

Sun Jin Yun

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55
papers

1,008
citations

17
h-index

30
g-index

58
ext. papers

1,182
ext. citations

5.4
avg, IF

4.21
L-index

#	Paper	IF	Citations
55	Infrared spectroscopy and nano-imaging of the insulator-to-metal transition in vanadium dioxide. <i>Physical Review B</i> , 2009 , 79,	3.3	132
54	Dependence of atomic layer-deposited Al ₂ O ₃ films characteristics on growth temperature and Al precursors of Al(CH ₃) ₃ and AlCl ₃ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 2993-2997	2.9	103
53	Electrical Properties of Alumina Films by Plasma-Enhanced Atomic Layer Deposition. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, F45		89
52	PEDOT:PSS Films with Greatly Enhanced Conductivity via Nitric Acid Treatment at Room Temperature and Their Application as Pt/TCO-Free Counter Electrodes in Dye-Sensitized Solar Cells. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500121	6.4	81
51	Gate-Tunable Hole and Electron Carrier Transport in Atomically Thin Dual-Channel WSe ₂ /MoS ₂ Heterostructure for Ambipolar Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 9519-9525	24	49
50	High-yield graphene exfoliation using sodium dodecyl sulfate accompanied by alcohols as surface-tension-reducing agents in aqueous solution. <i>Carbon</i> , 2015 , 83, 136-143	10.4	47
49	Comparison of trapped charges and hysteresis behavior in hBN encapsulated single MoS ₂ flake based field effect transistors on SiO ₂ and hBN substrates. <i>Nanotechnology</i> , 2018 , 29, 335202	3.4	44
48	Highly transparent amorphous silicon solar cells fabricated using thin absorber and high-bandgap-energy n/i-interface layers. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 128, 301-306	6.4	32
47	Fabrication of CaS:Pb blue phosphor by incorporating dimeric Pb ²⁺ luminescent centers. <i>Applied Physics Letters</i> , 2001 , 78, 721-723	3.4	29
46	Colored a-Si:H transparent solar cells employing ultrathin transparent multi-layered electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 164-169	6.4	27
45	Tunable electrical properties of multilayer HfSe field effect transistors by oxygen plasma treatment. <i>Nanoscale</i> , 2017 , 9, 1645-1652	7.7	26
44	Clean Interface Contact Using a ZnO Interlayer for Low-Contact-Resistance MoS ₂ Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5031-5039	9.5	25
43	VO_2 Thin-Film Varistor Based on Metal-Insulator Transition. <i>IEEE Electron Device Letters</i> , 2010 , 31, 14-16	4.4	22
42	Oxide-silicon-oxide buffer structure for ultralow temperature polycrystalline silicon thin-film transistor on plastic substrate. <i>IEEE Electron Device Letters</i> , 2006 , 27, 579-581	4.4	19
41	Low-voltage and high-gain pentacene inverters with plasma-enhanced atomic-layer-deposited gate dielectrics. <i>Applied Physics Letters</i> , 2006 , 89, 033511	3.4	18
40	High-performance ultralow-temperature polycrystalline silicon TFT using sequential lateral solidification. <i>IEEE Electron Device Letters</i> , 2004 , 25, 550-552	4.4	17
39	Bifacial color realization for a-Si:H solar cells using transparent multilayered electrodes. <i>Solar Energy</i> , 2018 , 159, 465-474	6.8	17

38	Transparent Thin-Film Silicon Solar Cells for Indoor Light Harvesting with Conversion Efficiencies of 36% without Photodegradation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27122-27130	9.5	16
37	Gate Tunable Self-Biased Diode Based on Few Layered MoS ₂ and WSe ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 1011-1016	9.6	15
36	Observation of negative differential resistance in mesoscopic graphene oxide devices. <i>Scientific Reports</i> , 2018 , 8, 7144	4.9	15
35	Insulators with High Stability for Electroluminescent Devices. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L663-L665	1.4	14
34	Na-Cation-Assisted Exfoliation of MX (M = Mo, W; X = S, Se) Nanosheets in an Aqueous Medium with the Aid of a Polymeric Surfactant for Flexible Polymer-Nanocomposite Memory Applications. <i>Small</i> , 2018 , 14, 1702747	11	14
33	Synthesis and gas sensing properties of WS nanocrystallites assembled hierarchical WS fibers by electrospinning. <i>Nanotechnology</i> , 2019 , 31, 105602	3.4	12
32	CuOx/a-Si:H heterojunction thin-film solar cell with an n-type μ c-Si:H depletion-assisting layer. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1642-1648	6.8	9
31	Influence of a two-dimensional SiO ₂ nanorod structure on the extraction efficiency of ZnS:Mn thin-film electroluminescent devices. <i>Applied Physics Letters</i> , 2004 , 84, 1377-1379	3.4	9
30	Effective deicing of vehicle windows and thermal response of asymmetric multilayered transparent-film heaters. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 1092-1101	5.7	9
29	Unimer-Assisted Exfoliation for Highly Concentrated Aqueous Dispersion Solutions of Single- and Few-Layered van der Waals Materials. <i>Langmuir</i> , 2017 , 33, 1217-1226	4	8
28	Improved stability of electrical properties of nitrogen-added Al ₂ O ₃ films grown by PEALD as gate dielectric. <i>Materials Research Bulletin</i> , 2016 , 83, 597-602	5.1	8
27	Tunable Electron and Hole Injection Enabled by Atomically Thin Tunneling Layer for Improved Contact Resistance and Dual Channel Transport in MoS/WSe van der Waals Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23961-23967	9.5	7
26	Metal-agglomeration-suppressed growth of MoS and MoSe films with small sulfur and selenium molecules for high mobility field effect transistor applications. <i>Nanoscale</i> , 2018 , 10, 15213-15221	7.7	7
25	Photodetector Based on Multilayer SnSe Field Effect Transistor. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 4243-4247	1.3	7
24	Visible Light-Erasable Oxide FET-Based Nonvolatile Memory Operated with a Deep Trap Interface. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26405-26412	9.5	7
23	Improved adhesion of multi-layered front electrodes of transparent a-Si:H solar cells for varying front colors. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 183, 92-100	6.4	6
22	Scattering matrix analysis for evaluating the photocurrent in hydrogenated-amorphous-silicon-based thin film solar cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 8309-14	1.3	6
21	Arbitrary alignment-angle control method of electrospun fibers: potential for a stretchable electrode material. <i>RSC Advances</i> , 2017 , 7, 44945-44953	3.7	6

