

# Andrew Flewitt

## List of Publications by Year in descending order

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168  
papers

5,949  
citations

81900

39  
h-index

79698

73  
g-index

170  
all docs

170  
docs citations

170  
times ranked

8296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Electronics: The Next Ubiquitous Platform. Proceedings of the IEEE, 2012, 100, 1486-1517.	21.3	822
2	A Critical Review of Glucose Biosensors Based on Carbon Nanomaterials: Carbon Nanotubes and Graphene. Sensors, 2012, 12, 5996-6022.	3.8	451
3	Recent developments on ZnO films for acoustic wave based bio-sensing and microfluidic applications: a review. Sensors and Actuators B: Chemical, 2010, 143, 606-619.	7.8	353
4	Current and Emerging Technology for Continuous Glucose Monitoring. Sensors, 2017, 17, 182.	3.8	193
5	Ink-jet printing of carbon nanotube thin film transistors. Journal of Applied Physics, 2007, 102, .	2.5	189
6	Deep reactive ion etching as a tool for nanostructure fabrication. Journal of Vacuum Science & Technology B, 2009, 27, 1520-1526.	1.3	119
7	Conjunction of triboelectric nanogenerator with induction coils as wireless power sources and self-powered wireless sensors. Nature Communications, 2020, 11, 58.	12.8	114
8	Effect of work function and surface microstructure on field emission of tetrahedral amorphous carbon. Journal of Applied Physics, 2000, 88, 6002-6010.	2.5	111
9	On the lower thickness boundary of sputtered TiNi films for shape memory application. Thin Solid Films, 2006, 515, 80-86.	1.8	102
10	Defect and disorder reduction by annealing in hydrogenated tetrahedral amorphous carbon. Diamond and Related Materials, 2000, 9, 765-770.	3.9	101
11	Young's modulus of electroplated Ni thin film for MEMS applications. Materials Letters, 2004, 58, 2306-2309.	2.6	101
12	ZnO film thickness effect on surface acoustic wave modes and acoustic streaming. Applied Physics Letters, 2008, 93, .	3.3	99
13	Deposition and characterization of sputtered ZnO films. Superlattices and Microstructures, 2007, 42, 89-93.	3.1	95
14	Dynamic Roughening of Tetrahedral Amorphous Carbon. Physical Review Letters, 2003, 91, 226104.	7.8	94
15	Thermal and chemical vapor deposition of Si nanowires: Shape control, dispersion, and electrical properties. Journal of Applied Physics, 2007, 102, .	2.5	80
16	Effects of Process Conditions on Properties of Electroplated Ni Thin Films for Microsystem Applications. Journal of the Electrochemical Society, 2006, 153, D155.	2.9	78
17	Photoelectrochemical cell using dye sensitized zinc oxide nanowires grown on carbon fibers. Applied Physics Letters, 2008, 93, .	3.3	76
18	Microfluidic pumps employing surface acoustic waves generated in ZnO thin films. Journal of Applied Physics, 2009, 105, .	2.5	74

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19	Moving-part-free microfluidic systems for lab-on-a-chip. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 054001.	2.6	70
20	Interfacial Immobilization of Monoclonal Antibody and Detection of Human Prostate-Specific Antigen. <i>Langmuir</i> , 2011, 27, 7654-7662.	3.5	70
21	Film bulk acoustic resonators (FBARs) as biosensors: A review. <i>Biosensors and Bioelectronics</i> , 2018, 116, 1-15.	10.1	66
22	Surface acoustic wave induced streaming and pumping in 128° Y-cut LiNbO <sub>3</sub> for microfluidic applications. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 035016.	2.6	65
23	High- $\kappa$ ( $\kappa=30$ ) amorphous hafnium oxide films from high rate room temperature deposition. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	61
24	Comparison of microweezers based on three lateral thermal actuator configurations. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1294-1302.	2.6	60
25	Growth mechanism of hydrogenated amorphous silicon studied by in situ scanning tunneling microscopy. <i>Journal of Applied Physics</i> , 1999, 85, 8032-8039.	2.5	58
26	Microfluidics based on ZnO/nanocrystalline diamond surface acoustic wave devices. <i>Biomicrofluidics</i> , 2012, 6, 24105-2410511.	2.4	58
27	Stability of thin film transistors incorporating a zinc oxide or indium zinc oxide channel deposited by a high rate sputtering process. <i>Semiconductor Science and Technology</i> , 2009, 24, 085002.	2.0	57
28	Enzyme-free glucose biosensor based on low density CNT forest grown directly on a Si/SiO <sub>2</sub> substrate. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 586-592.	7.8	55
29	Uniformity Control of Ni Thin-Film Microstructures Deposited by Through-Mask Plating. <i>Journal of the Electrochemical Society</i> , 2005, 152, C36.	2.9	52
30	Low temperature (<100°C) deposited P-type cuprous oxide thin films: Importance of controlled oxygen and deposition energy. <i>Thin Solid Films</i> , 2011, 520, 1278-1284.	1.8	51
31	Interfacial recognition of human prostate-specific antigen by immobilized monoclonal antibody: effects of solution conditions and surface chemistry. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2457-2467.	3.4	49
32	Scalable silicon nanowire photodetectors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 38, 64-66.	2.7	48
33	Zinc Oxide Nanostructures and High Electron Mobility Nanocomposite Thin Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 3001-3011.	3.0	46
34	Design of carbon nanotube fiber microelectrode for glucose biosensing. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 256-262.	3.2	46
35	Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100112.	5.1	46
36	ZnO film for application in surface acoustic wave device. <i>Journal of Physics: Conference Series</i> , 2007, 76, 012035.	0.4	44

