Marcos V Dos S Rezende

List of Publications by Year
in descending order

87 papers	1,097 citations	430874 18 h-index	552781 26 g-index
88 all docs	88 docs citations	88 times ranked	1002 citing authors

#	Article	IF	Citations
1	Nd3+-doped LiBaPO4 phosphors for optical temperature sensing within the first biological window: A new strategy to increase the sensitivity. Chemical Engineering Journal, 2020, 399, 125742.	12.7	42
2	Structural order, magnetic and intrinsic dielectric properties of magnetoelectric La 2 CoMnO 6. Journal of Alloys and Compounds, 2016, 661, 541-552.	5.5	38
3	Mechanism of X-ray excited optical luminescence (XEOL) in europium doped BaAl₂O₄ phosphor. Physical Chemistry Chemical Physics, 2016, 18, 17646-17654.	2.8	37
4	Tunable capacitor-varistor response of CaCu3Ti4O12/CaTiO3 ceramic composites with SnO2 addition. Materials Characterization, 2020, 170, 110699.	4.4	36
5	The optical properties of Eu3+ doped BaAl2O4: A computational and spectroscopic study. Optical Materials, 2012, 34, 1434-1439.	3.6	35
6	The impact of the synthesis conditions on SrAl 2 O 4 :Eu, Dy formation for a persistent afterglow. Materials and Design, 2016, 108, 354-363.	7.0	33
7	Ba-doping effects on structural, magnetic and vibrational properties of disordered La2NiMnO6. Journal of Alloys and Compounds, 2016, 663, 899-905.	5.5	33
8	Spectroscopy study of SrAl2O4:Eu3+. Journal of Luminescence, 2012, 132, 1015-1020.	3.1	32
9	Study of Eu3+â†'Eu2+ reduction in BaAl2O4:Eu prepared in different gas atmospheres. Materials Research Bulletin, 2015, 61, 348-351.	5.2	27
10	Laser sintering of persistent luminescent CaAl2O4:Eu2+Dy3+ ceramics. Optical Materials, 2017, 68, 2-6.	3.6	27
11	Influence of co-dopant in the europium reduction inÂSrAl₂O₄host. Journal of Synchrotron Radiation, 2014, 21, 143-148.	2.4	25
12	Mechanisms of radioluminescence of rare earths doped SrAl2O4 and Ca12Al14O33 excited by X-ray. Journal of Electron Spectroscopy and Related Phenomena, 2013, 189, 39-44.	1.7	24
13	Luminescent properties and energy transfer mechanism from Tb3+ to Eu3+ doped in Y3Al5O12 phosphors. Journal of Alloys and Compounds, 2020, 822, 153651.	5.5	23
14	Modelling the concentration dependence of rare earth doping in inorganic materials for optical applications: Application to rare earth doped barium aluminate. Optical Materials, 2011, 34, 109-118.	3.6	22
15	X-ray excited optical luminescence of Ce-doped BaAl2O4. Journal of Luminescence, 2012, 132, 1106-1111.	3.1	22
16	Effect of lithium excess on the LiAl_5O_8:Eu luminescent properties under VUV excitation. Optical Materials Express, 2016, 6, 2871.	3.0	22
17	Study of surfaces and morphologies of proteic solâ€“gel derived barium aluminate nanopowders: An experimental and computational study. Materials Chemistry and Physics, 2012, 136, 1052-1059.	4.0	21
18	Comparing the performance of Nd3+-doped LiBaPO4 phosphors as optical temperature sensors within the first biological window exploiting luminescence intensity ratio and bandwidth methods. Journal of Luminescence, 2020, 227, 117524.	3.1	20

