

Elvira Mc Fortunato

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729
papers

23,359
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71
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126
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762
ext. papers

26,160
ext. citations

4.6
avg, IF

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L-index

#	Paper	IF	Citations
729	Oxide semiconductor thin-film transistors: a review of recent advances. <i>Advanced Materials</i> , 2012 , 24, 2945-86	24	2152
728	Fully Transparent ZnO Thin-Film Transistor Produced at Room Temperature. <i>Advanced Materials</i> , 2005 , 17, 590-594	24	744
727	Transparent Conducting Oxides for Photovoltaics. <i>MRS Bulletin</i> , 2007 , 32, 242-247	3.2	697
726	Wide-bandgap high-mobility ZnO thin-film transistors produced at room temperature. <i>Applied Physics Letters</i> , 2004 , 85, 2541-2543	3.4	455
725	Recent advances in ZnO transparent thin film transistors. <i>Thin Solid Films</i> , 2005 , 487, 205-211	2.2	301
724	Effect of different dopant elements on the properties of ZnO thin films. <i>Vacuum</i> , 2002 , 64, 281-285	3.7	297
723	Influence of the deposition pressure on the properties of transparent and conductive ZnO:Ga thin-film produced by r.f. sputtering at room temperature. <i>Thin Solid Films</i> , 2003 , 427, 401-405	2.2	263
722	Transparent p-type SnOx thin film transistors produced by reactive rf magnetron sputtering followed by low temperature annealing. <i>Applied Physics Letters</i> , 2010 , 97, 052105	3.4	232
721	High-Performance Flexible Hybrid Field-Effect Transistors Based on Cellulose Fiber Paper. <i>IEEE Electron Device Letters</i> , 2008 , 29, 988-990	4.4	219
720	Toward High-Performance Amorphous GIZO TFTs. <i>Journal of the Electrochemical Society</i> , 2009 , 156, H1613-9	3.9	216
719	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 433001	3	204
718	Complementary metal oxide semiconductor technology with and on paper. <i>Advanced Materials</i> , 2011 , 23, 4491-6	24	201
717	Gate-bias stress in amorphous oxide semiconductors thin-film transistors. <i>Applied Physics Letters</i> , 2009 , 95, 063502	3.4	196
716	High mobility indium free amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , 2008 , 92, 222103	3.4	193
715	Al-doped ZnO thin films by sol-gel method. <i>Surface and Coatings Technology</i> , 2004 , 180-181, 659-662	4.4	192
714	Effect of post-annealing on the properties of copper oxide thin films obtained from the oxidation of evaporated metallic copper. <i>Applied Surface Science</i> , 2008 , 254, 3949-3954	6.7	187
713	Role of order and disorder on the electronic performances of oxide semiconductor thin film transistors. <i>Journal of Applied Physics</i> , 2007 , 101, 044505	2.5	185

712	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	3.9	183
711	Nanocrystalline cellulose applied simultaneously as the gate dielectric and the substrate in flexible field effect transistors. <i>Nanotechnology</i> , 2014 , 25, 094008	3.4	180
710	Influence of the post-treatment on the properties of ZnO thin films. <i>Thin Solid Films</i> , 2001 , 383, 277-280	2.2	171
709	. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 954-960	2.9	169
708	Zinc oxide as an ozone sensor. <i>Journal of Applied Physics</i> , 2004 , 96, 1398-1408	2.5	166
707	Amorphous IZO TTFTs with saturation mobilities exceeding 100 cm ² /Vs. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, R34-R36	2.5	155
706	Performances presented by zinc oxide thin films deposited by spray pyrolysis. <i>Thin Solid Films</i> , 1999 , 337, 176-179	2.2	150
705	Thin-film transistors based on p-type Cu ₂ O thin films produced at room temperature. <i>Applied Physics Letters</i> , 2010 , 96, 192102	3.4	148
704	A low cost, safe, disposable, rapid and self-sustainable paper-based platform for diagnostic testing: lab-on-paper. <i>Nanotechnology</i> , 2014 , 25, 094006	3.4	146
703	Fully solution-processed low-voltage aqueous In ₂ O ₃ thin-film transistors using an ultrathin ZrO(x) dielectric. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17364-9	9.5	144
702	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	6.4	139
701	Low-Temperature, Nontoxic Water-Induced Metal-Oxide Thin Films and Their Application in Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 2564-2572	15.6	133
700	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	6.4	131
699	Zinc oxide, a multifunctional material: from material to device applications. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 197-205	2.6	130
698	Laser-Induced Graphene Strain Sensors Produced by Ultraviolet Irradiation of Polyimide. <i>Advanced Functional Materials</i> , 2018 , 28, 1805271	15.6	125
697	Influence of post-annealing temperature on the properties exhibited by ITO, IZO and GZO thin films. <i>Thin Solid Films</i> , 2007 , 515, 8562-8566	2.2	122
696	Water-Induced Scandium Oxide Dielectric for Low-Operating Voltage n- and p-Type Metal-Oxide Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 7180-7188	15.6	121
695	Gold on paper-paper platform for Au-nanoprobe TB detection. <i>Lab on A Chip</i> , 2012 , 12, 4802-8	7.2	116

