Nikifor Rakov

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9097478/publications.pdf

Version: 2024-02-01

40	984	394421	434195
papers	citations	19 h-index	31 g-index

40	40	40	975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tm3+,Yb3+: Y2SiO5 up-conversion phosphors: Exploration of temperature sensing performance by monitoring the luminescence emission. Physica B: Condensed Matter, 2022, 628, 413572.	2.7	10
2	Nd3+-doped amorphous calcium yttrium silicate ceramic powder for near-infrared thermometry. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
3	Highly sensitive optical thermometry operation using Eu3+:Y2O3 powders excited under low-intensity LED light source at 395Ânm. Journal of Materials Science: Materials in Electronics, 2021, 32, 23285-23292.	2.2	6
4	Tm3+/Yb3+co-doped SrF2 up-conversion phosphors for non-invasive optical thermometry: ratiometric approach using thermal and non-thermal coupled fluorescent emission bands. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
5	Broadband light emission induced by laser absorption and optimized by thermal injection in Nd 3+ :Y 2 SiO 5 ceramic powder. Journal of the American Ceramic Society, 2020, 103, 1782-1788.	3.8	4
6	Optical Thermometry Operation within All Three Biological Windows Using Nd³⁺:Er³⁺:Y₂O₃ Nanocomposite Phosphors. ACS Applied Nano Materials, 2020, 3, 10479-10486.	5.0	23
7	Thermometric analysis of the near-infrared emission of Nd3+ in Y2SiO5 ceramic powder prepared by combustion synthesis. Ceramics International, 2020, 46, 12165-12171.	4.8	23
8	Evaluation of the energy transfer mechanism leading to tunable green-to-red cooperative up-conversion emission in Eu3+-Yb3+ co-doped CaF2 powders. Journal of Luminescence, 2019, 214, 116561.	3.1	5
9	Managing optical heating via Al3+-doping in Er3+:SrF2 powder phosphors prepared by combustion synthesis. Dalton Transactions, 2019, 48, 4589-4595.	3.3	3
10	Enhancement of 1.5 Î¼m fluorescence signal from Er³⁺ due to Yb³⁺ in yttrium silicate powders pumped at 975 and 808 nm. Methods and Applications in Fluorescence, 2019, 7, 015003.	2.3	5
11	Upconversion luminescence in europium doped Y₂O₃ powder excited by absorption of three, four, and five infrared photons. Optical Materials Express, 2019, 9, 3952.	3.0	9
12	Exploring the 4I13/2 â†' 4I15/2 radiative transition from Er3+ in Y2O3 for temperature sensing. Journal of Luminescence, 2018, 199, 293-297.	3.1	36
13	Thermometric analysis of the near-infrared emission from Er3+ in yttrium silicate powders containing Mg2+. Journal of Alloys and Compounds, 2018, 735, 1629-1636.	5.5	3
14	A study of energy transfer phenomenon leading to photon up-conversion in Ho3+:Yb3+:CaF2 crystalline powders and its temperature sensing properties. Current Applied Physics, 2017, 17, 1223-1231.	2.4	15
15	Near-infrared emission and optical temperature sensing performance of Nd3+:SrF2 crystal powder prepared by combustion synthesis. Journal of Applied Physics, 2017, 121, .	2.5	40
16	Photon up-conversion production in Tb3+â€“Yb3+ co-doped CaF2 phosphors prepared by combustion synthesis. Materials Research Bulletin, 2016, 74, 103-108.	5.2	13
17	Photon conversion in lanthanide-doped powder phosphors: concepts and applications. RSC Advances, 2015, 5, 17283-17295.	3.6	46
18	Yb3+ sensitized Er3+ doped Gd2SiO5 powders prepared by combustion synthesis: Up-conversion fluorescence emission at visible from near-infrared. Ceramics International, 2015, 41, 13348-13353.	4.8	7

