

Daniela Nunes

List of Publications by Year in descending order

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87
papers

2,682
citations

249298

26
h-index

223390

49
g-index

87
all docs

87
docs citations

87
times ranked

4213
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxide nanostructures for sensor applications. <i>Semiconductor Science and Technology</i> , 2019, 34, 043001.	1.0	201
2	TiO ₂ /Cu ₂ O all-oxide heterojunction solar cells produced by spray pyrolysis. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 549-556.	3.0	155
3	Multifunctional cellulose-paper for light harvesting and smart sensing applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3143-3181.	2.7	147
4	WO ₃ Nanoparticle-Based Conformable pH Sensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12226-12234.	4.0	140
5	Synthesis of Long ZnO Nanorods under Microwave Irradiation or Conventional Heating. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14629-14639.	1.5	120
6	Imidazole: Prospect Solvent for Lignocellulosic Biomass Fractionation and Delignification. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1643-1652.	3.2	117
7	Effect of solvents on ZnO nanostructures synthesized by solvothermal method assisted by microwave radiation: a photocatalytic study. <i>Journal of Materials Science</i> , 2015, 50, 5777-5787.	1.7	105
8	Imaging the Anomalous Charge Distribution Inside CsPbBr ₃ Perovskite Quantum Dots Sensitized Solar Cells. <i>ACS Nano</i> , 2017, 11, 10214-10221.	7.3	103
9	Microwave Synthesized ZnO Nanorod Arrays for UV Sensors: A Seed Layer Annealing Temperature Study. <i>Materials</i> , 2016, 9, 299.	1.3	83
10	Effect of Mg doping on Cu ₂ O thin films and their behavior on the TiO ₂ /Cu ₂ O heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 27-36.	3.0	73
11	Synthesis of WO ₃ nanoparticles for biosensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 186-194.	4.0	71
12	Ultra-Fast Microwave Synthesis of ZnO Nanorods on Cellulose Substrates for UV Sensor Applications. <i>Materials</i> , 2017, 10, 1308.	1.3	65
13	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. <i>Catalysts</i> , 2017, 7, 60.	1.6	58
14	Cellulose: A Contribution for the Zero eWaste Challenge. <i>Advanced Materials Technologies</i> , 2021, 6, .	3.0	56
15	Highly efficient nanoplasmonic SERS on cardboard packaging substrates. <i>Nanotechnology</i> , 2014, 25, 415202.	1.3	54
16	Smart optically active VO ₂ nanostructured layers applied in roof-type ceramic tiles for energy efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2016, 150, 1-9.	3.0	52
17	Syngas production by electrochemical CO ₂ reduction in an ionic liquid based-electrolyte. <i>Journal of CO₂ Utilization</i> , 2017, 18, 62-72.	3.3	52
18	Influence of the Substrate on the Morphology of Self-Assembled Silver Nanoparticles by Rapid Thermal Annealing. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18235-18242.	1.5	47

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19	Nickel-carbon nanocomposites: Synthesis, structural changes and strengthening mechanisms. <i>Acta Materialia</i> , 2012, 60, 737-747.	3.8	44
20	Metal Oxide-Based Photocatalytic Paper: A Green Alternative for Environmental Remediation. <i>Catalysts</i> , 2021, 11, 504.	1.6	43
21	High UV and Sunlight Photocatalytic Performance of Porous ZnO Nanostructures Synthesized by a Facile and Fast Microwave Hydrothermal Method. <i>Materials</i> , 2021, 14, 2385.	1.3	41
22	3D ZnO/Ag Surface-Enhanced Raman Scattering on Disposable and Flexible Cardboard Platforms. <i>Materials</i> , 2017, 10, 1351.	1.3	40
23	Cu ₂ O polyhedral nanowires produced by microwave irradiation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6097.	2.7	39
24	Photocatalytic behavior of TiO ₂ films synthesized by microwave irradiation. <i>Catalysis Today</i> , 2016, 278, 262-270.	2.2	37
25	Fungal biodeterioration of stained-glass windows. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 152-160.	1.9	36
26	Solvothermal Synthesis of Gallium-Indium-Zinc-Oxide Nanoparticles for Electrolyte-Gated Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 638-646.	4.0	35
27	Synthesis, design, and morphology of metal oxide nanostructures. , 2019, , 21-57.		32
28	Ultra-fast plasmonic back reflectors production for light trapping in thin Si solar cells. <i>Solar Energy</i> , 2018, 174, 786-792.	2.9	26
29	Using a bacterial fucose-rich polysaccharide as encapsulation material of bioactive compounds. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1099-1106.	3.6	25
30	Enhanced UV Flexible Photodetectors and Photocatalysts Based on TiO ₂ Nanoplatforms. <i>Topics in Catalysis</i> , 2018, 61, 1591-1606.	1.3	24
31	Mapping the space charge carrier dynamics in plasmon-based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19811-19819.	5.2	24
32	Tailoring Upconversion and Morphology of Yb/Eu Doped Y ₂ O ₃ Nanostructures by Acid Composition Mediation. <i>Nanomaterials</i> , 2019, 9, 234.	1.9	24
33	Production of Cu/diamond composites for first-wall heat sinks. <i>Fusion Engineering and Design</i> , 2011, 86, 2589-2592.	1.0	23
34	One-step synthesis of ZnO decorated CNT buckypaper composites and their optical and electrical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 195, 38-44.	1.7	23
35	Seed-Layer Free Zinc Tin Oxide Tailored Nanostructures for Nanoelectronic Applications: Effect of Chemical Parameters. <i>ACS Applied Nano Materials</i> , 2018, 1, 3986-3997.	2.4	22
36	Synergistic helium and deuterium blistering in tungsten-tantalum composites. <i>Journal of Nuclear Materials</i> , 2013, 442, 69-74.	1.3	21

