

Ana C Pimentel

List of Publications by Year in descending order

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71
papers

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168829

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145109

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docs citations

72
times ranked

4772
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Studies in Red/NIR Persistent Luminescent Cr-Doped Zinc Gallogermanate (ZGGO:Cr). Applied Sciences (Switzerland), 2022, 12, 2104.	1.3	3
2	Visible Photoluminescent Zinc Oxide Nanorods for Label-Free Nonenzymatic Glucose Detection. ACS Applied Nano Materials, 2022, 5, 4386-4396.	2.4	7
3	Enhanced Fe-TiO ₂ Solar Photocatalysts on Porous Platforms for Water Purification. Nanomaterials, 2022, 12, 1005.	1.9	13
4	Enhanced solar photocatalysis of TiO ₂ nanoparticles and nanostructured thin films grown on paper. Nano Express, 2021, 2, 040002.	1.2	8
5	Cellulose: A Contribution for the Zero Waste Challenge. Advanced Materials Technologies, 2021, 6, .	3.0	56
6	Metal Oxide-Based Photocatalytic Paper: A Green Alternative for Environmental Remediation. Catalysts, 2021, 11, 504.	1.6	43
7	High UV and Sunlight Photocatalytic Performance of Porous ZnO Nanostructures Synthesized by a Facile and Fast Microwave Hydrothermal Method. Materials, 2021, 14, 2385.	1.3	41
8	Ultrafast Microwave Synthesis of WO ₃ Nanostructured Films for Solar Photocatalysis. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100196.	1.2	12
9	Cellulose-Based Solid Electrolyte Membranes Through Microwave Assisted Regeneration and Application in Electrochromic Displays. Frontiers in Materials, 2020, 7, .	1.2	7
10	TiO ₂ Nanostructured Films for Electrochromic Paper Based-Devices. Applied Sciences (Switzerland), 2020, 10, 1200.	1.3	21
11	ZnO nanostructures grown on ITO coated glass substrate by hybrid microwave-assisted hydrothermal method. Optik, 2020, 208, 164372.	1.4	14
12	Hybrid (Ag)ZnO/Cs/PMMA nanocomposite thin films. Journal of Alloys and Compounds, 2019, 803, 922-933.	2.8	24
13	Metal oxide nanostructures for sensor applications. Semiconductor Science and Technology, 2019, 34, 043001.	1.0	201
14	Biowaste-derived carbon black applied to polyaniline-based high-performance supercapacitor microelectrodes: Sustainable materials for renewable energy applications. Electrochimica Acta, 2019, 316, 202-218.	2.6	45
15	Paper-Based Nanoplatforms for Multifunctional Applications. Journal of Nanomaterials, 2019, 2019, 1-16.	1.5	18
16	Tailoring Upconversion and Morphology of Yb/Eu Doped Y ₂ O ₃ Nanostructures by Acid Composition Mediation. Nanomaterials, 2019, 9, 234.	1.9	24
17	Structural, optical, and electronic properties of metal oxide nanostructures. , 2019, , 59-102.		6
18	Oxide nanoparticle hybrid materials and applications. , 2019, , 235-281.		1

#	ARTICLE	IF	CITATIONS
19	Chromogenic applications. , 2019, , 103-147.		3
20	Electronic applications of oxide nanostructures. , 2019, , 149-197.		0
21	Oxide materials for energy applications. , 2019, , 199-234.		1
22	Conclusions and future perspectives. , 2019, , 283-295.		0
23	Synthesis, design, and morphology of metal oxide nanostructures. , 2019, , 21-57.		32
24	Enhanced UV Flexible Photodetectors and Photocatalysts Based on TiO ₂ Nanoplatfoms. Topics in Catalysis, 2018, 61, 1591-1606.	1.3	24
25	Laser-induced electrodes towards low-cost flexible UV ZnO sensors. Flexible and Printed Electronics, 2018, 3, 044002.	1.5	37
26	Photocatalytic Activity of Laser-Processed ZnO Micro/Nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800155.	0.8	14
27	Paper electronics: a sustainable multifunctional platform. , 2018, , .		0
28	Direct growth of plasmonic nanorod forests on paper substrates for low-cost flexible 3D SERS platforms. Flexible and Printed Electronics, 2017, 2, 014001.	1.5	46
29	Ultra-Fast Microwave Synthesis of ZnO Nanorods on Cellulose Substrates for UV Sensor Applications. Materials, 2017, 10, 1308.	1.3	65
30	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. Catalysts, 2017, 7, 60.	1.6	58
31	3D ZnO/Ag Surface-Enhanced Raman Scattering on Disposable and Flexible Cardboard Platforms. Materials, 2017, 10, 1351.	1.3	40
32	Microwave Synthesized ZnO Nanorod Arrays for UV Sensors: A Seed Layer Annealing Temperature Study. Materials, 2016, 9, 299.	1.3	83
33	Charging effects and surface potential variations of Cu-based nanowires. Thin Solid Films, 2016, 601, 45-53.	0.8	14
34	Exploring the potential of laser assisted flow deposition grown ZnO for photovoltaic applications. Materials Chemistry and Physics, 2016, 177, 322-329.	2.0	18
35	Photocatalytic behavior of TiO ₂ films synthesized by microwave irradiation. Catalysis Today, 2016, 278, 262-270.	2.2	37
36	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.	1.7	105