694	Solution Combustion Synthesis: Low-Temperature Processing for p-Type Cu:NiO Thin Films for Transparent Electronics. <i>Advanced Materials</i> , 2017 , 29, 1701599	24	113
693	Recyclable, Flexible, Low-Power Oxide Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 2153-2161	15.6	112
692	Write-erase and read paper memory transistor. <i>Applied Physics Letters</i> , 2008 , 93, 203501	3.4	112
691	High field-effect mobility zinc oxide thin film transistors produced at room temperature. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 806-809	3.9	112
690	Synthesis of Long ZnO Nanorods under Microwave Irradiation or Conventional Heating. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14629-14639	3.8	108
689	Multifunctional cellulose-paper for light harvesting and smart sensing applications. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3143-3181	7.1	107
688	Performances presented by zinc oxide thin films deposited by r.f. magnetron sputtering. <i>Vacuum</i> , 2002 , 64, 293-297	3.7	107
687	Metal oxide nanostructures for sensor applications. <i>Semiconductor Science and Technology</i> , 2019 , 34, 043001	1.8	106
686	Role of Ga ₂ O ₃ /In ₂ O ₃ /ZnO channel composition on the electrical performance of thin-film transistors. <i>Materials Chemistry and Physics</i> , 2011 , 131, 512-518	4.4	106
685	WO ₃ nanoparticle-based conformable pH sensor. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12226-12234	3.4	105
684	Transport in high mobility amorphous wide band gap indium zinc oxide films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, R95-R97	1.6	103
683	Aqueous combustion synthesis of aluminum oxide thin films and application as gate dielectric in GZTO solution-based TFTs. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19592-9	9.5	99
682	The Effect of Deposition Conditions and Annealing on the Performance of High-Mobility GIZO TFTs. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H248		95
681	Hole mobility modulation of solution-processed nickel oxide thin-film transistor based on high-k dielectric. <i>Applied Physics Letters</i> , 2016 , 108, 233506	3.4	95
680	Growth of ZnO:Ga thin films at room temperature on polymeric substrates: thickness dependence. <i>Thin Solid Films</i> , 2003 , 442, 121-126	2.2	93
679	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	4.3	92
678	High quality conductive gallium-doped zinc oxide films deposited at room temperature. <i>Thin Solid Films</i> , 2004 , 451-452, 443-447	2.2	92
677	Molecularly-imprinted chloramphenicol sensor with laser-induced graphene electrodes. <i>Biosensors and Bioelectronics</i> , 2019 , 124-125, 167-175	11.8	91

