

Byeong Hyeon Lee

List of Publications by Year in descending order

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14
papers

134
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1684188

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#	ARTICLE	IF	CITATIONS
1	Flexible artificial Si-In-Zn-O/ion gel synapse and its application to sensory-neuromorphic system for sign language translation. <i>Science Advances</i> , 2021, 7, eabg9450.	10.3	41
2	Direct investigation on energy bandgap of Si added ZnSnO system for stability enhancement by X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , 2017, 715, 9-15.	5.5	22
3	Mechanism of carrier controllability with metal capping layer on amorphous oxide SiZnSnO semiconductor. <i>Scientific Reports</i> , 2019, 9, 886.	3.3	22
4	Investigation on energy bandgap states of amorphous SiZnSnO thin films. <i>Scientific Reports</i> , 2019, 9, 19246.	3.3	15
5	Dependency of Si Content on the Performance of Amorphous SiZnSnO Thin Film Transistor Based Logic Circuits for Next-Generation Integrated Circuits. <i>Transactions on Electrical and Electronic Materials</i> , 2019, 20, 175-180.	1.9	6
6	Characteristics and Electronic Band Alignment of a Transparent p-CuI/n-SiZnSnO Heterojunction Diode with a High Rectification Ratio. <i>Nanomaterials</i> , 2021, 11, 1237.	4.1	6
7	Investigation on the improvement of stability of nitrogen doped amorphous SiInZnO thin-film transistors. <i>Solid-State Electronics</i> , 2019, 158, 59-63.	1.4	5
8	Notice of Removal: Exceptionally Linear and Highly Sensitive Photo-Induced Unipolar Inverter Device. <i>IEEE Journal of the Electron Devices Society</i> , 2021, 9, 180-186.	2.1	4
9	Electrode-Adaptive Thin-Film Integrated Logic Circuits. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 957-962.	3.0	3
10	High Sensitivity of HCl Gas Sensor Based on Pentacene Organic Field-Effect Transistor. <i>Transactions on Electrical and Electronic Materials</i> , 2021, 22, 140-145.	1.9	3
11	Ammonia Gas Sensing Properties of 6,13-Bis(tri-isopropylsilyl)ethynyl Pentacene Based Field-Effect Transistor. <i>Transactions on Electrical and Electronic Materials</i> , 2022, 23, 182-186.	1.9	3
12	Thin Film Logic Circuit with Metal Capping Layered amorphous SiZnSnO thin-film transistors. , 2018, , .		1
13	Effect of Silicon Doping on the Electrical Performance of Amorphous SiInZnO Thin-film Transistors. <i>Transactions on Electrical and Electronic Materials</i> , 2021, 22, 133-139.	1.9	1
14	Electrical Performance of Amorphous Oxide/Colloidal Quantum Dot/Amorphous Oxide Hybrid Thin Film Transistor. <i>Transactions on Electrical and Electronic Materials</i> , 2022, 23, 25.	1.9	0