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37	A thermalization energy analysis of the threshold voltage shift in amorphous indium gallium zinc oxide thin film transistors under simultaneous negative gate bias and illumination. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	43
38	Film bulk acoustic resonators integrated on arbitrary substrates using a polymer support layer. <i>Scientific Reports</i> , 2015, 5, 9510.	3.3	43
39	AlN-based BAW resonators with CNT electrodes for gravimetric biosensing. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1386-1393.	7.8	42
40	Fabrication and characterization of diamond-like carbon/Ni bimorph normally closed microcages. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1406-1413.	2.6	41
41	Modelling and fabrication of low operation temperature microcages with a polymer/metal/DLC trilayer structure. <i>Sensors and Actuators A: Physical</i> , 2006, 132, 346-353.	4.1	39
42	Intrinsic photoluminescence from low temperature deposited zinc oxide thin films as a function of laser and thermal annealing. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 095305.	2.8	38
43	Effects of post-deposition vacuum annealing on film characteristics of p-type Cu <sub>2</sub> O and its impact on thin film transistor characteristics. <i>Applied Physics Letters</i> , 2016, 109, 173502.	3.3	38
44	Microactuators of free-standing TiNiCu films. <i>Smart Materials and Structures</i> , 2007, 16, 2651-2657.	3.5	37
45	Optimisation of amorphous zinc tin oxide thin film transistors by remote-plasma reactive sputtering. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	37
46	Low temperature growth of silicon nitride by electron cyclotron resonance plasma enhanced chemical vapour deposition. <i>Thin Solid Films</i> , 2001, 383, 172-177.	1.8	36
47	Dual-mode thin film bulk acoustic wave resonators for parallel sensing of temperature and mass loading. <i>Biosensors and Bioelectronics</i> , 2012, 38, 369-374.	10.1	36
48	Protein functionalized ZnO thin film bulk acoustic resonator as an odorant biosensor. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 242-246.	7.8	35
49	Label-free detection of human prostate-specific antigen (hPSA) using film bulk acoustic resonators (FBARs). <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 946-953.	7.8	34
50	Novel Tunnel-Contact-Controlled IGZO Thin-Film Transistors with High Tolerance to Geometrical Variability. <i>Advanced Materials</i> , 2019, 31, e1902551.	21.0	33
51	Near-ultraviolet zinc oxide nanowire sensor using low temperature hydrothermal growth. <i>Nanotechnology</i> , 2012, 23, 344009.	2.6	32
52	Two- and four-electrode, wide-bandwidth, dielectric spectrometer for conductive liquids: Theory, limitations, and experiment. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	31
53	Role of ALD Al <sub>2</sub> O <sub>3</sub> Surface Passivation on the Performance of p-Type Cu <sub>2</sub> O Thin Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4156-4164.	8.0	31
54	Room-temperature remote-plasma sputtering of <i>c</i> -axis oriented zinc oxide thin films. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	30