676	Electrochromic behavior of NiO thin films deposited by e-beam evaporation at room temperature. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 109-115	6.4	88
675	Amorphous ITO thin films prepared by DC sputtering for electrochromic applications. <i>Thin Solid Films</i> , 2002 , 420-421, 70-75	2.2	88
674	High-performance fully amorphous bilayer metal-oxide thin film transistors using ultra-thin solution-processed ZrOx dielectric. <i>Applied Physics Letters</i> , 2014 , 105, 113509	3.4	87
673	Thin Film Silicon Photovoltaic Cells on Paper for Flexible Indoor Applications. <i>Advanced Functional Materials</i> , 2015 , 25, 3592-3598	15.6	86
672	A Review on Cu ₂ O and CuI-Based p-Type Semiconducting Transparent Oxide Materials: Promising Candidates for New Generation Oxide Based Electronics. <i>Reviews in Advanced Sciences and Engineering</i> , 2013 , 2, 273-304		86
671	New challenges on gallium-doped zinc oxide films prepared by r.f. magnetron sputtering. <i>Thin Solid Films</i> , 2003 , 442, 102-106	2.2	86
670	Electronics with and on paper. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 332-335	2.5	85
669	Effect of annealing temperature on the properties of IZO films and IZO based transparent TFTs. <i>Thin Solid Films</i> , 2007 , 515, 8450-8454	2.2	85
668	High mobility hydrogenated zinc oxide thin films. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 255-262		83
667	2012 ,		83
666	Imidazole: Prospect Solvent for Lignocellulosic Biomass Fractionation and Delignification. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1643-1652	8.3	81
665	Imaging the Anomalous Charge Distribution Inside CsPbBr Perovskite Quantum Dots Sensitized Solar Cells. <i>ACS Nano</i> , 2017 , 11, 10214-10221	16.7	80
664	Role of hydrogen plasma on electrical and optical properties of ZGO, ITO and IZO transparent and conductive coatings. <i>Thin Solid Films</i> , 2006 , 511-512, 295-298	2.2	77
663	Insight on the SU-8 resist as passivation layer for transparent Ga ₂ O ₃ /In ₂ O ₃ /ZnO thin-film transistors. <i>Journal of Applied Physics</i> , 2010 , 108, 064505	2.5	76
662	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	3.9	76
661	Production and characterization of zinc oxide thin films for room temperature ozone sensing. <i>Thin Solid Films</i> , 2002 , 418, 45-50	2.2	75
660	Microstructure and gas-sensing properties of sol-gel ZnO thin films. <i>Thin Solid Films</i> , 2008 , 516, 1512-1515	5.2	72
659	High mobility and low threshold voltage transparent thin film transistors based on amorphous indium zinc oxide semiconductors. <i>Solid-State Electronics</i> , 2008 , 52, 443-448	1.7	72

658	High near-infrared transparent molybdenum-doped indium oxide thin films for nanocrystalline silicon solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 92-97	6.4	71
657	Electron transport and optical characteristics in amorphous indium zinc oxide films. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1471-1474	3.9	70
656	Photonic-structured TiO ₂ for high-efficiency, flexible and stable Perovskite solar cells. <i>Nano Energy</i> , 2019 , 59, 91-101	17.1	68
655	High mobility amorphous/nanocrystalline indium zinc oxide deposited at room temperature. <i>Thin Solid Films</i> , 2006 , 502, 104-107	2.2	68
654	Field effect sensors for nucleic Acid detection: recent advances and future perspectives. <i>Sensors</i> , 2015 , 15, 10380-98	3.8	67
653	Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1606755	15.6	66
652	Influence of the doping and annealing atmosphere on zinc oxide thin films deposited by spray pyrolysis. <i>Vacuum</i> , 1999 , 52, 45-49	3.7	66
651	Zinc concentration dependence study of solution processed amorphous indium gallium zinc oxide thin film transistors using high-k dielectric. <i>Applied Physics Letters</i> , 2010 , 97, 183504	3.4	65
650	Office paper platform for bioelectrochromic detection of electrochemically active bacteria using tungsten trioxide nanopores. <i>Scientific Reports</i> , 2015 , 5, 9910	4.9	64
649	Office paper decorated with silver nanostars - an alternative cost effective platform for trace analyte detection by SERS. <i>Scientific Reports</i> , 2017 , 7, 2480	4.9	61
648	Low-temperature, nontoxic water-induced high-k zirconium oxide dielectrics for low-voltage, high-performance oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10715-10721	7.1	61
647	Microwave Synthesized ZnO Nanorod Arrays for UV Sensors: A Seed Layer Annealing Temperature Study. <i>Materials</i> , 2016 , 9,	3.5	61
646	Performance and Stability of Low Temperature Transparent Thin-Film Transistors Using Amorphous Multicomponent Dielectrics. <i>Journal of the Electrochemical Society</i> , 2009 , 156, H824	3.9	60
645	Electrical, structural and optical characterization of copper oxide thin films as a function of post annealing temperature. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 2143-2148 ^{1.6}	1.6	60
644	Effect of post-heat treatment on the electrical and optical properties of ZnO:Al thin films. <i>Thin Solid Films</i> , 2006 , 502, 219-222	2.2	60
643	High-mobility p-type NiO _x thin-film transistors processed at low temperatures with Al ₂ O ₃ high-k dielectric. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9438-9444	7.1	60
642	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	6.4	59
641	Transparent, conductive ZnO:Al thin film deposited on polymer substrates by RF magnetron sputtering. <i>Surface and Coatings Technology</i> , 2002 , 151-152, 247-251	4.4	59

