

# Hyuk-Jun Kwon

## List of Publications by Year in descending order

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56  
papers

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citations

430754

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times ranked

2393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Prototyping of Large-Area Stretchable Electronic Systems by Laser Ablation Technique for Controllable Robotic Arm Operations. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 4245-4253.	5.2	19
2	Channel Scaling Dependent Photoresponse of Copper-Based Flexible Photodetectors Fabricated Using Laser-Induced Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 6977-6984.	4.0	1
3	Applications of Thin Films in Microelectronics. <i>Electronics (Switzerland)</i> , 2022, 11, 931.	1.8	1
4	Low-Temperature Carrier Transport Mechanism of Wafer-Scale Grown Polycrystalline Molybdenum Disulfide Thin-Film Transistor Based on Radio Frequency Sputtering and Sulfurization. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	6
5	Combustion-assisted low-temperature solution process for high-performance SnO <sub>2</sub> thin-film transistors. <i>Ceramics International</i> , 2022, 48, 20591-20598.	2.3	6
6	High and Uniform Phosphorus Doping in Germanium Through a Modified Plasma Assisted Delta Doping Process With H <sub>2</sub> , Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2022, 43, 1315-1318.	2.2	3
7	Laser-induced digital oxidation for copper-based flexible photodetectors. <i>Applied Surface Science</i> , 2021, 540, 148333.	3.1	10
8	Computational Thermal Analysis of the Photothermal Effect of Thermoplasmonic Optical Fiber for Localized Neural Stimulation In Vivo. <i>Electronics (Switzerland)</i> , 2021, 10, 118.	1.8	3
9	PZT Ferroelectric Synapse TFT With Multi-Level of Conductance State for Neuromorphic Applications. <i>IEEE Access</i> , 2021, 9, 140975-140982.	2.6	11
10	Sol-gel-processed amorphous-phase ZrO <sub>2</sub> based resistive random access memory. <i>Materials Research Express</i> , 2021, 8, 116301.	0.8	10
11	Ferroelectrics Based on HfO <sub>2</sub> Film. <i>Electronics (Switzerland)</i> , 2021, 10, 2759.	1.8	10
12	All-Day Mobile Healthcare Monitoring System Based on Heterogeneous Stretchable Sensors for Medical Emergency. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 8808-8816.	5.2	34
13	Switching Behavior in a Vertical Tunneling Transistor by Tunneling Mechanism Transition and Floating Electrode Structure. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2461-2469.	2.0	1
14	Color Thin-Film Transistors Employing Periodic Nanohole Structures. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2489-2497.	2.0	4
15	Conformal and Ultra Shallow Junction Formation Achieved Using a Pulsed-Laser Annealing Process Integrated With a Modified Plasma Assisted Doping Method. <i>IEEE Access</i> , 2020, 8, 172166-172174.	2.6	7
16	Thermoplasmonic Optical Fiber for Localized Neural Stimulation. <i>ACS Nano</i> , 2020, 14, 11406-11419.	7.3	31
17	Enhancement Mode Flexible SnO <sub>2</sub> Thin Film Transistors Via a UV/Ozone-Assisted Sol-Gel Approach. <i>IEEE Access</i> , 2020, 8, 123013-123018.	2.6	10
18	High-Detectivity Flexible Near-Infrared Photodetector Based on Chalcogenide Ag <sub>2</sub> Se Nanoparticles. <i>Advanced Optical Materials</i> , 2019, 7, 1900812.	3.6	35

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19	Laser-Processed Nature-Inspired Deformable Structures for Breathable and Reusable Electrophysiological Sensors toward Controllable Home Electronic Appliances and Psychophysiological Stress Monitoring. ACS Applied Materials & Interfaces, 2019, 11, 28387-28396.	4.0	42
20	Low-temperature behaviors of multilayer MoS <sub>2</sub> transistors with ohmic and Schottky contacts. Applied Physics Letters, 2019, 115, .	1.5	9
21	A Fully Integrated Flexible Heterogeneous Temperature and Humidity Sensor-Based Occupancy Detection Device for Smart Office Applications. Advanced Materials Technologies, 2019, 4, 1900619.	3.0	15
22	Boosting n-Type Doping Levels of Ge With Co-Doping by Integrating Plasma-Assisted Atomic Layer Deposition and Flash Annealing Process. IEEE Electron Device Letters, 2019, 40, 1507-1510.	2.2	6
23	Effect of Annealing Environment on the Performance of Sol-Gel-Processed ZrO <sub>2</sub> RRAM. Electronics (Switzerland), 2019, 8, 947.	1.8	18
24	Ultra-Short Pulsed Laser Annealing Effects on MoS <sub>2</sub> Transistors with Asymmetric and Symmetric Contacts. Electronics (Switzerland), 2019, 8, 222.	1.8	8
25	Densification Control as a Method of Improving the Ambient Stability of Sol-Gel-Processed SnO <sub>2</sub> Thin-Film Transistors. IEEE Electron Device Letters, 2019, 40, 905-908.	2.2	13
26	A 16-Gb, 18-Gb/s/pin GDDR6 DRAM With Per-Bit Trainable Single-Ended DFE and PLL-Less Clocking. IEEE Journal of Solid-State Circuits, 2019, 54, 197-209.	3.5	18
27	Color-sensitive and spectrometer-free plasmonic sensor for biosensing applications. Biosensors and Bioelectronics, 2019, 126, 743-750.	5.3	17
28	Single Pass Laser Process for Super-Hydrophobic Flexible Surfaces with Micro/Nano Hierarchical Structures. Materials, 2018, 11, 1226.	1.3	15
29	Laser welding of vertically aligned carbon nanotube arrays on polymer workpieces. Carbon, 2017, 115, 688-693.	5.4	13
30	23.4 An extremely low-standby-power 3.733Gb/s/pin 2Gb LPDDR4 SDRAM for wearable devices. , 2017, , .		11
31	Improvement in the Performance of Sol-Gel Processed In <sub>2</sub> O <sub>3</sub> Thin-Film Transistor Depending on Sb Dopant Concentration. IEEE Electron Device Letters, 2017, 38, 1027-1030.	2.2	18
32	66th Invited Paper: High Mobility Flexible 2D Multilayer MoS <sub>2</sub> TFTs on Solution-Based Polyimide Substrates. Digest of Technical Papers SID International Symposium, 2017, 48, 965-967.	0.1	2
33	A High-Speed Inkjet-Printed Microelectromechanical Relay With a Mechanically Enhanced Double-Clamped Channel-Beam. Journal of Microelectromechanical Systems, 2017, 26, 95-101.	1.7	7
34	Laser Direct Writing Process for Making Electrodes and High- $k$ Sol-Gel ZrO <sub>2</sub> for Boosting Performances of MoS <sub>2</sub> Transistors. ACS Applied Materials & Interfaces, 2016, 8, 9314-9318.	4.0	21
35	Laser direct writing and inkjet printing for a sub-2 $\mu$ m channel length MoS <sub>2</sub> transistor with high-resolution electrodes. Nanotechnology, 2016, 27, 405301.	1.3	14
36	High-Performance Flexible Multilayer MoS <sub>2</sub> Transistors on Solution-Based Polyimide Substrates. Advanced Functional Materials, 2016, 26, 2426-2434.	7.8	75

