

# Fabiana Villela Motta

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2022</b> , 145, 111532	5.1	0
70	Heterostructures obtained by ultrasonic methods for photocatalytic application: A review. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 106311	4.3	1
69	Enhanced photocatalytic activity of $CaMoO_4/g-C_3N_4$ composites obtained via sonochemistry synthesis. <i>Materials Research Bulletin</i> , <b>2021</b> , 146, 111621	5.1	4
68	$Co_2FeAl$ Heusler alloy onto amorphous $TiO_2$ layer: Exploring the quasi-static and dynamic magnetic properties. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 154, 110088	3.9	0
67	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> , <b>2021</b> , 149, 109790	3.9	2
66	Cerium molybdate nanocrystals: Microstructural, optical and gas-sensing properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 157562	5.7	3
65	Effect of temperature on ultrasonic spray pyrolysis method in zinc tungstate: The relationship between structural and optical properties. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 258, 123991	4.4	1
64	Antimicrobial and electrical properties of ce- and ni-doped zns nanoparticles obtained by a sonochemical method. <i>International Journal of Applied Ceramic Technology</i> , <b>2021</b> , 18, 598-604	2	1
63	Red-emitting $CaWO_4:Eu^{3+}, Tm^{3+}$ phosphor for solid-state lighting: Luminescent properties and morphology evolution. <i>Journal of Rare Earths</i> , <b>2021</b> , 40, 226-226	3.7	2
62	Microwave-assisted hydrothermal synthesis of $Ag_2Mo_1-xW_xO_4$ ( $x=0, 0.25, 0.50, 0.75$ and $1$ mol%) heterostructures for enhanced photocatalytic degradation of organic dyes. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 844, 156077	5.7	8
61	Photocatalytic properties of the $CeO_2-xTiO_2$ and $TiO_2-xCeO_2$ ( $x=0, 30$ , and $50$ mol%) heterostructures obtained by a MAH. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 2376-2385 <sup>3</sup>		
60	Stabilization of the $\beta-Ag_2WO_4$ metastable pure phase by coprecipitation method using polyvinylpyrrolidone as surfactant: Photocatalytic property. <i>Ceramics International</i> , <b>2020</b> , 46, 14864-14871 <sup>51</sup>	5.1	6
59	Temperature dependence on phase evolution in the $BaTiO_3$ polytypes studied using ab initio calculations. <i>International Journal of Quantum Chemistry</i> , <b>2020</b> , 120, e26054	2.1	7
58	Connecting theory with experiment to understand the photocatalytic activity of $CuO/ZnO$ heterostructure. <i>Ceramics International</i> , <b>2020</b> , 46, 9446-9454	5.1	24
57	Development of $ZnO/PDMS$ nanocomposite with photocatalytic/hydrophobic multifunction. <i>Chemical Physics Letters</i> , <b>2020</b> , 740, 137051	2.5	9
56	Characterization and photocatalytic application of $Ce^{4+}$ , $Co^{2+}$ , $Mn^{2+}$ and $Ni^{2+}$ doped $Fe_3O_4$ magnetic nanoparticles obtained by the co-precipitation method. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 242, 122489	4.4	16
55	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> , <b>2020</b> , 823, 153617	5.7	16