640	Large-area 1D thin-film position-sensitive detector with high detection resolution. <i>Sensors and Actuators A: Physical</i> , 1995 , 51, 135-142	3.9	59
639	Silicon thin film solar cells on commercial tiles. <i>Energy and Environmental Science</i> , 2011 , 4, 4620	35.4	57
638	P-type ZnO thin film deposited by spray pyrolysis technique: The effect of solution concentration. <i>Thin Solid Films</i> , 2009 , 518, 1149-1152	2.2	57
637	Zinc oxide thin films: Characterization and potential applications. <i>Thin Solid Films</i> , 2010 , 518, 4515-4519	2.2	57
636	Investigations on high visible to near infrared transparent and high mobility Mo doped In ₂ O ₃ thin films prepared by spray pyrolysis technique. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 406-412	6.4	57
635	Role of annealing environment on the performances of large area ITO films produced by rf magnetron sputtering. <i>Thin Solid Films</i> , 2005 , 487, 271-276	2.2	56
634	Lateral photoeffect in large area one-dimensional thin-film position-sensitive detectors based in a-Si:H P-I-N devices. <i>Review of Scientific Instruments</i> , 1995 , 66, 2927-2934	1.7	56
633	Thin film position sensitive detector based on amorphous silicon p ⁺ n diode. <i>Review of Scientific Instruments</i> , 1994 , 65, 3784-3786	1.7	56
632	A Sustainable Approach to Flexible Electronics with Zinc-Tin Oxide Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800032	6.4	56
631	Redox Chloride Elimination Reaction: Facile Solution Route for Indium-Free, Low-Voltage, and High-Performance Transistors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600513	6.4	55
630	In situ one-step synthesis of p-type copper oxide for low-temperature, solution-processed thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2524-2530	7.1	55
629	Broadband photocurrent enhancement in a-Si:H solar cells with plasmonic back reflectors. <i>Optics Express</i> , 2014 , 22 Suppl 4, A1059-70	3.3	55
628	Thermoelectric properties of V ₂ O ₅ thin films deposited by thermal evaporation. <i>Applied Surface Science</i> , 2013 , 282, 590-594	6.7	55
627	Aluminum doped zinc oxide sputtering targets obtained from nanostructured powders: Processing and application. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 4381-4391	6	54
626	UV-Mediated Photochemical Treatment for Low-Temperature Oxide-Based Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31100-31108	9.5	53
625	High k dielectrics for low temperature electronics. <i>Thin Solid Films</i> , 2008 , 516, 1544-1548	2.2	53
624	Influence of the annealing conditions on the properties of ZnO thin films. <i>Solid State Sciences</i> , 2001 , 3, 1125-1128		53
623	Printable cellulose-based electroconductive composites for sensing elements in paper electronics. <i>Flexible and Printed Electronics</i> , 2017 , 2, 014006	3.1	52

