

Marcelo O Orlandi

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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.

99 papers	2,800 citations	27 h-index	51 g-index
105 ext. papers	3,148 ext. citations	3.9 avg, IF	5.23 L-index

#	Paper	IF	Citations
99	The Role of Hierarchical Morphologies in the Superior Gas Sensing Performance of CuO-Based Chemiresistors. <i>Advanced Functional Materials</i> , 2013 , 23, 1759-1766	15.6	218
98	Effect of Different Solvent Ratios (Water/Ethylene Glycol) on the Growth Process of CaMoO ₄ Crystals and Their Optical Properties. <i>Crystal Growth and Design</i> , 2010 , 10, 4752-4768	3.5	186
97	Electronic structure, growth mechanism and photoluminescence of CaWO ₄ crystals. <i>CrystEngComm</i> , 2012 , 14, 853-868	3.3	174
96	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 5381-5387	9.6	147
95	Role of oxygen at the grain boundary of metal oxide varistors: A potential barrier formation mechanism. <i>Applied Physics Letters</i> , 2001 , 79, 48-50	3.4	144
94	Yolk-shelled ZnCo ₂ O ₄ microspheres: Surface properties and gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 906-915	8.5	141
93	Direct in situ observation of the electron-driven synthesis of Ag filaments on Ag ₂ WO ₄ crystals. <i>Scientific Reports</i> , 2013 , 3, 1676	4.9	95
92	Efficient microwave-assisted hydrothermal synthesis of CuO sea urchin-like architectures via a mesoscale self-assembly. <i>CrystEngComm</i> , 2010 , 12, 1696	3.3	92
91	Comparative gas sensor response of SnO ₂ , SnO and Sn ₃ O ₄ nanobelts to NO ₂ and potential interferences. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 122-127	8.5	91
90	Growth mechanism and photocatalytic properties of SrWO ₄ microcrystals synthesized by injection of ions into a hot aqueous solution. <i>Advanced Powder Technology</i> , 2013 , 24, 344-353	4.6	79
89	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
88	Gas sensor properties of Ag- and Pd-decorated SnO micro-disks to NO ₂ , H ₂ and CO: Catalyst enhanced sensor response and selectivity. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 253-261	8.5	73
87	Growth mechanism of octahedron-like BaMoO ₄ microcrystals processed in microwave-hydrothermal: Experimental observations and computational modeling. <i>Particuology</i> , 2009 , 7, 353-362	2.8	70
86	Growth of SnO nanobelts and dendrites by a self-catalytic VLS process. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6621-5	3.4	69
85	Schottky-type grain boundaries in CCTO ceramics. <i>Solid State Communications</i> , 2011 , 151, 1377-1381	1.6	68
84	A Joint Experimental and Theoretical Study on the Nanomorphology of CaWO ₄ Crystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20113-20119	3.8	66
83	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