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55	Scandium Aluminium Nitride-Based Film Bulk Acoustic Resonators. Proceedings (mdpi), 2017, 1, .	0.2	30
56	MEMS based digital variable capacitors with a high-k dielectric insulator. Sensors and Actuators A: Physical, 2006, 132, 139-146.	4.1	29
57	A shape memory microcage of TiNi/DLC films for biological applications. Journal of Micromechanics and Microengineering, 2008, 18, 035026.	2.6	29
58	Analysis of the Conduction Mechanism and Copper Vacancy Density in p-type Cu <sub>2</sub> O Thin Films. Scientific Reports, 2017, 7, 5766.	3.3	28
59	Film bulk acoustic resonator pressure sensor with self temperature reference. Journal of Micromechanics and Microengineering, 2012, 22, 125005.	2.6	27
60	Three types of planar structure microspring electro-thermal actuators with insulating beam constraints. Journal of Micromechanics and Microengineering, 2005, 15, 1527-1535.	2.6	25
61	High-density remote plasma sputtering of high-dielectric-constant amorphous hafnium oxide films. Physica Status Solidi (B): Basic Research, 2013, 250, 957-967.	1.5	25
62	Engineering Schottky Contacts in Open-Air Fabricated Heterojunction Solar Cells to Enable High Performance and Ohmic Charge Transport. ACS Applied Materials & Interfaces, 2014, 6, 22192-22198.	8.0	25
63	Guided propagation of surface acoustic waves and piezoelectric field enhancement in ZnO/GaAs systems. Journal of Applied Physics, 2011, 110, .	2.5	24
64	Analysis of <i>amorphous</i> indium-gallium-zinc-oxide thin-film transistor contact metal using Pilling-Bedworth theory and a variable capacitance diode model. Applied Physics Letters, 2013, 102, .	3.3	24
65	A thermalization energy analysis of the threshold voltage shift in amorphous indium gallium zinc oxide thin film transistors under positive gate bias stress. Applied Physics Letters, 2016, 108, .	3.3	24
66	Normally closed microgrippers using a highly stressed diamond-like carbon and Ni bimorph structure. Applied Physics Letters, 2004, 85, 5748-5750.	3.3	23
67	Micromirror structure actuated by TiNi shape memory thin films. Journal of Micromechanics and Microengineering, 2005, 15, 1872-1877.	2.6	22
68	Evolution of surface morphology in TiNiCu shape memory thin films. Applied Physics Letters, 2006, 89, 171922.	3.3	22
69	The Origin of the High Off-State Current in p-Type Cu <sub>2</sub> O Thin Film Transistors. IEEE Electron Device Letters, 2017, 38, 1394-1397.	3.9	22
70	Nanostructured plasmonic metapixels. Scientific Reports, 2017, 7, 7745.	3.3	22
71	Spectroscopic ellipsometry characterization of ZnO:Sn thin films with various Sn composition deposited by remote-plasma reactive sputtering. Applied Surface Science, 2017, 421, 557-564.	6.1	22
72	Directional nickel-induced fielded aided lateral crystallization of amorphous silicon. Journal of Applied Physics, 2003, 94, 7535.	2.5	21

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73	Spark plasma sintering of TiNi nano-powders for biological application. <i>Nanotechnology</i> , 2006, 17, 5293-5298.	2.6	21
74	Triboelectric nanogenerator-enabled fully self-powered instantaneous wireless sensor systems. <i>Nano Energy</i> , 2022, 92, 106770.	16.0	21
75	Antiferromagnetism and p-type conductivity of nonstoichiometric nickel oxide thin films. <i>Informa Mater</i> , 2020, 2, 769-774.	17.3	20
76	Compact Source-Gated Transistor Analog Circuits for Ubiquitous Sensors. <i>IEEE Sensors Journal</i> , 2020, 20, 14903-14913.	4.7	19
77	Design and modelling of solidly mounted resonators for low-cost particle sensing. <i>Measurement Science and Technology</i> , 2016, 27, 025101.	2.6	18
78	Electric-Field-Resonance-Based Wireless Triboelectric Nanogenerators and Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 794-804.	8.0	18
79	A carbon based bottom gate thin film transistor. <i>Diamond and Related Materials</i> , 2000, 9, 805-810.	3.9	17
80	Characterization of defect removal in hydrogenated and deuterated amorphous silicon thin film transistors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1700-1703.	3.1	17
81	Direct comparison of the gravimetric responsivities of ZnO-based FBARs and SMRs. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 136-143.	7.8	17
82	Enhancement of microfluidic efficiency with nanocrystalline diamond interlayer in the ZnO-based surface acoustic wave device. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 377-386.	2.2	17
83	Laser micromachining of sputtered DLC films. <i>Applied Surface Science</i> , 2006, 252, 4914-4918.	6.1	16
84	Characterization of the surface acoustic wave devices based on ZnO/nanocrystalline diamond structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1575-1583.	1.8	16
85	Homologous binary mixtures and improved hole conduction of self-assembled discotic liquid crystals. <i>Organic Electronics</i> , 2016, 36, 35-44.	2.6	16
86	Zinc tin oxide thin film transistors produced by a high rate reactive sputtering: Effect of tin composition and annealing temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600470.	1.8	16
87	Observation of protein-protein interaction by dielectric relaxation spectroscopy of protein solutions for biosensor application. <i>Applied Physics Letters</i> , 2007, 90, 123901.	3.3	15
88	Gravimetric sensors operating at 1.1 GHz based on inclined c-axis ZnO grown on textured Al electrodes. <i>Scientific Reports</i> , 2017, 7, 1367.	3.3	15
89	Room temperature sputtering of inclined c-axis ZnO for shear mode solidly mounted resonators. <i>Applied Physics Letters</i> , 2016, 108, 034103.	3.3	15
90	ZnO-Based FBAR resonators with carbon nanotube electrodes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2438-2445.	3.0	14