54	Biofilms of cellulose and hydroxyapatite composites: Alternative synthesis process. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2020</b> , 35, 469-478	2	3
53	Atomistic Perspective on the Intrinsic White-Light Photoluminescence of Rare-Earth Free MgMoO <sub>4</sub> Nanoparticles. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6592-6603	3.5	7
52	Synthesis, characterization and in vitro antimicrobial prospecting of silver-doped ceria. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 849-854	4.1	1
51	Influence of microwave-assisted hydrothermal treatment time on the crystallinity, morphology and optical properties of ZnWO <sub>4</sub> nanoparticles: Photocatalytic activity. <i>Ceramics International</i> , <b>2020</b> , 46, 1768-1774 <sup>14</sup>	5.1	14
50	Spray pyrolysis synthesis and characterization of Mg <sub>1-x</sub> Sr <sub>x</sub> MoO <sub>4</sub> heterostructure with white light emission. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 813, 152235	5.7	9
49	Tb <sup>3+</sup> /Pr <sup>3+</sup> co-doped ZnMoO <sub>4</sub> phosphor with tunable photoluminescence and energy transfer processes. <i>Optical Materials</i> , <b>2019</b> , 96, 109332	3.3	9
48	Effect of temperature on the morphology and optical properties of Ag <sub>2</sub> WO <sub>4</sub> obtained by the co-precipitation method: Photocatalytic activity. <i>Ceramics International</i> , <b>2019</b> , 45, 15205-15212	5.1	12
47	On the use of guanidine hydrochloride soft template in the synthesis of Na <sub>2</sub> /3Ni <sub>1</sub> /3Mn <sub>2</sub> /3O <sub>2</sub> cathodes for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 789, 1035-1045	5.7	7
46	Influence of solution pH on forming silver molybdates obtained by sonochemical method and its application for methylene blue degradation. <i>Ceramics International</i> , <b>2019</b> , 45, 11448-11456	5.1	12
45	Fast and simultaneous doping of SrCaInO:(xEu, yTm, zTb) superstructure by ultrasonic spray pyrolysis. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 56, 14-24	8.9	10
44	Computational procedure to an accurate DFT simulation to solid state systems. <i>Computational Materials Science</i> , <b>2019</b> , 170, 109176	3.2	7
43	Influence of Zn <sub>1-x</sub> Ca <sub>x</sub> WO <sub>4</sub> heterostructures synthesized by spray pyrolysis on photoluminescence property. <i>Ceramics International</i> , <b>2019</b> , 45, 23256-23264	5.1	9
42	First principle investigation of the exposed surfaces and morphology of ZnMoO <sub>4</sub> . <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 235301	2.5	10
41	Study of the photocatalysis and increase of antimicrobial properties of Fe <sup>3+</sup> and Pb <sup>2+</sup> co-doped ZnO nanoparticles obtained by microwave-assisted hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 93, 123-133	4.3	34
40	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> , <b>2019</b> , 16, 471-480	2	2
39	Influence of pH on the morphology and photocatalytic activity of CuO obtained by the sonochemical method using different surfactants. <i>Ceramics International</i> , <b>2019</b> , 45, 651-658	5.1	22
38	Influence Ca-doped SrIn <sub>2</sub> O <sub>4</sub> powders on photoluminescence property prepared one step by ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 747, 1078-1087	5.7	10
37	Structure, morphology and photoluminescence emissions of ZnMoO <sub>4</sub> : RE <sup>3+</sup> =Tb <sup>3+</sup> - Tm <sup>3+</sup> - X Eu <sup>3+</sup> (x= 1, 1.5, 2, 2.5 and 3 mol%) particles obtained by the sonochemical method. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 750, 55-70	5.7	26

36	Synthesis and characterization of Y (In, Mn) O <sub>3</sub> blue pigment using the complex polymerization method (CPM). <i>Ceramics International</i> , <b>2018</b> , 44, 11932-11939	5.1	13
35	White light emission from single-phase Y <sub>2</sub> MoO <sub>6</sub> : xPr <sup>3+</sup> (x = 1, 2, 3 and 4 mol%) phosphor. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 420-429	5.7	11
34	The use of clinoptilolite as carrier of nitrogened fertilizer with controlled release. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 4171-4177	6.8	7
33	Photoluminescent properties of the Ba <sub>1-x</sub> Zn <sub>x</sub> MoO <sub>4</sub> heterostructure obtained by ultrasonic spray pyrolysis. <i>Ceramics International</i> , <b>2018</b> , 44, 3775-3786	5.1	24
32	Experimental and theoretical study to explain the morphology of CaMoO <sub>4</sub> crystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 114, 141-152	3.9	31
31	Photoluminescence properties of (Eu, Tb, Tm) co-doped PbMoO <sub>4</sub> obtained by sonochemical synthesis. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 700, 130-137	5.7	22
30	Preparation and photocatalytic properties of hexagonal-shaped ZnO:Sm <sup>3+</sup> by microwave-assisted hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 7943-7950	2.1	6
29	Effects of microwave-assisted hydrothermal treatment and of use of capping reagent on the photophysical properties of SrMoO <sub>4</sub> phosphors. <i>Journal of Luminescence</i> , <b>2017</b> , 192, 818-826	3.8	11
28	Effect of sintering parameters using the central composite design method, electronic structure and physical properties of yttria-partially stabilized ZrO <sub>2</sub> commercial ceramics. <i>Materials Science-Poland</i> , <b>2017</b> , 35, 225-238	0.6	1
27	Antimicrobial activity from polymeric composites-based polydimethylsiloxane/TiO <sub>2</sub> /GO: evaluation of filler synthesis and surface morphology. <i>Polymer Bulletin</i> , <b>2017</b> , 74, 2379-2390	2.4	8
26	Photoluminescent properties of ZrO <sub>2</sub> : Tm <sup>3+</sup> , Tb <sup>3+</sup> , Eu <sup>3+</sup> powders: A combined experimental and theoretical study. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 3094-3103	5.7	36
25	On the mechanical properties and microstructure of zirconia-reinforced feldspar-based porcelain. <i>Ceramics International</i> , <b>2016</b> , 42, 14214-14221	5.1	15
24	Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia. <i>Tribology International</i> , <b>2016</b> , 102, 361-370	4.9	17
23	White photoluminescence emission from ZrO <sub>2</sub> co-doped with Eu <sup>3+</sup> , Tb <sup>3+</sup> and Tm <sup>3+</sup> . <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 674, 245-251	5.7	39
22	Enhancement of the photocatalytic activity and white emission of CaIn <sub>2</sub> O <sub>4</sub> nanocrystals. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 658, 316-323	5.7	11
21	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> , <b>2016</b> , 60, 547-556	4.1	18
20	Tribological behavior of zirconia-reinforced glass-ceramic composites in artificial saliva. <i>Tribology International</i> , <b>2016</b> , 103, 379-387	4.9	21
19	Optimizing the synthesis of cobalt aluminate pigment using fractional factorial design. <i>Ceramics International</i> , <b>2015</b> , 41, 699-706	5.1	25

