

# Fabiana Villela Motta

## List of Publications by Year in descending order

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74  
papers

1,415  
citations

257101

24  
h-index

414034

32  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1388  
citing authors

#	ARTICLE	IF	CITATIONS
1	White photoluminescence emission from ZrO <sub>2</sub> co-doped with Eu <sup>3+</sup> , Tb <sup>3+</sup> and Tm <sup>3+</sup> . Journal of Alloys and Compounds, 2016, 674, 245-251.	2.8	58
2	TiO <sub>2</sub> /PDMS nanocomposites for use on self-cleaning surfaces. Surface and Coatings Technology, 2014, 239, 16-19.	2.2	53
3	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. Materials Science in Semiconductor Processing, 2019, 93, 123-133.	1.9	53
4	BaMoO <sub>4</sub> :Tb <sup>3+</sup> phosphor properties: Synthesis, characterization and photophysical studies. Solid State Ionics, 2011, 202, 54-59.	1.3	51
5	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. Journal of Alloys and Compounds, 2017, 695, 3094-3103.	2.8	50
6	Connecting theory with experiment to understand the photocatalytic activity of CuO/ZnO heterostructure. Ceramics International, 2020, 46, 9446-9454.	2.3	50
7	Wetting behaviour of SiC ceramics. Materials Letters, 2004, 58, 2810-2814.	1.3	42
8	Experimental and theoretical study to explain the morphology of CaMoO <sub>4</sub> crystals. Journal of Physics and Chemistry of Solids, 2018, 114, 141-152.	1.9	42
9	Optimizing the synthesis of cobalt aluminate pigment using fractional factorial design. Ceramics International, 2015, 41, 699-706.	2.3	34
10	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, 2, 3, 4, 5, 6, 7, 8, 9, 10). Journal of Alloys and Compounds, 2018, 750, 55-70.	2.8	34
11	Preparation and photoluminescence characteristics of In(OH) <sub>3</sub> :xTb <sup>3+</sup> obtained by Microwave-Assisted Hydrothermal method. Journal of Alloys and Compounds, 2013, 553, 338-342.	2.8	32
12	Effect of process parameters on photophysical properties and barium molybdate phosphors characteristics. Ceramics International, 2014, 40, 6719-6729.	2.3	31
13	Tribological behavior of zirconia-reinforced glass-ceramic composites in artificial saliva. Tribology International, 2016, 103, 379-387.	3.0	30
14	Europium(III) Concentration Effect on the Spectroscopic and Photoluminescent Properties of BaMoO <sub>4</sub> :Eu. Journal of Fluorescence, 2009, 19, 495-500.	1.3	29
15	Indium hydroxide nanocubes and microcubes obtained by microwave-assisted hydrothermal method. Journal of Alloys and Compounds, 2010, 497, L25-L28.	2.8	28
16	Photoluminescent properties of the Ba <sub>1-x</sub> Zn <sub>x</sub> MoO <sub>4</sub> heterostructure obtained by ultrasonic spray pyrolysis. Ceramics International, 2018, 44, 3775-3786.	2.3	28
17	Synthesis and characterization of Ag <sup>+</sup> and Zn <sup>2+</sup> co-doped CaWO <sub>4</sub> nanoparticles by a fast and facile sonochemical method. Journal of Alloys and Compounds, 2020, 823, 153617.	2.8	28
18	Room temperature photoluminescence of BCT prepared by Complex Polymerization Method. Current Applied Physics, 2010, 10, 16-20.	1.1	27

