

Mario L Moreira

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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.

69 papers	1,604 citations	20 h-index	39 g-index
71 ext. papers	1,792 ext. citations	3.5 avg, IF	4.38 L-index

#	Paper	IF	Citations
69	Structural and optical properties of CaTiO ₃ perovskite-based materials obtained by microwave-assisted hydrothermal synthesis: An experimental and theoretical insight. <i>Acta Materialia</i> , 2009 , 57, 5174-5185	8.4	157
68	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 5381-5387	9.6	147
67	CeO ₂ nanoparticles synthesized by a microwave-assisted hydrothermal method: evolution from nanospheres to nanorods. <i>CrystEngComm</i> , 2012 , 14, 1150-1154	3.3	96
66	ZnO architectures synthesized by a microwave-assisted hydrothermal method and their photoluminescence properties. <i>Solid State Ionics</i> , 2010 , 181, 775-780	3.3	79
65	Synthesis of Fine Micro-sized BaZrO ₃ Powders Based on a Decaoctahedron Shape by the Microwave-Assisted Hydrothermal Method. <i>Crystal Growth and Design</i> , 2009 , 9, 833-839	3.5	76
64	Long-range and short-range structures of cube-like shape SrTiO ₃ powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12386-12393	3.6	74
63	Photoluminescence of barium titanate and barium zirconate in multilayer disordered thin films at room temperature. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 8938-42	2.8	68
62	An efficient microwave-assisted hydrothermal synthesis of BaZrO ₃ microcrystals: growth mechanism and photoluminescence emissions. <i>CrystEngComm</i> , 2010 , 12, 3612	3.3	64
61	First principles calculations on the origin of violet-blue and green light photoluminescence emission in SrZrO ₃ and SrTiO ₃ perovskites. <i>Theoretical Chemistry Accounts</i> , 2009 , 124, 385-394	1.9	63
60	CaTiO ₃ :Eu ³⁺ obtained by microwave assisted hydrothermal method: A photoluminescent approach. <i>Optical Materials</i> , 2010 , 32, 990-997	3.3	58
59	Quantum Mechanics Insight into the Microwave Nucleation of SrTiO ₃ Nanospheres. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24792-24808	3.8	52
58	Influence of different solvents on the structural, optical and morphological properties of CdS nanoparticles. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6880-6883	5.7	44
57	SnO ₂ nanocrystals synthesized by microwave-assisted hydrothermal method: towards a relationship between structural and optical properties. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	42
56	Insight into the Effects of Fe Addition on the Local Structure and Electronic Properties of SrTiO ₃ . <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4930-4940	3.8	40
55	High-efficient microwave synthesis and characterisation of SrSnO ₃ . <i>Chemical Engineering Journal</i> , 2009 , 155, 905-909	14.7	40
54	On the reversed crystal growth of BaZrO ₃ decaoctahedron: shape evolution and mechanism. <i>CrystEngComm</i> , 2011 , 13, 5818	3.3	39
53	Radioluminescence properties of decaoctahedral BaZrO ₃ . <i>Scripta Materialia</i> , 2011 , 64, 118-121	5.6	31

