Amanda Fernandes Gouveia

List of Publications by Year in Descending Order

39 papers	929 citations	15 h-index	30 g-index
44 ext. papers	1,124 ext. citations	4.1 avg, IF	4.15 L-index

#	Paper	IF	Citations
39	Selective Synthesis of □ □ and □AgWO Polymorphs: Promising Platforms for Photocatalytic and Antibacterial Materials. *Inorganic Chemistry*, **2021**, 60, 1062-1079	5.1	8
38	Surface-dependent photocatalytic and biological activities of Ag2CrO4: Integration of experiment and simulation. *Applied Surface Science*, **2021**, 545, 148964	6.7	8
37	Modulating the properties of multifunctional semiconductors by means of morphology: Theory meets experiments. *Computational Materials Science*, **2021**, 188, 110217	3.2	8
36	Electronic structure, optical and sonophotocatalytic properties of spindle-like CaWO4 microcrystals synthesized by the sonochemical method. *Journal of Alloys and Compounds*, **2021**, 855, 157377	5.7	6
35	Revealing the Nature of Defects in □Ag2WO4 by Positron Annihilation Lifetime Spectroscopy: A Joint Experimental and Theoretical Study. *Crystal Growth and Design*, **2021**, 21, 1093-1102	3.5	4
34	Microwave-Driven Hexagonal-to-Monoclinic Transition in BiPO: An In-Depth Experimental Investigation and First-Principles Study. *Inorganic Chemistry*, **2020**, 59, 7453-7468	5.1	12
33	Unraveling the Photoluminescence Properties of the Sr10V6O25 Structure through Experimental and Theoretical Analyses. *Journal of Physical Chemistry C*, **2020**, 124, 14446-14458	3.8	1
32	Surface-dependent properties of □Ag2WO4: a joint experimental and theoretical investigation. *Theoretical Chemistry Accounts*, **2020**, 139, 1	1.9	10
31	Metallic behavior in STO/LAO heterostructures with non-uniformly atomic interfaces. *Materials Today Communications*, **2020**, 24, 101339	2.5	0
30	Femtosecond-laser-irradiation-induced structural organization and crystallinity of BiWO. *Scientific Reports*, **2020**, 10, 4613	4.9	3
29	Electronic Structure, Morphological Aspects, and Photocatalytic Discoloration of Three Organic Dyes with MgWO4 Powders Synthesized by the Complex Polymerization Method. *Journal of Inorganic and Organometallic Polymers and Materials*, **2020**, 30, 2952-2970	3.2	5
28	Ag Nanoparticles/AgX (X=Cl, Br and I) Composites with Enhanced Photocatalytic Activity and Low Toxicological Effects. *ChemistrySelect*, **2020**, 5, 4655-4673	1.8	9
27	Structure, optical properties, and photocatalytic activity of □Ag2W0.75Mo0.25O4. *Materials Research Bulletin*, **2020**, 132, 111011	5.1	4
26	Rational Design of W-Doped AgPO as an Efficient Antibacterial Agent and Photocatalyst for Organic Pollutant Degradation. *ACS Omega*, **2020**, 5, 23808-23821	3.9	6
25	Environmental remediation properties of Bi2WO6 hierarchical nanostructure: A joint experimental and theoretical investigation. *Journal of Solid State Chemistry*, **2019**, 274, 270-279	3.3	12
24	Evidence for the formation of metallic In after laser irradiation of InP. *Journal of Applied Physics*, **2019**, 126, 025902	2.5	2
23	Electronic Structure, Morphological Aspects, Optical and Electrochemical Properties of RuO2 Nanocrystals. *Electronic Materials Letters*, **2019**, 15, 645-653	2.9	2

