

Keehoon Kang

List of Publications by Year in descending order

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34
papers

1,230
citations

516710

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395702

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docs citations

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times ranked

2310
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistive Switching by Percolative Conducting Filaments in Organometal Perovskite Unipolar Memory Devices Analyzed Using Current Noise Spectra. <i>Advanced Functional Materials</i> , 2022, 32, 2107727.	14.9	8
2	Channel-Length-Modulated Avalanche Multiplication in Ambipolar WSe_2 Field-Effect Transistors. <i>ACS Nano</i> , 2022, 16, 5376-5383.	14.6	9
3	Photo-Responsive Molecular Junctions Activated by Perovskite/Graphene Heterostructure Electrode. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	4
4	Enhanced Thermoelectric Power Factor in Carrier-Type-Controlled Platinum Diselenide Nanosheets by Molecular Charge-Transfer Doping. <i>Small</i> , 2022, , 2200818.	10.0	1
5	A polymer/small-molecule binary-blend hole transport layer for enhancing charge balance in blue perovskite light emitting diodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13928-13935.	10.3	15
6	Single Atom Selenium Substitution-Mediated P-Type Doping in Polythiophenes toward High-Performance Organic Electronics and Thermoelectrics. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	4
7	Boosting the efficiency of quasi-2D perovskites light-emitting diodes by using encapsulation growth method. <i>Nano Energy</i> , 2021, 80, 105511.	16.0	54
8	Crystallinity-dependent device characteristics of polycrystalline 2D $n = 4$ Ruddlesden-Popper perovskite photodetectors. <i>Nanotechnology</i> , 2021, 32, 185203.	2.6	10
9	Tailored Design-of-Experiments Approach for Device Performance Prediction and Optimization of Flash-Evaporated Organic-Inorganic Halide Perovskite-Based Photodetectors. <i>Advanced Materials Technologies</i> , 2021, 6, 2001131.	5.8	5
10	Perovskite Photodetector Devices: Tailored Design-of-Experiments Approach for Device Performance Prediction and Optimization of Flash-Evaporated Organic-Inorganic Halide Perovskite-Based Photodetectors (<i>Adv. Mater. Technol.</i> 5/2021). <i>Advanced Materials Technologies</i> , 2021, 6, 2170029.	5.8	0
11	Ultrasensitive Photodetection in MoS_2 Avalanche Phototransistors. <i>Advanced Science</i> , 2021, 8, e2102437.	11.2	34
12	Molecular Dopant-Dependent Charge Transport in Surface-Charge-Transfer-Doped Tungsten Diselenide Field Effect Transistors. <i>Advanced Materials</i> , 2021, 33, e2101598.	21.0	20
13	Layer-by-Layer Structural Identification of 2D Ruddlesden-Popper Hybrid Lead Iodide Perovskites by Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 370-377.	6.7	44
14	Proton irradiation effects on mechanochemically synthesized and flash-evaporated hybrid organic-inorganic lead halide perovskites. <i>Nanotechnology</i> , 2021, 33, .	2.6	2
15	Crystal Size Effect on Carrier Transport of Microscale Perovskite Junctions via Soft Contact. <i>Nano Letters</i> , 2020, 20, 8640-8646.	9.1	18
16	Controllable deposition of organic metal halide perovskite films with wafer-scale uniformity by single source flash evaporation. <i>Scientific Reports</i> , 2020, 10, 18781.	3.3	6
17	Solution-Processed Transparent Superhydrophobic Protection Layers for Enhancing the Device Reliability of Flexible Organic Optoelectronics. <i>Advanced Materials Technologies</i> , 2020, 5, 2000449.	5.8	3
18	Highly Stable Contact Doping in Organic Field Effect Transistors by Dopant-Blockade Method. <i>Advanced Functional Materials</i> , 2020, 30, 2000058.	14.9	30

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19	Intrinsic Optoelectronic Characteristics of MoS ₂ Phototransistors via a Fully Transparent van der Waals Heterostructure. ACS Nano, 2019, 13, 9638-9646.	14.6	43
20	Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping. Advanced Materials, 2019, 31, e1806697.	21.0	60
21	Long spin diffusion lengths in doped conjugated polymers due to enhanced exchange coupling. Nature Electronics, 2019, 2, 98-107.	26.0	62
22	Organic Field-Effect Transistors: Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping (Adv. Mater. 10/2019). Advanced Materials, 2019, 31, 1970073.	21.0	2
23	Investigation of the thermoelectric response in conducting polymers doped by solid-state diffusion. Materials Today Physics, 2019, 8, 112-122.	6.0	40
24	High-Performance Solution-Processed Organo-Metal Halide Perovskite Unipolar Resistive Memory Devices in a Cross-Bar Array Structure. Advanced Materials, 2019, 31, e1804841.	21.0	100
25	Unidirectional Real-Time Photoswitching of Diarylethene Molecular Monolayer Junctions with Multilayer Graphene Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 11645-11653.	8.0	23
26	Contact-Engineered Electrical Properties of MoS ₂ Field-Effect Transistors via Selectively Deposited Thiol-Molecules. Advanced Materials, 2018, 30, e1705540.	21.0	56
27	Peltier cooling at molecular scale. Nature Nanotechnology, 2018, 13, 97-99.	31.5	5
28	Field-Effect Transistors: Contact-Engineered Electrical Properties of MoS ₂ Field-Effect Transistors via Selectively Deposited Thiol-Molecules (Adv. Mater. 18/2018). Advanced Materials, 2018, 30, 1870129.	21.0	1
29	Investigation of Time-Dependent Resistive Switching Behaviors of Unipolar Nonvolatile Organic Memory Devices. Advanced Functional Materials, 2018, 28, 1801162.	14.9	34
30	Resistive Switching Memory: Investigation of Time-Dependent Resistive Switching Behaviors of Unipolar Nonvolatile Organic Memory Devices (Adv. Funct. Mater. 35/2018). Advanced Functional Materials, 2018, 28, 1870249.	14.9	4
31	Spin transport in organic semiconductors: From spin pumping by ferromagnetic resonance to lateral spin-valves., 2017, , .		0
32	2D coherent charge transport in highly ordered conducting polymers doped by solid state diffusion. Nature Materials, 2016, 15, 896-902.	27.5	346
33	Spin-current emission governed by nonlinear spin dynamics. Scientific Reports, 2015, 5, 15158.	3.3	12
34	Polaron spin current transport in organic semiconductors. Nature Physics, 2014, 10, 308-313.	16.7	170