## Byungjin Cho

## List of Publications by Year in descending order

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448610 252626 2,297 46 19 46 citations g-index h-index papers 48 48 48 4383 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	In-depth analysis on electrical parameters of floating gate IGZO synaptic transistor affecting pattern recognition accuracy. Nanotechnology, 2022, , .	1.3	O
2	In-depth analysis on electrical parameters of floating gate IGZO synaptic transistor affecting pattern recognition accuracy. Nanotechnology, 2022, 33, 215201.	1.3	8
3	Physical Vapor Transport Process for Highly Purified Hg2Br2 Crystal: from Powder Purification to Crystal Growth. Journal of Korean Institute of Metals and Materials, 2022, 60, 551-556.	0.4	3
4	Dual-Terminal Stimulated Heterosynaptic Plasticity of IGZO Memtransistor with Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Double-Oxide Structure. ACS Applied Electronic Materials, 2022, 4, 2923-2932.	2.0	10
5	Ultra-flexible and rollable 2D-MoS <sub>2</sub> /Si heterojunction-based near-infrared photodetector <i>via</i> direct synthesis. Nanoscale, 2021, 13, 672-680.	2.8	54
6	Brain-inspired ferroelectric Si nanowire synaptic device. APL Materials, 2021, 9, .	2.2	17
7	Low Power MoS <sub>2</sub> /Nb <sub>2</sub> O <sub>5</sub> Memtransistor Device with Highly Reliable Heterosynaptic Plasticity. Advanced Functional Materials, 2021, 31, 2104174.	7.8	33
8	Accelerated Learning in Wide-Band-Gap AlN Artificial Photonic Synaptic Devices: Impact on Suppressed Shallow Trap Level. Nano Letters, 2021, 21, 7879-7886.	4.5	17
9	Unveiling the Role of Al <sub>2</sub> O <sub>3</sub> Interlayer in Indium–Gallium–Zinc–Oxide Transistors. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000621.	0.8	4
10	Artificial 2D van der Waals Synapse Devices via Interfacial Engineering for Neuromorphic Systems. Nanomaterials, 2020, $10,88$ .	1.9	11
11	Room-temperature sputtered electrocatalyst WSe2 nanomaterials for hydrogen evolution reaction. Journal of Energy Chemistry, 2020, 47, 107-111.	7.1	41
12	Comparative Analysis of Hg2Br2 and Hg2BrxCl2-x Crystals Grown via PVT. Crystals, 2020, 10, 1096.	1.0	7
13	Al2O3-Induced Sub-Gap Doping on the IGZO Channel for the Detection of Infrared Light. ACS Applied Electronic Materials, 2020, 2, 1478-1483.	2.0	19
14	Novel Exfoliation of High-Quality 2H-MoS2 Nanoflakes for Solution-Processed Photodetector. Nanomaterials, 2020, 10, 1045.	1.9	26
15	Enhanced Photoresponse of WS <sub>2</sub> Photodetectors through Interfacial Defect Engineering Using a TiO <sub>2</sub> Interlayer. ACS Applied Electronic Materials, 2020, 2, 838-845.	2.0	17
16	One-step H <sub>2</sub> S reactive sputtering for 2D MoS <sub>2</sub> /Si heterojunction photodetector. Nanotechnology, 2020, 31, 225205.	1.3	9
17	Modulation of Synaptic Plasticity Mimicked in Al Nanoparticleâ€Embedded IGZO Synaptic Transistor. Advanced Electronic Materials, 2020, 6, 1901072.	2.6	47
18	Preparation and Properties of 2D Materials. Nanomaterials, 2020, 10, 764.	1.9	0