52	Photoluminescent behavior of SrZrO ₃ /SrTiO ₃ multilayer thin films. <i>Chemical Physics Letters</i> , 2009 , 473, 293-298	2.5	27
51	Joint experimental and theoretical analysis of order-disorder effects in cubic BaZrO ₃ assembled nanoparticles under decaoctahedral shape. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 4482-90	2.8	24
50	Crystal phase analysis of SnO ₂ -based varistor ceramic using the Rietveld method. <i>Materials Characterization</i> , 2006 , 57, 193-198	3.9	21
49	Novel SrTi _{1-x} FexO ₃ nanocubes synthesized by microwave-assisted hydrothermal method. <i>CrystEngComm</i> , 2012 , 14, 4068	3.3	20
48	BaZrO ₃ photoluminescence property: An ab initio analysis of structural deformation and symmetry changes. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 694-701	2.1	18
47	Relationship between Crystal Shape, Photoluminescence, and Local Structure in SrTiO ₃ Synthesized by Microwave-Assisted Hydrothermal Method. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-6	3.2	18
46	Photoluminescence of barium-calcium titanates obtained by the microwave-assisted hydrothermal method (MAH). <i>Chemical Physics Letters</i> , 2010 , 488, 54-56	2.5	18
45	Structural and Electronic Properties of Bulk ZnX (X = O, S, Se, Te), ZnF, and ZnO/ZnF: A DFT Investigation within PBE, PBE + , and Hybrid HSE Functionals. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 3778-3785	2.8	17
44	Black SiO ₂ nanoparticles obtained by pyrolysis of rice husk. <i>Dyes and Pigments</i> , 2019 , 164, 272-278	4.6	16
43	Sintering of porous alumina obtained by biotemplate fibers for low thermal conductivity applications. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1087-1092	6	16
42	Quantitative evaluation of the surface stability and morphological changes of CuO particles. <i>Heliyon</i> , 2019 , 5, e02500	3.6	15
41	Photoresponse of KNbO ₃ -AFeO ₃ (A = Bi ³⁺ or La ³⁺) ceramics and its relationship with bandgap narrowing. <i>Materials Letters</i> , 2018 , 221, 326-329	3.3	15
40	Optical and structural investigation of ZnO@ZnS core-shell nanostructures. <i>Materials Chemistry and Physics</i> , 2016 , 173, 347-354	4.4	15
39	Quantum mechanical modeling of excited electronic states and their relationship to cathodoluminescence of BaZrO ₃ . <i>Journal of Applied Physics</i> , 2013 , 114, 043714	2.5	15
38	Increase of Voc using heterojunctions of BaTiO ₃ without sensitization. <i>Ceramics International</i> , 2020 , 46, 4907-4913	5.1	14
37	Band alignment and charge transfer predictions of ZnO/ZnX (X = S, Se or Te) interfaces applied to solar cells: a PBE+U theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4953-4961	3.6	13
36	Europium-doped calcium titanate: Optical and structural evaluations. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 154-162	5.7	13
35	Interfacial photoluminescence emission properties of core/shell Al ₂ O ₃ /ZrO ₂ . <i>CrystEngComm</i> , 2012 , 14, 393-396	3.3	13

34	In situ microwave-assisted deposition of CoS counter electrode for dye-sensitized solar cells. <i>Solar Energy</i> , 2020 , 198, 658-664	6.8	12
33	Morphological and Structural changes of $\text{Ca}_{0.9}\text{Sr}_{0.1}\text{TiO}_3$ Powders Obtained by the Microwave-Assisted Hydrothermal Method. <i>International Journal of Applied Ceramic Technology</i> , 2012 , 9, 186-192	2	11
32	Photocatalytic degradation of rhodamine B using Nb_2O_5 synthesized with different niobium precursors: Factorial design of experiments. <i>Ceramics International</i> , 2021 , 47, 20570-20578	5.1	11
31	Fingerprints of short-range and long-range structure in $\text{BaZr}_{1-x}\text{Hf}_x\text{O}_3$ solid solutions: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11341-9	3.6	9
30	Order-disorder degree of self-assembled clusters: Influence on photoluminescence emission and morphology of $\text{Ba}_{0.9}\text{Sr}_{0.1}\text{TiO}_3$ nanocrystals. <i>Chemical Physics Letters</i> , 2011 , 514, 301-306	2.5	9
29	Influence of titanium precursor on photoluminescent emission of micro-cube-shaped CaTiO_3 . <i>Journal of Luminescence</i> , 2015 , 165, 130-137	3.8	8
28	Development of a Yellow Pigment Based on Bismuth and Molybdenum-Doped TiO_2 for Coloring Polymers. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, E112-E119	2	7
27	Unveiling the efficiency of microwave-assisted hydrothermal treatment for the preparation of SrTiO mesocrystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22031-22038	3.6	6
26	Influence of Nb_2O_5 crystal structure on photocatalytic efficiency. <i>Chemical Physics Letters</i> , 2021 , 764, 138271	2.5	6
25	Evolutionary design algorithm for optimal light trapping in solar cells. <i>Journal of Applied Physics</i> , 2019 , 125, 043105	2.5	5
24	The effect of titanium dioxide nanoparticles obtained by microwave-assisted hydrothermal method on the color and decay resistance of pinewood. <i>Maderas: Ciencia Y Tecnologia</i> , 2017 , 0-0	1	5
23	Physico-chemical description of titanium dioxide-cellulose nanocomposite formation by microwave radiation with high thermal stability. <i>Cellulose</i> , 2018 , 25, 2331-2341	5.5	5
22	Unveiling the infrared complex dielectric function of ilmenite CdTiO_3 . <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152136	5.7	5
21	Multi-Photonic behavior of Nb_2O_5 and its correlation with synthetic methods. <i>Journal of Materials Science</i> , 2021 , 56, 7889-7905	4.3	4
20	Functionalized pink AlO:Mn pigments applied in prosthetic dentistry. <i>Journal of Prosthetic Dentistry</i> , 2017 , 118, 771-777	4	3
19	A description of the formation and growth processes of CaTiO_3 mesocrystals: a joint experimental and theoretical approach. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 1255-1266	4.6	3
18	Study of the Evolution of Phase Calcium Aluminate through the Method for Polymeric Precursors C12A7 . <i>Materials Science Forum</i> , 2015 , 820, 137-142	0.4	2
17	A first-principles investigation on the luminescence emissions of BaZrO_3 obtained by microwave-assisted hydrothermal method. <i>Journal of Luminescence</i> , 2016 , 180, 73-80	3.8	2

