

Rodrigo Martins

List of Publications by Year in descending order

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654
papers

25,155
citations

8172

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12585

132
g-index

670
all docs

670
docs citations

670
times ranked

18846
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-enhanced Raman scattering paper-based analytical devices. , 2022, , 117-167.		1
2	UV-Assisted Annealing Effect on the Performance of an Electrolyte-Gated Transistor Based on Inkjet Printed ZnO Nanoparticles Blended With Zinc Nitrate. IEEE Transactions on Electron Devices, 2022, 69, 1538-1544.	1.6	5
3	Printed zinc tin oxide diodes: from combustion synthesis to large-scale manufacturing. Flexible and Printed Electronics, 2022, 7, 014005.	1.5	5
4	Emergent solution based IGZO memristor towards neuromorphic applications. Journal of Materials Chemistry C, 2022, 10, 1991-1998.	2.7	15
5	Tailoring the synaptic properties of a-IGZO memristors for artificial deep neural networks. APL Materials, 2022, 10, .	2.2	26
6	Green economy and waste management: An inevitable plan for materials science. Progress in Natural Science: Materials International, 2022, 32, 1-9.	1.8	59
7	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications. Nature Communications, 2022, 13, 814.	5.8	80
8	Smart IoT enabled interactive self-powered security tag designed with functionalized paper. Nano Energy, 2022, 95, 107021.	8.2	10
9	Flexible nanostructured TiO ₂ -based gas and UV sensors: a review. Discover Materials, 2022, 2, .	1.0	11
10	Visible Photoluminescent Zinc Oxide Nanorods for Label-Free Nonenzymatic Glucose Detection. ACS Applied Nano Materials, 2022, 5, 4386-4396.	2.4	7
11	Enhanced Fe-TiO ₂ Solar Photocatalysts on Porous Platforms for Water Purification. Nanomaterials, 2022, 12, 1005.	1.9	13
12	Digital Microfluidics-Powered Real-Time Monitoring of Isothermal DNA Amplification of Cancer Biomarker. Biosensors, 2022, 12, 201.	2.3	9
13	Tailoring the Interface in High Performance Planar Perovskite Solar Cell by ZnOS Thin Film. ACS Applied Energy Materials, 2022, 5, 5680-5690.	2.5	9
14	Composites Based on PDMS and Graphite Flakes for Thermoelectric Sensing Applications. , 2022, 8, .		0
15	Solution Combustion Synthesis of Hafnium-Doped Indium Oxide Thin Films for Transparent Conductors. Nanomaterials, 2022, 12, 2167.	1.9	3
16	Microwave-Assisted Synthesis of Zn ₂ SnO ₄ Nanostructures for Photodegradation of Rhodamine B under UV and Sunlight. Nanomaterials, 2022, 12, 2119.	1.9	5
17	Photonic-Structured Perovskite Solar Cells: Detailed Optoelectronic Analysis. ACS Photonics, 2022, 9, 2408-2421.	3.2	9
18	Recent Progress in Solution-Based Metal Oxide Resistive Switching Devices. Advanced Materials, 2021, 33, e2004328.	11.1	99

