

# Min-Hoi Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

448  
citations

933447

10  
h-index

752698

20  
g-index

37  
all docs

37  
docs citations

37  
times ranked

357  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal annealing effect on the crack development and the stability of 6,13-bis(triisopropylsilylethynyl)-pentacene field-effect transistors with a solution-processed polymer insulator. <i>Organic Electronics</i> , 2010, 11, 784-788.	2.6	62
2	Interfacial Triggering of Conductive Filament Growth in Organic Flexible Memristor for High Reliability and Uniformity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30108-30115.	8.0	55
3	Fluoropolymer-based organic memristor with multifunctionality for flexible neural network system. <i>Npj Flexible Electronics</i> , 2021, 5, .	10.7	40
4	Organic Flexible Memristor with Reduced Operating Voltage and High Stability by Interfacial Control of Conductive Filament Growth. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900044.	2.4	37
5	Reliable organic memristors for neuromorphic computing by predefining a localized ion-migration path in crosslinkable polymer. <i>Nanoscale</i> , 2020, 12, 22502-22510.	5.6	32
6	Solution-processed low leakage organic field-effect transistors with self-pattern registration based on patterned dielectric barrier. <i>Organic Electronics</i> , 2012, 13, 778-783.	2.6	29
7	Introduction of Interfacial Load Polymeric Layer to Organic Flexible Memristor for Regulating Conductive Filament Growth. <i>Advanced Electronic Materials</i> , 2020, 6, 2000582.	5.1	28
8	Control of conductive filament growth in flexible organic memristor by polymer alignment. <i>Organic Electronics</i> , 2020, 87, 105927.	2.6	28
9	Realization of Biomimetic Synaptic Functions in a One-Cell Organic Resistive Switching Device Using the Diffusive Parameter of Conductive Filaments. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51719-51728.	8.0	20
10	Complementary transfer-assisted patterning of high-resolution heterogeneous elements on plastic substrates for flexible electronics. <i>Organic Electronics</i> , 2010, 11, 2026-2031.	2.6	16
11	Organic thin-film transistors with liquid crystalline polymer insulator integrated for solution-processed organic light-emitting devices. <i>Semiconductor Science and Technology</i> , 2019, 34, 105012.	2.0	9
12	Flexible multi-level resistive memory with high current ratio by electrical triggering into insulating layer. <i>Organic Electronics</i> , 2017, 51, 357-361.	2.6	8
13	Fabrication of Multi-Layer Metal Oxides Structure for Colored Glass. <i>Materials</i> , 2021, 14, 2437.	2.9	8
14	Introduction of helical photonic crystal insulator in organic phototransistor for enhancing selective color absorption. <i>Organic Electronics</i> , 2022, 100, 106385.	2.6	8
15	Concept of rewritable organic ferroelectric random access memory in two lateral transistors-in-one cell architecture. <i>Semiconductor Science and Technology</i> , 2014, 29, 025004.	2.0	6
16	Effect of photoresponsive polymer gate insulators on performance of poly(4-vinylphenol)-based organic phototransistors. <i>Semiconductor Science and Technology</i> , 2019, 34, 075006.	2.0	6
17	Ferroelectric-Dielectric Mixed Buffer Layer for Enhanced Electrical Performance of Organic Ferroelectric Memory Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4651-4656.	0.9	5
18	Thermal stability of devices with molybdenum oxide doped organic semiconductors. <i>Organic Electronics</i> , 2016, 28, 172-177.	2.6	4

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19	Modulation of memory effect in organic phototransistors by controlling energy barrier between organic semiconductor and source electrode. <i>Semiconductor Science and Technology</i> , 2020, 35, 025011.	2.0	4
20	Enhanced Optical Switching Characteristics of Organic Phototransistor by Adopting Photo-Responsive Polymer in Hybrid Gate-Insulator Configuration. <i>Polymers</i> , 2020, 12, 527.	4.5	4
21	Improvement of Photoresponse in Organic Phototransistors through Bulk Effect of Photoresponsive Gate Insulators. <i>Materials</i> , 2020, 13, 1565.	2.9	4
22	Effect of Buffer Layer Capacitance on the Electrical Characteristics of Ferroelectric Polymer Capacitors and Field Effect Transistors. <i>Materials</i> , 2021, 14, 1276.	2.9	4
23	Molecular subtractive surface-energy engineering of crosslinked Poly(4-vinylphenol) insulators for a solution-processed organic thin-film transistor. <i>Organic Electronics</i> , 2021, 99, 106345.	2.6	4
24	Chevron-type gate configuration of short channel top-contact organic thin-film transistors for large saturated drain current. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 145106.	2.8	3
25	Leakage current behavior in MIM capacitors and MISM organic capacitors with a thin AlO <sub>x</sub> insulator. <i>Electronic Materials Letters</i> , 2015, 11, 241-245.	2.2	3
26	Roughness Reduction of PVDF-TrFE Insulator by Reverse Transfer Printing for Enhanced Performance of Ferroelectric Organic Memory Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4149-4152.	0.9	3
27	Perhydropolysilazane Charge Trap Layer in Solution-Processed Organic and Oxide Memory Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	3
28	Enhancement of the Retention Characteristics in Solution-Processed Ferroelectric Memory Transistor with Dual-Gate Structure. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 1766-1771.	0.9	2
29	High-resolution continuous microcontact printing on various substrates for organic and oxide electronics. <i>Flexible and Printed Electronics</i> , 2021, 6, 025011.	2.7	2
30	Degradation analysis of doped organic p-n heterojunction charge generation layers by impedance and optical spectroscopy. <i>Materials Today Energy</i> , 2021, 21, 100794.	4.7	2
31	Controllable liquid water sensitivity of polymer-encapsulated oxide thin-film transistors. <i>Semiconductor Science and Technology</i> , 2020, 35, 115006.	2.0	2
32	Optically Proved Molecular Alignment Behavior of Organic Semiconductor and Its Application for Organic Transistor with Enhanced Electrical Characteristics. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4239-4242.	0.9	2
33	Model membrane-mediated cell alignment through surface hydrophobicity. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 636, 149-154.	0.9	1
34	Enhanced charge injection in 6, 13-bis(triisopropylsilylethynyl)-pentacene field-effect transistors with a rhenium oxide buffer layer. <i>Semiconductor Science and Technology</i> , 2019, 34, 035008.	2.0	1
35	Selective Etching of Dielectric Buffer Layer for Organic Ferroelectric Memory Cell. <i>Electronic Materials Letters</i> , 2021, 17, 406-413.	2.2	1
36	Enhancement of Charge Injection in Organic Field-Effect Transistors Through Semiconducting Organic Buffer Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3923-3928.	0.9	1

#	ARTICLE	IF	CITATIONS
37	Solution-Processed Organic and Oxide Hybrid CMOS Inverter for Low Cost Electronic Circuits. Journal of Nanoscience and Nanotechnology, 2020, 20, 4381-4384.	0.9	1