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37	Facile fabrication of a superhydrophobic cage by laser direct writing for site-specific colloidal self-assembled photonic crystal. <i>Nanotechnology</i> , 2016, 27, 145604.	1.3	19
38	Evaluation of pulsed laser annealing for flexible multilayer MoS <sub>2</sub> transistors. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	21
39	Optically transparent thin-film transistors based on 2D multilayer MoS <sub>2</sub> and indium zinc oxide electrodes. <i>Nanotechnology</i> , 2015, 26, 035202.	1.3	17
40	High-Performance Inkjet-Printed Four-Terminal Microelectromechanical Relays and Inverters. <i>Nano Letters</i> , 2015, 15, 3261-3266.	4.5	23
41	Exploitation of the coffee-ring effect to realize mechanically enhanced inkjet-printed microelectromechanical relays with U-bar-shaped cantilevers. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	17
42	In Situ Monitoring of Laser-Assisted Hydrothermal Growth of ZnO Nanowires: Thermally Deactivating Growth Kinetics. <i>Small</i> , 2014, 10, 741-749.	5.2	39
43	Electrical characteristics of multilayer MoS <sub>2</sub> transistors at real operating temperatures with different ambient conditions. <i>Applied Physics Letters</i> , 2014, 105, 152105.	1.5	40
44	Selective and localized laser annealing effect for high-performance flexible multilayer MoS <sub>2</sub> thin-film transistors. <i>Nano Research</i> , 2014, 7, 1137-1145.	5.8	61
45	Analysis of flicker noise in two-dimensional multilayer MoS <sub>2</sub> transistors. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	56
46	A Highly Sensitive Capacitive Touch Sensor Integrated on a Thin-Film-Encapsulated Active-Matrix OLED for Ultrathin Displays. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 3609-3615.	1.6	71
47	Low-Power Flexible Organic Light-Emitting Diode Display Device. <i>Advanced Materials</i> , 2011, 23, 3511-3516.	11.1	343
48	Mechanically and optically reliable folding structure with a hyperelastic material for seamless foldable displays. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	38
49	18.4: A New Seamless Foldable OLED Display Composed of Multi Display Panels. <i>Digest of Technical Papers SID International Symposium</i> , 2010, 41, 257-260.	0.1	22
50	Development of a miniature tunable stiffness display using MR fluids for haptic application. <i>Sensors and Actuators A: Physical</i> , 2010, 163, 180-190.	2.0	53
51	Current on/off ratio enhancement through the electrical burning process in ambient with/without oxygen for the generation of high-performance aligned single-walled carbon nanotube field effect transistors. <i>Applied Physics Letters</i> , 2010, 97, 173102.	1.5	3
52	Conceptual design of miniature tunable stiffness display using MR fluids. , 2009, , .		4
53	Braille dot display module with a PDMS membrane driven by a thermopneumatic actuator. <i>Sensors and Actuators A: Physical</i> , 2009, 154, 238-246.	2.0	58
54	Braille code display device with a PDMS membrane and thermopneumatic actuator. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008, , .	0.0	7

#	ARTICLE	IF	CITATIONS
55	Ultrathin Gold Microelectrode Array using Polyelectrolyte Multilayers for Flexible and Transparent Electro-Optical Neural Interfaces. <i>Advanced Functional Materials</i> , 0, , 2106493.	7.8	8
56	Sub-Zero Temperature Sensor Based on Laser-Written Carbon. <i>Advanced Electronic Materials</i> , 0, , 2101252.	2.6	2