

Mi Jung Lee

List of Publications by Year in descending order

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52
papers

1,666
citations

430754

18
h-index

289141

40
g-index

53
all docs

53
docs citations

53
times ranked

3288
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Ambipolar Diketopyrrolopyrrole-Thieno[3,2 <i>b</i>]thiophene Copolymer Field-Effect Transistors with Balanced Hole and Electron Mobilities. <i>Advanced Materials</i> , 2012, 24, 647-652.	11.1	521
2	Anisotropy of Charge Transport in a Uniaxially Aligned and Chain-Extended, High-Mobility, Conjugated Polymer Semiconductor. <i>Advanced Functional Materials</i> , 2011, 21, 932-940.	7.8	166
3	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS ₂ van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5016-5024.	5.2	132
4	Characteristics and effects of diffused water between graphene and a SiO ₂ substrate. <i>Nano Research</i> , 2012, 5, 710-717.	5.8	91
5	Phase control of quasi-2D perovskites and improved light-emitting performance by excess organic cations and nanoparticle intercalation. <i>Nanoscale</i> , 2019, 11, 3546-3556.	2.8	55
6	Textile Resistance Switching Memory for Fabric Electronics. <i>Advanced Functional Materials</i> , 2017, 27, 1605593.	7.8	50
7	Reduced graphene oxide based flexible organic charge trap memory devices. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	48
8	Synaptic devices based on two-dimensional layered single-crystal chromium thiophosphate (CrPS ₄). <i>NPG Asia Materials</i> , 2018, 10, 23-30.	3.8	48
9	Plasmonically Engineered Textile Polymer Solar Cells for High-Performance, Wearable Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20864-20872.	4.0	37
10	Hydration behavior of MgO single crystals and thin films. <i>Journal of Materials Research</i> , 2003, 18, 2895-2903.	1.2	36
11	A highly efficient indium tin oxide nanoparticles (ITO-NPs) transparent heater based on solution-process optimized with oxygen vacancy control. <i>Journal of Alloys and Compounds</i> , 2017, 726, 712-719.	2.8	35
12	Impact of Hydroxyl Groups Boosting Heterogeneous Nucleation on Perovskite Grains and Photovoltaic Performances. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16630-16638.	1.5	33
13	All-solution-processed nonvolatile flexible nano-floating gate memory devices. <i>Nanotechnology</i> , 2014, 25, 014016.	1.3	29
14	A flexible transparent heater with ultrahigh thermal efficiency and fast thermal response speed based on a simple solution-processed indium tin oxide nanoparticles-silver nanowires composite structure on photo-polymeric film. <i>Composites Science and Technology</i> , 2018, 157, 107-118.	3.8	24
15	Electrooptical Spectroscopy of Uniaxially Aligned Polythiophene Films in Field-Effect Transistors. <i>Chemistry of Materials</i> , 2013, 25, 2075-2082.	3.2	22
16	Correlation between micrometer-scale ripple alignment and atomic-scale crystallographic orientation of monolayer graphene. <i>Scientific Reports</i> , 2014, 4, 7263.	1.6	21
17	Thermoelectric Properties of Thermally Reduced Graphene Oxide Observed by Tuning the Energy States. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7468-7474.	3.2	21
18	The Electrical Properties of Asymmetric Schottky Contact Thin-Film Transistors with Amorphous-In ₂ S ₃ /Ga ₂ O ₃ /ZnO. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 1128-1135.	1.6	18