622	Solution Combustion Synthesis: Towards a Sustainable Approach for Metal Oxides. <i>Chemistry - A European Journal</i> , 2020 , 26, 9099-9125	4.8	52
621	Ultra-Fast Microwave Synthesis of ZnO Nanorods on Cellulose Substrates for UV Sensor Applications. <i>Materials</i> , 2017 , 10,	3.5	52
620	Inkjet printed and "doctor blade" TiO ₂ photodetectors for DNA biosensors. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1229-34	11.8	52
619	Validating silicon polytrodes with paired juxtacellular recordings: method and dataset. <i>Journal of Neurophysiology</i> , 2016 , 116, 892-903	3.2	52
618	Microstructure control of dual-phase inkjet-printed a-WO ₃ /TiO ₂ /WO _x films for high-performance electrochromic applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13268		51
617	New developments in gallium doped zinc oxide deposited on polymeric substrates by RF magnetron sputtering. <i>Surface and Coatings Technology</i> , 2004 , 180-181, 20-25	4.4	51
616	Efficient coverage of ZnO nanoparticles on cotton fibres for antibacterial finishing using a rapid and low cost in situ synthesis. <i>New Journal of Chemistry</i> , 2018 , 42, 1052-1060	3.6	51
615	The influence of fibril composition and dimension on the performance of paper gated oxide transistors. <i>Nanotechnology</i> , 2014 , 25, 094007	3.4	50
614	Highly Sensitive ZnO Ozone Detectors at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L435-L437	1.4	50
613	Design of optimized wave-optical spheroidal nanostructures for photonic-enhanced solar cells. <i>Nano Energy</i> , 2016 , 26, 286-296	17.1	50
612	Eco-friendly water-induced aluminum oxide dielectrics and their application in a hybrid metal oxide/polymer TFT. <i>RSC Advances</i> , 2015 , 5, 86606-86613	3.7	49
611	Nanostructured silicon and its application to solar cells, position sensors and thin film transistors. <i>Philosophical Magazine</i> , 2009 , 89, 2699-2721	1.6	49
610	Influence of oxygen/argon pressure ratio on the morphology, optical and electrical properties of ITO thin films deposited at room temperature. <i>Vacuum</i> , 2008 , 82, 1507-1511	3.7	49
609	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. <i>Catalysts</i> , 2017 , 7, 60	4	48
608	Papertronics: Multigate paper transistor for multifunction applications. <i>Applied Materials Today</i> , 2018 , 12, 402-414	6.6	48
607	Synthesis of WO ₃ nanoparticles for biosensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 186-194	8.5	47
606	Broadband light trapping in thin film solar cells with self-organized plasmonic nano-colloids. <i>Nanotechnology</i> , 2015 , 26, 135202	3.4	47
605	Highly efficient nanoplasmonic SERS on cardboard packaging substrates. <i>Nanotechnology</i> , 2014 , 25, 415302	3.02	47

