

Valmor R Mastelaro

List of Publications by Year in Descending Order

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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.

34 papers	932 citations	16 h-index	30 g-index
36 ext. papers	1,130 ext. citations	5 avg, IF	4.37 L-index

#	Paper	IF	Citations
34	Tunning the Gas Sensing Properties of rGO with In ₂ O ₃ Nanoparticles. <i>Surfaces</i> , 2022 , 5, 127-142	2.9	0
33	CuO nanoparticles decorated on hydroxyapatite/ferrite magnetic support: photocatalysis, cytotoxicity, and antimicrobial response.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
32	Cu-Modified SrTiO ₃ Perovskites Toward Enhanced Water Gas Shift Catalysis: A Combined Experimental and Computational Study. <i>ACS Applied Energy Materials</i> , 2021 , 4, 452-461	6.1	5
31	Experimental and Theoretical Insights into the Structural Disorder and Gas Sensing Properties of ZnO. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1447-1457	4	7
30	XPS Study of Long-Term Passivation of GaAs Surfaces Using Saturated Ammonium Sulfide Solution under Optimum Condition. <i>Russian Journal of Electrochemistry</i> , 2021 , 57, 471-477	1.2	1
29	A global pollutant (PVC-polyvinyl chloride) applied as heavy metal binder from aqueous samples: green principles from synthesis to application. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-13	2.6	1
28	Enhancement of Ammonia Gas Sensing Properties of GaAs-Based Schottky Diodes Using Ammonium Sulfide Surface Passivation. <i>IEEE Sensors Journal</i> , 2021 , 21, 4209-4215	4	1
27	Cellulose nanofibers production using a set of recombinant enzymes. <i>Carbohydrate Polymers</i> , 2021 , 256, 117510	10.3	12
26	Exploiting oxidative coupling of methane performed over La ₂ (Ce _{1-x} Mgx) ₂ O ₇ catalysts with disordered defective cubic fluorite structure. <i>Catalysis Science and Technology</i> , 2021 , 11, 4471-4481	5.5	4
25	Doped Plasmonic Zinc Oxide Nanoparticles with Near-Infrared Absorption for Antitumor Activity. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9779-9789	5.6	1
24	Unvealing the role of AgMoO ₄ microcrystals to the improvement of antibacterial activity. <i>Materials Science and Engineering C</i> , 2020 , 111, 110765	8.3	23
23	Graphene Oxide as a Platform for Copper Pentacyanonitrosylferrate Nanoparticles and their Behavior in the Electro-oxidation of N-Acetylcysteine. <i>Electroanalysis</i> , 2020 , 32, 1408-1416	3	2
22	One-Step Synthesis of Nickel Sulfides and Their Electrocatalytic Activities for Hydrogen Evolution Reaction: A Case Study of Crystalline h-NiS and o-Ni ₉ S ₈ Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9498-9503	6.1	5
21	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. <i>Mikrochimica Acta</i> , 2019 , 186, 418	5.8	57
20	Crystallization mechanism and kinetics of a Fe-diopside (25CaO-25MgO-50SiO ₂) glass-ceramic. <i>Journal of Materials Science</i> , 2019 , 54, 9313-9320	4.3	3
19	One-Dimensional V ₂ O ₅ /TiO ₂ Heterostructures for Chemiresistive Ozone Sensors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4756-4764	5.6	28
18	Development of Co ₃ [Co(CN) ₆] ₂ /Fe ₃ O ₄ Bifunctional Nanocomposite for Clinical Sensor Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4283-4293	5.6	17

17	X-ray Absorption Fine Structure (XAFS) Studies of Oxide Glasses-A 45-Year Overview. <i>Materials</i> , 2018 , 11,	3.5	32
16	The Role of Nb Addition in TiO ₂ Nanoparticles: Phase Transition and Photocatalytic Properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800321	1.6	6
15	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
14	The Role of Nb Addition in TiO ₂ Nanoparticles: Phase Transition and Photocatalytic Properties (Phys. Status Solidi A 210018). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1870049	1.6	1
13	UV-enhanced ozone gas sensing response of ZnO-SnO ₂ heterojunctions at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 573-579	8.5	80
12	In situ study of copper reduction in SrTi _{1-x} Cu _x O ₃ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2070-9	3.6	10
11	Potentiometric detection of chemical species by spin-assisted assembly of vanadium pentoxide nanorods. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 461-465	8.5	8
10	Local Structure and Surface Properties of CoZnO Thin Films for Ozone Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26066-26072	9.5	45
9	One-step approach for preparing ozone gas sensors based on hierarchical NiCo ₂ O ₄ structures. <i>RSC Advances</i> , 2016 , 6, 92655-92662	3.7	94
8	Ozone and nitrogen dioxide gas sensor based on a nanostructured SrTi _{0.85} Fe _{0.15} O ₃ thin film. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 374-379	5.7	37
7	An easy method of preparing ozone gas sensors based on ZnO nanorods. <i>RSC Advances</i> , 2015 , 5, 19528-19533	3.7	58
6	A novel ozone gas sensor based on one-dimensional (1D) Ag ₂ WO ₄ nanostructures. <i>Nanoscale</i> , 2014 , 6, 4058-62	7.7	92
5	Ion-sensing properties of 1D vanadium pentoxide nanostructures. <i>Nanoscale Research Letters</i> , 2012 , 7, 310	5	21
4	Internal Residual Stress Measurements in a Bioactive Glass/Ceramic Using Vickers Indentation. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2359-2368	3.8	16
3	Growth kinetics of vanadium pentoxide nanostructures under hydrothermal conditions. <i>Journal of Crystal Growth</i> , 2010 , 312, 3555-3559	1.6	23
2	Vanadium Pentoxide Nanostructures: An Effective Control of Morphology and Crystal Structure in Hydrothermal Conditions. <i>Crystal Growth and Design</i> , 2009 , 9, 3626-3631	3.5	97
1	A high-throughput, solvent free method for dispersing metal atoms directly onto supports. <i>Journal of Materials Chemistry A</i> ,	13	