

Jung Wook Lim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Flexible multilayered transparent electrodes with less than 50nm thickness using nitrogen-doped silver layers for flexible heaters. <i>Materials Research Bulletin</i> , 2022 , 149, 111703 | 5.1 | 0 |
| 35 | 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. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4968-4974 | 9.5 | 3 |
| 34 | 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 |
| 33 | Photoinduced Synaptic Behavior of InxTiyO Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001049 | 6.4 | 1 |
| 32 | 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 |
| 31 | Multi-wafer-scale growth of WSe2 films using a traveling flow-type reactor with a remote thermal Se cracker. <i>Applied Surface Science</i> , 2020 , 528, 146951 | 6.7 | |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 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 | 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 |
| 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. <i>Small</i> , 2018 , 14, 1702747 | 11 | 14 |
| 23 | Bifacial color realization for a-Si:H solar cells using transparent multilayered electrodes. <i>Solar Energy</i> , 2018 , 159, 465-474 | 6.8 | 17 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 | 2.1 | 10 |

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|----|--|------|-----|
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | Sputter-Deposited AlTiO Thin Films for Semi-Transparent Silicon Thin Film Solar Cells. <i>Journal of Electronic Materials</i> , 2014 , 43, 3204-3210 | 1.9 | 8 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | Optical Al _x Ti _{1-x} O _y Films Grown by Plasma Enhanced Atomic Layer Deposition. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 6934-6937 | 1.4 | 13 |
| 11 | Stress Reduction of Ge ₂ Sb ₂ Te ₅ by Inhibiting Oxygen Diffusion. <i>Materials Transactions</i> , 2008 , 49, 2107-2111 | 1.1 | 1 |
| 10 | Characteristics of Al _x Ti _{1-x} O _y Films Grown by Plasma-Enhanced Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2007 , 154, G239 | 3.9 | 21 |
| 9 | Pentacene Organic Thin-Film Transistors with Dual-Gate Structure. <i>Solid State Phenomena</i> , 2007 , 124-126, 383-386 | 0.4 | |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | High-performance ultralow-temperature polycrystalline silicon TFT using sequential lateral solidification. <i>IEEE Electron Device Letters</i> , 2004 , 25, 550-552 | 4.4 | 17 |
| 3 | 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 | 3.4 | 101 |
| 2 | Electrical Properties of Alumina Films by Plasma-Enhanced Atomic Layer Deposition. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, F45 | | 89 |

- 1 Characteristics of PEALD HfO₂ Films and their Application to Gate Insulator Stacks of Photosynaptic Transistors. *Advanced Electronic Materials*, 2010, 1061

6.4