

# Marcelo Assis

## List of Publications by Citations

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64  
papers

752  
citations

15  
h-index

24  
g-index

70  
ext. papers

1,034  
ext. citations

4.7  
avg, IF

4.14  
L-index

#	Paper	IF	Citations
64	ZnWO nanocrystals: synthesis, morphology, photoluminescence and photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 1923-1937	3.6	77
63	Mechanism of Antibacterial Activity via Morphology Change of $\beta$ -AgVO: Theoretical and Experimental Insights. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11472-11481	9.5	46
62	Surfactant-Mediated Morphology and Photocatalytic Activity of $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> Material. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8667-8679	3.8	45
61	Connecting structural, optical, and electronic properties and photocatalytic activity of Ag <sub>3</sub> PO <sub>4</sub> :Mo complemented by DFT calculations. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 198-211	21.8	39
60	An Experimental and Computational Study of $\beta$ -AgVO <sub>3</sub> : Optical Properties and Formation of Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 12254-12264	3.8	37
59	A theoretical investigation of the structural and electronic properties of orthorhombic CaZrO <sub>3</sub> . <i>Ceramics International</i> , <b>2015</b> , 41, 3069-3074	5.1	34
58	Towards the scale-up of the formation of nanoparticles on $\beta$ -AgWO with bactericidal properties by femtosecond laser irradiation. <i>Scientific Reports</i> , <b>2018</b> , 8, 1884	4.9	32
57	Rare earth doped silver tungstate for photoluminescent applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 771, 433-447	5.7	30
56	Tailoring the Bactericidal Activity of Ag Nanoparticles/ $\beta$ -AgWO Composite Induced by Electron Beam and Femtosecond Laser Irradiation: Integration of Experiment and Computational Modeling.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 824-837	4.1	25
55	Ag Nanoparticles/ $\beta$ -AgWO Composite Formed by Electron Beam and Femtosecond Irradiation as Potent Antifungal and Antitumor Agents. <i>Scientific Reports</i> , <b>2019</b> , 9, 9927	4.9	24
54	Unveiling the role of $\beta$ -AgMoO microcrystals to the improvement of antibacterial activity. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110765	8.3	23
53	SiO-Ag Composite as a Highly Virucidal Material: A Roadmap that Rapidly Eliminates SARS-CoV-2. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	19
52	Experimental and theoretical study of the energetic, morphological, and photoluminescence properties of CaZrO <sub>3</sub> :Eu <sup>3+</sup> . <i>CrystEngComm</i> , <b>2018</b> , 20, 5519-5530	3.3	17
51	Ag nanoparticles-based antimicrobial polycotton fabrics to prevent the transmission and spread of SARS-CoV-2	16.6	16
50	Laser and electron beam-induced formation of Ag/Cr structures on AgCrO. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6101-6111	3.6	15
49	Laser-induced formation of bismuth nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 13693-13696	13.6	15
48	Mechanism of photoluminescence in intrinsically disordered CaZrO <sub>3</sub> crystals: First principles modeling of the excited electronic states. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 722, 981-995	5.7	15

