

Mateus Meneghetti Ferrer

List of Publications by Citations

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45
papers

1,122
citations

17
h-index

32
g-index

47
ext. papers

1,308
ext. citations

3.7
avg, IF

4.13
L-index

#	Paper	IF	Citations
45	Toward an Understanding of the Growth of Ag Filaments on β -Ag ₂ WO ₄ and Their Photoluminescent Properties: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1229-1239	3.8	111
44	Experimental and theoretical investigations of electronic structure and photoluminescence properties of β -Ag ₂ MoO ₄ microcrystals. <i>Inorganic Chemistry</i> , 2014 , 53, 5589-99	5.1	101
43	Potentiated electron transference in β -Ag ₂ WO ₄ microcrystals with Ag nanofilaments as microbial agent. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 5769-78	2.8	91
42	Synthesis of wurtzite ZnS nanoparticles using the microwave assisted solvothermal method. <i>Journal of Alloys and Compounds</i> , 2013 , 556, 153-159	5.7	78
41	Structural and electronic analysis of the atomic scale nucleation of Ag on β -Ag ₂ WO ₄ induced by electron irradiation. <i>Scientific Reports</i> , 2014 , 4, 5391	4.9	76
40	Effects of surface stability on the morphological transformation of metals and metal oxides as investigated by first-principles calculations. <i>Nanotechnology</i> , 2015 , 26, 405703	3.4	70
39	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. <i>Materials and Design</i> , 2017 , 120, 363-375	8.1	52
38	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
37	A 3D platform for the morphology modulation of materials: first principles calculations on the thermodynamic stability and surface structure of metal oxides: Co ₃ O ₄ , Fe ₂ O ₃ , and In ₂ O ₃ . <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016 , 24, 025007	2	46
36	A Combined Experimental and Theoretical Study on the Formation of Ag Filaments on β -Ag ₂ MoO ₄ Induced by Electron Irradiation. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 646-651	3.1	41
35	A theoretical investigation of the structural and electronic properties of orthorhombic CaZrO ₃ . <i>Ceramics International</i> , 2015 , 41, 3069-3074	5.1	34
34	Structural and optical approach of CdS@ZnS core-shell system. <i>Chemical Physics Letters</i> , 2012 , 536, 96-99	2.5	31
33	Modeling the atomic-scale structure, stability, and morphological transformations in the tetragonal phase of LaVO ₄ . <i>Chemical Physics Letters</i> , 2016 , 660, 87-92	2.5	28
32	β -AgZnWO (0 x 0.25) Solid Solutions: Structure, Morphology, and Optical Properties. <i>Inorganic Chemistry</i> , 2017 , 56, 7360-7372	5.1	26
31	Experimental and theoretical studies on the enhanced photoluminescence activity of zinc sulfide with a capping agent. <i>Journal of Applied Physics</i> , 2011 , 110, 123507	2.5	22
30	Photocatalytic activity of semiconductor sulfide heterostructures. <i>Dalton Transactions</i> , 2013 , 42, 11111-11114	4.3	19
29	Influence of solvent on the morphology and photocatalytic properties of ZnS decorated CeO ₂ nanoparticles. <i>Journal of Applied Physics</i> , 2014 , 115, 213514	2.5	19

