

# Joo Hyon Noh

## List of Publications by Year in descending order

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28  
papers

912  
citations

471509

17  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1406  
citing authors

#	ARTICLE	IF	CITATIONS
1	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). <i>Intermetallics</i> , 2015, 59, 32-42.	3.9	161
2	Focused helium-ion beam irradiation effects on electrical transport properties of few-layer WSe <sub>2</sub> : enabling nanoscale direct write homo-junctions. <i>Scientific Reports</i> , 2016, 6, 27276.	3.3	99
3	Indium Oxide Thin-Film Transistors Fabricated by RF Sputtering at Room Temperature. <i>IEEE Electron Device Letters</i> , 2010, 31, 567-569.	3.9	75
4	Electron-Beam-Assisted Oxygen Purification at Low Temperatures for Electron-Beam-Induced Pt Deposits: Towards Pure and High-Fidelity Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1018-1024.	8.0	73
5	Electron-irradiation-induced structural change in Zrâ€“Hfâ€“Nb alloy. <i>Intermetallics</i> , 2012, 26, 122-130.	3.9	63
6	MeV electron-irradiation-induced structural change in the bcc phase of Zrâ€“Hfâ€“Nb alloy with an approximately equiatomic ratio. <i>Intermetallics</i> , 2013, 38, 70-79.	3.9	57
7	Ionic Liquid Activation of Amorphous Metalâ€“Oxide Semiconductors for Flexible Transparent Electronic Devices. <i>Advanced Functional Materials</i> , 2016, 26, 2820-2825.	14.9	46
8	Purification of Nanoscale Electron-Beam-Induced Platinum Deposits via a Pulsed Laser-Induced Oxidation Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 21256-21263.	8.0	45
9	Toward active-matrix lab-on-a-chip: programmable electrofluidic control enabled by arrayed oxide thin film transistors. <i>Lab on A Chip</i> , 2012, 12, 353-360.	6.0	35
10	Inducement of Azimuthal Molecular Orientation of Pentacene by Imprinted Periodic Groove Patterns for Organic Thinâ€“Film Transistors. <i>Advanced Materials</i> , 2008, 20, 1146-1153.	21.0	29
11	Role of Electrical Double Layer Structure in Ionic Liquid Gated Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40949-40958.	8.0	24
12	Ionic Liquid versus SiO <sub>2</sub> -Gated a-IGZO Thin Film Transistors: A Direct Comparison. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, Q105-Q109.	1.8	23
13	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
14	Programmable Electrowetting with Channels and Droplets. <i>Micromachines</i> , 2015, 6, 172-185.	2.9	21
15	Nanofabrication of insulated scanning probes for electromechanical imaging in liquid solutions. <i>Nanotechnology</i> , 2010, 21, 365302.	2.6	20
16	Quantitative Calculation of Oxygen Incorporation in Sputtered IGZO Films and the Impact on Transistor Properties. <i>Journal of the Electrochemical Society</i> , 2011, 158, H289.	2.9	19
17	Inert Gas Enhanced Laser-Assisted Purification of Platinum Electron-Beam-Induced Deposits. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19579-19588.	8.0	17
18	Low-Voltage-Driven Bottom-Gate Amorphous Indiumâ€“Galliumâ€“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

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19	Polymeric tandem organic light-emitting diodes using a self-organized interfacial layer. Applied Physics Letters, 2008, 92, .	3.3	13
20	Room-Temperature Activation of InGaZnO Thin-Film Transistors via He <sup>+</sup> Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 35125-35132.	8.0	12
21	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
22	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
23	High-performance and low-voltage pentacene thin film transistors fabricated on the flexible substrate. Semiconductor Science and Technology, 2007, 22, 691-694.	2.0	6
24	Characterization of CF <sub>4</sub> Plasma-Treated Indium-Tin-Oxide Surfaces Used in Organic Light-Emitting Diodes by X-ray Photoemission Spectroscopy. Japanese Journal of Applied Physics, 2007, 46, 6814-6816.	1.5	4
25	Low leakage current gate dielectrics prepared by ion beam assisted deposition for organic thin film transistors. Journal of Applied Physics, 2007, 102, 126101.	2.5	4
26	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
27	Formation of stable direct current microhollow cathode discharge by venturi gas flow system for remote plasma source in atmosphere. Applied Physics Letters, 2008, 92, 061503.	3.3	3
28	Self-sensing neutralizer by means of self-ejected charged particles from ac microhollow cathode discharge. Applied Physics Letters, 2006, 89, 121503.	3.3	0