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19	Tunable photoluminescence of CaCu3Ti4O12 based ceramics modified with tungsten. Journal of Alloys and Compounds, 2021, 850, 156652.	5.5	19
20	Eu doping and reduction into barium orthophosphates. Optical Materials, 2016, 58, 136-141.	3.6	18
21	Atomistic Simulation of Intrinsic Defects and Trivalent and Tetravalent Ion Doping in Hydroxyapatite. Advances in Condensed Matter Physics, 2014, 2014, 1-8.	1.1	17
22	Radioluminescence enhancement in Eu3+-doped Y3Al5O12 phosphors by Ga substitution. Optical Materials, 2015, 46, 530-535.	3.6	17
23	Effect of the PVA (polyvinyl alcohol) concentration on the optical properties of Eu-doped YAG phosphors. Optical Materials, 2016, 60, 495-500.	3.6	17
24	Vibrational properties and infrared dielectric features of Gd2CoMnO6 and Y2CoMnO6 double perovskites. Ceramics International, 2019, 45, 4756-4762.	4.8	17
25	Defects and dopant properties of SrSnO3 compound: A computational study. Computational Condensed Matter, 2019, 21, e00411.	2.1	16
26	In situ investigation of Ba-substitution effect on the Eu3+â†'Eu2+ conversion in SrAl2O4:Eu phosphor. Journal of Alloys and Compounds, 2017, 708, 79-83.	5.5	15
27	Effects of X-ray irradiation on the Eu3+Ââ†'ÂEu2+ conversion in CaAl2O4 phosphors. Optical Materials, 2018, 75, 122-126.	3.6	15
28	Electrical characterization of BaTiO3 and Ba0.77Ca0.23TiO3 ceramics synthesized by the proteic solâ€"gel method. Ceramics International, 2018, 44, 15526-15530.	4.8	15
29	Investigation of Europium dopant in the orthophosphate KMPO4 (M = Ba and Sr) compounds. Journal of Physics and Chemistry of Solids, 2019, 130, 282-289.	4.0	15
30	Optical properties of rare-earth doped Sr3Al2O6. Optical Materials, 2010, 32, 1341-1344.	3.6	14
31	The effect of the host composition on the lifetime decay properties of barium/strontium aluminates compounds. Journal of Applied Physics, 2014, 115, 103510.	2.5	13
32	Optical spectroscopy study of YVO4:Eu3+ nanopowders prepared by the proteic solâ€"gel route. Solid State Sciences, 2015, 42, 45-51.	3.2	13
33	X-ray excited optical luminescence of Eu-doped YAG nanophosphors produced via glucose solâ€"gel route. Ceramics International, 2016, 42, 10516-10519.	4.8	13
34	X-ray excited optical luminescence changes induced by excess/deficiency lithium ions in rare earth doped LiAl5O8. Journal of Luminescence, 2018, 199, 298-301.	3.1	13
35	Structural, microstructural, and luminescent properties of laser-sintered Eu-doped YAG ceramics. Optical Materials, 2019, 89, 334-339.	3.6	13
36	Effects of X-ray irradiation on the luminescent properties of Eu-doped LiSrPO4 phosphors produced using the sol-gel method with glucose. Journal of Physics and Chemistry of Solids, 2018, 113, 26-30.	4.0	13