28	Theoretical methods for calculations of optical phonons in BiOBr: Analysis and correction of propagated errors. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1356-1363	2.3	16
27	Towards controlled synthesis and better understanding of blue shift of the CaS crystals. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2743	7.1	16
26	Effects of chemical substitution on the structural and optical properties of $\text{Ag}_{2-2x}\text{Ni}_x\text{WO}_4$ (0 \leq x \leq 0.08) solid solutions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21966-75	3.6	16
25	Quantitative evaluation of the surface stability and morphological changes of CuO particles. <i>Heliyon</i> , 2019 , 5, e02500	3.6	15
24	Computational Simulations of Morphological Transformations by Surface Structures: The Case of Rutile TiO ₂ phase. <i>Materials Research</i> , 2017 , 20, 920-925	1.5	15
23	Europium doped zinc sulfide: a correlation between experimental and theoretical calculations. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2375	2	14
22	Effect of Er ³⁺ ions on the phase formation and properties of In ₂ O ₃ nanostructures crystallized upon microwave heating. <i>Journal of Solid State Chemistry</i> , 2017 , 249, 58-63	3.3	12
21	Spin-phonon coupling in uniaxial anisotropic spin-glass based on Fe ₂ TiO ₅ pseudobrookite. <i>Journal of Alloys and Compounds</i> , 2019 , 799, 563-572	5.7	11
20	The role of counter-ions in crystal morphology, surface structure and photocatalytic activity of ZnO crystals grown onto a substrate. <i>Applied Surface Science</i> , 2020 , 529, 147057	6.7	11
19	Photocatalytic degradation of rhodamine B using Nb ₂ O ₅ synthesized with different niobium precursors: Factorial design of experiments. <i>Ceramics International</i> , 2021 , 47, 20570-20578	5.1	11
18	Laser/Electron Irradiation on Indium Phosphide (InP) Semiconductor: Promising Pathways to In Situ Formation of Indium Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800237	3.1	11
17	Facile microwave-assisted hydrothermal synthesis of hexagonal sodium tungsten bronze and its high response to NO ₂ . <i>Materials Letters</i> , 2016 , 185, 197-200	3.3	10
16	First-principles calculations and Raman scattering evidence for local symmetry lowering in rhombohedral ilmenite: temperature- and pressure-dependent studies. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 485401	1.8	10
15	The effect of TiO ₂ nanotube morphological engineering and ZnS quantum dots on the water splitting reaction: A theoretical and experimental study. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6838-6850	6.7	8
14	Self-compacting mortar with sugarcane bagasse ash: development of a sustainable alternative for Brazilian civil construction. <i>Environment, Development and Sustainability</i> , 2019 , 21, 2125-2143	4.5	8
13	Computational procedure to an accurate DFT simulation to solid state systems. <i>Computational Materials Science</i> , 2019 , 170, 109176	3.2	7
12	Characterization of different sugarcane bagasse ashes generated for preparation and application as green products in civil construction. <i>Clean Technologies and Environmental Policy</i> , 2019 , 21, 1687-1698	4.3	5
11	Band Gap Narrowing of Bi-Doped NaTaO ₃ for Photocatalytic Hydrogen Evolution under Simulated Sunlight: A Pseudocubic Phase Induced by Doping. <i>ACS Applied Energy Materials</i> , 2021 , 4, 671-679	6.1	5

10	Unveiling the infrared complex dielectric function of ilmenite CdTiO ₃ . <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152136	5.7	5
9	Experimental and Theoretical Investigations on the Structural, Electronic, and Vibrational Properties of Cs ₂ AgSbCl ₆ Double Perovskite. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	5
8	Morphological Transformation Network of Nanoparticles via DFT Simulations. <i>Crystal Growth and Design</i> , 2020 , 20, 4600-4611	3.5	4
7	Towards an Understanding on the Role of Precursor in the Synthesis of ZnS Nanostructures. <i>Current Physical Chemistry</i> , 2013 , 3, 378-385	0.5	3
6	Unveiling the Structural Behavior under Pressure of Filled MCoSb (M = K, Sr, La, Ce, and Yb) Thermoelectric Skutterudites. <i>Inorganic Chemistry</i> , 2021 , 60, 7413-7421	5.1	2
5	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
4	Optical phonon modes in 1:2 ordered trigonal Ba ₃ MgNb ₂ O ₉ perovskite: Synergy of both classical and quantum methods. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1219-1229	2.3	1
3	Doped Tin Dioxide (d-SnO ₂) and Its Nanostructures: Review of the Theoretical Aspects, Photocatalytic and Biomedical Applications. <i>Solids</i> , 2022 , 3, 327-360	0	1
2	Sugarcane Bagasse Ash Micronized Using Air Jet Mills for Green Pozzolan in Brazil. <i>International Journal of Chemical Engineering</i> , 2019 , 2019, 1-10	2.2	0
1	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