

Mirela Petruta Suchea

List of Publications by Year in descending order

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79
papers

1,810
citations

394421

19
h-index

276875

41
g-index

79
all docs

79
docs citations

79
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO transparent thin films for gas sensor applications. <i>Thin Solid Films</i> , 2006, 515, 551-554.	1.8	290
2	Comparative study of zinc oxide and aluminum doped zinc oxide transparent thin films grown by direct current magnetron sputtering. <i>Thin Solid Films</i> , 2007, 515, 6562-6566.	1.8	179
3	Preparation and characterization of Ni, Co doped ZnO nanoparticles for photocatalytic applications. <i>Applied Surface Science</i> , 2018, 448, 481-488.	6.1	130
4	Preparation of La doped ZnO ceramic nanostructures by electrospinning+calcination method: Effect of La ³⁺ doping on optical and photocatalytic properties. <i>Applied Surface Science</i> , 2019, 476, 16-27.	6.1	110
5	Low temperature indium oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 135-141.	7.8	80
6	Thickness influence on surface morphology and ozone sensing properties of nanostructured ZnO transparent thin films grown by PLD. <i>Applied Surface Science</i> , 2006, 252, 5351-5354.	6.1	65
7	Highly sensitive layered ZnO/LiNbO ₃ SAW device with InO _x selective layer for NO ₂ and H ₂ gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 207-212.	7.8	57
8	Biocompatible pure ZnO nanoparticles-3D bacterial cellulose biointerfaces with antibacterial properties. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3521-3533.	4.9	56
9	Influence of thickness and growth temperature on the optical and electrical properties of ZnO thin films. <i>Thin Solid Films</i> , 2009, 517, 4303-4306.	1.8	53
10	A study of the electromagnetic shielding mechanisms in the GHz frequency range of graphene based composite layers. <i>Applied Surface Science</i> , 2017, 398, 15-18.	6.1	49
11	The Mechanical and Physical Properties of 3D-Printed Materials Composed of ABS-ZnO Nanocomposites and ABS-ZnO Microcomposites. <i>Micromachines</i> , 2020, 11, 615.	2.9	46
12	Correlation of ZnO thin film surface properties with conductivity. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 57-61.	2.3	44
13	Structural characterization of ZnO thin films deposited by dc magnetron sputtering. <i>Thin Solid Films</i> , 2007, 515, 8577-8581.	1.8	36
14	Antibacterial efficiency of cellulose-based fibers covered with ZnO and Al ₂ O ₃ by Atomic Layer Deposition. <i>Applied Surface Science</i> , 2019, 481, 1287-1298.	6.1	36
15	The effect of Au and Pt nanoclusters on the structural and hydrogen sensing properties of SnO ₂ thin films. <i>Thin Solid Films</i> , 2009, 518, 1109-1113.	1.8	35
16	Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155144.	5.5	33
17	New La ³⁺ doped TiO ₂ nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings. <i>Ceramics International</i> , 2022, 48, 4953-4964.	4.8	29
18	Substrate temperature influence on the properties of nanostructured ZnO transparent ultrathin films grown by PLD. <i>Applied Surface Science</i> , 2007, 253, 8141-8145.	6.1	26