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19	Citrate-assisted 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-<math>\delta</math></sub> cathodes for IT-SOFCs. <i>Ceramics International</i> , 2013, 39, 8385-8392.	2.3	27
20	Photoluminescence properties of (Eu, Tb, Tm) co-doped PbMoO <sub>4</sub> obtained by sonochemical synthesis. <i>Journal of Alloys and Compounds</i> , 2017, 700, 130-137.	2.8	27
21	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.	2.3	27
22	Characterization and photocatalytic application of Ce <sup>4+</sup> , Co <sup>2+</sup> , Mn <sup>2+</sup> and Ni <sup>2+</sup> doped Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles obtained by the co-precipitation method. <i>Materials Chemistry and Physics</i> , 2020, 242, 122489.	2.0	27
23	In <sub>2</sub> O <sub>3</sub> microcrystals obtained from rapid calcination in domestic microwave oven. <i>Materials Research Bulletin</i> , 2010, 45, 1703-1706.	2.7	25
24	On the mechanical properties and microstructure of zirconia-reinforced feldspar-based porcelain. <i>Ceramics International</i> , 2016, 42, 14214-14221.	2.3	24
25	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> , 2019, 45, 15205-15212.	2.3	24
26	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> , 2020, 46, 1766-1774.	2.3	23
27	Temperature dependence on phase evolution in the BaTiO <sub>3</sub> polytypes studied using ab initio calculations. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26054.	1.0	23
28	Effect of polyvinyl alcohol on the shape, photoluminescence and photocatalytic properties of PbMoO <sub>4</sub> microcrystals. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 425-430.	1.9	21
29	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> , 2008, 465, 452-457.	2.8	20
30	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.	1.5	20
31	Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia. <i>Tribology International</i> , 2016, 102, 361-370.	3.0	20
32	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> , 2018, 769, 420-429.	2.8	20
33	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> , 2019, 96, 109332.	1.7	20
34	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.	2.3	20
35	Synthesis and characterization of Y (In, Mn) O <sub>3</sub> blue pigment using the complex polymerization method (CPM). <i>Ceramics International</i> , 2018, 44, 11932-11939.	2.3	19
36	Enhanced photocatalytic activity of CaMoO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composites obtained via sonochemistry synthesis. <i>Materials Research Bulletin</i> , 2022, 146, 111621.	2.7	19

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37	Spray pyrolysis synthesis and characterization of $Mg_{1-x}Sr_xMoO_4$ heterostructure with white light emission. <i>Journal of Alloys and Compounds</i> , 2020, 813, 152235.	2.8	18
38	Disorder-dependent photoluminescence in $Ba_{0.8}Ca_{0.2}TiO_3$ at room temperature. <i>Journal of Luminescence</i> , 2009, 129, 686-690.	1.5	17
39	Computational procedure to an accurate DFT simulation to solid state systems. <i>Computational Materials Science</i> , 2019, 170, 109176.	1.4	17
40	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.	1.5	16
41	Development of $ZnO/$ PDMS nanocomposite with photocatalytic/hydrophobic multifunction. <i>Chemical Physics Letters</i> , 2020, 740, 137051.	1.2	15
42	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.	2.8	14
43	The use of clinoptilolite as carrier of nitrogenated fertilizer with controlled release. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4171-4177.	3.3	14
44	First principle investigation of the exposed surfaces and morphology of $\hat{I}^2$ - $ZnMoO_4$ . <i>Journal of Applied Physics</i> , 2019, 126, 235301.	1.1	14
45	Stabilization of the $\hat{I}^3$ - $Ag_2WO_4$ metastable pure phase by coprecipitation method using polyvinylpyrrolidone as surfactant: Photocatalytic property. <i>Ceramics International</i> , 2020, 46, 14864-14871.	2.3	14
46	Influence of $Zn_{1-x}Ca_xWO_4$ heterostructures synthesized by spray pyrolysis on photoluminescence property. <i>Ceramics International</i> , 2019, 45, 23256-23264.	2.3	13
47	On the use of guanidine hydrochloride soft template in the synthesis of $Na_2/3Ni_{1/3}Mn_{2/3}O_2$ cathodes for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 789, 1035-1045.	2.8	13
48	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.	1.4	13
49	Enhancement of the photocatalytic activity and white emission of $CaIn_2O_4$ nanocrystals. <i>Journal of Alloys and Compounds</i> , 2016, 658, 316-323.	2.8	11
50	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.	1.7	11
51	Fast and simultaneous doping of $Sr_{0.9-x-y-z}Ca_{0.1}In_2O_4:(xEu^{3+}, yTm^{3+}, zTb^{3+})$ superstructure by ultrasonic spray pyrolysis. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 14-24.	3.8	11
52	Microwave-assisted hydrothermal synthesis of $Ag_2Mo_{1-x}W_xO_4$ ( $x = 0, 0.25, 0.50, 0.75$ and $1 \text{ mol}\%$ ) heterostructures for enhanced photocatalytic degradation of organic dyes. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156077.	2.8	11
53	Cerium molybdate nanocrystals: Microstructural, optical and gas-sensing properties. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157562.	2.8	11
54	Red-emitting $CaWO_4:Eu^{3+}, Tm^{3+}$ phosphor for solid-state lighting: Luminescent properties and morphology evolution. <i>Journal of Rare Earths</i> , 2022, 40, 226-233.	2.5	9