82	Ionic conductivity of Bi ₄ Ti _{0.2} V _{1.8} O _{10.7} polycrystalline ceramics obtained by the polymeric precursor route. <i>Materials Letters</i> , 2003 , 57, 2540-2544	3.3	40
81	Anatase TiO ₂ nanocrystals anchored at inside of SBA-15 mesopores and their optical behavior. <i>Applied Surface Science</i> , 2016 , 389, 1137-1147	6.7	39
80	Structural evolution, growth mechanism and photoluminescence properties of CuWO nanocrystals. <i>Ultrasonics Sonochemistry</i> , 2017 , 38, 256-270	8.9	38
79	Formation and evolution of TiO ₂ nanotubes in alkaline synthesis. <i>Ceramics International</i> , 2015 , 41, 2884-2891	3.9	33
78	Importance of oxygen atmosphere to recover the ZnO-based varistors properties. <i>Journal of Materials Science</i> , 2006 , 41, 6221-6227	4.3	32
77	Role of oxygen on the phase stability and microstructure evolution of CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 129-136	6	30
76	Giant Chemo-Resistance of SnO disk-like structures. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 103-108	1.8	30
75	Electrostatic force microscopy as a tool to estimate the number of active potential barriers in dense non-Ohmic polycrystalline SnO ₂ devices. <i>Applied Physics Letters</i> , 2006 , 89, 152102	3.4	29
74	Investigation of electronic and chemical sensitization effects promoted by Pt and Pd nanoparticles on single-crystalline SnO nanobelt-based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 301, 127055	8.5	28
73	Carbon Fiber Reinforced Polymer and Epoxy Adhesive Tensile Test Failure Analysis Using Scanning Electron Microscopy. <i>Materials Research</i> , 2017 , 20, 951-961	1.5	28
72	Morphological Evolution of Tin Oxide Nanobelts after Phase Transition. <i>Crystal Growth and Design</i> , 2008 , 8, 1067-1072	3.5	26
71	Nonohmic behavior of SnO ₂ -MnO polycrystalline ceramics. II. Analysis of admittance and dielectric spectroscopy. <i>Journal of Applied Physics</i> , 2004 , 96, 3811-3817	2.5	25
70	Multi-functional properties of CaCu ₃ Ti ₄ O ₁₂ thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 054512	2.5	24
69	Tin-doped indium oxide nanobelts grown by carbothermal reduction method. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 23-25	2.6	24
68	Electrical and Optical Properties of Conductive and Transparent Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12946-12952	3.8	23
67	The Influence of Excess Precipitate on the Non-Ohmic Properties of SnO ₂ -Based Varistors 2003 , 10, 63-68		22
66	Nonohmic behavior of SnO ₂ -MnO polycrystalline ceramics. I. Correlations between microstructural morphology and nonohmic features. <i>Journal of Applied Physics</i> , 2004 , 96, 2693-2700	2.5	21
65	High gas sensor performance of WO ₃ nanofibers prepared by electrospinning. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158745	5.7	21

64	Controlled synthesis of layered Sn ₃ O ₄ nanobelts by carbothermal reduction method and their gas sensor properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 6662-8	1.3	20
63	Visible light-driven photoelectrocatalytic degradation of acid yellow 17 using Sn ₃ O ₄ flower-like thin films supported on Ti substrate (Sn ₃ O ₄ /TiO ₂ /Ti). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 376, 196-205	4.7	20
62	Monitoring a CuO gas sensor at work: an advanced in situ X-ray absorption spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18761-7	3.6	18
61	Insight into Copper-Based Catalysts: Microwave-Assisted Morphosynthesis, In Situ Reduction Studies, and Dehydrogenation of Ethanol. <i>ChemCatChem</i> , 2011 , 3, 839-843	5.2	18
60	Controlling the breakdown electric field in SnO ₂ based varistors by the insertion of SnO ₂ nanobelts. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1535-1540	6	16
59	Cellulosic material obtained from Antarctic algae biomass. <i>Cellulose</i> , 2020 , 27, 113-126	5.5	16
58	Photoelectrocatalytic oxidation of hair dye basic red 51 at W/WO ₃ /TiO ₂ bicomposite photoanode activated by ultraviolet and visible radiation. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 194-199	6.8	15
57	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	15
56	Grain-Boundary Resistance and Nonlinear Coefficient Correlation for SnO ₂ -Based Varistors. <i>Materials Research</i> , 2016 , 19, 1286-1291	1.5	15
55	Influence of processing parameters on nanomaterials synthesis efficiency by a carbothermal reduction process. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2081-2088	2.3	14
54	Tungsten oxide ion gel-gated transistors: how structural and electrochemical properties affect the doping mechanism. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1980-1987	7.1	13
53	Layered BiMoO ₃ nanoplates for gas sensing applications. <i>CrystEngComm</i> , 2020 , 22, 4640-4649	3.3	12
52	Gas sensing and conductivity relationship on nanoporous thin films: A CaCu ₃ Ti ₄ O ₁₂ case study. <i>Thin Solid Films</i> , 2016 , 604, 69-73	2.2	12
51	A Gas Sensor Based on a Single SnO Micro-Disk. <i>Sensors</i> , 2018 , 18,	3.8	12
50	Feasible and Clean Solid-Phase Synthesis of LiNbO ₃ by Microwave-Induced Combustion and Its Application as Catalyst for Low-Temperature Aniline Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1680-1691	8.3	11
49	Accelerated microwave-assisted hydrothermal/solvothermal processing: Fundamentals, morphologies, and applications. <i>Journal of Electroceramics</i> , 2018 , 40, 271-292	1.5	11
48	High-performance and low-voltage SnO ₂ -based varistors. <i>Ceramics International</i> , 2017 , 43, 13759-13764	5.1	11
47	Structure of the Electrical Double Layer at the Interface between an Ionic Liquid and Tungsten Oxide in Ion-Gated Transistors. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3257-3262	6.4	11

