

Daniela Nunes

List of Publications by Year in descending order

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87
papers

2,682
citations

218677

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197818

49
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87
docs citations

87
times ranked

3778
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile approach to the synthesis of bilayer hematite films for efficient photocatalytic degradation of methylene blue dye in aqueous solution. <i>International Journal of Environmental Analytical Chemistry</i> , 2024, 104, 813-826.	3.3	4
2	Flexible nanostructured TiO ₂ -based gas and UV sensors: a review. <i>Discover Materials</i> , 2022, 2, .	2.8	11
3	Enhanced Fe-TiO ₂ Solar Photocatalysts on Porous Platforms for Water Purification. <i>Nanomaterials</i> , 2022, 12, 1005.	4.1	13
4	High-performance wide bandgap perovskite solar cells fabricated in ambient high-humidity conditions. <i>Materials Advances</i> , 2021, 2, 6344-6355.	5.4	15
5	Enhanced solar photocatalysis of TiO ₂ nanoparticles and nanostructured thin films grown on paper. <i>Nano Express</i> , 2021, 2, 040002.	2.4	8
6	Cellulose: A Contribution for the Zero Waste Challenge. <i>Advanced Materials Technologies</i> , 2021, 6, .	5.8	56
7	Metal Oxide-Based Photocatalytic Paper: A Green Alternative for Environmental Remediation. <i>Catalysts</i> , 2021, 11, 504.	3.5	43
8	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.	2.9	41
9	Ultrafast Microwave Synthesis of WO ₃ Nanostructured Films for Solar Photocatalysis. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100196.	2.4	12
10	Fast and Low-Cost Synthesis of MoS ₂ Nanostructures on Paper Substrates for Near-Infrared Photodetectors. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1234.	2.5	19
11	Photonic-structured TCO front contacts yielding optical and electrically enhanced thin-film solar cells. <i>Solar Energy</i> , 2020, 196, 92-98.	6.1	17
12	Enhanced electrical and photocatalytic properties of porous TiO ₂ thin films decorated with Fe ₂ O ₃ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20753-20773.	2.2	14
13	Industrial Waste Residue Converted into Value-Added ZnO for Optoelectronic Applications. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1960-1969.	4.3	12
14	TiO ₂ Nanostructured Films for Electrochromic Paper Based-Devices. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1200.	2.5	21
15	Orientation dependence of electrical properties of polycrystalline Cu ₂ O thin films. <i>Semiconductor Science and Technology</i> , 2020, 35, 075016.	2.0	3
16	Mapping the space charge carrier dynamics in plasmon-based perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19811-19819.	10.3	24
17	Design and Simple Assembly of Gold Nanostar Bioconjugates for Surface-Enhanced Raman Spectroscopy Immunoassays. <i>Nanomaterials</i> , 2019, 9, 1561.	4.1	19
18	Metal oxide nanostructures for sensor applications. <i>Semiconductor Science and Technology</i> , 2019, 34, 043001.	2.0	201

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19	Paper-Based Nanoplatfoms for Multifunctional Applications. Journal of Nanomaterials, 2019, 2019, 1-16.	2.7	18
20	Tailoring Upconversion and Morphology of Yb/Eu Doped Y2O3 Nanostructures by Acid Composition Mediation. Nanomaterials, 2019, 9, 234.	4.1	24
21	Structural, optical, and electronic properties of metal oxide nanostructures. , 2019, , 59-102.		6
22	Oxide nanoparticle hybrid materials and applications. , 2019, , 235-281.		1
23	Oxide materials for energy applications. , 2019, , 199-234.		1
24	Conclusions and future perspectives. , 2019, , 283-295.		0
25	Synthesis, design, and morphology of metal oxide nanostructures. , 2019, , 21-57.		32
26	Multifunctional cellulose-paper for light harvesting and smart sensing applications. Journal of Materials Chemistry C, 2018, 6, 3143-3181.	5.5	147
27	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.	5.3	1
28	Enhanced UV Flexible Photodetectors and Photocatalysts Based on TiO2 Nanoplatfoms. Topics in Catalysis, 2018, 61, 1591-1606.	2.8	24
29	Production of copper loaded lipid microparticles by PGSS Â® (particles from gas saturated solutions) process. Journal of Supercritical Fluids, 2018, 131, 124-129.	3.2	2
30	Green Nanotechnology from Waste Carbonâ€™Polyaniline Composite: Generation of Wavelengthâ€™Independent Multiband Photoluminescence for Sensitive Ion Detection. Advanced Sustainable Systems, 2018, 2, 1700137.	5.3	4
31	Ultra-fast plasmonic back reflectors production for light trapping in thin Si solar cells. Solar Energy, 2018, 174, 786-792.	6.1	26
32	Seed-Layer Free Zinc Tin Oxide Tailored Nanostructures for Nanoelectronic Applications: Effect of Chemical Parameters. ACS Applied Nano Materials, 2018, 1, 3986-3997.	5.0	22
33	Paper electronics: a sustainable multifunctional platform. , 2018, , .		0
34	Syngas production by electrochemical CO 2 reduction in an ionic liquid based-electrolyte. Journal of CO2 Utilization, 2017, 18, 62-72.	6.8	52
35	The effect of three luminescent ionic liquids on corroded glass surfaces â€™ A first step into stained-glass cleaning. Corrosion Science, 2017, 118, 109-117.	6.6	12
36	Helium and deuterium irradiation effects in W-Ta composites produced by pulse plasma compaction. Journal of Nuclear Materials, 2017, 492, 105-112.	2.7	11

