Ming-Han Liao

List of Publications by Year in descending order

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1040056 888059 39 599 9 17 citations h-index g-index papers 39 39 39 787 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The Demonstration of High-Quality Carbon Nanotubes as Through-Silicon Vias (TSVs) for Three-Dimensional Connection Stacking and Power-Via Technology. IEEE Transactions on Electron Devices, 2022, 69, 1600-1603.	3.0	5
2	Experimental Insights of Reverse Switching Charge for Antiferroelectric Hfâ,€.â,₹râ,€.â,‰Oâ,,. IEEE Electron Devic Letters, 2022, 43, 1559-1562.	e _{3.9}	3
3	Multi-Layer Chips on Wafer Stacking Technologies with Carbon Nano-Tubes as Through-Silicon Vias and it's potential applications for Power-Via technologies. , 2022, , .		2
4	Negative Schottky barrier height and surface inhomogeneity in n-silicon M–l–S structures. AIP Advances, 2022, 12, .	1.3	1
5	In-Sn-Zn Oxide Nanocomposite Films with Enhanced Electrical Properties Deposited by High-Power Impulse Magnetron Sputtering. Nanomaterials, 2021, 11, 2016.	4.1	4
6	Multi-Ferroic Properties on BiFeO3/BaTiO3 Multi-Layer Thin-Film Structures with the Strong Magneto-Electric Effect for the Application of Magneto-Electric Devices. Coatings, 2021, 11, 66.	2.6	8
7	The Investigation for Thickness-Dependent Electrical Performance on BaTiO ₃ /BiFeO ₃ Bilayer Ferromagnetic Capacitors. IEEE Transactions on Electron Devices, 2020, 67, 3417-3423.	3.0	3
8	p-type semi-transparent conductive NiO films with high deposition rate produced by superimposed high power impulse magnetron sputtering. Ceramics International, 2020, 46, 27695-27701.	4.8	10
9	Ferroelectric HfZrO ₂ With Electrode Engineering and Stimulation Schemes as Symmetric Analog Synaptic Weight Element for Deep Neural Network Training. IEEE Transactions on Electron Devices, 2020, 67, 4201-4207.	3.0	33
10	The real demonstration of High-Quality Carbon Nano-Tubes (CNTs) as the electrical connection for the potential application in a vertical 3D integrated technology. , 2020, , .		3
11	The Demonstration of 3-D Bi _{2.0 //sub>Te_{2.7}Se_{0.3}/Bi_{0.4}Te_{3.0}Sb_{1.6}Te Devices by Ionized Sputter System. IEEE Transactions on Electron Devices, 2020, 67, 406-408.}	h aro noeled	ctric
12	The Demonstration of Carbon Nanotubes (CNTs) as Flip-Chip Connections in 3-D Integrated Circuits With an Ultralow Connection Resistance. IEEE Transactions on Electron Devices, 2020, 67, 2205-2207.	3.0	7
13	Double Layers Omega FETs with Ferroelectric HfZrO2 for One-Transistor Memory. , 2020, , .		2
14	Influence of Sputtering Power on the Electrical Properties of In-Sn-Zn Oxide Thin Films Deposited by High Power Impulse Magnetron Sputtering. Coatings, 2019, 9, 715.	2.6	6
15	The Development of a Dynamic Model to Investigate the Dielectric Layer Thickness Effect for the Device Performance in Triboelectric Nanogenerators. IEEE Transactions on Electron Devices, 2019, 66, 4478-4480.	3.0	5
16	Non-Volatile Ferroelectric FETs Using 5-nm Hf _{0.5} Zr _{0.5} O ₂ With High Data Retention and Read Endurance for 1T Memory Applications. IEEE Electron Device Letters, 2019, 40, 399-402.	3.9	83
17	Comparison of microstructures and magnetic properties in FePt alloy films deposited by direct current magnetron sputtering and high power impulse magnetron sputtering. Journal of Alloys and Compounds, 2019, 803, 341-347.	5.5	8
18	Ferroelectric HfZrO2 FETs for steep switch onset. Microelectronic Engineering, 2019, 215, 110991.	2.4	5

