

Hongki Kang

List of Publications by Year in descending order

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papers

1,577
citations

331259

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Printed Transistors Realized Using Femtoliter Gravure-Printed Sub-10 nm Metallic Nanoparticle Patterns and Highly Uniform Polymer Dielectric and Semiconductor Layers. <i>Advanced Materials</i> , 2012, 24, 3065-3069.	11.1	168
2	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
3	Transparent High-Performance Thin Film Transistors from Solution-Processed SnO ₂ /ZrO ₂ Gel-Like Precursors. <i>Advanced Materials</i> , 2013, 25, 1042-1047.	11.1	149
4	Fully gravure and ink-jet printed high speed pBTTT organic thin film transistors. <i>Organic Electronics</i> , 2010, 11, 2037-2044.	1.4	102
5	Fully Inkjet-Printed Transparent Oxide Thin Film Transistors Using a Fugitive Wettability Switch. <i>Advanced Electronic Materials</i> , 2015, 1, 1500086.	2.6	99
6	Printed Transistors on Paper: Towards Smart Consumer Product Packaging. <i>Advanced Functional Materials</i> , 2014, 24, 5067-5074.	7.8	91
7	Methodology for Inkjet Printing of Partially Wetting Films. <i>Langmuir</i> , 2010, 26, 15686-15693.	1.6	72
8	P-type CuO and Cu ₂ O transistors derived from a sol-gel copper (II) acetate monohydrate precursor. <i>Thin Solid Films</i> , 2016, 600, 157-161.	0.8	72
9	Inkjet-Printed Biofunctional Thermo-Plasmonic Interfaces for Patterned Neuromodulation. <i>ACS Nano</i> , 2018, 12, 1128-1138.	7.3	61
10	Inkjet-Printed Multiwavelength Thermoplasmonic Images for Anticounterfeiting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6764-6771.	4.0	58
11	Analysis of flicker noise in two-dimensional multilayer MoS ₂ transistors. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	56
12	Hydrostatic Optimization of Inkjet-Printed Films. <i>Langmuir</i> , 2010, 26, 11568-11573.	1.6	55
13	Megahertz-class printed high mobility organic thin-film transistors and inverters on plastic using attoliter-scale high-speed gravure-printed sub-5 nm gate electrodes. <i>Organic Electronics</i> , 2014, 15, 3639-3647.	1.4	50
14	High-Speed Printing of Transistors: From Inks to Devices. <i>Proceedings of the IEEE</i> , 2015, 103, 567-582.	16.4	49
15	Analytical Threshold Voltage Model for Double-Gate MOSFETs With Localized Charges. <i>IEEE Electron Device Letters</i> , 2008, 29, 927-930.	2.2	47
16	High Performance Ultrathin SnO ₂ Thin-Film Transistors by Sol-Gel Method. <i>IEEE Electron Device Letters</i> , 2018, 39, 1179-1182.	2.2	32
17	Thermoplasmonic Optical Fiber for Localized Neural Stimulation. <i>ACS Nano</i> , 2020, 14, 11406-11419.	7.3	31
18	Sol-Gel Processed Yttrium-Doped SnO ₂ Thin Film Transistors. <i>Electronics (Switzerland)</i> , 2020, 9, 254.	1.8	29

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19	MHz-Range Fully Printed High-Performance Thin-Film Transistors by Using High-Resolution Gravure-Printed Lines. <i>Advanced Electronic Materials</i> , 2015, 1, 1500155.	2.6	28
20	Measurement, analysis, and modeling of 1/f noise in pentacene thin film transistors. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	26
21	Thermo-plasmonic gold nanofilms for simple and mass-producible photothermal neural interfaces. <i>Nanoscale</i> , 2018, 10, 9226-9235.	2.8	26
22	Digital micromirror based near-infrared illumination system for plasmonic photothermal neuromodulation. <i>Biomedical Optics Express</i> , 2017, 8, 2866.	1.5	20
23	Measurement and analysis of 1/f noise under switched bias in organic thin film transistors. <i>Applied Physics Letters</i> , 2014, 104, 023301.	1.5	13
24	High performance printed organic transistors using a novel scanned thermal annealing technology. <i>Organic Electronics</i> , 2015, 20, 150-157.	1.4	11
25	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
26	Enhancement Mode Flexible SnO ₂ Thin Film Transistors Via a UV/Ozone-Assisted Sol-Gel Approach. <i>IEEE Access</i> , 2020, 8, 123013-123018.	2.6	10
27	Sol-gel-processed amorphous-phase ZrO ₂ based resistive random access memory. <i>Materials Research Express</i> , 2021, 8, 116301.	0.8	10
28	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
29	Feasibility Study of Extended-Gate-Type Silicon Nanowire Field-Effect Transistors for Neural Recording. <i>Sensors</i> , 2017, 17, 705.	2.1	7
30	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
31	Color Thin-Film Transistors Employing Periodic Nanohole Structures. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2489-2497.	2.0	4
32	Inkjet-printed gold nanorods using biocompatible polyelectrolyte layer-by-layer coating for patterned photothermal applications. , 2017, 2017, 3545-3548.		3
33	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
34	High and Uniform Phosphorus Doping in Germanium Through a Modified Plasma Assisted Delta Doping Process With H ₂ , Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2022, 43, 1315-1318.	2.2	3
35	Semi-Transparent, Micrometer Resolution p-niO/n-ZnO Heterojunction Diode Temperature Sensors with Ultrathin Metal Anode. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	2