18	Effect of different starting materials on the synthesis of Ba <sub>0.8</sub> Ca <sub>0.2</sub> TiO <sub>3</sub> . <i>Journal of Advanced Ceramics</i> , <b>2015</b> , 4, 65-70	10.7	5
17	TiO <sub>2</sub> /PDMS nanocomposites for use on self-cleaning surfaces. <i>Surface and Coatings Technology</i> , <b>2014</b> , 239, 16-19	4.4	42
16	Fast photocatalytic degradation of an organic dye and photoluminescent properties of Zn doped In(OH) <sub>3</sub> obtained by the microwave-assisted hydrothermal method. <i>Materials Science in Semiconductor Processing</i> , <b>2014</b> , 27, 1036-1041	4.3	5
15	Effect of polyvinyl alcohol on the shape, photoluminescence and photocatalytic properties of PbMoO <sub>4</sub> microcrystals. <i>Materials Science in Semiconductor Processing</i> , <b>2014</b> , 26, 425-430	4.3	20
14	Influence of Calcium Concentration on the Structural and Electrical Properties of PZT Ceramic. <i>Materials Science Forum</i> , <b>2014</b> , 805, 298-304	0.4	1
13	Citrate-Hydrothermal Synthesis and Electrochemical Characterization of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> for Intermediate Temperature SOFC. <i>Materials Science Forum</i> , <b>2014</b> , 775-776, 673-677	0.4	
12	Obtaining Ceramic Filter from Rice Husk and Kaolinitic Clay. <i>Materials Science Forum</i> , <b>2014</b> , 802, 232-238	0.4	3
11	Effect of process parameters on photophysical properties and barium molybdate phosphors characteristics. <i>Ceramics International</i> , <b>2014</b> , 40, 6719-6729	5.1	24
10	Citrate-Hydrothermal synthesis, structure and electrochemical performance of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> cathodes for IT-SOFCs. <i>Ceramics International</i> , <b>2013</b> , 39, 8385-8392	5.1	27
9	Preparation and photoluminescence characteristics of In(OH) <sub>3</sub> :xTb <sup>3+</sup> obtained by Microwave-Assisted Hydrothermal method. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 553, 338-342	5.7	31
8	BaMoO <sub>4</sub> :Tb <sup>3+</sup> phosphor properties: Synthesis, characterization and photophysical studies. <i>Solid State Ionics</i> , <b>2011</b> , 202, 54-59	3.3	46
7	Indium hydroxide nanocubes and microcubes obtained by microwave-assisted hydrothermal method. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 497, L25-L28	5.7	25
6	Room temperature photoluminescence of BCT prepared by Complex Polymerization Method. <i>Current Applied Physics</i> , <b>2010</b> , 10, 16-20	2.6	21
5	In <sub>2</sub> O <sub>3</sub> microcrystals obtained from rapid calcination in domestic microwave oven. <i>Materials Research Bulletin</i> , <b>2010</b> , 45, 1703-1706	5.1	23
4	Europium(III) concentration effect on the spectroscopic and photoluminescent properties of BaMoO <sub>4</sub> :Eu. <i>Journal of Fluorescence</i> , <b>2009</b> , 19, 495-500	2.4	24
3	Disorder-dependent photoluminescence in Ba <sub>0.8</sub> Ca <sub>0.2</sub> TiO <sub>3</sub> at room temperature. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 686-690	3.8	17
2	Preparation and characterizations of Ba <sub>0.8</sub> Ca <sub>0.2</sub> TiO <sub>3</sub> by complex polymerization method (CPM). <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 465, 452-457	5.7	18
1	Wetting behaviour of SiC ceramics. <i>Materials Letters</i> , <b>2004</b> , 58, 2810-2814	3.3	35