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19	3D Printed Fully Recycled TiO ₂ -Polystyrene Nanocomposite Photocatalysts for Use against Drug Residues. <i>Nanomaterials</i> , 2020, 10, 2144.	4.1	23
20	Zinc oxide application in the textile industry: surface tailoring and water barrier attributes as parameters with direct implication in comfort performance. <i>Textile Reseach Journal</i> , 2013, 83, 2142-2151.	2.2	20
21	Atmospheric Pressure Chemical Vapor Deposition Of Amorphous Tungsten Doped Vanadium Dioxide For Smart Window Applications. <i>Advanced Materials Letters</i> , 2016, 7, 192-196.	0.6	19
22	Innovative Ag-TiO ₂ Nanofibers with Excellent Photocatalytic and Antibacterial Actions. <i>Catalysts</i> , 2021, 11, 1234.	3.5	18
23	Surface characterization of ZnO transparent thin films. <i>Journal of Physics: Conference Series</i> , 2005, 10, 147-150.	0.4	17
24	Structural and morphological properties of thin ZnO films grown by pulsed laser deposition. <i>Applied Surface Science</i> , 2008, 254, 5475-5480.	6.1	17
25	Zinc oxide-graphene based composite layers for electromagnetic interference shielding in the GHz frequency range. <i>Thin Solid Films</i> , 2018, 651, 152-157.	1.8	17
26	Electrochromic Performance of V ₂ O ₅ Thin Films Grown by Spray Pyrolysis. <i>Materials</i> , 2020, 13, 3859.	2.9	17
27	Nanostructured composite layers for electromagnetic shielding in the GHz frequency range. <i>Applied Surface Science</i> , 2015, 352, 151-154.	6.1	14
28	Spinel nanoparticles on stick-like Freudenbergite nanocomposites as effective smart-removal photocatalysts for the degradation of organic pollutants under visible light. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153403.	5.5	14
29	Cu/TiO ₂ composite nanofibers with improved photocatalytic performance under UV and UV-visible light irradiation. <i>Surfaces and Interfaces</i> , 2022, 28, 101644.	3.0	14
30	Europium and samarium doped calcium sulfide thin films grown by PLD. <i>Applied Surface Science</i> , 2007, 253, 8169-8173.	6.1	13
31	Pure and Nb ₂ O ₅ -doped TiO ₂ amorphous thin films grown by dc magnetron sputtering at room temperature: Surface and photo-induced hydrophilic conversion studies. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 144, 54-59.	3.5	13
32	Surface Morphology Effects on Photocatalytic Activity of Metal Oxides Nanostructured Materials Immobilized onto Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 295-306.	0.9	13
33	SnO ₂ and Ni doped SnO ₂ /polythiophene nanocomposites for gas sensing applications. <i>Solid State Electronics Letters</i> , 2020, 2, 85-91.	1.0	13
34	Effect of Graphene Nanoplatelets on the Structure, the Morphology, and the Dielectric Behavior of Low-Density Polyethylene Nanocomposites. <i>Materials</i> , 2020, 13, 4776.	2.9	13
35	CaS:Eu,Sm and CaS:Ce,Sm films grown by embedding active powder into an inert matrix. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 150, 130-134.	3.5	12
36	Tuning electrical properties of polythiophene/nickel nanocomposites via fabrication. <i>Materials and Design</i> , 2019, 182, 108027.	7.0	12

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37	Chemical and physical methods for multifunctional nanostructured interface fabrication. , 2019, , 15-26.		12
38	Annealing Effect on the Properties of Electrochromic V2O5 Thin Films Grown by Spray Deposition Technique. Nanomaterials, 2020, 10, 2397.	4.1	12
39	Photocatalytic Properties of Eco-Friendly ZnO Nanostructures on 3D-Printed Polylactic Acid Scaffolds. Nanomaterials, 2021, 11, 168.	4.1	11
40	ZnO for photocatalytic air purification applications. IOP Conference Series: Materials Science and Engineering, 2016, 133, 012040.	0.6	10
41	Thickness Effect on Some Physical Properties of RF Sputtered ZnTe Thin Films for Potential Photovoltaic Applications. Nanomaterials, 2021, 11, 2286.	4.1	10
42	Novel Water-Based Paints for Composite Materials Used in Electromagnetic Shielding Applications. Nanomaterials, 2022, 12, 487.	4.1	10
43	Comparative Study of Graphene Nanoplatelets and Multiwall Carbon Nanotubes-Polypropylene Composite Materials for Electromagnetic Shielding. Nanomaterials, 2022, 12, 2411.	4.1	8
44	Metal oxide thin films as sensing layers for ozone detection. Analytica Chimica Acta, 2006, 573-574, 9-13.	5.4	7
45	Electrochemical Deposition of Zinc Oxide on the Surface of Composite Membrane Polysulfone-Graphene-Polystyrene in the Presence of Water Soluble Polymers. Journal of Nanomaterials, 2017, 2017, 1-11.	2.7	7
46	Carbon-based nanocomposites for EMI shielding: Recent advances. , 2020, , 201-211.		7
47	Structural Investigations in Electrochromic Vanadium Pentoxide Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100431.	1.8	7
48	Electromagnetic Shielding of Composite Films Based on Graphite, Graphitized Carbon Black and Iron-Oxide. Coatings, 2022, 12, 665.	2.6	7
49	Graphene and TiO ₂ - PVDF Nanocomposites for Potential Applications in Triboelectronics. , 2018, , .		6
50	Nanoparticle/biopolymer-based coatings for functionalization of textiles: recent developments (a) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	6
51	WO3 Films Grown by Spray Pyrolysis for Smart Windows Applications. Coatings, 2022, 12, 545.	2.6	6
52	Carbon Allotropes-Based Paints and Their Composite Coatings for Electromagnetic Shielding Applications. Nanomaterials, 2022, 12, 1839.	4.1	6
53	Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrates. Acta Chimica Iasi, 2013, 21, 107-118.	0.1	4
54	Correlation between Surface Engineering and Deformation Response of Some Natural Polymer Fibrous Systems. Journal of Engineered Fibers and Fabrics, 2018, 13, 155892501801300.	1.0	4