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37	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
38	Chitin-glucan complex production by <i>Komagataella pastoris</i> : Downstream optimization and product characterization. <i>Carbohydrate Polymers</i> , 2015, 130, 455-464.	5.1	55
39	Room Temperature Synthesis of Cu ₂ O Nanospheres: Optical Properties and Thermal Behavior. <i>Microscopy and Microanalysis</i> , 2015, 21, 108-119.	0.2	13
40	Cu ₂ O polyhedral nanowires produced by microwave irradiation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6097.	2.7	39
41	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
42	Away from silicon era: the paper electronics. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6
43	Zinc oxide, a multifunctional material: from material to device applications. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 197-205.	1.1	149
44	Highly stable transparent and conducting gallium-doped zinc oxide thin films for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1605-1610.	3.0	151
45	Effect of annealing on molybdenum doped indium oxide thin films RF sputtered at room temperature. <i>Vacuum</i> , 2008, 82, 1489-1494.	1.6	7
46	Electron transport in single and multicomponent n-type oxide semiconductors. <i>Thin Solid Films</i> , 2008, 516, 1322-1325.	0.8	24
47	Amorphous IZO TFTs with saturation mobilities exceeding 100 cm ² /Vs. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, R34-R36.	1.2	171
48	Study of Electrochromic Devices Incorporating a Polymer Gel Electrolyte Component. <i>Materials Science Forum</i> , 2006, 514-516, 83-87.	0.3	2
49	Influence of the semiconductor thickness on the electrical properties of transparent TFTs based on indium zinc oxide. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1749-1752.	1.5	196
50	Effect of UV and visible light radiation on the electrical performances of transparent TFTs based on amorphous indium zinc oxide. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1756-1760.	1.5	89
51	Electron transport and optical characteristics in amorphous indium zinc oxide films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1471-1474.	1.5	83
52	UV and ozone influence on the conductivity of ZnO thin films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1444-1447.	1.5	36
53	Role of the thickness on the electrical and optical performances of undoped polycrystalline zinc oxide films used as UV detectors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1448-1452.	1.5	11
54	High mobility amorphous/nanocrystalline indium zinc oxide deposited at room temperature. <i>Thin Solid Films</i> , 2006, 502, 104-107.	0.8	71

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55	Influence of time, light and temperature on the electrical properties of zinc oxide TFTs. Superlattices and Microstructures, 2006, 39, 319-327.	1.4	29
56	Role of hydrogen plasma on electrical and optical properties of ZGO, ITO and IZO transparent and conductive coatings. Thin Solid Films, 2006, 511-512, 295-298.	0.8	87
57	Role of Hydrogen Plasma on the Electrical and Optical Properties of Indium Zinc Transparent Conductive Oxide. Materials Science Forum, 2006, 514-516, 63-67.	0.3	1
58	A Study on the Electrical Properties of ZnO Based Transparent TFTs. Materials Science Forum, 2006, 514-516, 68-72.	0.3	5
59	Multifunctional Thin Film Zinc Oxide Semiconductors: Application to Electronic Devices. Materials Science Forum, 2006, 514-516, 3-7.	0.3	6
60	Room temperature dc and ac electrical behaviour of undoped ZnO films under UV light. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 135-140.	1.7	9
61	Recent advances in ZnO transparent thin film transistors. Thin Solid Films, 2005, 487, 205-211.	0.8	335
62	Polycrystalline intrinsic zinc oxide to be used in transparent electronic devices. Thin Solid Films, 2005, 487, 212-215.	0.8	50
63	Fully Transparent ZnO Thin-Film Transistor Produced at Room Temperature. Advanced Materials, 2005, 17, 590-594.	11.1	787
64	Transport in high mobility amorphous wide band gap indium zinc oxide films. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R95-R97.	0.8	113
65	Zinc Oxide Thin-Film Transistors. , 2005, , 225-238.		2
66	High Mobility Nanocrystalline Indium Zinc Oxide Deposited at Room Temperature. Materials Research Society Symposia Proceedings, 2004, 811, 128.	0.1	0
67	Next Generation of Thin Film Transistors Based on Zinc Oxide. Materials Research Society Symposia Proceedings, 2004, 811, 67.	0.1	3
68	Enhancement of the Electrical Properties of ITO Deposited on Polymeric Substrates by Using a ZnO Buffer Layer. Materials Research Society Symposia Proceedings, 2004, 814, 347.	0.1	2
69	High field-effect mobility zinc oxide thin film transistors produced at room temperature. Journal of Non-Crystalline Solids, 2004, 338-340, 806-809.	1.5	124
70	Wide-bandgap high-mobility ZnO thin-film transistors produced at room temperature. Applied Physics Letters, 2004, 85, 2541-2543.	1.5	500
71	Photocatalytic Activity of TiO ₂ Nanostructured Arrays Prepared by Microwave-Assisted Solvothermal Method. , 0, , .		8