9	4
25	Improved Ultraviolet Upconversion Emissions of Ho^{3+} in Hexagonal NaYF_4 Microcrystals Under 980 nm Excitation. Journal of Nanoscience and Nanotechnology, 2014, 14, 3490-3493.	0.9	4
26	Theory on cooperative quantum transitions of three identical lanthanide ions. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 303.	2.1	4
27	Size Dependent Ultraviolet Upconversion in Single $\text{YF}_3:\text{Yb}^{3+}/\text{Tm}^{3+}$ Particles. Journal of Nanoscience and Nanotechnology, 2011, 11, 9584-9587.	0.9	3
28	Energy Transfer: Energy Transfer between Tb^{3+} and Eu^{3+} in LaPO_4 : Pulsed versus Switched-off Continuous Wave Excitation (Adv. Sci. 10/2019). Advanced Science, 2019, 6, 1970060.	11.2	2