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37	Oxide-Based Solar Cell: Impact of Layer Thicknesses on the Device Performance. ACS Combinatorial Science, 2017, 19, 113-120.	3.8	21
38	TiO ₂ Nanostructured Films for Electrochromic Paper Based-Devices. Applied Sciences (Switzerland), 2020, 10, 1200.	1.3	21
39	Mechanical synthesis of copper-carbon nanocomposites: Structural changes, strengthening and thermal stabilization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8610-8620.	2.6	20
40	Development of multicore hybrid particles for drug delivery through the precipitation of CO ₂ saturated emulsions. International Journal of Pharmaceutics, 2015, 478, 9-18.	2.6	19
41	Design and Simple Assembly of Gold Nanostar Bioconjugates for Surface-Enhanced Raman Spectroscopy Immunoassays. Nanomaterials, 2019, 9, 1561.	1.9	19
42	Fast and Low-Cost Synthesis of MoS ₂ Nanostructures on Paper Substrates for Near-Infrared Photodetectors. Applied Sciences (Switzerland), 2021, 11, 1234.	1.3	19
43	Paper-Based Nanoplatfoms for Multifunctional Applications. Journal of Nanomaterials, 2019, 2019, 1-16.	1.5	18
44	Photonic-structured TCO front contacts yielding optical and electrically enhanced thin-film solar cells. Solar Energy, 2020, 196, 92-98.	2.9	17
45	Observation of Space Charge Dynamics Inside an All Oxide Based Solar Cell. ACS Nano, 2016, 10, 6139-6146.	7.3	16
46	High-performance wide bandgap perovskite solar cells fabricated in ambient high-humidity conditions. Materials Advances, 2021, 2, 6344-6355.	2.6	15
47	Consolidation of Cu-nDiamond Nanocomposites: Hot Extrusion vs Spark Plasma Sintering. Materials Science Forum, 2010, 636-637, 682-687.	0.3	14
48	Charging effects and surface potential variations of Cu-based nanowires. Thin Solid Films, 2016, 601, 45-53.	0.8	14
49	Enhanced electrical and photocatalytic properties of porous TiO ₂ thin films decorated with Fe ₂ O ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 20753-20773.	1.1	14
50	Room Temperature Synthesis of Cu ₂ O Nanospheres: Optical Properties and Thermal Behavior. Microscopy and Microanalysis, 2015, 21, 108-119.	0.2	13
51	Enhanced Fe-TiO ₂ Solar Photocatalysts on Porous Platforms for Water Purification. Nanomaterials, 2022, 12, 1005.	1.9	13
52	Microstructural characterization of the ODS Eurofer 97 EU-batch. Fusion Engineering and Design, 2011, 86, 2386-2389.	1.0	12
53	Tungsten-carbon nanodiamond composite powders produced by ball milling. Journal of Nuclear Materials, 2012, 426, 115-119.	1.3	12
54	The effect of three luminescent ionic liquids on corroded glass surfaces - A first step into stained-glass cleaning. Corrosion Science, 2017, 118, 109-117.	3.0	12