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91	Physical and electrical properties of low temperature (<100% <sup>o</sup> C) SiO <sub>2</sub> films deposited by electron cyclotron resonance plasmas. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 728-739.	2.1	13
92	High mobility, bottom gate, nanocrystalline silicon thin film transistors incorporating a nitrogenated incubation layer. Current Applied Physics, 2011, 11, 171-175.	2.4	13
93	Development of an all-metal electrothermal actuator and its applications. , 2004, , .		10
94	Thin film shape memory alloys for optical sensing applications. Journal of Physics: Conference Series, 2007, 76, 012032.	0.4	10
95	Highly stable amorphous zinc tin oxynitride thin film transistors under positive bias stress. Applied Physics Letters, 2017, 111, 122109.	3.3	10
96	Carbon nanotube isolation layer enhancing in-liquid quality-factors of thin film bulk acoustic wave resonators for gravimetric sensing. Sensors and Actuators B: Chemical, 2018, 261, 398-407.	7.8	10
97	Control of grain orientation and its impact on carrier mobility in reactively sputtered Cu <sub>2</sub> O thin films. Thin Solid Films, 2020, 704, 138000.	1.8	10
98	Absence of enhanced stability in fully deuterated amorphous silicon thin-film transistors. Journal of Applied Physics, 2005, 98, 054505.	2.5	9
99	Fabrication of nanostructured transmissive optical devices on ITO-glass with UV1116 photoresist using high-energy electron beam lithography. Nanotechnology, 2016, 27, 485301.	2.6	9
100	Self-assembled liquid crystalline nanotemplates and their incorporation in dye-sensitised solar cells. Electrochimica Acta, 2016, 222, 657-667.	5.2	9
101	Integrated ZnO Surface Acoustic Wave Microfluidic and Biosensor System. , 2007, , .		8
102	Synthesis of ZnO nanowires for thin film network transistors. Proceedings of SPIE, 2008, , .	0.8	8
103	Radio frequency magnetic field detection using piezoelectric coupled microcantilevers. Smart Materials and Structures, 2011, 20, 025016.	3.5	8
104	On-chip temperature-compensated Love mode surface acoustic wave device for gravimetric sensing. Applied Physics Letters, 2014, 105, .	3.3	8
105	Instability measurements in amorphous hydrogenated silicon using capacitance-voltage techniques. Applied Physics Letters, 2005, 86, 202110.	3.3	7
106	Deposition and characterisation of ultralow-stress ZnO thin films for application in FBAR-based gravimetric biosensors. International Journal of Nanomanufacturing, 2011, 7, 371.	0.3	7
107	a-Si:H TFT Thin Film and Substrate Materials. , 2004, , 15-78.		7
108	Stability of fully deuterated amorphous silicon thin-film transistors. Applied Physics Letters, 2005, 86, 063513.	3.3	6

