

Fabiana Villela Motta

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71
papers

990
citations

21
h-index

26
g-index

76
ext. papers

1,193
ext. citations

4.2
avg, IF

4.44
L-index

#	Paper	IF	Citations
71	BaMoO ₄ :Tb ³⁺ phosphor properties: Synthesis, characterization and photophysical studies. <i>Solid State Ionics</i> , 2011 , 202, 54-59	3.3	46
70	TiO ₂ /PDMS nanocomposites for use on self-cleaning surfaces. <i>Surface and Coatings Technology</i> , 2014 , 239, 16-19	4.4	42
69	White photoluminescence emission from ZrO ₂ co-doped with Eu ³⁺ , Tb ³⁺ and Tm ³⁺ . <i>Journal of Alloys and Compounds</i> , 2016 , 674, 245-251	5.7	39
68	Photoluminescent properties of ZrO ₂ : Tm ³⁺ , Tb ³⁺ , Eu ³⁺ powders: A combined experimental and theoretical study. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 3094-3103	5.7	36
67	Wetting behaviour of SiC ceramics. <i>Materials Letters</i> , 2004 , 58, 2810-2814	3.3	35
66	Study of the photocatalysis and increase of antimicrobial properties of Fe ³⁺ and Pb ²⁺ co-doped ZnO nanoparticles obtained by microwave-assisted hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , 2019 , 93, 123-133	4.3	34
65	Preparation and photoluminescence characteristics of In(OH) ₃ :xTb ³⁺ obtained by Microwave-Assisted Hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2013 , 553, 338-342	5.7	31
64	Experimental and theoretical study to explain the morphology of CaMoO ₄ crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 114, 141-152	3.9	31
63	Citrate-hydrothermal synthesis, structure and electrochemical performance of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-λ} cathodes for IT-SOFCs. <i>Ceramics International</i> , 2013 , 39, 8385-8392	5.1	27
62	Structure, morphology and photoluminescence emissions of ZnMoO ₄ : RE ³⁺ =Tb ³⁺ - Tm ³⁺ - X Eu ³⁺ (X= 1, 1.5, 2, 2.5 and 3 mol%) particles obtained by the sonochemical method. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 55-70	5.7	26
61	Optimizing the synthesis of cobalt aluminate pigment using fractional factorial design. <i>Ceramics International</i> , 2015 , 41, 699-706	5.1	25
60	Indium hydroxide nanocubes and microcubes obtained by microwave-assisted hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2010 , 497, L25-L28	5.7	25
59	Photoluminescent properties of the Ba _{1-x} Zn _x MoO ₄ heterostructure obtained by ultrasonic spray pyrolysis. <i>Ceramics International</i> , 2018 , 44, 3775-3786	5.1	24
58	Effect of process parameters on photophysical properties and barium molybdate phosphors characteristics. <i>Ceramics International</i> , 2014 , 40, 6719-6729	5.1	24
57	Europium(III) concentration effect on the spectroscopic and photoluminescent properties of BaMoO ₄ :Eu. <i>Journal of Fluorescence</i> , 2009 , 19, 495-500	2.4	24
56	Connecting theory with experiment to understand the photocatalytic activity of CuO/ZnO heterostructure. <i>Ceramics International</i> , 2020 , 46, 9446-9454	5.1	24
55	In ₂ O ₃ microcrystals obtained from rapid calcination in domestic microwave oven. <i>Materials Research Bulletin</i> , 2010 , 45, 1703-1706	5.1	23