604	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. <i>Applied Physics Letters</i> , 2010 , 97, 243506	3.4	47
603	Influence of the oxygen/argon ratio on the properties of sputtered hafnium oxide. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 118, 210-213	3.1	47
602	Studies of solid-state electrochromic devices based on PEO/siliceous hybrids doped with lithium perchlorate. <i>Electrochimica Acta</i> , 2007 , 52, 2938-2943	6.7	46
601	Where science fiction meets reality? With oxide semiconductors!. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 336-339	2.5	45
600	Mapping the Electrical Properties of ZnO-Based Transparent Conductive Oxides Grown at Room Temperature and Improved by Controlled Postdeposition Annealing. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500287	6.4	45
599	Chitin-glucan complex production by <i>Komagataella pastoris</i> : Downstream optimization and product characterization. <i>Carbohydrate Polymers</i> , 2015 , 130, 455-64	10.3	44
598	Transparent thin film transistors based on indium oxide semiconductor. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 2311-2314	3.9	44
597	Polycrystalline intrinsic zinc oxide to be used in transparent electronic devices. <i>Thin Solid Films</i> , 2005 , 487, 212-215	2.2	43
596	Influence of the deposition conditions on the gas sensitivity of zinc oxide thin films deposited by spray pyrolysis. <i>Solid State Sciences</i> , 2001 , 3, 1129-1131		43
595	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	6.4	42
594	Paper-Based Sensing Device for Electrochemical Detection of Oxidative Stress Biomarker 8-Hydroxy-2'-deoxyguanosine (8-OHdG) in Point-of-Care. <i>Scientific Reports</i> , 2017 , 7, 14558	4.9	42
593	Solution-processed high-k magnesium oxide dielectrics for low-voltage oxide thin-film transistors. <i>Applied Physics Letters</i> , 2016 , 109, 183508	3.4	42
592	Improving positive and negative bias illumination stress stability in parylene passivated IGZO transistors. <i>Applied Physics Letters</i> , 2016 , 109, 051606	3.4	42
591	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	9.5	41
590	Structure and Morphologic Influence of WO ₃ Nanoparticles on the Electrochromic Performance of Dual-Phase α -WO ₃ /WO ₃ Inkjet Printed Films. <i>Advanced Electronic Materials</i> , 2015 , 1, 1400002	6.4	41
589	High Mobility α -IGO Films Produced at Room Temperature and Their Application in TFTs. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, H20		41
588	Crystallization of amorphous indium zinc oxide thin films produced by radio-frequency magnetron sputtering. <i>Thin Solid Films</i> , 2008 , 516, 1374-1376	2.2	41
587	Characterization of aluminium doped zinc oxide thin films deposited on polymeric substrates. <i>Vacuum</i> , 2002 , 64, 233-236	3.7	41

586	. <i>Journal of Display Technology</i> , 2010 , 6, 332-335		40
585	Role of order and disorder in covalent semiconductors and ionic oxides used to produce thin film transistors. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 37-42	2.6	40
584	Thermochromic properties of vanadium oxide films prepared by dc reactive magnetron sputtering. <i>Thin Solid Films</i> , 2008 , 516, 1484-1488	2.2	40
583	Towards environmental friendly solution-based ZTO/AlO _x TFTs. <i>Semiconductor Science and Technology</i> , 2015 , 30, 024007	1.8	39
582	A water-induced high-k yttrium oxide dielectric for fully-solution-processed oxide thin-film transistors. <i>Current Applied Physics</i> , 2015 , 15, S75-S81	2.6	38
581	Solution-Processed Alkaline Lithium Oxide Dielectrics for Applications in n- and p-Type Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600140	6.4	38
580	Gelatin in electrochromic devices. <i>Optical Materials</i> , 2010 , 32, 719-722	3.3	38
579	Eco-friendly, solution-processed In-W-O thin films and their applications in low-voltage, high-performance transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4478-4484	7.1	38
578	Direct growth of plasmonic nanorod forests on paper substrates for low-cost flexible 3D SERS platforms. <i>Flexible and Printed Electronics</i> , 2017 , 2, 014001	3.1	37
577	Bio-microfluidic platform for gold nanoprobe based DNA detection--application to Mycobacterium tuberculosis. <i>Biosensors and Bioelectronics</i> , 2013 , 48, 87-93	11.8	37
576	Hydrogenated p-type nanocrystalline silicon in amorphous silicon solar cells. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1900-1903	3.9	37
575	Hydrogenated silicon carbon nitride films obtained by HWCVD, PA-HWCVD and PECVD techniques. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1361-1366	3.9	37
574	Does Impedance Matter When Recording Spikes With Polytrodes?. <i>Frontiers in Neuroscience</i> , 2018 , 12, 715	5.1	37
573	Tailoring nanoscale properties of tungsten oxide for inkjet printed electrochromic devices. <i>Nanoscale</i> , 2015 , 7, 1696-708	7.7	36
572	Nontoxic, Eco-friendly Fully Water-Induced Ternary ZrTiO ₄ Dielectric for High-Performance Transistors and Unipolar Inverters. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800100	6.4	36
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