Cristina Gheorghe

List of Publications by Year in descending order

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58	771	516710 16	642732 23
papers	citations	h-index	g-index

58	58	58	735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectroscopic characteristics of Dy3+ doped Y3Al5O12 transparent ceramics. Journal of Applied Physics, 2011, 110, .	2.5	60
2	Energy transfer processes of Nd3+ in Y2O3 ceramic. Journal of Luminescence, 2003, 102-103, 72-76.	3.1	42
3	Absorption intensities and emission cross section of Er3+ in Sc2O3 transparent ceramics. Journal of Applied Physics, 2008, 103, .	2.5	31
4	Ndâ†'Yb energy transfer in (Nd, Yb):Y2O3 transparent ceramics. Optical Materials, 2010, 32, 1333-1336.	3.6	31
5	Excited states dynamics of Er3+ in Sc2O3 ceramic. Journal of Luminescence, 2008, 128, 918-920.	3.1	30
6	Spectroscopic properties of Ho3+ doped Sc2O3 transparent ceramic for laser materials. Journal of Applied Physics, 2009, 105, .	2.5	28
7	Emission sensitization processes involving Nd 3+ in YAG. Journal of Luminescence, 2016, 170, 594-601.	3.1	28
8	Upconversion emission of RE3+ in Sc2O3 ceramic under 800nm pumping. Optical Materials, 2009, 31, 744-749.	3.6	27
9	Optical spectroscopy of Sm3+ in C2 and C3i sites of Y2O3 ceramics. Applied Physics B: Lasers and Optics, 2012, 108, 909-918.	2.2	23
10	Crystal field disorder effects in the optical spectra of Nd3+ and Yb3+-doped calcium lithium niobium gallium garnets laser crystals and ceramics. Journal of Applied Physics, 2012, 112, .	2.5	23
11	Spectroscopic and structural properties of Nd3+ doped strontium lanthanum aluminate laser crystals. Journal of Applied Physics, 2004, 96, 3057-3064.	2.5	21
12	Multicenter structure of the optical spectra and the charge-compensation mechanisms in Nd:SrWO4 laser crystals. Journal of Applied Physics, 2008, 104, 083102.	2.5	19
13	Efficient sensitization of Yb^3+ emission by Nd^3+ in Y_2O_3 transparent ceramics and the prospect for high-energy Yb lasers. Optics Letters, 2009, 34, 2141.	3.3	18
14	Spectroscopic characteristics of Tm3+ in Tm and Tm, Nd, Yb:Sc2O3 ceramic. Journal of Luminescence, 2008, 128, 901-904.	3.1	17
15	Optical properties of Sm3+ doped strontium hexa-aluminate single crystals. Journal of Alloys and Compounds, 2015, 622, 296-302.	5.5	17
16	Optical properties of Sm 3+ doped Ca 3 (Nb,Ga) 5 O 12 and Ca 3 (Li,Nb,Ga) 5 O 12 single crystals. Journal of Luminescence, 2017, 186, 175-182.	3.1	17
17	Highly transparent Yb:Y2O3 ceramics obtained by solid-state reaction and combined sintering procedures. Ceramics International, 2019, 45, 3217-3222.	4.8	17
18	Sensitized Yb3+ emission in (Nd, Yb):Y3Al5O12 transparent ceramics. Journal of Applied Physics, 2010, 108, 123112.	2.5	16

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19	Intensity parameters of Tm3+ doped Sc2O3 transparent ceramic laser material. Optical Materials, 2011, 33, 501-505.	3.6	16
20	Structural-phase state and lasing of 5â€“15 at% Yb3+:Y3Al5O12 optical ceramics. Journal of the European Ceramic Society, 2017, 37, 4115-4122.	5.7	16
21	Yellow laser potential of cubic Ca3(Nb,Ga)5O12:Dy3+ and Ca3(Li,Nb,Ga)5O12:Dy3+ single crystals. Journal of Alloys and Compounds, 2018, 739, 806-816.	5.5	16
22	Multicenters in Ce3+ visible emission of YAG ceramics. Optical Materials, 2014, 37, 727-733.	3.6	15
23	Optical thermometry through infrared excited green upconversion emissions of Er3+ -Yb3+ co-doped LaAlO3 phosphors. Journal of Luminescence, 2022, 242, 118602.	3.1	14
24	Compositional dependence of optical properties of Sm3+-doped Y3ScxAl5-xO12 polycrystalline ceramics. Journal of Alloys and Compounds, 2016, 683, 547-553.	5.5	13
25	Comparative high-resolution spectroscopy and emission dynamics of Nd-doped GSGG crystals and transparent ceramics. Journal of Luminescence, 2008, 128, 885-887.	3.1	12
26	Energy transfer-driven infrared emission processes in rare earth-doped Sc2O3 ceramics. Journal of Luminescence, 2009, 129, 1862-1865.	3.1	12
27	Electronic structure of Sm3+ ions in YAG and cubic sesquioxide ceramics. Optical Materials, 2013, 36, 419-424.	3.6	12
28	Lanthanideâ€“lanthanide and lanthanideâ€“defect interactions in co-doped ceria revealed by luminescence spectroscopy. Journal of Alloys and Compounds, 2014, 616, 535-541.	5.5	12
29	Emission properties and site occupation of Sm3+ ion doped Lu2O3 translucent ceramics. Journal of Alloys and Compounds, 2014, 588, 388-393.	5.5	12
30	Spectroscopic properties and laser performances of Yb:LGSB nonlinear optical crystal. Journal of Alloys and Compounds, 2016, 688, 510-517.	5.5	12
31	Thermal shifts of Sm^3+ lines in YAG and cubic sesquioxide ceramics. Optical Materials Express, 2013, 3, 1641.	3.0	11
32	Spectroscopic and de-excitation properties of (Cr,Nd):YAG transparent ceramics. Optical Materials Express, 2016, 6, 552.	3.0	11
33	Spectroscopic features and laser performance at 1.06 Î¼m of Nd3+-doped Gd1â^'xLuxCa4O(BO3)3 single crystal. Journal of Applied Physics, 2012, 111, .	2.5	10
34	Efficient near-infrared laser emission and nonlinear optical properties of a newly developed Yb:LYSB laser crystal. Journal of Alloys and Compounds, 2020, 844, 156143.	5.5	9
35	Bifunctional LaxNdyGdzSc4â^'xâ^'yâ^'z(BO3)4 crystal: Czochralski growth, linear and nonlinear optical properties, and near-infrared laser emission performances. Optics and Laser Technology, 2020, 131, 106433.	4.6	9
36	Sm3+-doped Sc2O3 polycrystalline ceramics: Spectroscopic investigation. Journal of Alloys and Compounds, 2012, 535, 78-82.	5.5	8