54	Photoluminescence properties of (Eu, Tb, Tm) co-doped PbMoO ₄ obtained by sonochemical synthesis. <i>Journal of Alloys and Compounds</i> , 2017 , 700, 130-137	5.7	22
53	Influence of pH on the morphology and photocatalytic activity of CuO obtained by the sonochemical method using different surfactants. <i>Ceramics International</i> , 2019 , 45, 651-658	5.1	22
52	Room temperature photoluminescence of BCT prepared by Complex Polymerization Method. <i>Current Applied Physics</i> , 2010 , 10, 16-20	2.6	21
51	Tribological behavior of zirconia-reinforced glass-ceramic composites in artificial saliva. <i>Tribology International</i> , 2016 , 103, 379-387	4.9	21
50	Effect of polyvinyl alcohol on the shape, photoluminescence and photocatalytic properties of PbMoO ₄ microcrystals. <i>Materials Science in Semiconductor Processing</i> , 2014 , 26, 425-430	4.3	20
49	Preparation and characterizations of Ba _{0.8} Ca _{0.2} TiO ₃ by complex polymerization method (CPM). <i>Journal of Alloys and Compounds</i> , 2008 , 465, 452-457	5.7	18
48	Shear bond strength of veneering porcelain to zirconia: Effect of surface treatment by CNC-milling and composite layer deposition on zirconia. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 60, 547-556	4.1	18
47	Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia. <i>Tribology International</i> , 2016 , 102, 361-370	4.9	17
46	Disorder-dependent photoluminescence in Ba _{0.8} Ca _{0.2} TiO ₃ at room temperature. <i>Journal of Luminescence</i> , 2009 , 129, 686-690	3.8	17
45	Characterization and photocatalytic application of Ce ⁴⁺ , Co ²⁺ , Mn ²⁺ and Ni ²⁺ doped Fe ₃ O ₄ magnetic nanoparticles obtained by the co-precipitation method. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122489	4.4	16
44	Synthesis and characterization of Ag ⁺ and Zn ²⁺ co-doped CaWO ₄ nanoparticles by a fast and facile sonochemical method. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153617	5.7	16
43	On the mechanical properties and microstructure of zirconia-reinforced feldspar-based porcelain. <i>Ceramics International</i> , 2016 , 42, 14214-14221	5.1	15
42	Influence of microwave-assisted hydrothermal treatment time on the crystallinity, morphology and optical properties of ZnWO ₄ nanoparticles: Photocatalytic activity. <i>Ceramics International</i> , 2020 , 46, 1766-1774 ¹⁴	5.1	14
41	Synthesis and characterization of Y (In, Mn) O ₃ blue pigment using the complex polymerization method (CPM). <i>Ceramics International</i> , 2018 , 44, 11932-11939	5.1	13
40	Effect of temperature on the morphology and optical properties of Ag ₂ WO ₄ obtained by the co-precipitation method: Photocatalytic activity. <i>Ceramics International</i> , 2019 , 45, 15205-15212	5.1	12
39	Influence of solution pH on forming silver molybdates obtained by sonochemical method and its application for methylene blue degradation. <i>Ceramics International</i> , 2019 , 45, 11448-11456	5.1	12
38	Effects of microwave-assisted hydrothermal treatment and of use of capping reagent on the photophysical properties of SrMoO ₄ phosphors. <i>Journal of Luminescence</i> , 2017 , 192, 818-826	3.8	11
37	Enhancement of the photocatalytic activity and white emission of CaIn ₂ O ₄ nanocrystals. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 316-323	5.7	11

36	White light emission from single-phase Y_2MoO_6 : $x\text{Pr}^{3+}$ ($x \neq 1, 2, 3$ and 4 mol%) phosphor. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 420-429	5.7	11
35	Fast and simultaneous doping of $\text{SrCaInO}:(x\text{Eu}, y\text{Tm}, z\text{Tb})$ superstructure by ultrasonic spray pyrolysis. <i>Ultrasonics Sonochemistry</i> , 2019 , 56, 14-24	8.9	10
34	Influence Ca-doped SrIn_2O_4 powders on photoluminescence property prepared one step by ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 1078-1087	5.7	10
33	First principle investigation of the exposed surfaces and morphology of ZnMoO_4 . <i>Journal of Applied Physics</i> , 2019 , 126, 235301	2.5	10
32	$\text{Tb}^{3+}/\text{Pr}^{3+}$ co-doped ZnMoO_4 phosphor with tunable photoluminescence and energy transfer processes. <i>Optical Materials</i> , 2019 , 96, 109332	3.3	9
31	Influence of $\text{Zn}_{1-x}\text{Ca}_x\text{WO}_4$ heterostructures synthesized by spray pyrolysis on photoluminescence property. <i>Ceramics International</i> , 2019 , 45, 23256-23264	5.1	9
30	Development of ZnO/PDMS nanocomposite with photocatalytic/hydrophobic multifunction. <i>Chemical Physics Letters</i> , 2020 , 740, 137051	2.5	9
29	Spray pyrolysis synthesis and characterization of $\text{Mg}_{1-x}\text{Sr}_x\text{MoO}_4$ heterostructure with white light emission. <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152235	5.7	9
28	Microwave-assisted hydrothermal synthesis of $\text{Ag}_2\text{Mo}_{1-x}\text{W}_x\text{O}_4$ ($x \neq 0, 0.25, 0.50, 0.75$ and 1 mol%) heterostructures for enhanced photocatalytic degradation of organic dyes. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156077	5.7	8
27	Antimicrobial activity from polymeric composites-based polydimethylsiloxane/ TiO_2/GO : evaluation of filler synthesis and surface morphology. <i>Polymer Bulletin</i> , 2017 , 74, 2379-2390	2.4	8
26	On the use of guanidine hydrochloride soft template in the synthesis of $\text{Na}_2/3\text{Ni}_1/3\text{Mn}_2/3\text{O}_2$ cathodes for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 1035-1045	5.7	7
25	The use of clinoptilolite as carrier of nitrogenated fertilizer with controlled release. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4171-4177	6.8	7
24	Computational procedure to an accurate DFT simulation to solid state systems. <i>Computational Materials Science</i> , 2019 , 170, 109176	3.2	7
23	Temperature dependence on phase evolution in the BaTiO_3 polytypes studied using ab initio calculations. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26054	2.1	7
22	Atomistic Perspective on the Intrinsic White-Light Photoluminescence of Rare-Earth Free MgMoO_4 Nanoparticles. <i>Crystal Growth and Design</i> , 2020 , 20, 6592-6603	3.5	7
21	Preparation and photocatalytic properties of hexagonal-shaped $\text{ZnO}:\text{Sm}^{3+}$ by microwave-assisted hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7943-7950	2.1	6
20	Stabilization of the Ag_2WO_4 metastable pure phase by coprecipitation method using polyvinylpyrrolidone as surfactant: Photocatalytic property. <i>Ceramics International</i> , 2020 , 46, 14864-14871	5.1	6
19	Fast photocatalytic degradation of an organic dye and photoluminescent properties of Zn doped $\text{In}(\text{OH})_3$ obtained by the microwave-assisted hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 1036-1041	4.3	5

