ZÃ©lia S Macedo

List of Publications by Year
in descending order

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46	717	567281	580821
papers	citations	15 h-index	25 g-index

48	48	48	841
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Size influence on temperature sensing of erbium-doped yttrium oxide nanocrystals exploiting thermally coupled and uncoupled levels' pairs. Journal of Alloys and Compounds, 2018, 731, 478-488.	5.5	44
2	Production of alpha-alumina nanoparticles using aquatic humic substances. Powder Technology, 2014, 254, 344-351.	4.2	42
3	Laserâ€Sintered Bismuth Germanate Ceramics as Scintillator Devices. Journal of the American Ceramic Society, 2004, 87, 1076-1081.	3.8	41
4	Mechanism of X-ray excited optical luminescence (XEOL) in europium doped BaAl₂O₄ phosphor. Physical Chemistry Chemical Physics, 2016, 18, 17646-17654.	2.8	37
5	Multi-photon excited coherent random laser emission in ZnO powders. Nanoscale, 2015, 7, 317-323.	5.6	35
6	Color-control of the persistent luminescence of cadmium silicate doped with transition metals. Journal of Solid State Chemistry, 2013, 200, 54-59.	2.9	34
7	Recycling of chromium wastes from the tanning industry to produce ceramic nanopigments. Green Chemistry, 2016, 18, 5342-5356.	9.0	34
8	Laser sintering of Bi4Ti3O12 ferroelectric ceramics. Materials Letters, 2002, 55, 217-220.	2.6	33
9	Production and characterization of pure and Cr3+-doped hydroxyapatite for biomedical applications as fluorescent probes. Journal of Materials Science, 2007, 42, 2236-2243.	3.7	33
10	Scintillating properties of pure and doped BGO ceramics. Journal of Materials Science, 2007, 42, 2231-2235.	3.7	33
11	Radiation detectors based on laser sintered Bi4Ge3O12 ceramics. Nuclear Instruments & Methods in Physics Research B, 2004, 218, 153-157.	1.4	28
12	Multiwavelength Fluorescence Intensity Ratio Nanothermometry: High Sensitivity over a Broad Temperature Range. Journal of Physical Chemistry C, 2018, 122, 20459-20468.	3.1	22
13	Production of plaster mortar with incorporation of granite cutting wastes. Journal of Cleaner Production, 2020, 265, 121808.	9.3	22
14	Temperature-sensitive luminescence of Y2O3:Nd3+ nanocrystals produced by an eco-friendly route. Optical Materials, 2019, 89, 536-542.	3.6	18
15	Effect of pH on the production of dispersed Bi4Ge3O12 nanoparticles by combustion synthesis. Journal of the European Ceramic Society, 2009, 29, 125-130.	5.7	16
16	Synthesis of Bi4Ge3O12 ceramic scintillators by the polymeric precursor method. Journal of Thermal Analysis and Calorimetry, 2010, 100, 537-541.	3.6	16
17	Effects of X-ray irradiation on the Eu3+Âà†'ÂEu2+ conversion in CaAl2O4 phosphors. Optical Materials, 2018, 75, 122-126.	3.6	15
18	Thermoluminescence kinetic parameters of Bi4Ge3O12 single crystals. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 390-395.	1.4	14