46	Tunable graphene oxide inter-sheet distance to obtain graphene oxide-silver nanoparticle hybrids. <i>New Journal of Chemistry</i> , 2019 , 43, 1285-1290	3.6	10
45	Microstructure and electrical properties of (Ta, Co, Pr) doped TiO ₂ based electroceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2010 , 21, 246-251	2.1	10
44	The effect of TiO ₂ on the microstructural and electrical properties of low voltage varistor based on (Sn,Ti)O ₂ ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 457-461	1.6	10
43	Cerâmicas eletrônicas à base de SnO ₂ e TiO ₂ . <i>Ceramica</i> , 2001 , 47, 136-143	1	10
42	Probing the effects of oxygen-related defects on the optical and luminescence properties in CaCu ₃ Ti ₄ O ₁₂ ceramics. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5002-5006	6	9
41	Morphological modifications and surface amorphization in ZnO sonochemically treated nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 799-804	8.9	9
40	Sonochemical Synthesis and Magnetism in Co-doped ZnO Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 2515-2519	1.5	9
39	Nonohmic behavior of SnO ₂ .MnO ₂ -based ceramics. <i>Materials Research</i> , 2003 , 6, 279-283	1.5	8
38	Study of intense photoluminescence from monodispersed BiGa ₂ O ₃ ellipsoidal structures. <i>Ceramics International</i> , 2019 , 45, 5023-5029	5.1	8
37	Tungsten oxide ion-gated phototransistors using ionic liquid and aqueous gating media. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 305102	3	7
36	Qualitative evaluation of active potential barriers in SnO ₂ -based polycrystalline devices by electrostatic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 87, 793-796	2.6	7
35	Superior performance of rGO-tin oxide nanocomposite for selective reduction of CO ₂ to methanol. <i>Journal of CO₂ Utilization</i> , 2021 , 46, 101460	7.6	7
34	Sn ₃ O ₄ exfoliation process investigated by density functional theory and modern scotch-tape experiment. <i>Computational Materials Science</i> , 2019 , 170, 109160	3.2	6
33	Heating Method Effect on SnO Micro-Disks as NO ₂ Gas Sensor. <i>Frontiers in Materials</i> , 2019 , 6,	4	6
32	Effect of controlled conductivity on thermal sensing property of Bi pyroelectric composite. <i>Smart Materials and Structures</i> , 2013 , 22, 025015	3.4	6
31	Carbon-coated SnO ₂ nanobelts and nanoparticles by single catalytic step. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 955-963	2.3	6
30	Influence of Synthesis Route on the Radiation Sensing Properties of ZnO Nanostructures. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-9	3.2	6
29	(Ta, Cr)-doped {Ti}O ₂ electroceramic systems. <i>Journal of Materials Science: Materials in Electronics</i> , 2006 , 17, 79-84	2.1	5