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19	Discover Materials: the pathway to explore materials as activators of the challenges of the future. Discover Materials, 2021, 1, 1.	1.0	2
20	Paper Microfluidics and Tailored Gold Nanoparticles for Nonenzymatic, Colorimetric Multiplex Biomarker Detection. ACS Applied Materials & Interfaces, 2021, 13, 3576-3590.	4.0	56
21	High-performance wide bandgap perovskite solar cells fabricated in ambient high-humidity conditions. Materials Advances, 2021, 2, 6344-6355.	2.6	15
22	Optimization of ZnO Nanorods Concentration in a Micro-Structured Polymeric Composite for Nanogenerators. Chemosensors, 2021, 9, 27.	1.8	10
23	Shape Effect of Zinc-Tin Oxide Nanostructures on Photodegradation of Methylene Blue and Rhodamine B under UV and Visible Light. ACS Applied Nano Materials, 2021, 4, 1149-1161.	2.4	25
24	Laser-Induced Graphene from Paper for Mechanical Sensing. ACS Applied Materials & Interfaces, 2021, 13, 10210-10221.	4.0	115
25	Enhanced solar photocatalysis of TiO ₂ nanoparticles and nanostructured thin films grown on paper. Nano Express, 2021, 2, 040002.	1.2	8
26	Cellulose: A Contribution for the Zero eWaste Challenge. Advanced Materials Technologies, 2021, 6, .	3.0	56
27	Towards Sustainable Crossbar Artificial Synapses with Zinc-Tin Oxide. Electronic Materials, 2021, 2, 105-115.	0.9	7
28	Metal Oxide-Based Photocatalytic Paper: A Green Alternative for Environmental Remediation. Catalysts, 2021, 11, 504.	1.6	43
29	Ionic Conductive Cellulose Mats by Solution Blow Spinning as Substrate and a Dielectric Interstrate Layer for Flexible Electronics. ACS Applied Materials & Interfaces, 2021, 13, 26237-26246.	4.0	16
30	Transparent and Flexible Electrocardiography Electrode Arrays Based on Silver Nanowire Networks for Neural Recordings. ACS Applied Nano Materials, 2021, 4, 5737-5747.	2.4	14
31	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
32	Colloidal Lithography for Photovoltaics: An Attractive Route for Light Management. Nanomaterials, 2021, 11, 1665.	1.9	21
33	Microwave-Assisted Hydrothermal Synthesis of Zn ₂ SnO ₄ Nanostructures for Photocatalytic Dye Degradation. Materials Proceedings, 2021, 4, 92.	0.2	0
34	Ultrafast Microwave Synthesis of WO ₃ Nanostructured Films for Solar Photocatalysis. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100196.	1.2	12
35	UV-Responsive Screen-Printed Porous ZnO Nanostructures on Office Paper for Sustainable and Foldable Electronics. Chemosensors, 2021, 9, 192.	1.8	8
36	Tuning the Electrical Properties of Cellulose Nanocrystals through Laser-Induced Graphitization for UV Photodetectors. ACS Applied Nano Materials, 2021, 4, 8262-8272.	2.4	23

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37	43.1: Invited Paper: Functional Oxides to serve the Electronics Challenges of the Future. Digest of Technical Papers SID International Symposium, 2021, 52, 537-538.	0.1	0
38	Handwritten and Sustainable Electronic Logic Circuits with Fully Printed Paper Transistors. Advanced Materials Technologies, 2021, 6, 2100633.	3.0	10
39	Combining Soft with Hard Condensed Matter for Circular Polarized Light Sensing and Logic Operations. Advanced Optical Materials, 2021, 9, 2001731.	3.6	4
40	New strategies toward high-performance and low-temperature processing of solution-based metal oxide TFTs. , 2021, , 585-621.		4
41	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
42	Reusable and highly sensitive SERS immunoassay utilizing gold nanostars and a cellulose hydrogel-based platform. Journal of Materials Chemistry B, 2021, 9, 7516-7529.	2.9	18
43	Healable Cellulose Iontronic Hydrogel Stickers for Sustainable Electronics on Paper. Advanced Electronic Materials, 2021, 7, 2001166.	2.6	14
44	Design and synthesis of low temperature printed metal oxide memristors. Journal of Materials Chemistry C, 2021, 9, 3911-3918.	2.7	17
45	Ê€Skin Piezoresistive Pressure Sensor Combining Laser Engraving and Shrinking Polymeric Films for Health Monitoring Applications. Advanced Materials Interfaces, 2021, 8, 2100877.	1.9	3
46	Influence of paper surface characteristics on fully inkjet printed PEDOT:PSS-based electrochemical transistors. Semiconductor Science and Technology, 2021, 36, 125005.	1.0	11
47	LaserÊ€Induced Graphene on Paper toward Efficient Fabrication of Flexible, Planar Electrodes for Electrochemical Sensing. Advanced Materials Interfaces, 2021, 8, 2101502.	1.9	48
48	Soft-Microstructured Transparent Electrodes for Photonic-Enhanced Flexible Solar Cells. Micro, 2021, 1, 215-227.	0.9	6
49	Paper-Based Biosensors for COVID-19: A Review of Innovative Tools for Controlling the Pandemic. ACS Omega, 2021, 6, 29268-29290.	1.6	40
50	Ta ₂ O ₅ /SiO ₂ Multicomponent Dielectrics for Amorphous Oxide TFTs. Electronic Materials, 2021, 2, 1-16.	0.9	6
51	Materials as activator of future global science and technology challenges. Progress in Natural Science: Materials International, 2021, 31, 785-791.	1.8	9
52	Flexible, scalable, and efficient thermoelectric touch detector based on PDMS and graphite flakes. Flexible and Printed Electronics, 2021, 6, 045018.	1.5	4
53	Wave-optical front structures on silicon and perovskite thin-film solar cells. , 2020, , 315-354.		7
54	Ionically Modified Cellulose Nanocrystal Self-Assembled Films with a Mesoporous Twisted Superstructure: Polarizability and Application in Ion-Gated Transistors. ACS Applied Electronic Materials, 2020, 2, 426-436.	2.0	13