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19	Particle Size Control of Y₂O₃:Eu³⁺Prepared via a Coconut Water-Assisted Sol-Gel Method. Journal of Nanomaterials, 2011, 2011, 1-6.	2.7	14
20	Optical properties of Euâ€doped NaYP₂O₇ under UV and Xâ€ray excitation. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 185-188.	0.8	14
21	Thermoluminescence and optically stimulated luminescence properties of the Eu2+-doped KMgF3 produced by a hydrothermal microwave method. Journal of Luminescence, 2019, 206, 302-307.	3.1	14
22	Comparative study of structural and optical properties of ZnO nanostructures prepared by three different aqueous solution methods. Materials Chemistry and Physics, 2013, 142, 325-332.	4.0	13
23	Modelling intrinsic defects and transport mechanisms in the bismuth germanate crystalline system. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 485-489.	0.8	11
24	Luminescence characterization and the energy level scheme for lanthanide doped CaYAl3O7. Journal of Luminescence, 2018, 203, 486-491.	3.1	11
25	An Eco-Friendly Method of BaTiO₃ Nanoparticle Synthesis Using Coconut Water. Journal of Nanomaterials, 2018, 2018, 1-7.	2.7	11
26	A Novel Method For Fabricating Cr-Doped Alpha-Al2O3 Nanoparticles: Green Approach To Nanotechnology. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 674-684.	3.7	10
27	Thermoluminescence and persistent luminescence of Tb3+ activated CaYAl3O7. Optical Materials, 2019, 91, 413-418.	3.6	10
28	Computer modelling of Bi12TiO20: Intrinsic defects, ion migration and rare earth ion incorporation. Optical Materials, 2010, 32, 1375-1376.	3.6	9
29	Al2O3-based pigments synthesized by a new proteic solâ€“gel method. Journal of Thermal Analysis and Calorimetry, 2011, 103, 587-590.	3.6	9
30	Particle size effect on structural and optical properties of Y2O3:Nd3+ nanoparticles prepared by coconut water-assisted sol-gel route. Journal of Luminescence, 2018, 200, 43-49.	3.1	9
31	Synthesis and characterization of luminescent Ln3+ (Ln = Eu, Tb and Dy)-doped LiYF4 microcrystals produced by a facile microwave-assisted hydrothermal method. Journal of Luminescence, 2020, 219, 116843.	3.1	8
32	Ln3+ doping in CaYAl3O7 and luminescence concentration quenching studied via a new computer modelling strategy. Optical Materials, 2019, 92, 212-216.	3.6	7
33	Short Time and Low Temperature Reaction between Metal Oxides through Microwave-Assisted Hydrothermal Method. Advances in Condensed Matter Physics, 2016, 2016, 1-7.	1.1	6
34	Atomistic simulation and XAS investigation of Mn induced defects in Bi12TiO20. Journal of Solid State Chemistry, 2016, 238, 210-216.	2.9	6
35	VUV excited luminescence and thermoluminescence investigation on Er3+- or Pr3+-doped BaY2F8 single crystals. Optical Materials, 2019, 90, 238-243.	3.6	5
36	Synthesis of Yttria Nanopowders Doped with Rare Earth via a Coconut Water-Based Sol-Gel Process. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 247-252.	0.1	4

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37	Tailoring luminescent colour and life persistence of undoped CdSiO3. Journal of Luminescence, 2018, 194, 535-541.	3.1	4
38	Development of efficient scintillator materials based on LiLaP4O12 doped with rare earth ions. Journal of Luminescence, 2018, 203, 385-390.	3.1	4
39	X-ray absorption spectroscopy and tunable color emission study of the Mn-co-doped BaAl2O4: Ce phosphor under synchrotron radiation. Optical Materials, 2019, 91, 401-407.	3.6	4
40	Defects in MgB4O7 (pure and doped with lanthanides): A case study using a computational modelling approach. Physica B: Condensed Matter, 2022, 640, 414049.	2.7	4
41	Computational modelling of intrinsic defects in the orthosilicates Y2SiO5 and Lu2SiO5. Journal of Physics Condensed Matter, 2019, 31, 415902.	1.8	3
42	Influence of the Uniaxial Hot-Pressing Sintering Condition on Bi₄Ge₃O₁₂ Ceramic Scintillators. Journal of Spectroscopy, 2018, 2018, 1-6.	1.3	2
43	ProduÃ§Ã£o de agregado sintÃ©tico de argila com reaproveitamento de resÃduo de vidro. Revista Materia, 2019, 24, .	0.2	2
44	Influence of Eu valence on the optical activity of BaTiO₃ decorated with CaF₂ synthesized by microwave-assisted hydrothermal method. Dalton Transactions, 2020, 49, 8540-8548.	3.3	2
45	Photoluminescent properties of BaF2 scintillator-polystyrene composite films under vacuum ultraviolet radiation. Materials Research Bulletin, 2021, 135, 111159.	5.2	2
46	Intrinsic defects and non-stoichiometry in undoped cadmium silicate hosts. Journal of Alloys and Compounds, 2021, 857, 157580.	5.5	2