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37	Spectroscopic investigations of Pr3+ ions doped CNGG and CLNGG single crystals. Journal of Alloys and Compounds, 2019, 799, 288-301.	5.5	8
38	Energy transfer and luminescent properties of Tb3+ and Tb3+, Yb3+ doped CNGG phosphors. Journal of Rare Earths, 2022, 40, 1445-1453.	4.8	8
39	Structure and temperature effects on Nd3+ spectra in polycrystalline mixed scandium aluminum garnets Y3ScxAl5â‹'xO12. Optical Materials, 2015, 47, 465-472.	3.6	7
40	Efficient 1 Âµm Laser Emission of Czochralski-Grown Nd:LGSB Single Crystal. Materials, 2019, 12, 2005.	2.9	7
41	Enhancement of the laser emission efficiency of Yb:Y2O3 ceramics via multi-step sintering method fabrication. Optical Materials, 2020, 109, 110411.	3.6	7
42	Novel optical temperature sensors based on the emission of the Pr3+ ions doped Ca3(M,Ga)5O12 (M5+) Tj ETQq0 0 0 rgBT /Overlock 10	5.5	7
43	Structural and electron-phonon interaction effects in optical spectra of Pr 3+ and Sm 3+ in YAG. Journal of Alloys and Compounds, 2017, 706, 176-185.	5.5	6
44	1532â€¯nm sensitized luminescence and up-conversion in Yb,Er:YAG transparent ceramics. Optical Materials, 2018, 77, 221-225.	3.6	6
45	Crystal growth and structural characterization of Sm3+, Pr3+ and Dy3+-doped CNGG and CLNGG single crystals. Optical Materials, 2018, 84, 335-338.	3.6	6
46	A novel IR-transparent Ho3+:Y2O3â€“MgO nanocomposite ceramics for potential laser applications. Ceramics International, 2021, 47, 1399-1406.	4.8	6
47	Czochralski growth and characterization of neodymium-doped strontium lanthanum aluminate (ASL:Nd) single crystals. Journal of Crystal Growth, 2005, 277, 410-415.	1.5	5
48	Disorder effects in Nd3+-doped strontium hexa-aluminate laser crystals. Journal of Physics Condensed Matter, 2006, 18, 597-611.	1.8	5
49	Growth and characterization of 3.5 at.% Nd:LGSB bifunctional crystal. Optical Materials, 2022, 123, 111832.	3.6	3
50	(INVITED) Czochralski-grown LaxGdyRzSc4-x-y-z(BO3)4 (R = Yb, Nd) crystals - A review of recent developments. Optical Materials: X, 2020, 7, 100052.	0.8	2
51	Composition dependence of Pr3+ spectral characteristics in strontium lanthanum aluminate crystals. Optical Materials, 2007, 30, 164-167.	3.6	1
52	Cationic disorder effects in complex oxide laser materials and phosphors. Optical Materials, 2008, 30, 1677-1681.	3.6	1
53	Pr:LGSB as a new nonlinear optical crystal: Czochralski growth and optical characterization. Journal of Alloys and Compounds, 2022, 908, 164633.	5.5	1
54	Highly Efficient Laser Emission from a Novel Nd:LGSB Crystal. , 2019, , .		0

#	Article	IF	Citations
55	Enhancement of the laser emission efficiency of Yb:Y2O3 ceramics via multi-step sintering method fabrication. EPJ Web of Conferences, 2020, 243, 06005.	0.3	0
56	Thermal effects on Sm3+doped ceramic laser materials for ASE suppression. , 2013, , .		0
57	New Yb:LYSB bifunctional crystal for efficient near-infrared laser emission and self-frequency doubling conversion. EPJ Web of Conferences, 2020, 243, 06004.	0.3	0
58	LYSB and Yb-doped LYSB Crystals: Czochralski Growth, Optical Characterization and Laser Emission Performances. , 2021, , .		0