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55	Touch-Interactive Flexible Sustainable Energy Harvester and Self-Powered Smart Card. <i>Advanced Functional Materials</i> , 2020, 30, 1908994.	7.8	16
56	2D Resistive Switching Based on Amorphous Zinc-Tin Oxide Schottky Diodes. <i>Advanced Electronic Materials</i> , 2020, 6, 1900958.	2.6	15
57	Photonic-structured TCO front contacts yielding optical and electrically enhanced thin-film solar cells. <i>Solar Energy</i> , 2020, 196, 92-98.	2.9	17
58	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.	1.1	14
59	Paper-Based In-Situ Gold Nanoparticle Synthesis for Colorimetric, Non-Enzymatic Glucose Level Determination. <i>Nanomaterials</i> , 2020, 10, 2027.	1.9	28
60	Toward Stable Solution-Processed High-Mobility p-Type Thin Film Transistors Based on Halide Perovskites. <i>ACS Nano</i> , 2020, 14, 14790-14797.	7.3	42
61	Transduction Mechanisms, Micro-Structuring Techniques, and Applications of Electronic Skin Pressure Sensors: A Review of Recent Advances. <i>Sensors</i> , 2020, 20, 4407.	2.1	35
62	Noble-Metal-Free Memristive Devices Based on IGZO for Neuromorphic Applications. <i>Advanced Electronic Materials</i> , 2020, 6, 2000242.	2.6	35
63	Frontispiece: Solution Combustion Synthesis: Towards a Sustainable Approach for Metal Oxides. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	3
64	Solar Cells: Self-Cleaned Photonic-Enhanced Solar Cells with Nanostructured Polyethylene (Adv. Mater.) Tj ETQq0,0 0 rgBT ₂ /Overlock	1.9	2
65	Cellulose-Based Solid Electrolyte Membranes Through Microwave Assisted Regeneration and Application in Electrochromic Displays. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	7
66	Solution Combustion Synthesis of Transparent Conducting Thin Films for Sustainable Photovoltaic Applications. <i>Sustainability</i> , 2020, 12, 10423.	1.6	12
67	Laser-Induced Graphene Piezoresistive Sensors Synthesized Directly on Cork Insoles for Gait Analysis. <i>Advanced Materials Technologies</i> , 2020, 5, 2000630.	3.0	53
68	Paper-Based Platform with an In Situ Molecularly Imprinted Polymer for Î ² -Amyloid. <i>ACS Omega</i> , 2020, 5, 12057-12066.	1.6	27
69	Design of wave-optical structured substrates for ultra-thin perovskite solar cells. <i>Applied Materials Today</i> , 2020, 20, 100720.	2.3	34
70	Non-enzymatic lab-on-paper devices for biosensing applications. <i>Comprehensive Analytical Chemistry</i> , 2020, , 189-237.	0.7	8
71	Low-Voltage High-Speed Ring Oscillator With a-InGaZnO TFTs. <i>IEEE Journal of the Electron Devices Society</i> , 2020, 8, 584-588.	1.2	11
72	Industrial Waste Residue Converted into Value-Added ZnO for Optoelectronic Applications. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1960-1969.	2.0	12

