

# Hongki Kang

## List of Publications by Year in descending order

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35  
papers

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citations

331259

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docs citations

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times ranked

2217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-transparent, Micrometer Resolution $\text{p}^{\text{n}}\text{NiO}/\text{n}^{\text{n}}\text{ZnO}$ Heterojunction Diode Temperature Sensors with Ultrathin Metal Anode. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	2
2	High and Uniform Phosphorus Doping in Germanium Through a Modified Plasma Assisted Delta Doping Process With $\text{H}^{\text{n}}$ , Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2022, 43, 1315-1318.	2.2	3
3	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
4	Sol-gel-processed amorphous-phase $\text{ZrO}_2$ based resistive random access memory. <i>Materials Research Express</i> , 2021, 8, 116301.	0.8	10
5	Color Thin-Film Transistors Employing Periodic Nanohole Structures. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2489-2497.	2.0	4
6	Compact 256-channel multi-well microelectrode array system for <i>in vitro</i> neuropharmacology test. <i>Lab on A Chip</i> , 2020, 20, 3410-3422.	3.1	11
7	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
8	Thermoplasmonic Optical Fiber for Localized Neural Stimulation. <i>ACS Nano</i> , 2020, 14, 11406-11419.	7.3	31
9	Enhancement Mode Flexible $\text{SnO}_2$ Thin Film Transistors Via a UV/Ozone-Assisted Sol-Gel Approach. <i>IEEE Access</i> , 2020, 8, 123013-123018.	2.6	10
10	Sol-Gel Processed Yttrium-Doped $\text{SnO}_2$ Thin Film Transistors. <i>Electronics (Switzerland)</i> , 2020, 9, 254.	1.8	29
11	Thermo-plasmonic gold nanofilms for simple and mass-producible photothermal neural interfaces. <i>Nanoscale</i> , 2018, 10, 9226-9235.	2.8	26
12	Inkjet-Printed Biofunctional Thermo-Plasmonic Interfaces for Patterned Neuromodulation. <i>ACS Nano</i> , 2018, 12, 1128-1138.	7.3	61
13	Inkjet-Printed Multiwavelength Thermoplasmonic Images for Anticounterfeiting Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6764-6771.	4.0	58
14	High Performance Ultrathin $\text{SnO}_2$ Thin-Film Transistors by Sol-Gel Method. <i>IEEE Electron Device Letters</i> , 2018, 39, 1179-1182.	2.2	32
15	Inkjet-printed gold nanorods using biocompatible polyelectrolyte layer-by-layer coating for patterned photothermal applications. , 2017, 2017, 3545-3548.		3
16	Digital micromirror based near-infrared illumination system for plasmonic photothermal neuromodulation. <i>Biomedical Optics Express</i> , 2017, 8, 2866.	1.5	20
17	Feasibility Study of Extended-Gate-Type Silicon Nanowire Field-Effect Transistors for Neural Recording. <i>Sensors</i> , 2017, 17, 705.	2.1	7
18	Gravure-printed electronics: recent progress in tooling development, understanding of printing physics, and realization of printed devices. <i>Flexible and Printed Electronics</i> , 2016, 1, 023002.	1.5	160

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19	P-type CuO and Cu <sub>2</sub> O transistors derived from a sol-gel copper (II) acetate monohydrate precursor. Thin Solid Films, 2016, 600, 157-161.	0.8	72
20	MHz-Range Fully Printed High-Performance Thin-Film Transistors by Using High-Resolution Gravure-Printed Lines. Advanced Electronic Materials, 2015, 1, 1500155.	2.6	28
21	High-Speed Printing of Transistors: From Inks to Devices. Proceedings of the IEEE, 2015, 103, 567-582.	16.4	49
22	High performance printed organic transistors using a novel scanned thermal annealing technology. Organic Electronics, 2015, 20, 150-157.	1.4	11
23	Fully Inkjet-Printed Transparent Oxide Thin Film Transistors Using a Fugitive Wettability Switch. Advanced Electronic Materials, 2015, 1, 1500086.	2.6	99
24	Megahertz-class printed high mobility organic thin-film transistors and inverters on plastic using attoliter-scale high-speed gravure-printed sub-5 $\mu$ m gate electrodes. Organic Electronics, 2014, 15, 3639-3647.	1.4	50
25	Measurement and analysis of 1/f noise under switched bias in organic thin film transistors. Applied Physics Letters, 2014, 104, 023301.	1.5	13
26	Printed Transistors on Paper: Towards Smart Consumer Product Packaging. Advanced Functional Materials, 2014, 24, 5067-5074.	7.8	91
27	Analysis of flicker noise in two-dimensional multilayer MoS <sub>2</sub> transistors. Applied Physics Letters, 2014, 104, .	1.5	56
28	Transparent High-Performance Thin Film Transistors from Solution-Processed SnO <sub>2</sub> /ZrO <sub>2</sub> Gel-Like Precursors. Advanced Materials, 2013, 25, 1042-1047.	11.1	149
29	High-Performance Printed Transistors Realized Using Femtoliter Gravure-Printed Sub-10 $\mu$ m Metallic Nanoparticle Patterns and Highly Uniform Polymer Dielectric and Semiconductor Layers. Advanced Materials, 2012, 24, 3065-3069.	11.1	168
30	Measurement, analysis, and modeling of 1/f noise in pentacene thin film transistors. Applied Physics Letters, 2011, 99, .	1.5	26
31	Fully gravure and ink-jet printed high speed pBTTT organic thin film transistors. Organic Electronics, 2010, 11, 2037-2044.	1.4	102
32	Methodology for Inkjet Printing of Partially Wetting Films. Langmuir, 2010, 26, 15686-15693.	1.6	72
33	Hydrostatic Optimization of Inkjet-Printed Films. Langmuir, 2010, 26, 11568-11573.	1.6	55
34	Analytical Threshold Voltage Model for Double-Gate MOSFETs With Localized Charges. IEEE Electron Device Letters, 2008, 29, 927-930.	2.2	47
35	Ultrathin Gold Microelectrode Array using Polyelectrolyte Multilayers for Flexible and Transparent Electro-Optical Neural Interfaces. Advanced Functional Materials, 0, , 2106493.	7.8	8