

Thomas N Jackson

List of Publications by Year in descending order

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44
papers

3,400
citations

394286

19
h-index

434063

31
g-index

45
all docs

45
docs citations

45
times ranked

5136
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible high-temperature dielectric materials from polymer nanocomposites. <i>Nature</i> , 2015, 523, 576-579.	13.7	1,476
2	All-organic active matrix flexible display. <i>Applied Physics Letters</i> , 2006, 88, 083502.	1.5	541
3	Mobility overestimation due to gated contacts in organic field-effect transistors. <i>Nature Communications</i> , 2016, 7, 10908.	5.8	423
4	Effects of polymorphism on charge transport in organic semiconductors. <i>Physical Review B</i> , 2009, 80, .	1.1	137
5	Fast PEALD ZnO Thin-Film Transistor Circuits. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 530-534.	1.6	86
6	Correlation between microstructure, electronic properties and flicker noise in organic thin film transistors. <i>Applied Physics Letters</i> , 2008, 92, 132103.	1.5	82
7	Fast Flexible Plastic Substrate ZnO Circuits. <i>IEEE Electron Device Letters</i> , 2010, 31, 323-325.	2.2	66
8	Influence of Carbon in Metalorganic Chemical Vapor Deposition of Few-Layer WSe ₂ Thin Films. <i>Journal of Electronic Materials</i> , 2016, 45, 6273-6279.	1.0	47
9	CMOS Ultrasound Transceiver Chip for High-Resolution Ultrasonic Imaging Systems. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009, 3, 293-303.	2.7	45
10	Oxide Semiconductor Thin Film Transistors on Thin Solution-Cast Flexible Substrates. <i>IEEE Electron Device Letters</i> , 2015, 36, 35-37.	2.2	43
11	Morphology and electrical transport in pentacene films on silylated oxide surfaces. <i>Journal of Materials Research</i> , 2004, 19, 2003-2007.	1.2	42
12	Self-Aligned-Gate ZnO TFT Circuits. <i>IEEE Electron Device Letters</i> , 2010, 31, 326-328.	2.2	41
13	Predicting the J - V Curve in Organic Photovoltaics Using Impedance Spectroscopy. <i>Advanced Energy Materials</i> , 2014, 4, 1400499.	10.2	38
14	Controlling Chain Conformations of High- k Fluoropolymer Dielectrics to Enhance Charge Mobilities in Rubrene Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 10095-10102.	11.1	38
15	Thin-film morphology and transistor performance of alkyl-substituted triethylsilylethynyl anthradithiophenes. <i>Journal of Materials Chemistry</i> , 2009, 19, 7984.	6.7	36
16	Low-Voltage Double-Gate ZnO Thin-Film Transistor Circuits. <i>IEEE Electron Device Letters</i> , 2013, 34, 891-893.	2.2	31
17	Thin Film Transistors Using Wafer-Scale Low-Temperature MOCVD WSe ₂ . <i>Journal of Electronic Materials</i> , 2016, 45, 6280-6284.	1.0	26
18	ZnO Thin Film, Device, and Circuit Fabrication using Low-Temperature PECVD Processes. <i>Journal of Electronic Materials</i> , 2008, 37, 755-759.	1.0	25

#	ARTICLE	IF	CITATIONS
19	High-temperature crystallized thin-film PZT on thin polyimide substrates. Journal of Applied Physics, 2017, 122, .	1.1	23
20	Electrical properties of plasma enhanced chemical vapor deposition a-Si:H and a-Si _{1-x} C _x :H for microbolometer applications. Journal of Applied Physics, 2013, 114, 183705.	1.1	19
21	Non-Relief Pattern Lithography Patterning of Solution Processed Organic Semiconductors. Advanced Materials, 2008, 20, 4145-4147.	11.1	16
22	Low-Temperature Pulsed-PECVD ZnO Thin-Film Transistors. Journal of Electronic Materials, 2010, 39, 554-558.	1.0	15
23	The effect of single atom replacement on organic thin film transistors: case of thieno[3,2-b]pyrrole vs. furo[3,2-b]pyrrole. Journal of Materials Chemistry C, 2018, 6, 10050-10058.	2.7	14
24	High temperature coefficient of resistance molybdenum oxide and nickel oxide thin films for microbolometer applications. Optical Engineering, 2015, 54, 037101.	0.5	13
25	Trilayer ZnO Thin-Film Transistors With In Situ Al_2O_3 Passivation. IEEE Electron Device Letters, 2013, 34, 1400-1402.	2.2	12
26	Kirigami-Inspired 3D Organic Light-Emitting Diode (OLED) Lighting Concepts. Advanced Materials Technologies, 2018, 3, 1800067.	3.0	11
27	Micromachined diaphragm transducers for miniaturised ultrasound arrays. , 2012, , .		9
28	ZnO thin film transistors and circuits on glass and polyimide by low-temperature PEALD. , 2009, , .		8
29	Potential for reactive pulsed-dc magnetron sputtering of nanocomposite VO _x microbolometer thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	6
30	Aluminum oxide free-standing thin films to enable nitrogen edge soft x-ray scattering. MRS Communications, 2019, 9, 224-228.	0.8	6
31	10 MHz Thin-Film PZT-Based Flexible PMUT Array: Finite Element Design and Characterization. Sensors, 2020, 20, 4335.	2.1	6
32	Stress-balancing in piezoelectric adjustable x-ray optics. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.0	5
33	Low-voltage ZnO double-gate thin film transistor circuits. , 2012, , .		3
34	ZnO thin film transistors for more than just displays. , 2015, , .		3
35	Flexible plastic substrate ZnO thin film transistor circuits. , 2009, , .		2
36	Fabrication and Characterization of Flexible Thin Film Transistors on Thin Solution-Cast Substrates. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	Challenges in double-beam laser interferometry measurements of fully released piezoelectric films. Journal of Applied Physics, 2022, 131, .	1.1	2
38	Tri-layer PEALD ZnO thin film transistors and circuits. , 2013, , .		1
39	Self-aligned-gate PEALD ZnO TFT circuits. , 2009, , .		0
40	61.1: Invited Paper: ZnO Thin Film Transistors and Circuits on Flexible Polymeric Substrates by Low-Temperature PEALD. Digest of Technical Papers SID International Symposium, 2010, 41, 909.	0.1	0
41	Self-Aligned Electrodes on SU-8 Negative Photoresist Pedestals. Journal of Microelectromechanical Systems, 2014, 23, 508-510.	1.7	0
42	Double-gate ZnO TFT active rectifier. , 2014, , .		0
43	Structural origins of electrical asymmetries of ZnO vertical thin film transistors. , 2015, , .		0
44	Your golden age of device research. , 2017, , .		0