Jung Wook Lim

List of Publications by Citations

36 papers	608 citations	13 h-index	24 g-index
44 ext. papers	693 ext. citations	5.4 avg, IF	3.97 L-index

#	Paper	IF	Citations
36	Passivation of organic light-emitting diodes with aluminum oxide thin films grown by plasma-enhanced atomic layer deposition. *Applied Physics Letters*, **2004**, 85, 4896-4898	3.4	101
35	Electrical Properties of Alumina Films by Plasma-Enhanced Atomic Layer Deposition. *Electrochemical and Solid-State Letters*, **2004**, 7, F45		89
34	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. *Advanced Electronic Materials*, **2015**, 1, 1500121	6.4	81
33	High-yield graphene exfoliation using sodium dodecyl sulfate accompanied by alcohols as surface-tension-reducing agents in aqueous solution. *Carbon*, **2015**, 83, 136-143	10.4	47
32	Highly transparent amorphous silicon solar cells fabricated using thin absorber and high-bandgap-energy n/i-interface layers. *Solar Energy Materials and Solar Cells*, **2014**, 128, 301-306	6.4	32
31	Colored a-Si:H transparent solar cells employing ultrathin transparent multi-layered electrodes. *Solar Energy Materials and Solar Cells*, **2017**, 163, 164-169	6.4	27
30	Characteristics of Al[sub x]Ti[sub 1−x]O[sub y] Films Grown by Plasma-Enhanced Atomic Layer Deposition. *Journal of the Electrochemical Society*, **2007**, 154, G239	3.9	21
29	Oxide-silicon-oxide buffer structure for ultralow temperature polycrystalline silicon thin-film transistor on plastic substrate. *IEEE Electron Device Letters*, **2006**, 27, 579-581	4.4	19
28	Low-voltage and high-gain pentacene inverters with plasma-enhanced atomic-layer-deposited gate dielectrics. *Applied Physics Letters*, **2006**, 89, 033511	3.4	18
27	High-performance ultralow-temperature polycrystalline silicon TFT using sequential lateral solidification. *IEEE Electron Device Letters*, **2004**, 25, 550-552	4.4	17
26	Bifacial color realization for a-Si:H solar cells using transparent multilayered electrodes. *Solar Energy*, **2018**, 159, 465-474	6.8	17
25	Transparent Thin-Film Silicon Solar Cells for Indoor Light Harvesting with Conversion Efficiencies of 36% without Photodegradation. *ACS Applied Materials & Interfaces*, **2020**, 12, 27122-27130	9.5	16
24	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. *Small*, **2018**, 14, 1702747	11	14
23	Optical AlxTi1-xOyFilms Grown by Plasma Enhanced Atomic Layer Deposition. *Japanese Journal of Applied Physics*, **2008**, 47, 6934-6937	1.4	13
22	Optical properties of zirconium oxide thin films for semitransparent solar cell applications. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 11358-11365	2.1	10
21	CuOx/a-Si:H heterojunction thin-film solar cell with an n-type μc-Si:H depletion-assisting layer. *Progress in Photovoltaics: Research and Applications*, **2015**, 23, 1642-1648	6.8	9
20	Effective deicing of vehicle windows and thermal response of asymmetric multilayered transparent-film heaters. *Journal of Alloys and Compounds*, **2019**, 774, 1092-1101	5.7	9

19	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	5.1	8
18	Sputter-Deposited AlTiO Thin Films for Semi-Transparent Silicon Thin Film Solar Cells. *Journal of Electronic Materials*, **2014**, 43, 3204-3210	1.9	8
17	Metal-agglomeration-suppressed growth of MoS and MoSe films with small sulfur and selenium molecules for high mobility field effect transistor applications. *Nanoscale*, **2018**, 10, 15213-15221	7.7	7
16	Visible Light-Erasable Oxide FET-Based Nonvolatile Memory Operated with a Deep Trap Interface. *ACS Applied Materials & Interfaces*, **2018**, 10, 26405-26412	9.5	7
15	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	6.4	6
14	Scattering matrix analysis for evaluating the photocurrent in hydrogenated-amorphous-silicon-based thin film solar cells. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 8309-14	1.3	6
13	Photo-Carrier-Guiding Behavior of Vertically Grown MoS and MoSe in Highly Efficient Low-Light Transparent Photovoltaic Devices on Large-Area Rough Substrates. *ACS Applied Materials & Interfaces*, **2020**, 12, 1368-1377	9.5	5
12	Multi-Level Long-Term Memory Resembling Human Memory Based on Photosensitive Field-Effect Transistors with Stable Interfacial Deep Traps. *Advanced Electronic Materials*, **2020**, 6, 1901044	6.4	3
11	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		3
10	Threshold voltage control of pentacene thin-film transistor with dual-gate structure. *Journal of Information Display*, **2006**, 7, 27-30	4.1	3
9	Effects of Moisture-Proof Back Passivation Layers of AlO and AlTiO Films on Efficiency Improvement and Color Modulation in Transparent a-Si:H Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 4968-4974	9.5	3
8	Polyvinylalcohol (PVA)-Assisted Exfoliation of ReS Nanosheets and the Use of ReS-PVA Composites for Transparent Memristive Photosynapse Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 8919-8928	9.5	3
7	Phase transition of hydrogenated SiGe thin films in plasma-enhanced chemical vapor deposition. *Thin Solid Films*, **2013**, 546, 362-366	2.2	2
6	Stress Reduction of Ge2Sb2Te5 by Inhibiting Oxygen Diffusion. *Materials Transactions*, **2008**, 49, 2107-2113	1.1	1
5	Photoinduced Synaptic Behavior of InxTiyO Thin Film Transistors. *Advanced Electronic Materials*, **2021**, 7, 2001049	6.4	1
4	Flexible multilayered transparent electrodes with less than 50 nm thickness using nitrogen-doped silver layers for flexible heaters. *Materials Research Bulletin*, **2022**, 149, 111703	5.1	0
3	Multi-wafer-scale growth of WSe2 films using a traveling flow-type reactor with a remote thermal Se cracker. *Applied Surface Science*, **2020**, 528, 146951	6.7	
2	Pentacene Organic Thin-Film Transistors with Dual-Gate Structure. *Solid State Phenomena*, **2007**, 124-126, 383-386	0.4	

1 Characteristics of PEALD Hafnium Dioxide Films and their Application to Gate Insulator Stacks of Photosynaptic Transistors. *Advanced Electronic Materials*,2101061 6.4