47	From Complex Inorganic Oxides to Ag-Bi Nanoalloy: Synthesis by Femtosecond Laser Irradiation. <i>ACS Omega</i> , <b>2018</b> , 3, 9880-9887	3.9	13
46	Disclosing the electronic structure and optical properties of Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> crystals: experimental and theoretical insights. <i>CrystEngComm</i> , <b>2016</b> , 18, 6483-6491	3.3	13
45	Environmental remediation properties of Bi <sub>2</sub> WO <sub>6</sub> hierarchical nanostructure: A joint experimental and theoretical investigation. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 274, 270-279	3.3	12
44	Microwave-Driven Hexagonal-to-Monoclinic Transition in BiPO: An In-Depth Experimental Investigation and First-Principles Study. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 7453-7468	5.1	12
43	Influence of ionic liquid on the photoelectrochemical properties of ZnO particles. <i>Ceramics International</i> , <b>2018</b> , 44, 10393-10401	5.1	11
42	Reading at exposed surfaces: theoretical insights into photocatalytic activity of ZnWO <sub>4</sub> , 1005		11
41	Laser/Electron Irradiation on Indium Phosphide (InP) Semiconductor: Promising Pathways to In Situ Formation of Indium Nanoparticles. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1800237	3.1	11
40	In Situ Growth of Bi Nanoparticles on NaBiO <sub>3</sub> , Bi <sub>2</sub> and Bi <sub>2</sub> O <sub>3</sub> Surfaces: Electron Irradiation and Theoretical Insights. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 5023-5030	3.8	10
39	Surface-dependent properties of BiAg <sub>2</sub> WO <sub>4</sub> : a joint experimental and theoretical investigation. <i>Theoretical Chemistry Accounts</i> , <b>2020</b> , 139, 1	1.9	10
38	BiAgVO Decorated by Hydroxyapatite (Ca <sub>5</sub> (PO) <sub>4</sub> (OH)): Tuning Its Photoluminescence Emissions and Bactericidal Activity. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5900-5913	5.1	9
37	Proof-of-Concept Studies Directed toward the Formation of Metallic Ag Nanostructures from Ag <sub>3</sub> PO <sub>4</sub> Induced by Electron Beam and Femtosecond Laser. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1800533	3.1	9
36	Ag Nanoparticles/AgX (X=Cl, Br and I) Composites with Enhanced Photocatalytic Activity and Low Toxicological Effects. <i>ChemistrySelect</i> , <b>2020</b> , 5, 4655-4673	1.8	9
35	Connecting Theory with Experiment to Understand the Sintering Processes of Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11310-11318	3.8	8
34	Surface-dependent photocatalytic and biological activities of Ag <sub>2</sub> CrO <sub>4</sub> : Integration of experiment and simulation. <i>Applied Surface Science</i> , <b>2021</b> , 545, 148964	6.7	8
33	Microwave-assisted hydrothermal synthesis of CuWO <sub>4</sub> -palygorskite nanocomposite for enhanced visible photocatalytic response. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 863, 158731	5.7	8
32	Unconventional Magnetization Generated from Electron Beam and Femtosecond Irradiation on BiAgWO: A Quantum Chemical Investigation. <i>ACS Omega</i> , <b>2020</b> , 5, 10052-10067	3.9	8
31	Electron beam irradiation for the formation of thick Ag film on AgPO <sub>3</sub> . <i>RSC Advances</i> , <b>2020</b> , 10, 21745-21753	3.7	6
30	Microwave-assisted solvothermal preparation of Zr-BDC for modification of proton exchange membranes made of SPEEK/PBI blends. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 14938-14952	4.3	6

29	Unraveling a Biomass-Derived Multiphase Catalyst for the Dehydrogenative Coupling of Silanes with Alcohols under Aerobic Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 2912-2928	8.3	6
28	Efficient Ni and Fe doping process in ZnO with enhanced photocatalytic activity: A theoretical and experimental investigation. <i>Materials Research Bulletin</i> , <b>2022</b> , 111849	5.1	6
27	Effect of metallic Ag growth on the electrical resistance of 3D flower-like Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> crystals. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2358-2362	3.8	4
26	Development and Characterization of Electrospun Nanostructures Using Polyethylene Oxide: Potential Means for Incorporation of Bioactive Compounds. <i>Colloids and Interfaces</i> , <b>2020</b> , 4, 14	3	4
25	Multi-dimensional architecture of Ag/Ag <sub>2</sub> WO <sub>4</sub> crystals: insights into microstructural, morphological, and photoluminescence properties. <i>CrystEngComm</i> , <b>2020</b> , 22, 7903-7917	3.3	4
24	Structure, optical properties, and photocatalytic activity of Ag <sub>2</sub> WO <sub>0.75</sub> Mo <sub>0.25</sub> O <sub>4</sub> . <i>Materials Research Bulletin</i> , <b>2020</b> , 132, 111011	5.1	4
23	Revealing the Nature of Defects in Ag <sub>2</sub> WO <sub>4</sub> by Positron Annihilation Lifetime Spectroscopy: A Joint Experimental and Theoretical Study. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 1093-1102	3.5	4
22	Uniaxial and Coaxial Electrospinning for Tailoring Jussara Pulp Nanofibers. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
21	PVC-SiO <sub>2</sub> -Ag composite as a powerful biocide and anti-SARS-CoV-2 material. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	4
20	Carbon Nanofibers versus Silver Nanoparticles: Time-Dependent Cytotoxicity, Proliferation, and Gene Expression. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	4
19	Graphene Nanoplatelets: In Vivo and In Vitro Toxicity, Cell Proliferative Activity, and Cell Gene Expression. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 720	2.6	3
18	A scalable electron beam irradiation platform applied for allotropic carbon transformation. <i>Carbon</i> , <b>2021</b> , 174, 567-580	10.4	3
17	Microwave assisted synthesis of silver nanoparticles and its application in sustainable photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 34264-34275	6.7	3
16	Towards a white-emitting phosphor Ca <sub>10</sub> V <sub>6</sub> O <sub>25</sub> based material. <i>Journal of Luminescence</i> , <b>2020</b> , 220, 116990	3.8	2
15	Toward Expanding the Optical Response of Ag <sub>2</sub> CrO <sub>4</sub> and Bi <sub>2</sub> O <sub>3</sub> by Their Laser-Mediated Heterojunction. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 26404-26414	3.8	2
14	New Multi-Walled carbon nanotube of industrial interest induce cell death in murine fibroblast cells. <i>Toxicology Mechanisms and Methods</i> , <b>2021</b> , 31, 517-530	3.6	2
13	Unraveling the relationship between bulk structure and exposed surfaces and its effect on the electronic structure and photoluminescent properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> : A joint experimental and theoretical approach. <i>Materials Research Bulletin</i> , <b>2021</b> , 143, 111442	5.1	2
12	Analysis of cytotoxicity and genotoxicity in a short-term dependent manner induced by a new titanium dioxide nanoparticle in murine fibroblast cells. <i>Toxicology Mechanisms and Methods</i> , <b>2021</b> , 1-11	3.6	1