20	Etching Characteristics of Manganese-Doped Zinc Sulfide Film Using Cl ₂ /CF ₄ Inductively Coupled Plasma. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 2716-2720	1.4	6
19	High performance self-gating graphene/MoS diode enabled by asymmetric contacts. <i>Nanotechnology</i> , 2018 , 29, 395201	3.4	5
18	Cell performance of a-Si:H translucent solar cells with various buffers utilizing light reflected by a backside mirror. <i>Materials Research Bulletin</i> , 2014 , 58, 153-156	5.1	5
17	Junctionless Diode Enabled by Self-Bias Effect of Ion Gel in Single-Layer MoS Device. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26983-26989	9.5	5
16	Photo-Carrier-Guiding Behavior of Vertically Grown MoS and MoSe in Highly Efficient Low-Light Transparent Photovoltaic Devices on Large-Area Rough Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1368-1377	9.5	5
15	P-56: Blue-Emitting dc CaS:Pb Electroluminescent Device. <i>Digest of Technical Papers SID International Symposium</i> , 2001 , 32, 763	0.5	4
14	Multi-Level Long-Term Memory Resembling Human Memory Based on Photosensitive Field-Effect Transistors with Stable Interfacial Deep Traps. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901044	6.4	3
13	Etching Characteristics and Mechanisms of TiO ₂ Thin Films in HBr/Ar and Cl ₂ /Ar Inductively-Coupled Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , 2012 , 32, 333-342	3.6	3
12	Self-aligned Thin Film Transistor Fabrication with an Ultra Low Temperature Polycrystalline Silicon Process on a Benzocyclobutene Planarized Stainless Steel Foil Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 910, 3		3
11	Threshold voltage control of pentacene thin-film transistor with dual-gate structure. <i>Journal of Information Display</i> , 2006 , 7, 27-30	4.1	3
10	Studies on Microvoids at the Interface of Direct Bonded Silicon Wafers. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2326-2330	3.9	3
9	Polyvinylalcohol (PVA)-Assisted Exfoliation of ReS Nanosheets and the Use of ReS-PVA Composites for Transparent Memristive Photosynapse Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8919-8928	9.5	3
8	Phase transition of hydrogenated SiGe thin films in plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2013 , 546, 362-366	2.2	2
7	The Characterization of Al ₂ O ₃ Films Grown by Atomic Layer Deposition Using Al(CH ₃) ₃ and H ₂ O. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 471, 81		2
6	P-33: Effect of Rapid Thermal Annealing on CaS:Pb Electroluminescent Devices Containing Ta ₂ O ₅ as Insulating Layer. <i>Digest of Technical Papers SID International Symposium</i> , 2000 , 31, 652-655	0.5	1
5	Photoinduced Synaptic Behavior of In _x Ti _y O Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001049	6.4	1
4	Multi-wafer-scale growth of WSe ₂ films using a traveling flow-type reactor with a remote thermal Se cracker. <i>Applied Surface Science</i> , 2020 , 528, 146951	6.7	
3	Pentacene Organic Thin-Film Transistors with Dual-Gate Structure. <i>Solid State Phenomena</i> , 2007 , 124-126, 383-386	0.4	

- 2 P-31: Effect of Metal Surface Treatments on the Characteristics of MIM Diode for the FED Application. *Digest of Technical Papers SID International Symposium*, **2003**, 34, 316 0.5
- 1 Characteristics of nanocomposite ZrO₂/Al₂O₃ films deposited by plasma-enhanced atomic layer deposition. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 4180-4 1.3