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73	Fast Prototyping Microfluidics: Integrating Droplet Digital Lamp for Absolute Quantification of Cancer Biomarkers. <i>Sensors</i> , 2020, 20, 1624.	2.1	19
74	Laser-Induced Graphene-Based Platforms for Dual Biorecognition of Molecules. <i>ACS Applied Nano Materials</i> , 2020, 3, 2795-2803.	2.4	43
75	Solution Combustion Synthesis: Towards a Sustainable Approach for Metal Oxides. <i>Chemistry - A European Journal</i> , 2020, 26, 9099-9125.	1.7	115
76	Piezoelectricity Enhancement of Nanogenerators Based on PDMS and ZnSnO ₃ Nanowires through Microstructuration. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18421-18430.	4.0	63
77	TiO ₂ Nanostructured Films for Electrochromic Paper Based-Devices. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1200.	1.3	21
78	Rail-to-Rail Timing Signals Generation Using InGaZnO TFTs For Flexible X-Ray Detector. <i>IEEE Journal of the Electron Devices Society</i> , 2020, 8, 157-162.	1.2	17
79	ZnO nanostructures grown on ITO coated glass substrate by hybrid microwave-assisted hydrothermal method. <i>Optik</i> , 2020, 208, 164372.	1.4	14
80	Control of Eu Oxidation State in Y ₂ O ₃ :xSx:Eu Thin-Film Phosphors Prepared by Atomic Layer Deposition: A Structural and Photoluminescence Study. <i>Materials</i> , 2020, 13, 93.	1.3	5
81	Printed, Highly Stable Metal Oxide Thin-Film Transistors with Ultra-Thin High- ϵ Oxide Dielectric. <i>Advanced Electronic Materials</i> , 2020, 6, 1901071.	2.6	57
82	Self-Cleaned Photonic-Enhanced Solar Cells with Nanostructured Parylene. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000264.	1.9	19
83	Laser induced ultrafast combustion synthesis of solution-based AlO _x for thin film transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6176-6184.	2.7	22
84	Orientation dependence of electrical properties of polycrystalline Cu ₂ O thin films. <i>Semiconductor Science and Technology</i> , 2020, 35, 075016.	1.0	3
85	Light trapping in solar cells: simple design rules to maximize absorption. <i>Optica</i> , 2020, 7, 1377.	4.8	51
86	Growth Mechanism of Seed-Layer Free ZnSnO ₃ Nanowires: Effect of Physical Parameters. <i>Nanomaterials</i> , 2019, 9, 1002.	1.9	18
87	Label-Free Nanosensing Platform for Breast Cancer Exosome Profiling. <i>ACS Sensors</i> , 2019, 4, 2073-2083.	4.0	57
88	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
89	Hybrid (Ag)ZnO/Cs/PMMA nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2019, 803, 922-933.	2.8	24
90	Design and Simple Assembly of Gold Nanostar Bioconjugates for Surface-Enhanced Raman Spectroscopy Immunoassays. <i>Nanomaterials</i> , 2019, 9, 1561.	1.9	19

