

Keehoon Kang

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,230
citations

516710

16
h-index

395702

33
g-index

40
all docs

40
docs citations

40
times ranked

2310
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 2D coherent charge transport in highly ordered conducting polymers doped by solid state diffusion. Nature Materials, 2016, 15, 896-902. | 27.5 | 346 |
| 2 | Polaron spin current transport in organic semiconductors. Nature Physics, 2014, 10, 308-313. | 16.7 | 170 |
| 3 | 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 |
| 4 | Long spin diffusion lengths in doped conjugated polymers due to enhanced exchange coupling. Nature Electronics, 2019, 2, 98-107. | 26.0 | 62 |
| 5 | Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping. Advanced Materials, 2019, 31, e1806697. | 21.0 | 60 |
| 6 | Contact-Engineered Electrical Properties of MoS ₂ Field-Effect Transistors via Selectively Deposited Thiol-Molecules. Advanced Materials, 2018, 30, e1705540. | 21.0 | 56 |
| 7 | Boosting the efficiency of quasi-2D perovskites light-emitting diodes by using encapsulation growth method. Nano Energy, 2021, 80, 105511. | 16.0 | 54 |
| 8 | Layer-by-Layer Structural Identification of 2D Ruddlesden-Popper Hybrid Lead Iodide Perovskites by Solid-State NMR Spectroscopy. Chemistry of Materials, 2021, 33, 370-377. | 6.7 | 44 |
| 9 | Intrinsic Optoelectronic Characteristics of MoS ₂ Phototransistors via a Fully Transparent van der Waals Heterostructure. ACS Nano, 2019, 13, 9638-9646. | 14.6 | 43 |
| 10 | Investigation of the thermoelectric response in conducting polymers doped by solid-state diffusion. Materials Today Physics, 2019, 8, 112-122. | 6.0 | 40 |
| 11 | Investigation of Time-Dependent Resistive Switching Behaviors of Unipolar Nonvolatile Organic Memory Devices. Advanced Functional Materials, 2018, 28, 1801162. | 14.9 | 34 |
| 12 | Ultrasensitive Photodetection in MoS ₂ Avalanche Phototransistors. Advanced Science, 2021, 8, e2102437. | 11.2 | 34 |
| 13 | Highly Stable Contact Doping in Organic Field Effect Transistors by Dopant-Blockade Method. Advanced Functional Materials, 2020, 30, 2000058. | 14.9 | 30 |
| 14 | Unidirectional Real-Time Photoswitching of Diarylethene Molecular Monolayer Junctions with Multilayer Graphene Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 11645-11653. | 8.0 | 23 |
| 15 | Molecular Dopant-Dependent Charge Transport in Surface-Charge-Transfer-Doped Tungsten Diselenide Field Effect Transistors. Advanced Materials, 2021, 33, e2101598. | 21.0 | 20 |
| 16 | Crystal Size Effect on Carrier Transport of Microscale Perovskite Junctions via Soft Contact. Nano Letters, 2020, 20, 8640-8646. | 9.1 | 18 |
| 17 | A polymer/small-molecule binary-blend hole transport layer for enhancing charge balance in blue perovskite light emitting diodes. Journal of Materials Chemistry A, 2022, 10, 13928-13935. | 10.3 | 15 |
| 18 | Spin-current emission governed by nonlinear spin dynamics. Scientific Reports, 2015, 5, 15158. | 3.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Crystallinity-dependent device characteristics of polycrystalline 2D $n = 4$ Ruddlesden-Popper perovskite photodetectors. <i>Nanotechnology</i> , 2021, 32, 185203. | 2.6 | 10 |
| 20 | Channel-Length-Modulated Avalanche Multiplication in Ambipolar WSe_2 Field-Effect Transistors. <i>ACS Nano</i> , 2022, 16, 5376-5383. | 14.6 | 9 |
| 21 | 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 |
| 22 | 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 |
| 23 | Peltier cooling at molecular scale. <i>Nature Nanotechnology</i> , 2018, 13, 97-99. | 31.5 | 5 |
| 24 | 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 |
| 25 | Resistive Switching Memory: Investigation of Time-Dependent Resistive Switching Behaviors of Unipolar Nonvolatile Organic Memory Devices (<i>Adv. Funct. Mater.</i> 35/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870249. | 14.9 | 4 |
| 26 | Photo-Responsive Molecular Junctions Activated by Perovskite/Graphene Heterostructure Electrode. <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 4 |
| 27 | 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 |
| 28 | 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 |
| 29 | Organic Field-Effect Transistors: Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping (<i>Adv. Mater.</i> 10/2019). <i>Advanced Materials</i> , 2019, 31, 1970073. | 21.0 | 2 |
| 30 | Proton irradiation effects on mechanochemically synthesized and flash-evaporated hybrid organic-inorganic lead halide perovskites. <i>Nanotechnology</i> , 2021, 33, . | 2.6 | 2 |
| 31 | Field-Effect Transistors: Contact-Engineered Electrical Properties of MoS_2 Field-Effect Transistors via Selectively Deposited Thiol-Molecules (<i>Adv. Mater.</i> 18/2018). <i>Advanced Materials</i> , 2018, 30, 1870129. | 21.0 | 1 |
| 32 | Enhanced Thermoelectric Power Factor in Carrier-Type-Controlled Platinum Diselenide Nanosheets by Molecular Charge-Transfer Doping. <i>Small</i> , 2022, , 2200818. | 10.0 | 1 |
| 33 | Spin transport in organic semiconductors: From spin pumping by ferromagnetic resonance to lateral spin-valves. , 2017, , . | | 0 |
| 34 | 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 |