

Jiyun Choi

List of Publications by Year in descending order

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31
papers

824
citations

687363

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526287

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31
all docs

31
docs citations

31
times ranked

1080
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible resistive switching of SrTiO _x thin films for nonvolatile memory applications. Applied Physics Letters, 2006, 88, 082904.	3.3	125
2	Resistance switching of the nonstoichiometric zirconium oxide for nonvolatile memory applications. IEEE Electron Device Letters, 2005, 26, 719-721.	3.9	107
3	Resistance-switching Characteristics of polycrystalline Nb/sub 2/O/sub 5/ for nonvolatile memory application. IEEE Electron Device Letters, 2005, 26, 292-294.	3.9	101
4	Electron mean free path of tungsten and the electrical resistivity of epitaxial (110) tungsten films. Physical Review B, 2012, 86, .	3.2	79
5	Observing Oxygen Vacancy Driven Electroforming in Ptâ€“TiO₂â€“Pt Device via Strong Metal Support Interaction. Nano Letters, 2016, 16, 2139-2144.	9.1	73
6	Failure of semiclassical models to describe resistivity of nanometric, polycrystalline tungsten films. Journal of Applied Physics, 2014, 115, .	2.5	52
7	Coexistence of unipolar and bipolar resistive switching in Pt/NiO/Pt. Applied Physics Letters, 2014, 104, .	3.3	33
8	On the potential of tungsten as next-generation semiconductor interconnects. Electronic Materials Letters, 2017, 13, 449-456.	2.2	33
9	Crystallographic anisotropy of the resistivity size effect in single crystal tungsten nanowires. Scientific Reports, 2013, 3, 2591.	3.3	32
10	The electron scattering at grain boundaries in tungsten films. Microelectronic Engineering, 2014, 122, 5-8.	2.4	30
11	Highly flexible, transparent and conductive ultrathin silver film heaters for wearable electronics applications. Thin Solid Films, 2020, 697, 137835.	1.8	27
12	Thermal stability enhancement of ultrathin Ag film electrodes by incorporating atomic oxygen. Applied Surface Science, 2021, 546, 149149.	6.1	20
13	Phase transformation in thin tungsten films during sputter deposition. Microelectronic Engineering, 2017, 183-184, 19-22.	2.4	19
14	Excellent resistance switching characteristics of Pt/SrTiO/sub 3/ schottky junction for multi-bit nonvolatile memory application. , 0, , .		14
15	Surface roughness and magnetic properties of L1 FePt films on MgO/CrRu/TiN. Journal of Applied Physics, 2012, 112, .	2.5	11
16	Regulating Ag Wettability via Modulating Surface Stoichiometry of ZnO Substrates for Flexible Electronics. Advanced Functional Materials, 2021, 31, 2104372.	14.9	11
17	Transparent planar layer copper heaters for wearable electronics. Applied Surface Science, 2021, 559, 149895.	6.1	9
18	Strategy for Fabricating Ultrathin Au Film Electrodes with Ultralow Optoelectrical Losses and High Stability. ACS Applied Materials & Interfaces, 2022, 14, 12797-12811.	8.0	9

#	ARTICLE	IF	CITATIONS
19	The Transmittance Modulation of ZnO/Ag/ZnO Flexible Transparent Electrodes Fabricated by Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 379-383.	0.9	8
20	Simultaneous Enhancement in Visible Transparency and Electrical Conductivity via the Physicochemical Alterations of Ultrathin-Silver-Film-Based Transparent Electrodes. <i>Nano Letters</i> , 2022, 22, 3133-3140.	9.1	8
21	The Transmittance Modulation of ZnO/Cu/ZnO Transparent Conductive Electrodes Prepared on Glass Substrates. <i>Materials</i> , 2020, 13, 3916.	2.9	5
22	A 3nm-thick, quasi-single crystalline Cu layer with ultralow optoelectrical losses and exceptional durability. <i>Acta Materialia</i> , 2022, 223, 117484.	7.9	5
23	Highly thermostable ultrathin planar Ag transparent heaters. <i>Microelectronic Engineering</i> , 2022, 251, 111658.	2.4	4
24	Resistance switching of Al doped ZnO for Non Volatile Memory applications. , 0, , .		2
25	The critical role of substrate bias for the sputter deposition of molybdenum thin films. <i>Microelectronic Engineering</i> , 2019, 216, 111084.	2.4	2
26	Micro-to-Nanometer Scale Patterning of Perovskite Inks via Controlled Self-Assemblies. <i>Materials</i> , 2022, 15, 1521.	2.9	2
27	Thickness estimation of the silica-like thin layers via swelling-driven wrinkling instability. <i>Thin Solid Films</i> , 2020, 697, 137812.	1.8	1
28	Deposition of Low-Resistivity Aluminum Thin Films Via Application of Substrate Bias During Magnetron Sputtering. <i>Journal of Korean Institute of Metals and Materials</i> , 2020, 58, 715-720.	1.0	1
29	Highly impermeable Al ₂ O ₃ moisture barriers prepared by multiple plasma oxidation of discontinuous aluminum layers for optoelectronic devices. <i>Thin Solid Films</i> , 2022, 746, 139138.	1.8	1
30	Reversible resistance switching of the non-stoichiometric ZrO _{2-x} and SrTiO _{3-x} for non-volatile memory applications. , 2005, , .		0
31	Thickness Dependence of Cu-layer-based Transparent Heaters. <i>Journal of Korean Institute of Metals and Materials</i> , 2022, 60, 511-516.	1.0	0