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19	Optoelectronic properties of Cu3N thin films deposited by reactive magnetron sputtering and its diode rectification characteristics. Journal of Alloys and Compounds, 2019, 789, 428-434.	5.5	29
20	Bi-directional Sub-60mV/dec, Hysteresis-Free, Reducing Onset Voltage and High Speed Response of Ferroelectric-AntiFerroelectric Hf $<$ sub $>$ 0.25 $<$ /sub $>$ 2 $<$ /sub $>$ 0.75 $<$ /sub $>$ 0 $<$ sub $>$ 2 $<$ /sub $>$ Negative Capacitance FETs. , 2019, , .		8
21	Synthesis and characterization of n-type NiO:Al thin films for fabrication of p-n NiO homojunctions. Journal Physics D: Applied Physics, 2018, 51, 105109.	2.8	13
22	Thickness dependence of electrical conductivity and thermo-electric power of Bi2.0Te2.7Se0.3/Bi0.4Te3.0Sb1.6 thermo-electric devices. AIP Advances, 2018, 8, 015020.	1.3	8
23	Planarization, Fabrication, and Characterization of Three-Dimensional Magnetic Field Sensors. IEEE Nanotechnology Magazine, 2018, 17, 11-25.	2.0	19
24	The Demonstration of High-Performance Multilayer BaTiO \hat{a} , f /BiFeO \hat{a} , f Stack MIM Capacitors. IEEE Transactions on Electron Devices, 2018, , 1-5.	3.0	6
25	Ferroelectric Characteristics of Ultra-thin Hf <inf>1-x</inf> Zr <inf>x</inf> O <inf>2</inf> Gate Stack and 1T Memory Operation Applications. , 2018, , .		1
26	Ferroelectric HfZrO _x FETs on SOI Substrate With Reverse-DIBL (Drain-Induced Barrier) Tj ETQq0 0 0 2018, 6, 900-904.	rgBT /Ove 2.1	erlock 10 Tf 50 14
27	Systematic Investigation of Self-Heating Effect on CMOS Logic Transistors From 20 to 5 nm Technology Nodes by Experimental Thermoelectric Measurements and Finite Element Modeling. IEEE Transactions on Electron Devices, 2017, 64, 646-648.	3.0	17
28	The investigation of self-heating effect on Si1-xGex FinFETs with different device structures, Ge concentration, and operated voltages. AIP Advances, 2017, 7, 055105.	1.3	1
29	Performance enhancement for the triboelectric energy harvester by using interfacial micro-dome array structures. Applied Physics Letters, 2017, 110, .	3.3	11
30	The investigation of the diameter dimension effect on the Si nano-tube transistors. AIP Advances, 2016, 6, 035021.	1.3	0
31	Physical thickness 1.x nm ferroelectric HfZrOx negative capacitance FETs., 2016,,.		105
32	Accompanied arrangement effect of stretched gate width and dummy diffusion region on strained silicon PMOSFETs. , 2016, , .		0
33	The demonstration of promising Ge n-type multi-gate-field-effect transistors with the magnetic FePt metal gate scheme. Applied Physics Letters, 2015, 107, .	3.3	6
34	Sub-60mV-swing negative-capacitance FinFET without hysteresis. , 2015, , .		163
35	The Demonstration of Dislocation-Stress Memorization Technique Stressor on Si n-FinFETs. IEEE Nanotechnology Magazine, 2015, 14, 657-659.	2.0	2
36	Effects of array type of dummy active diffused region and gate geometries on narrow NMOSFETs with SiC S/D stressors. , 2014 , , .		0

#	Article	IF	CITATIONS
37	The chemical vapor deposition chamber design to improve the thin film deposition quality in both $12\&\#x2033$; (300 mm) and $18\&\#x2033$; (450 mm) wafers with the development of 3D chamber modeling and experimental visual technique., 2013 ,,.		0
38	The Optimization of SiGe Hetero-Structure Thin-Film Solar Cell by the Theoretical Calculation and Quantitative Analysis. , $2012, \ldots$		0
39	Additional Nitrogen Ion-Implantation Treatment in STI to Relax the Intrinsic Compressive Stress for n-MOSFETs. IEEE Transactions on Electron Devices, 2012, 59, 2033-2036.	3.0	7