

Jung Wook Lim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Passivation of organic light-emitting diodes with aluminum oxide thin films grown by plasma-enhanced atomic layer deposition. <i>Applied Physics Letters</i> , 2004, 85, 4896-4898.	1.5	105
2	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.	2.6	96
3	Electrical Properties of Alumina Films by Plasma-Enhanced Atomic Layer Deposition. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, F45.	2.2	93
4	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.	5.4	52
5	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.	3.0	40
6	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.	3.0	40
7	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.	4.0	36
8	Bifacial color realization for a-Si:H solar cells using transparent multilayered electrodes. <i>Solar Energy</i> , 2018, 159, 465-474.	2.9	25
9	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.	2.2	21
10	Low-voltage and high-gain pentacene inverters with plasma-enhanced atomic-layer-deposited gate dielectrics. <i>Applied Physics Letters</i> , 2006, 89, 033511.	1.5	21
11	Characteristics of $Al_xTi_{1-x}O_y$ Films Grown by Plasma-Enhanced Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2007, 154, G239.	1.3	21
12	High-Performance Ultralow-Temperature Polycrystalline Silicon TFT Using Sequential Lateral Solidification. <i>IEEE Electron Device Letters</i> , 2004, 25, 550-552.	2.2	20
13	Na-Cation-Assisted Exfoliation of MX_2 (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.	5.2	19
14	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.	2.8	14
15	Optical $Al_xTi_{1-x}O_y$ Films Grown by Plasma Enhanced Atomic Layer Deposition. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 6934-6937.	0.8	13
16	Optical properties of zirconium oxide thin films for semitransparent solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11358-11365.	1.1	13
17	CuO_x /a-Si:H heterojunction thin-film solar cell with an n-type μ -Si:H depletion-assisting layer. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1642-1648.	4.4	12
18	Visible Light-Erasable Oxide FET-Based Nonvolatile Memory Operated with a Deep Trap Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26405-26412.	4.0	12

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19	Polyvinylalcohol (PVA)-Assisted Exfoliation of ReS ₂ Nanosheets and the Use of ReS ₂ â€PVA Composites for Transparent Memristive Photosynapse Devices. ACS Applied Materials & Interfaces, 2021, 13, 8919-8928.	4.0	12
20	Sputter-Deposited AlTiO Thin Films for Semi-Transparent Silicon Thin Film Solar Cells. Journal of Electronic Materials, 2014, 43, 3204-3210.	1.0	10
21	Improved stability of electrical properties of nitrogen-added Al ₂ O ₃ films grown by PEALD as gate dielectric. Materials Research Bulletin, 2016, 83, 597-602.	2.7	10
22	Effects of Moisture-Proof Back Passivation Layers of Al ₂ O ₃ and Al _x Ti _{1-x} O _y Films on Efficiency Improvement and Color Modulation in Transparent a-Si:H Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 4968-4974.	4.0	10
23	Improved adhesion of multi-layered front electrodes of transparent a-Si:H solar cells for varying front colors. Solar Energy Materials and Solar Cells, 2018, 183, 92-100.	3.0	9
24	Metal-agglomeration-suppressed growth of MoS ₂ and MoSe ₂ films with small sulfur and selenium molecules for high mobility field effect transistor applications. Nanoscale, 2018, 10, 15213-15221.	2.8	8
25	Photoinduced Synaptic Behavior of In _x Ti _y O Thin Film Transistors. Advanced Electronic Materials, 2021, 7, 2001049.	2.6	8
26	Threshold voltage control of pentacene thinâ€film transistor with dualâ€gate structure. Journal of Information Display, 2006, 7, 27-30.	2.1	6
27	Scattering Matrix Analysis for Evaluating the Photocurrent in Hydrogenated-Amorphous-Silicon-Based Thin Film Solar Cells. Journal of Nanoscience and Nanotechnology, 2014, 14, 8309-8314.	0.9	6
28	Photo-Carrier-Guiding Behavior of Vertically Grown MoS ₂ and MoSe ₂ in Highly Efficient Low-Light Transparent Photovoltaic Devices on Large-Area Rough Substrates. ACS Applied Materials & Interfaces, 2020, 12, 1368-1377.	4.0	6
29	Multiâ€Level Longâ€Term Memory Resembling Human Memory Based on Photosensitive Fieldâ€Effect Transistors with Stable Interfacial Deep Traps. Advanced Electronic Materials, 2020, 6, 1901044.	2.6	6
30	Flexible multilayered transparent electrodes with less than 50Ånm thickness using nitrogen-doped silver layers for flexible heaters. Materials Research Bulletin, 2022, 149, 111703.	2.7	6
31	Characteristics of PEALDâ€Hafnium Dioxide Films and their Application to Gate Insulator Stacks of Photosynaptic Transistors. Advanced Electronic Materials, 2022, 8, .	2.6	5
32	Photoâ€Synaptic Oxide Transistors with Al ₂ O ₃ /SiO _x Stacked Gate Dielectric Exhibiting 1024 Conduction States with Good Linearity. Advanced Electronic Materials, 2022, 8, .	2.6	5
33	Self-aligned Thin Film Transistor Fabrication with an Ultra Low Temperature Polycrystalline Silicon Process on a Benzocyclobutene Planarized Stainless Steel Foil Substrate. Materials Research Society Symposia Proceedings, 2006, 910, 3.	0.1	3
34	Phase transition of hydrogenated SiGe thin films in plasma-enhanced chemical vapor deposition. Thin Solid Films, 2013, 546, 362-366.	0.8	3
35	Synaptic Transistors Exhibiting Gate-Pulse-Driven, Metal-Semiconductor Transition of Conduction. Materials, 2021, 14, 7508.	1.3	2
36	Stress Reduction of Ge₂Sb₂Te₅ by Inhibiting Oxygen Diffusion. Materials Transactions, 2008, 49, 2107-2111.	0.4	1

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37	Pentacene Organic Thin-Film Transistors with Dual-Gate Structure. Solid State Phenomena, 2007, 124-126, 383-386.	0.3	0
38	Improvement of c-Si surface passivation using dual intrinsic a-Si:H layers for silicon heterojunction solar cells. , 2013, , .		0
39	Reduced light induced degradation of a-Si:H thin film transparent solar cells. , 2014, , .		0
40	Infrared blocking and bifacial transparent a-Si:H solar cells. , 2018, , .		0
41	Investigation of transparent electrodes and transparent/opaque a-Si:H solar cells for indoor photovoltaics. , 2018, , .		0
42	Multi-wafer-scale growth of WSe ₂ films using a traveling flow-type reactor with a remote thermal Se cracker. Applied Surface Science, 2020, 528, 146951.	3.1	0