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91	25.3: <i>Invited Paper:</i> Designing the Future with Sustainable Multifunctional Paper Platforms. Digest of Technical Papers SID International Symposium, 2019, 50, 253-254.	0.1	0
92	Editorial for the Special Issue "Characterization of Nanomaterials: Selected Papers from 6th Dresden Nanoanalysis Symposium". Nanomaterials, 2019, 9, 1527.	1.9	0
93	Tailoring IGZO Composition for Enhanced Fully Solution-Based Thin Film Transistors. Nanomaterials, 2019, 9, 1273.	1.9	46
94	Sustainable Fully Printed UV Sensors on Cork Using Zinc Oxide/Ethylcellulose Inks. Micromachines, 2019, 10, 601.	1.4	16
95	Sol-Gel Processed p-Type CuAlO ₂ Semiconductor Thin Films and the Integration in Transistors. IEEE Transactions on Electron Devices, 2019, 66, 1458-1463.	1.6	26
96	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
97	All-Thin-Film Perovskite/CaSi Four-Terminal Tandems: Interlayer and Intermediate Contacts Optimization. ACS Applied Energy Materials, 2019, 2, 3979-3985.	2.5	18
98	Lightwave trapping in thin film solar cells with improved photonic-structured front contacts. Journal of Materials Chemistry C, 2019, 7, 6456-6464.	2.7	26
99	Oxide TFT Rectifiers on Flexible Substrates Operating at NFC Frequency Range. IEEE Journal of the Electron Devices Society, 2019, 7, 329-334.	1.2	20
100	Colloidal-structured metallic micro-grids: High performance transparent electrodes in the red and infrared range. Solar Energy Materials and Solar Cells, 2019, 197, 7-12.	3.0	15
101	Role of Structure and Composition on the Performances of P-Type Tin Oxide Thin-Film Transistors Processed at Low-Temperatures. Nanomaterials, 2019, 9, 320.	1.9	28
102	Optimum Luminescent Down-Shifting Properties for High Efficiency and Stable Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2930-2938.	2.5	41
103	E-Skin Bimodal Sensors for Robotics and Prosthesis Using PDMS Molds Engraved by Laser. Sensors, 2019, 19, 899.	2.1	26
104	Paper-Based Nanoplatfoms for Multifunctional Applications. Journal of Nanomaterials, 2019, 2019, 1-16.	1.5	18
105	Human-motion interactive energy harvester based on polyaniline functionalized textile fibers following metal/polymer mechano-responsive charge transfer mechanism. Nano Energy, 2019, 60, 794-801.	8.2	19
106	Photonic-structured TiO ₂ for high-efficiency, flexible and stable Perovskite solar cells. Nano Energy, 2019, 59, 91-101.	8.2	100
107	Fully Printed Zinc Oxide Electrolyte-Gated Transistors on Paper. Nanomaterials, 2019, 9, 169.	1.9	33
108	Multi-Level Cell Properties of a Bilayer Cu ₂ O/Al ₂ O ₃ Resistive Switching Device. Nanomaterials, 2019, 9, 289.	1.9	22

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109	Ultrafast Low-Temperature Crystallization of Solar Cell Graded Formamidinium-Cesium Mixed-Cation Lead Mixed-Halide Perovskites Using a Reproducible Microwave-Based Process. ACS Applied Energy Materials, 2019, 2, 1844-1853.	2.5	20
110	Tailoring Upconversion and Morphology of Yb/Eu Doped Y2O3 Nanostructures by Acid Composition Mediation. Nanomaterials, 2019, 9, 234.	1.9	24
111	STEM materials: a new frontier for an intelligent sustainable world. BMC Materials, 2019, 1, .	6.8	2
112	Paper-Based SERS Platform for One-Step Screening of Tetracycline in Milk. Scientific Reports, 2019, 9, 17922.	1.6	38
113	Structural, optical, and electronic properties of metal oxide nanostructures. , 2019, , 59-102.		6
114	Oxide nanoparticle hybrid materials and applications. , 2019, , 235-281.		1
115	Chromogenic applications. , 2019, , 103-147.		3
116	Electronic applications of oxide nanostructures. , 2019, , 149-197.		0
117	Oxide materials for energy applications. , 2019, , 199-234.		1
118	Conclusions and future perspectives. , 2019, , 283-295.		0
119	Synthesis, design, and morphology of metal oxide nanostructures. , 2019, , 21-57.		32
120	Molecularly-imprinted chloramphenicol sensor with laser-induced graphene electrodes. Biosensors and Bioelectronics, 2019, 124-125, 167-175.	5.3	135
121	Field-Effect Transistors on Photonic Cellulose Nanocrystal Solid Electrolyte for Circular Polarized Light Sensing. Advanced Functional Materials, 2019, 29, 1805279.	7.8	48
122	Photovoltaics: Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer (Adv. Mater. Interfaces 2/2018). Advanced Materials Interfaces, 2018, 5, 1870007.	1.9	2
123	Multifunctional cellulose-paper for light harvesting and smart sensing applications. Journal of Materials Chemistry C, 2018, 6, 3143-3181.	2.7	147
124	Nontoxic, Eco-friendly Fully Water-Induced Ternary Zr-Gd-O Dielectric for High-Performance Transistors and Unipolar Inverters. Advanced Electronic Materials, 2018, 4, 1800100.	2.6	62
125	Multifunctional microfluidic chip for optical nanoprobe based RNA detection – application to Chronic Myeloid Leukemia. Scientific Reports, 2018, 8, 381.	1.6	21
126	Light-induced current mapping in oxide based solar cells with nanoscale resolution. Solar Energy Materials and Solar Cells, 2018, 176, 310-317.	3.0	5