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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	Imaging the Anomalous Charge Distribution Inside CsPbBr ₃ Perovskite Quantum Dots Sensitized Solar Cells. ACS Nano, 2017, 11, 10214-10221.	14.6	103
39	Using a bacterial fucose-rich polysaccharide as encapsulation material of bioactive compounds. International Journal of Biological Macromolecules, 2017, 104, 1099-1106.	7.5	25
40	Ultra-Fast Microwave Synthesis of ZnO Nanorods on Cellulose Substrates for UV Sensor Applications. Materials, 2017, 10, 1308.	2.9	65
41	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. Catalysts, 2017, 7, 60.	3.5	58
42	3D ZnO/Ag Surface-Enhanced Raman Scattering on Disposable and Flexible Cardboard Platforms. Materials, 2017, 10, 1351.	2.9	40
43	Microwave Synthesized ZnO Nanorod Arrays for UV Sensors: A Seed Layer Annealing Temperature Study. Materials, 2016, 9, 299.	2.9	83
44	Charging effects and surface potential variations of Cu-based nanowires. Thin Solid Films, 2016, 601, 45-53.	1.8	14
45	Influence of the Substrate on the Morphology of Self-Assembled Silver Nanoparticles by Rapid Thermal Annealing. Journal of Physical Chemistry C, 2016, 120, 18235-18242.	3.1	47
46	Observation of Space Charge Dynamics Inside an All Oxide Based Solar Cell. ACS Nano, 2016, 10, 6139-6146.	14.6	16
47	Effect of Mg doping on Cu ₂ O thin films and their behavior on the TiO ₂ /Cu ₂ O heterojunction solar cells. Solar Energy Materials and Solar Cells, 2016, 147, 27-36.	6.2	73
48	Photocatalytic behavior of TiO ₂ films synthesized by microwave irradiation. Catalysis Today, 2016, 278, 262-270.	4.4	37
49	Smart optically active VO ₂ nanostructured layers applied in roof-type ceramic tiles for energy efficiency. Solar Energy Materials and Solar Cells, 2016, 150, 1-9.	6.2	52
50	Imidazole: Prospect Solvent for Lignocellulosic Biomass Fractionation and Delignification. ACS Sustainable Chemistry and Engineering, 2016, 4, 1643-1652.	6.7	117
51	Synthesis of WO ₃ nanoparticles for biosensing applications. Sensors and Actuators B: Chemical, 2016, 223, 186-194.	7.8	71
52	Self-lubricant behaviour of copper-carbon nanocomposites: An electron microscopy and atomic force microscopy study. Microscopy and Microanalysis, 2015, 21, 114-115.	0.4	0
53	Effect of solvents on ZnO nanostructures synthesized by solvothermal method assisted by microwave radiation: a photocatalytic study. Journal of Materials Science, 2015, 50, 5777-5787.	3.7	105
54	Solvothermal Synthesis of Gallium-Indium-Zinc-Oxide Nanoparticles for Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2015, 7, 638-646.	8.0	35