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37	The effect of different chelating agent on the lattice stabilization, structural and luminescent properties of Gd3Al5O12:Eu3+ phosphors. Optical Materials, 2019, 98, 109449.	3.6	12
38	Luminescence varied by selective excitation in Eu3+,Tb3+-doped LiSrPO4 phosphors for W-LEDs applications. Optical Materials, 2019, 96, 109369.	3.6	12
39	Non-stoichiometric Ce-doped LiAl5O8 phosphors: Synthesis, structural and optical properties. Ceramics International, 2019, 45, 18994-19001.	4.8	12
40	Optical properties of Pr and Eu-doped SrAl12O19: A theoretical study. Optical Materials, 2015, 48, 105-109.	3.6	11
41	Doping disorder and the reductionâ€“doping process in LiSrPO₄. Physical Chemistry Chemical Physics, 2017, 19, 27731-27738.	2.8	11
42	Dosimetric and optical properties of CaSO4:Tm and CaSO4:Tm,Ag crystals produced by a slow evaporation route. Journal of Luminescence, 2019, 210, 58-65.	3.1	11
43	Effect of the amounts of Li+ additive on the luminescence properties of LiBaPO4:Eu phosphor. Optical Materials, 2019, 89, 329-333.	3.6	11
44	The effects of cooling rate on the structure and luminescent properties of undoped and doped SrAl2O4 phosphors. Optical Materials, 2017, 72, 71-77.	3.6	10
45	Atomistic simulation study of the ferroelectric and paraelectric phases of the hexagonal RMnO3 (R =) Tj ETQq1 1 0.784314 rgBT /Overlo	2.9	10
46	Computer modelling of the reduction of rare earth dopants in barium aluminate. Journal of Solid State Chemistry, 2011, 184, 1903-1908.	2.9	9
47	Pressure dependence of dielectric constant, elastic constants, and lattice parameters of the Y3(Ga,Al)5O12 host. Journal of Physics and Chemistry of Solids, 2014, 75, 1113-1118.	4.0	9
48	Li-self doping effect on the LiAl5O8 luminescent properties. Optical Materials, 2019, 94, 160-165.	3.6	9
49	Atomistic simulation and spectroscopic study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e3869" altimg="si178.svg"><mml:msup><mml:mrow><mml:mi mathvariant="normal">Eu</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e3881" altimg="si12.svg"><mml:msub><mml:mrow><mml:mi mathvariant="normal">CaSO</mml:mi></mml:mro	3.1	9
50	Laser sintering and influence of the Dy concentration on BaAl2O4:Eu2+, Dy3+ persistent luminescence ceramics. Journal of the European Ceramic Society, 2021, 41, 3629-3634.	5.7	9
51	Intrinsic Defects in Strontium Aluminates studied via Computer Simulation Technique. Journal of Physics: Conference Series, 2010, 249, 012042.	0.4	8
52	Mechanism of luminescent enhancement in Ba2GdNbO6:Eu3+ perovskite by Li+ co-doping. Journal of Luminescence, 2015, 158, 75-80.	3.1	8
53	Atomistic simulation of trivalent ions doped in the hexagonal LuMnO3 ferroelectric phase. Journal of Alloys and Compounds, 2016, 689, 977-982.	5.5	8
54	Production of Eu-doped BaAl 2 O 4 at low temperature via an alternative sol-gel method using PVA as complexing agent. Journal of Physics and Chemistry of Solids, 2017, 102, 74-78.	4.0	8

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55	X-ray excited optical luminescence and morphological studies of Eu-doped LiAl5O8. Physica B: Condensed Matter, 2019, 559, 62-65.	2.7	8
56	Influence of calcium substitution on defect disorder in barium titanate by atomistic simulation. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 015001.	2.0	7
57	Effect of europium concentration on its distribution in the host sites of lithium tantalite. Journal of Physics and Chemistry of Solids, 2018, 112, 158-162.	4.0	7
58	A computational and spectroscopic study of Dy3+ doped BaAl2O4 phosphors. Optical Materials, 2018, 83, 328-332.	3.6	7
59	Luminescent properties of Li(Ga1-xCrx)5O8 (LGCO) phosphors. Ceramics International, 2020, 46, 15779-15785.	4.8	7
60	Atomistic simulation and XAS investigation of Mn induced defects in Bi12TiO20. Journal of Solid State Chemistry, 2016, 238, 210-216.	2.9	6
61	Investigation of dopant incorporation at SrSnO3 compound. Journal of Solid State Chemistry, 2019, 279, 120928.	2.9	6
62	Atomistic simulation and spectroscopy study of the Eu-doped NaCdPO4 compound. Optical Materials, 2021, 113, 110821.	3.6	6
63	Influence of Ca2+ co-doping on the luminescence properties of Eu doped Y3Al5O12 phosphors. Journal of Physics and Chemistry of Solids, 2021, 154, 110041.	4.0	6
64	Optical properties of Pr-doped BaY2F8. Journal of Applied Physics, 2014, 116, .	2.5	5
65	Co-doping effect of Ca2+ on luminescent properties of BaAl2O4: Eu3+ phosphors. Journal of Electron Spectroscopy and Related Phenomena, 2018, 225, 62-65.	1.7	5
66	Laser sintering and optical characterization of SrAl2-xBxO4:Eu,Dy ceramics. Optik, 2020, 221, 165338.	2.9	5
67	Effects of Li addition on the luminescent properties of LiSrPO4:Eu3+ excited with X-ray and ultraviolet radiation. Journal of Alloys and Compounds, 2020, 836, 155388.	5.5	5
68	Improving the luminescence properties of YAG:Ce3+ phosphors by co-doping Sr2+ ions. Optik, 2021, 231, 166363.	2.9	4
69	Theoretical and computational investigation of the Eu3+ ion local symmetry in fluorides compounds. Journal of Luminescence, 2021, 238, 118297.	3.1	4
70	Defect and spectroscopy properties of Eu-doped LiMgPO4 phosphors. Optical Materials, 2021, 122, 111756.	3.6	4
71	Unveiling photoluminescent response of Ce-doped CaCu3Ti4O12: An experimental-theoretical approach. Journal of Alloys and Compounds, 2022, 923, 166185.	5.5	4
72	Effect of strontium co-doping on luminescent properties of Eu-doped YAG phosphors. Optik, 2019, 185, 847-851.	2.9	3