18	Effect of different starting materials on the synthesis of Ba _{0.8} Ca _{0.2} TiO ₃ . <i>Journal of Advanced Ceramics</i> , 2015 , 4, 65-70	10.7	5
17	Enhanced photocatalytic activity of CaMoO ₄ /g-C ₃ N ₄ composites obtained via sonochemistry synthesis. <i>Materials Research Bulletin</i> , 2021 , 146, 111621	5.1	4
16	Photocatalytic properties of the CeO ₂ -xTiO ₂ and TiO ₂ -xCeO ₂ (x=10, 30, and 50 mol%) heterostructures obtained by a MAH. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 2376-2385 ³		
15	Obtaining Ceramic Filter from Rice Husk and Kaolinitic Clay. <i>Materials Science Forum</i> , 2014 , 802, 232-238 ^{0.4}		3
14	Biofilms of cellulose and hydroxyapatite composites: Alternative synthesis process. <i>Journal of Bioactive and Compatible Polymers</i> , 2020 , 35, 469-478	2	3
13	Cerium molybdate nanocrystals: Microstructural, optical and gas-sensing properties. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 157562	5.7	3
12	Photoluminescent and antimicrobial properties of silver-doped indium hydroxide synthesized by one-step microwave-assisted hydrothermal method. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 471-480	2	2
11	Presence of excited electronic states on terbium incorporation in CaMoO ₄ : Insights from experimental synthesis and first-principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 149, 109790	3.9	2
10	Red-emitting CaWO ₄ :Eu ³⁺ ,Tm ³⁺ phosphor for solid-state lighting: Luminescent properties and morphology evolution. <i>Journal of Rare Earths</i> , 2021 , 40, 226-226	3.7	2
9	Effect of sintering parameters using the central composite design method, electronic structure and physical properties of yttria-partially stabilized ZrO ₂ commercial ceramics. <i>Materials Science-Poland</i> , 2017 , 35, 225-238	0.6	1
8	Influence of Calcium Concentration on the Structural and Electrical Properties of PZT Ceramic. <i>Materials Science Forum</i> , 2014 , 805, 298-304	0.4	1
7	Heterostructures obtained by ultrasonic methods for photocatalytic application: A review. <i>Materials Science in Semiconductor Processing</i> , 2021 , 106311	4.3	1
6	Synthesis, characterization and in vitro antimicrobial prospecting of silver-doped ceria. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 849-854	4.1	1
5	Effect of temperature on ultrasonic spray pyrolysis method in zinc tungstate: The relationship between structural and optical properties. <i>Materials Chemistry and Physics</i> , 2021 , 258, 123991	4.4	1
4	Antimicrobial and electrical properties of ce- and ni-doped zns nanoparticles obtained by a sonochemical method. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 598-604	2	1
3	Co ₂ FeAl Heusler alloy onto amorphous TiO ₂ layer: Exploring the quasi-static and dynamic magnetic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 154, 110088	3.9	0
2	Integrated experimental and theoretical study on the phase transition and photoluminescent properties of ZrO ₂ :xTb ³⁺ (x=1, 2, 4 and 8 mol %). <i>Materials Research Bulletin</i> , 2022 , 145, 111532	5.1	0
1	Citrate-Hydrothermal Synthesis and Electrochemical Characterization of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ for Intermediate Temperature SOFC. <i>Materials Science Forum</i> , 2014 , 775-776, 673-677	0.4	