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19	Improved electrical performance of a sol–gel IGZO transistor with high-k Al2O3 gate dielectric achieved by post annealing. Nano Convergence, 2019, 6, 24.	6.3	37
20	Improvement of the Bias Stress Stability in 2D MoS2 and WS2 Transistors with a TiO2 Interfacial Layer. Nanomaterials, 2019, 9, 1155.	1.9	11
21	Facile fabrication of ZnO nanowire memory device based on chemically-treated surface defects. Nanotechnology, 2019, 30, 155201.	1.3	2
22	In-depth Investigation of Hg2Br2 Crystal Growth and Evolution. Materials, 2019, 12, 4224.	1.3	10
23	Selfâ€Formed Channel Devices Based on Vertically Grown 2D Materials with Largeâ€6urfaceâ€Area and Their Potential for Chemical Sensor Applications. Small, 2018, 14, e1704116.	5.2	57
24	Photonics: Enhanced Performance of MoS <sub>2</sub> Photodetectors by Inserting an ALDâ€Processed TiO <sub>2</sub> Interlayer (Small 5/2018). Small, 2018, 14, 1870022.	5.2	2
25	Roomâ€Temperature Solidâ€State Grown WO 3â^Î^Film on Plastic Substrate for Extremely Sensitive Flexible NO 2 Gas Sensors. Advanced Materials Interfaces, 2018, 5, 1700811.	1.9	20
26	Enhanced Performance of MoS <sub>2</sub> Photodetectors by Inserting an ALDâ€Processed TiO <sub>2</sub> Interlayer. Small, 2018, 14, 1703176.	5.2	51
27	Facile Fabrication of a Two-Dimensional TMD/Si Heterojunction Photodiode by Atmospheric-Pressure Plasma-Enhanced Chemical Vapor Deposition. ACS Applied Materials & Samp; Interfaces, 2018, 10, 36136-36143.	4.0	17
28	Low Power Switching Characteristics of CNT Field Effect Transistor Device with Al-Doped ZrHfO <sub>2</sub> Gate Dielectric. Journal of Nanomaterials, 2018, 2018, 1-7.	1.5	6
29	Scalable integration of periodically aligned 2D-MoS <sub>2</sub> nanoribbon array. APL Materials, 2018, 6, 076102.	2.2	10
30	Three-Dimensional Atomistic Tomography of W-Based Alloyed Two-Dimensional Transition Metal Dichalcogenides. ACS Applied Materials & Samp; Interfaces, 2018, 10, 30640-30648.	4.0	3
31	High Purification of Hg2Br2 Powder for Acousto-Optic Tunable Filters Utilizing a PVT Process. Korean Journal of Materials Research, 2018, 28, 732-737.	0.1	3
32	Effect of Nb Doping on Chemical Sensing Performance of Two-Dimensional Layered MoSe <sub>2</sub> . ACS Applied Materials & Distribution (Supplied Materials) (1988) (	4.0	143
33	Broad-Band Photocurrent Enhancement in MoS <sub>2</sub> Layers Directly Grown on Light-Trapping Si Nanocone Arrays. ACS Applied Materials & Si Nanocone Arrays.	4.0	16
34	Wafer-Scale Integration of Highly Uniform and Scalable MoS <sub>2</sub> Transistors. ACS Applied Materials & Samp; Interfaces, 2017, 9, 37146-37153.	4.0	32
35	Ultraviolet Wavelength-Dependent Optoelectronic Properties in Two-Dimensional NbSe <sub>2</sub> –WSe <sub>2</sub> van der Waals Heterojunction-Based Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 41537-41545.	4.0	23
36	High-performing MoS2-embedded Si photodetector. Materials Science in Semiconductor Processing, 2017, 71, 35-41.	1.9	13

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37	Two-Dimensional Atomic-Layered Alloy Junctions for High-Performance Wearable Chemical Sensor. ACS Applied Materials & Englishment (1988) ACS Applied Mater	4.0	83
38	Influence of Gas Adsorption and Gold Nanoparticles on the Electrical Properties of CVD-Grown MoS <sub>2</sub> Thin Films. ACS Applied Materials & Samp; Interfaces, 2016, 8, 21612-21617.	4.0	16
39	Alloyed 2D Metal–Semiconductor Heterojunctions: Origin of Interface States Reduction and Schottky Barrier Lowering. Nano Letters, 2016, 16, 5928-5933.	4.5	57
40	The influence of interfacial tensile strain on the charge transport characteristics of MoS <sub>2</sub> -based vertical heterojunction devices. Nanoscale, 2016, 8, 17598-17607.	2.8	15
41	Alloyed 2D Metal–Semiconductor Atomic Layer Junctions. Nano Letters, 2016, 16, 1890-1895.	4.5	77
42	Metal Decoration Effects on the Gas-Sensing Properties of 2D Hybrid-Structures on Flexible Substrates. Sensors, 2015, 15, 24903-24913.	2.1	41
43	Bifunctional Sensing Characteristics of Chemical Vapor Deposition Synthesized Atomic-Layered MoS <sub>2</sub> . ACS Applied Materials & Interfaces, 2015, 7, 2952-2959.	4.0	162
44	Charge-transfer-based Gas Sensing Using Atomic-layer MoS2. Scientific Reports, 2015, 5, 8052.	1.6	489
45	Chemical Sensing of 2D Graphene/MoS <sub>2</sub> Heterostructure device. ACS Applied Materials & amp; Interfaces, 2015, 7, 16775-16780.	4.0	375
46	Graphene-based gas sensor: metal decoration effect and application to a flexible device. Journal of Materials Chemistry C, 2014, 2, 5280-5285.	2.7	198