28	Ultrafast Growth of h-MoO ₃ Microrods and Its Acetone Sensing Performance. <i>Surfaces</i> , 2021 , 4, 9-16	2.9	5
27	SnO ₂ nanoparticles functionalized in amorphous silica and glass. <i>Powder Technology</i> , 2009 , 195, 91-95	5.2	4
26	Influence of thermal annealing treatment in oxygen atmosphere on grain boundary chemistry and non-ohmic properties of SnO ₂ /MnO polycrystalline semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 383-388	1.6	4
25	Carbothermal Reduction Synthesis: An Alternative Approach to Obtain Single-Crystalline Metal Oxide Nanostructures 2017 , 43-67		4
24	Tin oxide materials 2020 , 1-9		4
23	Chemical composition and morphology study of bovine enamel submitted to different sterilization methods. <i>Clinical Oral Investigations</i> , 2018 , 22, 733-744	4.2	3
22	Dependence of annealing time on structural and morphological properties of Ca(Zr _{0.05} Ti _{0.95})O ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2008 , 453, 386-391	5.7	3
21	Novel aspects of the purpose-built materials strategy: evidence of topographic template effect and oriented attachment growth mechanism. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3447-53	1.3	3
20	Facile preparation of a novel biomass-derived H ₃ PO ₄ and Mn(NO ₃) ₂ activated carbon from citrus bergamia peels for high-performance supercapacitors. <i>Materials Today Communications</i> , 2021 , 26, 101779	2.5	3
19	Coalescence growth mechanism of inserted tin dioxide belts in polycrystalline SnO ₂ -based ceramics. <i>Materials Characterization</i> , 2018 , 142, 289-294	3.9	3
18	Influence of pH in Obtaining Indium Tin Oxide Nanoparticles by Microwave Assisted Solvothermal Method. <i>Materials Research</i> , 2018 , 21,	1.5	2
17	Flexible composite via rapid titania coating by microwave-assisted hydrothermal synthesis. <i>Bulletin of Materials Science</i> , 2017 , 40, 499-504	1.7	2
16	Damage Detection and Quantification Using Thin Film of ITO Nanocomposites. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 207-213	0.3	2
15	Temperature dependence of electron properties of Sn doped nanobelts. <i>Physica B: Condensed Matter</i> , 2007 , 400, 243-247	2.8	2
14	Real-Time Monitoring of Electrochromic Memory Loss of Layered h-MoO ₃ Nanoplates. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 166509	3.9	2
13	Varistor technology based on SnO ₂ 2020 , 321-343		2
12	The role of surface stoichiometry in NO gas sensing using single and multiple nanobelts of tin oxide. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9733-9742	3.6	2
11	Study ITO@PMMA Composites by Transmission Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		1

10	Efeito do Pr ₂ O ₃ nas propriedades elétricas de varistores à base de SnO ₂ . <i>Ceramica</i> , 2003 , 49, 232-236	1	1
9	Ab initio investigation of the role of charge transfer in the adsorption properties of H ₂ , N ₂ , O ₂ , CO, NO, CO ₂ , NO ₂ , and CH ₄ on the van der Waals layered Sn ₃ O ₄ semiconductor. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
8	Development and Characterization of an ITO Nanocomposite Film Sensor for Damage Detection. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 1-7	0.3	1
7	Methods for characterization and evaluation of chemoresistive nanosensors 2020 , 63-83		0
6	Exploring ZnO nanostructures with reduced graphene oxide in layer-by-layer films as supercapacitor electrodes for energy storage. <i>Journal of Materials Science</i> , 2022 , 57, 7023-7034	4.3	0
5	Oxide Ceramics: The Role of Surface and Grain Boundaries for Reliable Functional Applications 2015 , 415-426		
4	Detection of H ₂ facilitated by ionic liquid gating of tungsten oxide films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 013202	2.9	
3	Nanofitas de Óxido de estanho: controle do estado de oxidação pela atmosfera de síntese. <i>Ceramica</i> , 2004 , 50, 58-61	1	
2	Structural, thermal, vibrational, and optical characterization of SnS ₂ /Se dichalcogenide system synthesized by high-energy ball milling. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 157, 110203	3.9	
1	Emerging Chemical Sensing Technologies: Recent Advances and Future Trends. <i>Surfaces</i> , 2022 , 5, 318-320	1.9	