

# Joo Hyon Noh

## List of Publications by Year in descending order

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papers

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citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Ion Migration Studies in Exfoliated 2D Molybdenum Oxide via Ionic Liquid Gating for Neuromorphic Device Applications. ACS Applied Materials & Interfaces, 2018, 10, 22623-22631.  | 8.0  | 12        |
| 2  | Role of Electrical Double Layer Structure in Ionic Liquid Gated Devices. ACS Applied Materials & Interfaces, 2017, 9, 40949-40958.  | 8.0  | 24        |
| 3  | Room-Temperature Activation of InGaZnO Thin-Film Transistors via He <sup>+</sup> Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 35125-35132.   | 8.0  | 12        |
| 4  | Amorphous Semiconductors: Ionic Liquid Activation of Amorphous Metal-Oxide Semiconductors for Flexible Transparent Electronic Devices (Adv. Funct. Mater. 17/2016). Advanced Functional Materials, 2016, 26, 2774-2774.           | 14.9 | 4         |
| 5  | Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe <sub>2</sub> : enabling nanoscale direct write homo-junctions. Scientific Reports, 2016, 6, 27276.                                | 3.3  | 99        |
| 6  | Ionic Liquid Activation of Amorphous Metal-Oxide Semiconductors for Flexible Transparent Electronic Devices. Advanced Functional Materials, 2016, 26, 2820-2825.  | 14.9 | 46        |
| 7  | Programmable Electrowetting with Channels and Droplets. Micromachines, 2015, 6, 172-185.  | 2.9  | 21        |
| 8  | In-situ TEM observation of structural changes in nano-crystalline CoCrCuFeNi multicomponent high-entropy alloy (HEA) under fast electron irradiation by high voltage electron microscopy (HVEM). Intermetallics, 2015, 59, 32-42. | 3.9  | 161       |
| 9  | Pulse Thermal Processing for Low Thermal Budget Integration of IGZO Thin Film Transistors. IEEE Journal of the Electron Devices Society, 2015, 3, 297-301.  | 2.1  | 9         |
| 10 | Inert Gas Enhanced Laser-Assisted Purification of Platinum Electron-Beam-Induced Deposits. ACS Applied Materials & Interfaces, 2015, 7, 19579-19588.  | 8.0  | 17        |
| 11 | Ionic Liquid versus SiO <sub>2</sub> Gated a-IGZO Thin Film Transistors: A Direct Comparison. ECS Journal of Solid State Science and Technology, 2015, 4, Q105-Q109.  | 1.8  | 23        |
| 12 | Purification of Nanoscale Electron-Beam-Induced Platinum Deposits via a Pulsed Laser-Induced Oxidation Reaction. ACS Applied Materials & Interfaces, 2014, 6, 21256-21263.  | 8.0  | 45        |
| 13 | Electron-Beam-Assisted Oxygen Purification at Low Temperatures for Electron-Beam-Induced Pt Deposits: Towards Pure and High-Fidelity Nanostructures. ACS Applied Materials & Interfaces, 2014, 6, 1018-1024.                      | 8.0  | 73        |
| 14 | MeV electron-irradiation-induced structural change in the bcc phase of Zr-Hf-Nb alloy with an approximately equiatomic ratio. Intermetallics, 2013, 38, 70-79.  | 3.9  | 57        |
| 15 | Electron-irradiation-induced structural change in Zr-Hf-Nb alloy. Intermetallics, 2012, 26, 122-130.  | 3.9  | 63        |
| 16 | Toward active-matrix lab-on-a-chip: programmable electrofluidic control enabled by arrayed oxide thin film transistors. Lab on A Chip, 2012, 12, 353-360.   | 6.0  | 35        |
| 17 | Quantitative Calculation of Oxygen Incorporation in Sputtered IGZO Films and the Impact on Transistor Properties. Journal of the Electrochemical Society, 2011, 158, H289.  | 2.9  | 19        |
| 18 | Indium Oxide Thin-Film Transistors Fabricated by RF Sputtering at Room Temperature. IEEE Electron Device Letters, 2010, 31, 567-569.  | 3.9  | 75        |

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|----|---|------|-----------|
| 19 | Nanofabrication of insulated scanning probes for electromechanical imaging in liquid solutions. <i>Nanotechnology</i> , 2010, 21, 365302.   | 2.6  | 20        |
| 20 | Inducement of Azimuthal Molecular Orientation of Pentacene by Imprinted Periodic Groove Patterns for Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2008, 20, 1146-1153.  | 21.0 | 29        |
| 21 | Formation of stable direct current microhollow cathode discharge by venturi gas flow system for remote plasma source in atmosphere. <i>Applied Physics Letters</i> , 2008, 92, 061503.  | 3.3  | 3         |
| 22 | Polymeric tandem organic light-emitting diodes using a self-organized interfacial layer. <i>Applied Physics Letters</i> , 2008, 92, .   | 3.3  | 13        |
| 23 | Increase in indium diffusion by tetrafluoromethane plasma treatment and its effects on the device performance of polymer light-emitting diodes. <i>Journal of Applied Physics</i> , 2008, 103, 114502.                          | 2.5  | 22        |
| 24 | Low-Voltage-Driven Bottom-Gate Amorphous Indium-Gallium-Zinc-Oxide Thin-Film Transistors with High Dielectric Constant Oxide/Polymer Double-Layer Dielectric. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4096-4098. | 1.5  | 16        |
| 25 | Characterization of CF <sub>4</sub> Plasma-Treated Indium-Tin-Oxide Surfaces Used in Organic Light-Emitting Diodes by X-ray Photoemission Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6814-6816.       | 1.5  | 4         |
| 26 | High-performance and low-voltage pentacene thin film transistors fabricated on the flexible substrate. <i>Semiconductor Science and Technology</i> , 2007, 22, 691-694.   | 2.0  | 6         |
| 27 | Low leakage current gate dielectrics prepared by ion beam assisted deposition for organic thin film transistors. <i>Journal of Applied Physics</i> , 2007, 102, 126101.   | 2.5  | 4         |
| 28 | Self-sensing neutralizer by means of self-ejected charged particles from ac microhollow cathode discharge. <i>Applied Physics Letters</i> , 2006, 89, 121503.   | 3.3  | 0         |