

Sin-Hyung Lee

List of Publications by Year in descending order

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41
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398
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction of helical photonic crystal insulator in organic phototransistor for enhancing selective color absorption. <i>Organic Electronics</i> , 2022, 100, 106385.	1.4	8
2	Enhanced switching ratio of sol-gel-processed $Y_{2}O_{3}$ RRAM device by suppressing oxygen vacancy formation at high annealing temperatures. <i>Semiconductor Science and Technology</i> , 2022, 37, 015007.	1.0	10
3	Circuit-Level Exploration of Ternary Logic Using Memristors and MOSFETs. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 707-720.	3.5	18
4	Analysis for DC and RF Characteristics Recessed-Gate GaN MOSFET Using Stacked $TiO_{2}/Si_{3}N_{4}$ Dual-Layer Insulator. <i>Materials</i> , 2022, 15, 819.	1.3	3
5	A Fast Weight Transfer Method for Real-Time Online Learning in RRAM-Based Neuromorphic System. <i>IEEE Access</i> , 2022, 10, 37030-37038.	2.6	5
6	Environmentally and Electrically Stable Sol-Gel-Deposited SnO_{2} Thin-Film Transistors with Controlled Passivation Layer Diffusion Penetration Depth That Minimizes Mobility Degradation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10558-10565.	4.0	9
7	Enhanced Switching Reliability of Sol-Gel-Processed $Y_{2}O_{3}$ RRAM Devices Based on $Y_{2}O_{3}$ Surface Roughness-Induced Local Electric Field. <i>Materials</i> , 2022, 15, 1943.	1.3	8
8	Flexible Sol-Gel-Processed $Y_{2}O_{3}$ RRAM Devices Obtained via UV/Ozone-Assisted Photochemical Annealing Process. <i>Materials</i> , 2022, 15, 1899.	1.3	8
9	Room-Temperature High-Detectivity Flexible Near-Infrared Photodetectors with Chalcogenide Silver Telluride Nanoparticles. <i>ACS Omega</i> , 2022, 7, 10262-10267.	1.6	4
10	Systematic Engineering of Metal Ion Injection in Memristors for Complex Neuromorphic Computing with High Energy Efficiency. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	10
11	A Practical Implementation of the Ternary Logic Using Memristors and MOSFETs. , 2021, , .		9
12	Self-Selective Organic Memristor by Engineered Conductive Nanofilament Diffusion for Realization of Practical Neuromorphic System. <i>Advanced Electronic Materials</i> , 2021, 7, 2100299.	2.6	21
13	Improved Negative Bias Stress Stability of Sol-Gel-Processed Li-Doped SnO_{2} Thin-Film Transistors. <i>Electronics (Switzerland)</i> , 2021, 10, 1629.	1.8	6
14	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
15	Balance of surface energy difference between wetting and dewetting regions for patterning solution-processed organic light-emitting diode. <i>Organic Electronics</i> , 2021, 95, 106203.	1.4	5
16	Design of Capacitorless DRAM Based on Polycrystalline Silicon Nanotube Structure. <i>IEEE Access</i> , 2021, 9, 163675-163685.	2.6	6
17	Fluoropolymer-based organic memristor with multifunctionality for flexible neural network system. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	40
18	Introduction of Interfacial Load Polymeric Layer to Organic Flexible Memristor for Regulating Conductive Filament Growth. <i>Advanced Electronic Materials</i> , 2020, 6, 2000582.	2.6	28

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19	Realization of Biomimetic Synaptic Functions in a One-Cell Organic Resistive Switching Device Using the Diffusive Parameter of Conductive Filaments. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51719-51728.	4.0	20
20	Control of conductive filament growth in flexible organic memristor by polymer alignment. <i>Organic Electronics</i> , 2020, 87, 105927.	1.4	28
21	Reliable organic memristors for neuromorphic computing by predefining a localized ion-migration path in crosslinkable polymer. <i>Nanoscale</i> , 2020, 12, 22502-22510.	2.8	32
22	Poster: Quantum Dot Patterns in Molecularly Ordered Matrix for Emissive Displays with Wide Color Gamut. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 1779-1782.	0.1	1
23	Interfacial Triggering of Conductive Filament Growth in Organic Flexible Memristor for High Reliability and Uniformity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30108-30115.	4.0	55
24	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.	1.0	9
25	High Resolution Micro-patterning of Stretchable Polymer Electrodes through Directed Wetting Localization. <i>Scientific Reports</i> , 2019, 9, 13066.	1.6	13
26	Effect of photoresponsive polymer gate insulators on performance of poly(4-vinylphenol)-based organic phototransistors. <i>Semiconductor Science and Technology</i> , 2019, 34, 075006.	1.0	6
27	Solution-processed organic light-emitting diode in high-resolution line patterns by scalable wetting modification. <i>Organic Electronics</i> , 2019, 73, 332-336.	1.4	9
28	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.	1.2	37
29	Concept of chiral image storage and selection based on liquid crystals by circular polarization. <i>Optics Express</i> , 2019, 27, 11661.	1.7	10
30	Full-coloration based on metallic nanostructures through phase discontinuity in Fabry-Perot resonators. <i>Optics Express</i> , 2019, 27, 33098.	1.7	5
31	Highly Sensitive Color Tunability by Scalable Nanomorphology of a Dielectric Layer in Liquid-Permeable Metal-Insulator-Metal Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38581-38587.	4.0	17
32	Generation of intensity-tunable structural color from helical photonic crystals for full color reflective-type display. <i>Optics Express</i> , 2018, 26, 13561.	1.7	13
33	Vertical organic light-emitting transistor showing a high current on/off ratio through dielectric encapsulation for the effective charge pathway. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	20
34	Flexible multi-level resistive memory with high current ratio by electrical triggering into insulating layer. <i>Organic Electronics</i> , 2017, 51, 357-361.	1.4	8
35	Vapor Pressure Effect on Electrical Properties of Solution-Processed Organic Field-Effect Transistors. <i>Science of Advanced Materials</i> , 2017, 9, 290-295.	0.1	0
36	Dependence of Bias Stress on Hydrophobicity of Gate Insulator in Solution-Processed Organic Thin-Film Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8618-8621.	0.9	3

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37	Effect of morphological and physicochemical properties of dielectric-organic semiconductor interfaces on photoresponse of organic phototransistors. <i>Thin Solid Films</i> , 2016, 619, 297-301.	0.8	22
38	Electrowetting-on-Dielectric Device Controlled by Embedded Undulating Electrode for Liquid Transport. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6455-6458.	0.9	2
39	Quasi-surface emission in vertical organic light-emitting transistors with network electrode. <i>Optics Express</i> , 2014, 22, 14750.	1.7	18
40	Combinatorial color arrays based on optical micro-resonators in monolithic architecture. <i>Optics Express</i> , 2014, 22, 15320.	1.7	8
41	Analysis and Optimization for Characteristics of Vertical GaN Junctionless MOSFETs Depending on Specifications of GaN Substrates. <i>Journal of Electrical Engineering and Technology</i> , 0, , .	1.2	0