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109	Ultrafast sputtered ZnO thin films with high $k$ and $Q$ for acoustic wave device applications. , 2010, , .		6
110	Experimental verification of electrostatic boundary conditions in gate-patterned quantum devices. Journal Physics D: Applied Physics, 2018, 51, 244004.	2.8	6
111	Air Stable Indium-Gallium-Zinc-Oxide Diodes With a 6.4 GHz Extrinsic Cutoff Frequency Fabricated Using Adhesion Lithography. IEEE Electron Device Letters, 2020, 41, 175-178.	3.9	6
112	A novel split mode TFBAR device for quantitative measurements of prostate specific antigen in a small sample of whole blood. Nanoscale, 2020, 12, 9647-9652.	5.6	6
113	Stress and Crystallization of Plasma Enhanced Chemical Vapour Deposition Nanocrystalline Silicon Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 2693-2698.	0.9	5
114	Nanoparticulate PdZn as a Novel Catalyst for ZnO Nanowire Growth. Nanoscale Research Letters, 2010, 5, 904-907.	5.7	5
115	The influence of acoustic reflectors on the temperature coefficient of frequency of solidly mounted resonators. , 2014, , .		5
116	Effects of Ni Deposition on the Electrochemical Properties of CNT/Ni Electrode and Its Application for Glucose Sensing. Journal of Nanoscience and Nanotechnology, 2015, 15, 3196-3199.	0.9	5
117	Split resonances for simultaneous detection and control measurements in a single bulk acoustic wave (BAW) sensor. Nanoscale, 2018, 10, 14395-14399.	5.6	5
118	Directional Field Aided Lateral Crystallization of Amorphous Silicon Thin Films. Materials Research Society Symposia Proceedings, 2001, 664, 671.	0.1	4
119	Quantitative Investigation of the Factors Affecting the Hydrothermal Growth of Zinc Oxide Nanowires. Materials Research Society Symposia Proceedings, 2009, 1174, 160.	0.1	4
120	Sensors based on SAW and FBAR technologies. , 2013, , .		4
121	Tail state mediated conduction in zinc tin oxide thinfilm phototransistors under below bandgap optical excitation. Scientific Reports, 2021, 11, 19016.	3.3	4
122	Development of thermal actuators with multi-locking positions. Journal of Physics: Conference Series, 2006, 34, 794-799.	0.4	3
123	Numerical Simulation of the Growth of ZnO Nanostructures in a Tube Furnace by Physical Vapour Deposition. Materials Research Society Symposia Proceedings, 2008, 1074, 1.	0.1	3
124	In-Situ Observation of Transition Between Surface Relief and Wrinkling in Thin Film Shape Memory Alloys. Journal of Nanoscience and Nanotechnology, 2008, 8, 2588-2596.	0.9	3
125	Corrections to "Zinc Oxide Nanostructures and High Electron Mobility Nanocomposite Thin Film Transistors" [Nov 08 3001-3011]. IEEE Transactions on Electron Devices, 2009, 56, 156-156.	3.0	3
126	Nanocrystalline Silicon Thin Films Fabricated at 80°C by Using Electron Cyclotron Resonance Chemical Vapor Deposition. Plasma Science and Technology, 2010, 12, 608-613.	1.5	3



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127	Low attenuation of GHz Rayleigh-like surface acoustic waves in ZnO/GaAs systems immersed in liquid helium. Applied Physics Letters, 2013, 102, 043507.	3.3	3
128	Photoconductive laser spectroscopy as a method to enhance defect spectral signatures in amorphous oxide semiconductor thin-film transistors. Applied Physics Letters, 2019, 114, 011907.	3.3	3
129	Effect of Plasma Treatment on Metal Oxide Thin Film Diodes Fabricated at Room Temperature. Advanced Materials Interfaces, 2021, 8, 2100049.	3.7	3
130	Hydrogenated Amorphous Silicon Thin Film Transistors (a-Si:H TFTs). , 2012, , 627-646.		3
131	ZnO Thin Film Surface Acoustic Wave based Lab-on-a-Chip. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	2
132	Fabrication of high-Q film bulk acoustic resonator (FBAR) filters with carbon nanotube (CNT) electrodes. , 2010, , .		2
133	Film bulk acoustic resonator nanosensors for multi-task sensing. International Journal of Nanomanufacturing, 2011, 7, 448.	0.3	2
134	Acoustic properties of carbon nanotube electrodes in BAW resonators. , 2013, , .		2
135	Seed layer controlled deposition of ZnO films with a tilted c-axis for shear mode resonators. , 2014, , .		2
136	(Invited) Stability under Gate Bias Stressing of Amorphous Oxide Thin Film Transistors. ECS Transactions, 2016, 75, 179-187.	0.5	2
137	An Approach to Simultaneously Test Multiple Devices for High-Throughput Production of Thin-Film Electronics. Journal of Display Technology, 2016, 12, 240-246.	1.2	2
138	Analysis of Amorphous Indium-Gallium-Zinc-Oxide Thin-Film Transistors with Bi-Layer Gate Dielectric Stacks Using Maxwell-Wagner Instability Model. ECS Transactions, 2017, 80, 347-356.	0.5	2
139	Hydrogenated Amorphous Silicon Thin-Film Transistors (a-Si:H TFTs). , 2016, , 887-909.		2
140	Hydrogenated Amorphous Silicon Thin-Film Transistors (a-Si:H TFTs). , 2014, , 1-18.		2
141	A Model for the Hydrothermal Growth of Zinc Oxide Nanorods in a High Solution Concentration Regime. Journal of Nanoelectronics and Optoelectronics, 2019, 14, 1451-1460.	0.5	2
142	Plasma enhanced chemical vapor deposition of p-type Cu <sub>2</sub> O from metal organic precursors. Journal of Applied Physics, 2022, 131, .	2.5	2
143	High Quality Growth of SiO <sub>2</sub> at 80° C by Electron Cyclotron Resonance (ECR) for Thin Film Transistors. Materials Research Society Symposia Proceedings, 2001, 685, 1.	0.1	1
144	<title>Large displacement spring-like electro-mechanical thermal actuators with insulator constraint beams</title>. , 2005, , .		1