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55	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.	3.5	23
56	Room Temperature Synthesis of Cu ₂ O Nanospheres: Optical Properties and Thermal Behavior. <i>Microscopy and Microanalysis</i> , 2015, 21, 108-119.	0.4	13
57	Development of multicore hybrid particles for drug delivery through the precipitation of CO ₂ saturated emulsions. <i>International Journal of Pharmaceutics</i> , 2015, 478, 9-18.	5.2	19
58	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.	6.2	155
59	Evaluation of the optoelectronic properties and corrosion behavior of Al ₂ O ₃ -doped ZnO films prepared by dc pulsed magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 485501.	2.8	3
60	Highly efficient nanoplasmonic SERS on cardboard packaging substrates. <i>Nanotechnology</i> , 2014, 25, 415202.	2.6	54
61	Cu ₂ O polyhedral nanowires produced by microwave irradiation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6097.	5.5	39
62	WO ₃ Nanoparticle-Based Conformable pH Sensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12226-12234.	8.0	140
63	Fungal biodeterioration of stained-glass windows. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 152-160.	3.9	36
64	Synthesis of Long ZnO Nanorods under Microwave Irradiation or Conventional Heating. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14629-14639.	3.1	120
65	Synergistic helium and deuterium blistering in tungsten-tantalum composites. <i>Journal of Nuclear Materials</i> , 2013, 442, 69-74.	2.7	21
66	Structure Properties of the γ -Fe ₁₁ Mo Intermetallic Compound. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1149-1152.	2.1	2
67	Performances of Microcrystalline Zinc Tin Oxide Thin-Film Transistors Processed by Spray Pyrolysis. <i>Journal of Display Technology</i> , 2013, 9, 825-831.	1.2	6
68	Nanodiamond dispersions in metallic matrices with different carbon affinity. <i>Microscopy and Microanalysis</i> , 2013, 19, 121-122.	0.4	2
69	Electron Diffraction of ThMn ₁₂ /Th ₂ Zn ₁₇ -Type Structures in the Nd-Fe-Ti System. <i>Microscopy and Microanalysis</i> , 2013, 19, 1211-1215.	0.4	1
70	Nanodiamond Dispersions in Nanostructured Metals. <i>Microscopy and Microanalysis</i> , 2012, 18, 73-74.	0.4	3
71	Nickel-carbon nanocomposites: Synthesis, structural changes and strengthening mechanisms. <i>Acta Materialia</i> , 2012, 60, 737-747.	7.9	44
72	Tungsten-nanodiamond composite powders produced by ball milling. <i>Journal of Nuclear Materials</i> , 2012, 426, 115-119.	2.7	12

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73	Microstructural characterization of the ODS Eurofer 97 EU-batch. Fusion Engineering and Design, 2011, 86, 2386-2389.	1.9	12
74	Production of Cu/diamond composites for first-wall heat sinks. Fusion Engineering and Design, 2011, 86, 2589-2592.	1.9	23
75	Copper-µm micrometer-sized diamond nanostructured composites. Physica Scripta, 2011, T145, 014069.	2.5	3
76	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.	5.6	20
77	Tungsten-microdiamond composites for plasma facing components. Journal of Nuclear Materials, 2011, 416, 45-48.	2.7	6
78	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.	2.3	4
79	Consolidation of Cu-nDiamond Nanocomposites: Hot Extrusion vs Spark Plasma Sintering. Materials Science Forum, 2010, 636-637, 682-687.	0.3	14
80	Magnetic domain morphologies and wall energy in YFe ₁₁ Ti crystals. Materials Characterization, 2009, 60, 1607-1612.	4.4	2
81	Microstructural evolution in tungsten and copper probes under hydrogen irradiation at ISTTOK. Journal of Nuclear Materials, 2009, 390-391, 1039-1042.	2.7	7
82	Magnetic microstructure of YFe ₁₁ Ti aggregates. Journal of Alloys and Compounds, 2009, 487, 11-17.	5.5	6
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	W-Diamond/Cu-Diamond nanostructured composites for fusion devices. Materials Research Society Symposia Proceedings, 2008, 1125, 1.	0.1	1
85	Novel Approach to Plasma Facing Materials in Nuclear Fusion Reactors. AIP Conference Proceedings, 2008, , .	0.4	5
86	Multiscale Copper-µDiamond Nanostructured Composites. Materials Science Forum, 0, 730-732, 925-930.	0.3	0
87	Photocatalytic Activity of TiO ₂ Nanostructured Arrays Prepared by Microwave-Assisted Solvothermal Method. , 0, , .		8