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19	Universality of strain-induced anisotropic friction domains on 2D materials. <i>NPG Asia Materials</i> , 2018, 10, 1069-1075.	3.8	17
20	Improved Interfacial Crystallization by Synergic Effects of Precursor Solution Stoichiometry and Conjugated Polyelectrolyte Interlayer for High Open-Circuit Voltage of Perovskite Photovoltaic Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12328-12336.	4.0	17
21	Interfacial Defects Change the Correlation between Photoluminescence, Ideality Factor, and Open-Circuit Voltage in Perovskite Solar Cells. <i>Small</i> , 2021, 17, e2101839.	5.2	16
22	Current-Induced Joule Heating and Electrical Field Effects in Low Temperature Measurements on TIPS Pentacene Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1600163.	2.6	15
23	P-type doped ambipolar polymer transistors by direct charge transfer from a cationic organic dye Pyronin B ferric chloride. <i>Organic Electronics</i> , 2016, 39, 229-235.	1.4	15
24	Improved performance of organic photovoltaic devices by doping F 4 TCNQ onto solution-processed graphene as a hole transport layer. <i>Organic Electronics</i> , 2016, 30, 302-311.	1.4	15
25	Significance of Ambient Temperature Control for Highly Reproducible Layered Perovskite Light-Emitting Diodes. <i>ACS Photonics</i> , 2020, 7, 2489-2497.	3.2	15
26	Photoconductivity anisotropy study in uniaxially aligned polymer based planar photodiodes. <i>Organic Electronics</i> , 2012, 13, 36-42.	1.4	14
27	Effect of stress and density on the electrical and physical properties of MgO protecting layer for alternating current-plasma display panels. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005, 23, 1192-1196.	0.9	12
28	Improved Charge Injection of Metal Oxide Thin-Film Transistors by Stacked Electrodes of Indium Tin Oxide Nanoparticles and Silver Nanowires. <i>Advanced Electronic Materials</i> , 2018, 4, 1700440.	2.6	12
29	Knitted strain sensor with carbon fiber and aluminum-coated yarn, for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16440-16449.	2.7	12
30	Analysis of charge injection and contact resistance as a function of electrode surface treatment in ambipolar polymer transistors. <i>Electronic Materials Letters</i> , 2018, 14, 1-6.	1.0	11
31	Controlling Spatial Crystallization Uniformity and Phase Orientation of Quasi-2D Perovskite-Based Light-Emitting Diodes Using Lewis Bases. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901860.	1.9	11
32	PEDOT gate electrodes with PVP/Al ₂ O ₃ dielectrics for stable high-performance organic TFTs. <i>Electronic Materials Letters</i> , 2013, 9, 741-746.	1.0	10
33	Hybrid dielectric layer for low operating voltages of transparent and flexible organic complementary inverter. <i>Electronic Materials Letters</i> , 2015, 11, 252-258.	1.0	10
34	Configuration of ripple domains and their topological defects formed under local mechanical stress on hexagonal monolayer graphene. <i>Scientific Reports</i> , 2015, 5, 9390.	1.6	10
35	Time-Shared Twin Memristor Crossbar Reducing the Number of Arrays by Half for Pattern Recognition. <i>Nanoscale Research Letters</i> , 2017, 12, 205.	3.1	9
36	Enhanced Performance of Field-Effect Transistors Based on Black Phosphorus Channels Reduced by Galvanic Corrosion of Al Overlayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18895-18901.	4.0	9

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37	Understanding filamentary growth and rupture by Ag ion migration through single-crystalline 2D layered CrPS4. NPG Asia Materials, 2020, 12, .	3.8	9
38	Effects of the morphology of CIPs on microwave absorption behaviors. Electronic Materials Letters, 2017, 13, 471-477.	1.0	7
39	Development of CIP/graphite composite additives for electromagnetic wave absorption applications. Electronic Materials Letters, 2017, 13, 398-405.	1.0	5
40	Charge-trapping memory device based on a heterostructure of MoS2 and CrPS4. Journal of the Korean Physical Society, 2021, 78, 816-821.	0.3	5
41	Fabrication of Piezo-Resistance Composites Containing Thermoplastic Polyurethane/Hybrid Filler Using 3D Printing. Sensors, 2021, 21, 6813.	2.1	5
42	Solvent Vapor Annealing Effects in Contact Resistances of Zone-cast Benzothienobenzothiophene (C8-BTBT) Transistors. Journal of the Korean Ceramic Society, 2016, 53, 411-416.	1.1	4
43	Investigation of charge injection characteristics in diketopyrrolopyrrole ambipolar semiconducting polymers. Proceedings of SPIE, 2014, , .	0.8	3
44	Effects of interface energy modification in solution-processed In2O3 thin film transistors for sensing applications. Sensors and Actuators A: Physical, 2017, 263, 772-777.	2.0	2
45	Analysis of enhanced hole transport in naphthalene dicarboxyimide (NDI)-based n-type polymer field-effect transistors using solution-processed reduced graphene oxide electrodes. Applied Surface Science, 2019, 481, 52-58.	3.1	2
46	Serendipitous Doping in Nickel Oxide upon Microwave-Induced Low-Temperature Crystallization Enhances Efficiency of Perovskite Solar Cells. Solar Rrl, 0, , 2100992.	3.1	2
47	Improvement of On/Off Ratio in Solution-Processed Graphene-Zinc Oxide Resistive Switching Memory by Blending with Polystyrene. Journal of Nanoscience and Nanotechnology, 2016, 16, 12918-12922.	0.9	1
48	Experimental demonstration of sequence recognition of serial memristors. Electronic Materials Letters, 2017, 13, 86-90.	1.0	1
49	Electrical Properties of MoS2 Field-Effect Transistors in Contact with Layered CrPS4. Journal of the Korean Physical Society, 2020, 76, 731-735.	0.3	1
50	Quasi-2D Perovskites: Controlling Spatial Crystallization Uniformity and Phase Orientation of Quasi-2D Perovskite-Based Light-Emitting Diodes Using Lewis Bases (Adv. Mater. Interfaces 2/2020). Advanced Materials Interfaces, 2020, 7, 2070017.	1.9	1
51	Wearable Electronics: Textile Resistance Switching Memory for Fabric Electronics (Adv. Funct. Mater.) Tj ETQq1 1 0,784314 rgBT /Overl	7.8	14
52	Synthesis and Characterization of Semiconducting Polymers Composed of All Electron-Accepting Monomer Units for Organic Thin Film Transistors. Journal of Nanoscience and Nanotechnology, 2017, 17, 5759-5763.	0.9	0