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73	Effect of terbium and silver co-doping on the enhancement of photoluminescence in CaSO4 phosphors. Optical Materials, 2021, 111, 110717.	3.6	3
74	Effect of Dopant Concentrations on the Luminescent Properties of LiAl₅O₈:Fe Phosphors. Physica Status Solidi (B): Basic Research, 2021, 258, 2000584.	1.5	3
75	Sustainable preparation of ixora flower-like shaped luminescent powder by recycling crab shell biowaste. Optik, 2021, 235, 166636.	2.9	3
76	Effect of chemical and hydrostatic pressures on the structural and mechanical properties of orthorhombic rare-earth RNiO3. Computational Materials Science, 2021, 197, 110691.	3.0	3
77	Mechanisms and dynamics of energy transfer sensitization in the Eu3+, Cr3+ and Fe3+ ions in the LiAl5O8 phosphors. Optical Materials, 2022, 128, 112420.	3.6	3
78	Structural and photoluminescence properties of Eu3+-doped (Y2.99-xGdx)Al5O12 phosphors under vacuum ultraviolet and ultraviolet excitation. Materials Chemistry and Physics, 2019, 228, 9-14.	4.0	2
79	Computer modelling of Bi12SiO20 and Bi4Si3O12: Intrinsic defects and rare earth ion incorporation. Journal of Solid State Chemistry, 2020, 292, 121608.	2.9	2
80	ParamGULP: An efficient Python code for obtaining interatomic potential parameters for General Utility Lattice Program. Computer Physics Communications, 2021, 265, 107996.	7.5	2
81	Optical spectroscopy study of Eu-doped ions in BaAl2O4 phosphors. Journal of Luminescence, 2021, 236, 118011.	3.1	2
82	Computer modelling of RbCdF3: Structural and mechanical properties under high pressure, defect disorder and spectroscopic study. Journal of Solid State Chemistry, 2022, 312, 123173.	2.9	2
83	Doping effect on the structural properties of Cu1âˆ’x(Ni, Zn, Al and Fe)xO samples (0<x<0.10): An experimental and computational study. Journal of Solid State Chemistry, 2016, 241, 26-29.	2.9	1
84	The Trivalent Rareâ€Earth Dopant in the KBaPO 4 and KSrPO 4 Compounds: An Atomistic Simulation Study. Physica Status Solidi (B): Basic Research, 2021, 258, 2000620.	1.5	1
85	Chromium in lead metasilicate glass: Solubility, valence, and local environment via multiple spectroscopy. Ceramics International, 2022, 48, 173-178.	4.8	1
86	Effects of rare-earth doping and reduction processes in LiCaPO4 compound: A computer simulation study. Journal of Solid State Chemistry, 2022, 306, 122769.	2.9	1
87	Rare Earth Doping and Coâ€Doping in Lithium Strontium Silicate: A Computational Study. Physica Status Solidi (B): Basic Research, 2019, 256, 1900024.	1.5	0