22	Laser-induced formation of bismuth nanoparticles. *Physical Chemistry Chemical Physics*, **2018**, 20, 13693-13696	3.6	15
21	ZnWO nanocrystals: synthesis, morphology, photoluminescence and photocatalytic properties. *Physical Chemistry Chemical Physics*, **2018**, 20, 1923-1937	3.6	77
20	Surfactant-Mediated Morphology and Photocatalytic Activity of Ag2WO4 Material. *Journal of Physical Chemistry C*, **2018**, 122, 8667-8679	3.8	45
19	The effect of TiO2 nanotube morphological engineering and ZnS quantum dots on the water splitting reaction: A theoretical and experimental study. *International Journal of Hydrogen Energy*, **2018**, 43, 6838-6850	6.7	8
18	Connecting structural, optical, and electronic properties and photocatalytic activity of Ag3PO4:Mo complemented by DFT calculations. *Applied Catalysis B: Environmental*, **2018**, 238, 198-211	21.8	39
17	Formation of Ag nanoparticles under electron beam irradiation: Atomistic origins from first-principles calculations. *International Journal of Quantum Chemistry*, **2018**, 118, e25551	2.1	18
16	Electronic structure, growth mechanism, and sonophotocatalytic properties of sphere-like self-assembled NiWO4 nanocrystals. *Inorganic Chemistry Communication*, **2018**, 98, 34-40	3.1	11
15	In situ Formation of Metal Nanoparticles through Electron Beam Irradiation: Modeling Real Materials from First-Principles Calculations. *Journal of Material Science & Engineering*, **2018**, 07,	0.7	3
14	Laser/Electron Irradiation on Indium Phosphide (InP) Semiconductor: Promising Pathways to In Situ Formation of Indium Nanoparticles. *Particle and Particle Systems Characterization*, **2018**, 35, 1800237	3.1	11
13	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. *Materials and Design*, **2017**, 120, 363-375	8.1	52
12	AgZnWO (0 x 0.25) Solid Solutions: Structure, Morphology, and Optical Properties. *Inorganic Chemistry*, **2017**, 56, 7360-7372	5.1	26
11	Formation of Ag Nanoparticles on Ag2WO4 through Electron Beam Irradiation: A Synergetic Computational and Experimental Study. *Inorganic Chemistry*, **2016**, 55, 8661-71	5.1	33
10	A 3D platform for the morphology modulation of materials: first principles calculations on the thermodynamic stability and surface structure of metal oxides: Co3O4, Fe2O3, and In2O3. *Modelling and Simulation in Materials Science and Engineering*, **2016**, 24, 025007	2	46
9	Synthesis and characterization of metastable Ag2WO4: an experimental and theoretical approach. *Dalton Transactions*, **2016**, 45, 1185-91	4.3	18
8	Modeling the atomic-scale structure, stability, and morphological transformations in the tetragonal phase of LaVO4. *Chemical Physics Letters*, **2016**, 660, 87-92	2.5	28
7	Effects of surface stability on the morphological transformation of metals and metal oxides as investigated by first-principles calculations. *Nanotechnology*, **2015**, 26, 405703	3.4	70
6	Potentiated electron transference in Ag2WO4 microcrystals with Ag nanofilaments as microbial agent. *Journal of Physical Chemistry A*, **2014**, 118, 5769-78	2.8	91
5	Europium doped zinc sulfide: a correlation between experimental and theoretical calculations. *Journal of Molecular Modeling*, **2014**, 20, 2375	2	14

4	Towards controlled synthesis and better understanding of blue shift of the CaS crystals. *Journal of Materials Chemistry C*, **2014**, 2, 2743	7.1	16
3	Experimental and theoretical investigations of electronic structure and photoluminescence properties of Ag2MoO4 microcrystals. *Inorganic Chemistry*, **2014**, 53, 5589-99	5.1	101
2	Direct in situ observation of the electron-driven synthesis of Ag filaments on Ag2WO4 crystals. *Scientific Reports*, **2013**, 3, 1676	4.9	95
1	Reading at exposed surfaces: theoretical insights into photocatalytic activity of ZnWO41, 1005		11