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127	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
128	Optimal-Enhanced Solar Cell Ultra-thinning with Broadband Nanophotonic Light Capture. IScience, 2018, 3, 238-254.	1.9	35
129	Draw Spinning of Waferâ€“Scale Oxide Fibers for Electronic Devices. Advanced Electronic Materials, 2018, 4, 1700644.	2.6	13
130	Efficient coverage of ZnO nanoparticles on cotton fibres for antibacterial finishing using a rapid and low cost <i>in situ</i> synthesis. New Journal of Chemistry, 2018, 42, 1052-1060.	1.4	78
131	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
132	Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer. Advanced Materials Interfaces, 2018, 5, 1701101.	1.9	50
133	Laserâ€“Induced Graphene Strain Sensors Produced by Ultraviolet Irradiation of Polyimide. Advanced Functional Materials, 2018, 28, 1805271.	7.8	228
134	Ultra-fast plasmonic back reflectors production for light trapping in thin Si solar cells. Solar Energy, 2018, 174, 786-792.	2.9	26
135	Laser-induced electrodes towards low-cost flexible UV ZnO sensors. Flexible and Printed Electronics, 2018, 3, 044002.	1.5	37
136	Planar Dualâ€“Gate Paper/Oxide Field Effect Transistors as Universal Logic Gates. Advanced Electronic Materials, 2018, 4, 1800423.	2.6	25
137	High performance electronic devices based on nanofibers <i>via</i> a crosslinking welding process. Nanoscale, 2018, 10, 19427-19434.	2.8	15
138	Visualization of nanocrystalline CuO in the grain boundaries of Cu ₂ O thin films and effect on band bending and film resistivity. APL Materials, 2018, 6, .	2.2	36
139	Papertronics: Multigate paper transistor for multifunction applications. Applied Materials Today, 2018, 12, 402-414.	2.3	68
140	A Sustainable Approach to Flexible Electronics with Zincâ€“Tin Oxide Thinâ€“Film Transistors. Advanced Electronic Materials, 2018, 4, 1800032.	2.6	76
141	Passive radiofrequency x-ray dosimeter tag based on flexible radiation-sensitive oxide field-effect transistor. Science Advances, 2018, 4, eaat1825.	4.7	30
142	Boosting highly transparent and conducting indium zinc oxide thin films through solution combustion synthesis: influence of rapid thermal annealing. Semiconductor Science and Technology, 2018, 33, 105004.	1.0	10
143	High-Gain Transimpedance Amplifier for Flexible Radiation Dosimetry Using InGaZnO TFTs. IEEE Journal of the Electron Devices Society, 2018, 6, 760-765.	1.2	31
144	Seed-Layer Free Zinc Tin Oxide Tailored Nanostructures for Nanoelectronic Applications: Effect of Chemical Parameters. ACS Applied Nano Materials, 2018, 1, 3986-3997.	2.4	22