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55	Industrial Waste Residue Converted into Value-Added ZnO for Optoelectronic Applications. ACS Applied Electronic Materials, 2020, 2, 1960-1969.	2.0	12
56	Ultrafast Microwave Synthesis of WO ₃ Nanostructured Films for Solar Photocatalysis. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100196.	1.2	12
57	Helium and deuterium irradiation effects in W-Ta composites produced by pulse plasma compaction. Journal of Nuclear Materials, 2017, 492, 105-112.	1.3	11
58	Flexible nanostructured TiO ₂ -based gas and UV sensors: a review. Discover Materials, 2022, 2, .	1.0	11
59	Photocatalytic Activity of TiO ₂ Nanostructured Arrays Prepared by Microwave-Assisted Solvothermal Method. , 0, , .		8
60	Enhanced solar photocatalysis of TiO ₂ nanoparticles and nanostructured thin films grown on paper. Nano Express, 2021, 2, 040002.	1.2	8
61	Microstructural evolution in tungsten and copper probes under hydrogen irradiation at ISTTOK. Journal of Nuclear Materials, 2009, 390-391, 1039-1042.	1.3	7
62	Magnetic microstructure of YFe ₁₁ Ti aggregates. Journal of Alloys and Compounds, 2009, 487, 11-17.	2.8	6
63	Tungstenâ€“microdiamond composites for plasma facing components. Journal of Nuclear Materials, 2011, 416, 45-48.	1.3	6
64	Performances of Microcrystalline Zinc Tin Oxide Thin-Film Transistors Processed by Spray Pyrolysis. Journal of Display Technology, 2013, 9, 825-831.	1.3	6
65	Structural, optical, and electronic properties of metal oxide nanostructures. , 2019, , 59-102.		6
66	Novel Approach to Plasma Facing Materials in Nuclear Fusion Reactors. AIP Conference Proceedings, 2008, , .	0.3	5
67	Microstructures and magnetic domain configurations of NdFe ₁₁ Ti and Nd ₂ (Fe,Ti) ₁₇ aggregates. Applied Physics A: Materials Science and Processing, 2011, 104, 1053-1060.	1.1	4
68	Green Nanotechnology from Waste Carbonâ€“Polyaniline Composite: Generation of Wavelengthâ€“Independent Multiband Photoluminescence for Sensitive Ion Detection. Advanced Sustainable Systems, 2018, 2, 1700137.	2.7	4
69	A facile approach to the synthesis of bilayer hematite films for efficient photocatalytic degradation of methylene blue dye in aqueous solution. International Journal of Environmental Analytical Chemistry, 2024, 104, 813-826.	1.8	4
70	Copperâ€“micrometer-sized diamond nanostructured composites. Physica Scripta, 2011, T145, 014069.	1.2	3
71	Nanodiamond Dispersions in Nanostructured Metals. Microscopy and Microanalysis, 2012, 18, 73-74.	0.2	3
72	Evaluation of the optoelectronic properties and corrosion behavior of Al ₂ O ₃ -doped ZnO films prepared by dc pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2014, 47, 485501.	1.3	3

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73	Orientation dependence of electrical properties of polycrystalline Cu ₂ O thin films. Semiconductor Science and Technology, 2020, 35, 075016.	1.0	3
74	Magnetic domain morphologies and wall energy in YFe ₁₁ Ti crystals. Materials Characterization, 2009, 60, 1607-1612.	1.9	2
75	Structure Properties of the $\{m \text{ YFe} \}_{11} \{m \text{ Mo} \}$ Intermetallic Compound. IEEE Transactions on Magnetics, 2013, 49, 1149-1152.	1.2	2
76	Nanodiamond dispersions in metallic matrices with different carbon affinity. Microscopy and Microanalysis, 2013, 19, 121-122.	0.2	2
77	Production of copper loaded lipid microparticles by PGSS $\hat{\text{A}}^{\circ}$ (particles from gas saturated solutions) process. Journal of Supercritical Fluids, 2018, 131, 124-129.	1.6	2
78	W-Diamond/Cu-Diamond nanostructured composites for fusion devices. Materials Research Society Symposia Proceedings, 2008, 1125, 1.	0.1	1
79	Electron Diffraction of ThMn ₁₂ /Th ₂ Zn ₁₇ -Type Structures in the Nd-Fe-Ti System. Microscopy and Microanalysis, 2013, 19, 1211-1215.	0.2	1
80	Green Nanotechnology: Green Nanotechnology from Waste Carbonâ€“Polyaniline Composite: Generation of Wavelengthâ€“Independent Multiband Photoluminescence for Sensitive Ion Detection (Adv. Sustainable Syst. 1/2018). Advanced Sustainable Systems, 2018, 2, 1870002.	2.7	1
81	Oxide nanoparticle hybrid materials and applications. , 2019, , 235-281.		1
82	Oxide materials for energy applications. , 2019, , 199-234.		1
83	Effects of hydrogen permeation on W, Mo and Cu Langmuir probes at ISTTOK. Materials Research Society Symposia Proceedings, 2008, 1125, 1.	0.1	0
84	Multiscale Copper-â€“Diamond Nanostructured Composites. Materials Science Forum, 0, 730-732, 925-930.	0.3	0
85	Self-lubricant behaviour of copper-carbon nanocomposites: An electron microscopy and atomic force microscopy study. Microscopy and Microanalysis, 2015, 21, 114-115.	0.2	0
86	Paper electronics: a sustainable multifunctional platform. , 2018, , .		0
87	Conclusions and future perspectives. , 2019, , 283-295.		0