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55	Electrospun TiO ₂ -based nanofiber composites and their bio-related and environmental applications. , 2019, , 307-321.		4
56	Evaluation of Adsorption Capacity of Montmorillonite and Aluminium-pillared Clay for Pb ²⁺ , Cu ²⁺ and Zn ²⁺ . Acta Chimica Slovenica, 2015, 62, 947-957.	0.6	4
57	Zinc oxide films chemically grown onto rigid and flexible substrates for TFT applications. Physica B: Condensed Matter, 2010, 405, 4389-4392.	2.7	3
58	TiO ₂ -based nanostructured materials with germicidal properties and other applications in biomedical fields. , 2019, , 323-339.		3
59	Effect of Zinc Oxide concentration on the dielectric properties of 3D Printed Acrylonitrile Butadiene Styrene nanocomposites. , 2019, , .		3
60	Obtaining Nanostructured ZnO onto Si Coatings for Optoelectronic Applications via Eco-Friendly Chemical Preparation Routes. Nanomaterials, 2021, 11, 2490.	4.1	3
61	3D Printed Metal Oxide-Polymer Composite Materials for Antifouling Applications. Nanomaterials, 2022, 12, 917.	4.1	3
62	Ultra sensitive low temperature metal oxide gas sensors. , 0, , .		2
63	Applications of metallic nanostructures in biomedical field. , 2019, , 341-361.		2
64	ZnO Thin Films for Cantilever Coatings: Structural and Mechanical Properties, Observations of Photoplastic Effect. Sensor Letters, 2008, 6, 558-563.	0.4	2
65	Early Notice Pointer, an IoT-like Platform for Point-of-Care Feet and Body Balance Screening. Micromachines, 2022, 13, 682.	2.9	2
66	Surface characteristics of In and Zn oxides by atomic force microscopy. , 0, , .		1
67	Sensing using nanostructured metal oxide thin films. , 2006, , .		1
68	Nano-structural and surface characteristics of non-stoichiometric In ₂ O _{3-x} thin films. International Journal of Nanotechnology, 2009, 6, 208.	0.2	1
69	Graphene-based materials and their biomedical and environmental applications: Recent advances. , 2019, , 243-257.		1
70	Nanostructured ZnO-based materials for biomedical and environmental applications. , 2019, , 285-305.		1
71	Comparative study on field collected samples of aged silicon rubber composite coatings for high voltage insulators. Acta Chemica Iasi, 2013, 21, 93-106.	0.1	1
72	Surface characteristics and tribology study of metal oxide thin films. Tribology - Materials, Surfaces and Interfaces, 2008, 2, 225-231.	1.4	0

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73	Methods for Art Preservation and Restauration. Identification of Parameters for Potential Monitoring the Temporal Evolution of Putties. , 2018, , .		0
74	Comparative Study of Sm and La Doped ZnO Properties. , 2018, , .		0
75	Multifunctional nanostructured interfaces: Origin and challenges for biomedical and environmental applications. , 2019, , 1-14.		0
76	Direct writing of Prussian blue patterns down to micrometer scale: preliminary tests results. , 2019, , .		0
77	Atmospheric Pressure Chemical Vapor Deposition of Vanadium Oxides at 300 Å°C for Li-Ion Batteries. Materials Focus, 2017, 6, 314-318.	0.4	0
78	The Effect Of Au Nanoclusters In Tin OxIde Film Gas Sensors. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 219-222.	0.3	0
79	Integration of Micro-Structured Photovoltaic Cells into the Ultra-Light Wing Structure for Extended Range Unmanned Aerial Vehicles. Applied Sciences (Switzerland), 2021, 11, 10890.	2.5	0