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145	Micromirror structure based on TiNi shape memory thin films. , 2005, , .		1
146	NANOCRYSTALLINE SILICON FILMS FOR THIN FILM TRANSISTOR AND OPTOELECTRONIC APPLICATIONS. , 2007, , 473-511.		1
147	Deposition of Low Stress Amorphous Zinc Tin Oxide at Ambient Temperature Using a Remote Plasma Sputtering Process Suitable for Delicate Substrates. ECS Transactions, 2013, 50, 73-81.	0.5	1
148	A wide-range frequency tunable SMR-CMOS oscillator for gas sensing. , 2014, , .		1
149	Investigation of polymer deposition techniques on a Solidly Mounted Resonator arrays for vapour sensing. , 2014, , .		1
150	High-resistivity metal-oxide films through an interlayer of graphene grown directly on copper electrodes. Graphene Technology, 2018, 3, 11-18.	1.9	1
151	Hydrogenated Amorphous Silicon and Silicon Nitride Deposited at less than 100Å° C by ECR-PECVD for Thin Film Transistors. Materials Research Society Symposia Proceedings, 2000, 609, 2821.	0.1	0
152	Biopsy applications of Ti50Ni41Cu9 shape memory films for wireless capsule endoscope. , 2004, , .		0
153	Absence of enhanced stability in deuterated amorphous silicon thin film transistors. Materials Research Society Symposia Proceedings, 2004, 808, 77.	0.1	0
154	<title>TiNi shape memory alloy based micropumps</title>. , 2005, , .		0
155	Variable RF capacitor based on a-Si:H (P-doped) multi-length cantilevers. Journal of Physics: Conference Series, 2006, 34, 788-793.	0.4	0
156	DLC/TiNi microcage for biopsy applications. , 2007, , .		0
157	Influence of process route on membrane profile and Q-factor of an acoustic resonator sensor. Procedia Engineering, 2010, 5, 1388-1391.	1.2	0
158	Flat panel displays. , 0, , 213-228.		0
159	High frequency high-order Rayleigh modes in ZnO/GaAs. , 2011, , .		0
160	Solidly mounted resonators with carbon nanotube electrodes for biosensing applications. , 2011, , .		0
161	Surface acoustic waves in liquid helium for enhanced single-electron transport applications. , 2012, , .		0
162	DC current rectification using indium-gallium zinc oxide-based selfswitching diodes. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
163	ZnO/AlN stacked BAW resonators with double resonance. , 2014, , .		0
164	Electrodeposited Cu <sub>2</sub> O   ZnO Heterostructures With High Built-In Voltages For Photovoltaic Applications. Materials Research Society Symposia Proceedings, 2014, 1675, 27-32.	0.1	0
165	(Invited) Instability Mechanisms in Amorphous Oxide Semiconductors Leading to a Threshold Voltage Shift in Thin Film Transistors. ECS Transactions, 2017, 79, 49-56.	0.5	0
166	Hafnium Nitride as High Acoustic Impedance Material for Fully Insulating Acoustic Reflectors. , 2018, , .		0
167	In vitro dissolution behavior of hydrogenated amorphous silicon thin-film transistors. Npj Materials Degradation, 2018, 2, .	5.8	0
168	Kinetics of Field-Aided Nickel Induced Lateral Crystallisation of Hydrogenated Amorphous Silicon. , 2005, , 287-292.		0