11	Rapid and sensitivity determination of macrolides antibiotics using disposable electrochemical sensor based on Super P carbon black and chitosan composite. <i>Microchemical Journal</i> , <b>2022</b> , 172, 106939	4.8	1
10	Toxicity of $\text{AgWO}$ microcrystals to freshwater microalga <i>Raphidocelis subcapitata</i> at cellular and population levels. <i>Chemosphere</i> , <b>2021</b> , 288, 132536	8.4	1
9	Apoptosis and Oxidative Stress Triggered by Carbon Black Nanoparticle in the LA-9 Fibroblast. <i>Cellular Physiology and Biochemistry</i> , <b>2021</b> , 55, 364-377	3.9	1
8	Increasing the photocatalytic and fungicide activities of $\text{Ag}_3\text{PO}_4$ microcrystals under visible-light irradiation. <i>Ceramics International</i> , <b>2021</b> , 47, 22604-22614	5.1	1
7	$\text{CuWO}_4 \text{MnWO}_4$ heterojunction thin film with improved photoelectrochemical and photocatalytic properties using simulated solar irradiation. <i>Journal of Solid State Electrochemistry</i> , <b>2022</b> , 26, 997-1011	2.6	1
6	Synthesis of $\text{ZnWO}_4$ by the polymerizable complex method: Evidence of amorphous phase coexistence during the phase formation process. <i>Ceramics International</i> , <b>2021</b> , 47, 19073-19078	5.1	0
5	Bioactive $\text{AgPO}$ /Polypropylene Composites for Inactivation of SARS-CoV-2 and Other Important Public Health Pathogens. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 10866-10875	3.4	0
4	Antifungal Activity and Biocompatibility of $\text{AgVO}$ , $\text{AgWO}$ , and $\text{AgMoO}$ Using a Three-Dimensional Coculture Model of the Oral Mucosa.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 826123	5.8	0
3	Fermented Jussara: Evaluation of Nanostructure Formation, Bioaccessibility, and Antioxidant Activity.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 814466	5.8	0
2	Effects of $\text{Ag}_2\text{WO}_4$ crystals on photosynthetic efficiency and biomolecule composition of the algae <i>Raphidocelis subcapitata</i> . <i>Water, Air, and Soil Pollution</i> , <b>2022</b> , 233, 1	2.6	0
1	Functionalized Titanium Nanoparticles Induce Oxidative Stress and Cell Death in Human Skin Cells.. <i>International Journal of Nanomedicine</i> , <b>2022</b> , 17, 1495-1509	7.3	0