#	Article	IF	Citations
19	Facile fabrication of Eu3+-doped lanthanum oxyfluoride powders by combustion processes and temperature analysis of its fluorescence for thermal sensor application. Sensors and Actuators B: Chemical, 2015, 209, 407-412.	7.8	28
20	Investigation of Eu3+ luminescence enhancement in LaOF powders codoped with Tb3+ and prepared by combustion synthesis. Journal of Alloys and Compounds, 2015, 618, 127-131.	5.5	15
21	Cooling of Er³⁺with Tm³⁺for accurate temperature sensing using yttrium silicate compact powders. Dalton Transactions, 2014, 43, 16025-16030.	3.3	28
22	Nd^3+-Yb^3+ doped powder for near-infrared optical temperature sensing. Optics Letters, 2014, 39, 3767.	3.3	46
23	Upconversion fluorescence and its thermometric sensitivity of Er3+:Yb3+ co-doped SrF2 powders prepared by combustion synthesis. Electronic Materials Letters, 2014, 10, 985-989.	2.2	11
24	Optical temperature sensing by use of band-shape method in Tb3+-doped oxide powders. Optical Materials, 2014, 37, 635-640.	3.6	8
25	Cooperative upconversion luminescence in Tb3+:Yb3+ co-doped Y2SiO5 powders prepared by combustion synthesis. Journal of Solid State Chemistry, 2014, 211, 32-36.	2.9	17
26	Anomalous up-conversion dynamics in rare-earth doped yttrium oxide powders. Journal of Materials Chemistry C, 2013, 1, 3563.	5.5	7
27	Three- and four-photon excited upconversion luminescence in terbium doped lutetium silicate powders by femtosecond laser irradiation. Optical Materials Express, 2013, 3, 1803.	3.0	15
28	Spectroscopic properties of Eu3+- and Eu3+:Yb3+-doped LaOF crystalline powders prepared by combustion synthesis. Journal of Alloys and Compounds, 2012, 534, 32-36.	5.5	24
29	Analysis of inner filter effect on the up-conversion spectra of erbium doped yttrium oxide close-packed powders. Optics Communications, 2012, 285, 5242-5246.	2.1	3
30	Er:SrF2 luminescent powders prepared by combustion synthesis. Materials Chemistry and Physics, 2012, 135, 317-321.	4.0	21
31	Temperature sensing performance of dysprosium doped aluminum oxide powders. Optics Communications, 2012, 285, 1882-1884.	2.1	22
32	Three-photon upconversion and optical thermometry characterization of Er3+:Yb3+ co-doped yttrium silicate powders. Sensors and Actuators B: Chemical, 2012, 164, 96-100.	7.8	158
33	Temperature Analysis of the Luminescence from Eu³⁺ Doped Aluminum Oxide Powders Prepared by Combustion Synthesis. Science of Advanced Materials, 2012, 4, 681-685.	0.7	1
34	Strong infrared-to-visible frequency upconversion in Er3+-doped Sr2CeO4 powders. Journal of Luminescence, 2011, 131, 342-346.	3.1	21
35	Upconversion emission from Tm3+:Yb3+ and Tm3+:Er3+:Yb3+ doped Y2SiO5 powders prepared by combustion synthesis. Materials Chemistry and Physics, 2010, 123, 199-202.	4.0	28
36	Spectroscopic analysis of Eu3+ -and Eu3+:Yb3+-doped yttrium silicate crystalline powders prepared by combustion synthesis. Journal of Applied Physics, 2010, 108, 073501.	2.5	41

#	Article	IF	Citations
37	Strong upconversion from Er3Al5O12 ceramic powders prepared by low temperature direct combustion synthesis. Applied Physics Letters, 2006, 89, 081109.	3.3	32
38	Blue upconversion emission of Tm3+â€“Yb3+ in ZrO2 nanocrystals: Role of Yb3+ ions. Chemical Physics Letters, 2005, 407, 477-481.	2.6	86
39	Enhancement of luminescence efficiency of fâ€“f transitions from Tb3+ due to energy transfer from Ce3+ in Al2O3 crystalline ceramic powders prepared by low temperature direct combustion synthesis. Chemical Physics Letters, 2004, 400, 553-557.	2.6	39
40	Strong photoluminescence and cathodoluminescence due to fâ€“f transitions in Eu3+ doped Al2O3 powders prepared by direct combustion synthesis and thin films deposited by laser ablation. Applied Physics Letters, 2003, 83, 272-274.	3.3	80