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55	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> , 2017, 28, 7943-7950.	1.1	8
56	Presence of excited electronic states on terbium incorporation in CaMoO <sub>4</sub> : Insights from experimental synthesis and first-principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 149, 109790.	1.9	8
57	Heterostructures obtained by ultrasonic methods for photocatalytic application: A review. <i>Materials Science in Semiconductor Processing</i> , 2022, 139, 106311.	1.9	7
58	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> , 2014, 27, 1036-1041.	1.9	6
59	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> , 2015, 4, 65-70.	8.9	6
60	Obtaining Ceramic Filter from Rice Husk and Kaolinitic Clay. <i>Materials Science Forum</i> , 0, 802, 232-238.	0.3	5
61	Biofilms of cellulose and hydroxyapatite composites: Alternative synthesis process. <i>Journal of Bioactive and Compatible Polymers</i> , 2020, 35, 469-478.	0.8	4
62	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.	2.0	4
63	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.	1.1	3
64	Photocatalytic properties of the CeO <sub>2</sub> -xTiO <sub>2</sub> and TiO <sub>2</sub> -xCeO <sub>2</sub> (x=10, 30, and 50 mol%) heterostructures obtained by a MAH. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2376-2385.	1.1	3
65	Antimicrobial and electrical properties of cerium and niobium doped zns nanoparticles obtained by a sonochemical method. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 598-604.	1.1	3
66	Co <sub>2</sub> FeAl Heusler alloy onto amorphous TiO <sub>2</sub> layer: Exploring the quasi-static and dynamic magnetic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110088.	1.9	3
67	Synthesis, characterization and in vitro antimicrobial prospecting of silver-doped ceria. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 849-854.	2.0	2
68	Integrated experimental and theoretical study on the phase transition and photoluminescent properties of ZrO <sub>2</sub> :xTb <sup>3+</sup> (x=1, 2, 4 and 8 mol %). <i>Materials Research Bulletin</i> , 2022, 145, 111532.	2.7	2
69	Influence of Calcium Concentration on the Structural and Electrical Properties of PZT Ceramic. <i>Materials Science Forum</i> , 0, 805, 298-304.	0.3	1
70	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> , 2017, 35, 225-238.	0.4	1
71	Integration of experiment and computational modeling on the Tb doping process in CaMoO <sub>4</sub> obtained by USP method: An efficient way to obtain photoluminescent materials. <i>ChemPhysChem</i> , 2020, , .	1.0	1
72	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> , 0, 775-776, 673-677.		

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73	Activated carbon from pumpkin seeds: Production by simultaneous carbonization activation for occupational respiratory protection. <i>Ecletica Quimica</i> , 2022, 47, 63-76.	0.2	0
74	Activated carbon from pumpkin seeds: Production by simultaneous carbonization activation for occupational respiratory protection. <i>Ecletica Quimica</i> , 2022, 47, 77-79.	0.2	0