16	Chemical Synthesis and Sintering Behaviour of Ca ₃ Al ₂ O ₆ Obtained by Polymeric Precursor Method. <i>Materials Science Forum</i> , 2015 , 820, 143-148	0.4	2
15	Investigation of the properties of niobium pentoxide for use in dye-sensitized solar cells. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 1884	3.8	2
14	Correlation between local structure and electronic properties of BaZrO ₃ :TbYb Optical Ceramics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 251, 147106	1.7	2
13	Processing conditions for the production of polystyrene microcapsules containing demineralized water. <i>Advanced Powder Technology</i> , 2017 , 28, 1221-1227	4.6	1
12	Influence of Eu valence on the optical activity of BaTiO decorated with CaF synthesized by microwave-assisted hydrothermal method. <i>Dalton Transactions</i> , 2020 , 49, 8540-8548	4.3	1
11	Properties of zinc titanates synthesized by microwave assisted hydrothermal method. <i>Heliyon</i> , 2021 , 7, e06521	3.6	1
10	Synthesis of NaNbO ₃ nanowires and their photocatalytic activity. <i>Ceramics International</i> , 2021 , 47, 10185-10188	5.1	1
9	Resistance of TiO ₂ -treated Eucalyptus botryoides Wood to the Fungus Ganoderma applanatum. <i>Floresta E Ambiente</i> , 2018 , 25,	1	1
8	Redu da inflamabilidade da madeira de Pinus elliottii modificada com partulas de TiO ₂ . <i>Revista Materia</i> , 2018 , 23,	0.8	1
7	A Statistical Study of Assembly Parameter Modifications Effects on the Photovoltaic Response of Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2021 , 50, 6149-6158	1.9	1
6	An investigation of the photovoltaic parameters of ZnS grown on ZnO(101). <i>New Journal of Chemistry</i> , 2020 , 44, 20600-20609	3.6	0
5	Facile preparation of Nb ₂ O ₅ /TiO ₂ heterostructures for photocatalytic application. <i>Chemical Physics Impact</i> , 2022 , 100079	1.6	0
4	Microstructure and Thermal Conductivity of Porous Al ₂ O ₃ -ZrO ₂ Ceramics. <i>Materials Science Forum</i> , 2015 , 820, 268-273	0.4	
3	Morphology and Properties of (Ba, Sr, Ca) Titanates Synthesized by Microwave-Assisted Hydrothermal Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 062019	0.4	
2	Wetting-state transition of random surfaces. <i>Thin Solid Films</i> , 2022 , 745, 139102	2.2	
1	Microwave-assisted solvothermal: An efficient and new method to obtain hydrophobic wood surfaces. <i>Maderas: Ciencia Y Tecnologia</i> , 2018 , 0-0	1	