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145	Electronic Devices Based on Oxide Thin Films Fabricated by Fiber-to-Film Process. ACS Applied Materials & Interfaces, 2018, 10, 18057-18065.	4.0	14
146	Fully solution-induced high performance indium oxide thin film transistors with ZrO _x high-k gate dielectrics. RSC Advances, 2018, 8, 16788-16799.	1.7	49
147	Paper electronics: a sustainable multifunctional platform. , 2018, , .		0
148	Critical role of a double-layer configuration in solution-based unipolar resistive switching memories. Nanotechnology, 2018, 29, 345206.	1.3	21
149	Piezoresistive E-skin Sensors Produced with Laser Engraved Molds. Advanced Electronic Materials, 2018, 4, 1800182.	2.6	56
150	Solution based zinc tin oxide TFTs: the dual role of the organic solvent. Journal Physics D: Applied Physics, 2017, 50, 065106.	1.3	28
151	Syngas production by electrochemical CO ₂ reduction in an ionic liquid based-electrolyte. Journal of CO ₂ Utilization, 2017, 18, 62-72.	3.3	52
152	Redox Chloride Elimination Reaction: Facile Solution Route for Indium-Free, Low-Voltage, and High-Performance Transistors. Advanced Electronic Materials, 2017, 3, 1600513.	2.6	66
153	A statistics modeling approach for the optimization of thin film photovoltaic devices. Solar Energy, 2017, 144, 232-243.	2.9	13
154	Quantitative real-time monitoring of RCA amplification of cancer biomarkers mediated by a flexible ion sensitive platform. Biosensors and Bioelectronics, 2017, 91, 788-795.	5.3	12
155	In situ one-step synthesis of p-type copper oxide for low-temperature, solution-processed thin-film transistors. Journal of Materials Chemistry C, 2017, 5, 2524-2530.	2.7	70
156	Energy band alignment at the nanoscale. Applied Physics Letters, 2017, 110, 051603.	1.5	3
157	Handwritten Oxide Electronics on Paper. Advanced Materials Technologies, 2017, 2, 1700009.	3.0	24
158	Office paper decorated with silver nanostars - an alternative cost effective platform for trace analyte detection by SERS. Scientific Reports, 2017, 7, 2480.	1.6	86
159	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
160	Energy-dependent relaxation time in quaternary amorphous oxide semiconductors probed by gated Hall effect measurements. Physical Review B, 2017, 95, .	1.1	10
161	Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. Advanced Functional Materials, 2017, 27, 1606755.	7.8	90
162	Oxide-Based Solar Cell: Impact of Layer Thicknesses on the Device Performance. ACS Combinatorial Science, 2017, 19, 113-120.	3.8	21

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163	“Electrotyping” on a Carbon Nanoparticles-Filled Polymeric Film using Conducting Atomic Force Microscopy. <i>Advanced Materials</i> , 2017, 29, 1703079.	11.1	11
164	Boosting Electrical Performance of High- κ Nanomultilayer Dielectrics and Electronic Devices by Combining Solution Combustion Synthesis and UV Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40428-40437.	4.0	53
165	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
166	Low-temperature spray-coating of high-performing ZnO:Al films for transparent electronics. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 299-308.	2.6	26
167	Solution Combustion Synthesis: Low-Temperature Processing for p-Type Cu:NiO Thin Films for Transparent Electronics. <i>Advanced Materials</i> , 2017, 29, 1701599.	11.1	145
168	Memristors Using Solution-Based IGZO Nanoparticles. <i>ACS Omega</i> , 2017, 2, 8366-8372.	1.6	38
169	Colloidal-lithographed TiO ₂ photonic nanostructures for solar cell light trapping. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6852-6861.	2.7	41
170	Ultra-Fast Microwave Synthesis of ZnO Nanorods on Cellulose Substrates for UV Sensor Applications. <i>Materials</i> , 2017, 10, 1308.	1.3	65
171	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. <i>Catalysts</i> , 2017, 7, 60.	1.6	58
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