

Keun Hyung Lee

List of Publications by Citations

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44
papers

2,338
citations

18
h-index

48
g-index

51
ext. papers

2,659
ext. citations

10.3
avg, IF

5.04
L-index

#	Paper	IF	Citations
44	Electrolyte-gated transistors for organic and printed electronics. <i>Advanced Materials</i> , 2013 , 25, 1822-46	24	658
43	"Cut and stick" rubbery ion gels as high capacitance gate dielectrics. <i>Advanced Materials</i> , 2012 , 24, 4457-62	6.2	337
42	Ionic Conductivity, Capacitance, and Viscoelastic Properties of Block Copolymer-Based Ion Gels. <i>Macromolecules</i> , 2011 , 44, 940-949	5.5	163
41	High toughness, high conductivity ion gels by sequential triblock copolymer self-assembly and chemical cross-linking. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9652-5	16.4	157
40	Electrical impedance of spin-coatable ion gel films. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3315-21	3.4	142
39	Printed, sub-2V ZnO electrolyte gated transistors and inverters on plastic. <i>Advanced Materials</i> , 2013 , 25, 3413-8	24	124
38	Performance and stability of aerosol-jet-printed electrolyte-gated transistors based on poly(3-hexylthiophene). <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6580-5	9.5	106
37	Viscoelastic Properties, Ionic Conductivity, and Materials Design Considerations for Poly(styrene-b-ethylene oxide-b-styrene)-Based Ion Gel Electrolytes. <i>Macromolecules</i> , 2011 , 44, 8981-8989	5.5	92
36	Physically Cross-Linked Homopolymer Ion Gels for High Performance Electrolyte-Gated Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8813-8818	9.5	52
35	Transfer printing of thermoreversible ion gels for flexible electronics. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9522-7	9.5	48
34	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. <i>Scientific Reports</i> , 2016 , 6, 29805	4.9	43
33	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5499-508	9.5	37
32	Light-Emitting Devices Based on Electrochemiluminescence Gels. <i>Advanced Functional Materials</i> , 2020 , 30, 1907936	15.6	32
31	Sub-2 V, Transfer-Stamped Organic/Inorganic Complementary Inverters Based on Electrolyte-Gated Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40672-40680	9.5	27
30	Solid-State Dual Function Electrochemical Devices: Energy Storage and Light-Emitting Applications. <i>Advanced Energy Materials</i> , 2016 , 6, 1600651	21.8	24
29	Dielectric properties of barium titanate supramolecular nanocomposites. <i>Nanoscale</i> , 2014 , 6, 3526-31	7.7	23
28	Ultra-Sensitive and Stretchable Ionic Skins for High-Precision Motion Monitoring. <i>Advanced Functional Materials</i> , 2021 , 31, 2010199	15.6	20

27	Highly conductive, binary ionic liquid/solvent mixture ion gels for effective switching of electrolyte-gated transistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10987-10993	7.1	19
26	Ultrahigh-Mobility and Solution-Processed Inorganic P-Channel Thin-Film Transistors Based on a Transition-Metal Halide Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40243-40251	9.5	18
25	Optimizing Electrochemically Active Surfaces of Carbonaceous Electrodes for Ionogel Based Supercapacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2002053	15.6	17
24	Nonvolatile Electric Double-Layer Transistor Memory Devices Embedded with Au Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9563-9570	9.5	17
23	Block Copolymer-Based Supramolecular Ionogels for Accurate On-Skin Motion Monitoring. <i>Advanced Functional Materials</i> , 2021 , 31, 2102386	15.6	17
22	High-Performance P-Type Copper(I) Thiocyanate Thin Film Transistors Processed from Solution at Low Temperature. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900883	4.6	14
21	Area-Controllable Stamping of Semicrystalline Copolymer Ionogels for Solid-State Electrolyte-Gated Transistors and Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42978-42985	9.5	14
20	Optimization of nanocomposite gate insulators for organic thin film transistors. <i>Organic Electronics</i> , 2015 , 17, 144-150	3.5	12
19	Vacancy engineering of a solution processed CuI semiconductor: tuning the electrical properties of inorganic P-channel thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9608-9614	7.1	12
18	Highly conductive and mechanically robust nanocomposite polymer electrolytes for solid-state electrochemical thin-film devices. <i>Organic Electronics</i> , 2019 , 65, 426-433	3.5	12
17	Printable carbon nanotube-based elastic conductors for fully-printed sub-1 V stretchable electrolyte-gated transistors and inverters. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3639-3645	7.1	11
16	Improved Hierarchical Ordering in Supramolecules via Symmetrically Bifunctionalized Organic Semiconductor. <i>Macromolecules</i> , 2016 , 49, 2639-2645	5.5	11
15	Low voltage, high gain electrolyte-gated complementary inverters based on transfer-printed block copolymer ion gels. <i>Organic Electronics</i> , 2019 , 71, 266-271	3.5	10
14	Electrospun polymer electrolyte nanocomposites for solid-state energy storage. <i>Composites Part B: Engineering</i> , 2018 , 152, 275-281	10	10
13	High-Mobility Low-Hysteresis Electrolyte-Gated Transistors with a DPP-Benzotriazole Copolymer Semiconductor. <i>Macromolecular Research</i> , 2020 , 28, 683-687	1.9	7
12	Solution processed vertical p-channel thin film transistors using copper(I) thiocyanate. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5587-5593	7.1	7
11	Light emitting fabrics based on luminophore dye-doped ion gel electrolyte microfibers. <i>Dyes and Pigments</i> , 2018 , 154, 188-193	4.6	7
10	High-conductivity electrolyte gate dielectrics based on poly(styrene-co-methyl methacrylate)/ionic liquid. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6950-6955	7.1	6

9	Thermostable Ion Gels for High-Temperature Operation of Electrolyte-Gated Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15464-15471	9.5	6
8	Electrochemiluminescent Transistors: A New Strategy toward Light-Emitting Switching Devices. <i>Advanced Materials</i> , 2021 , 33, e2005456	24	6
7	Tough and ionically conductive polymer electrolyte composites based on random copolymers with crystallizable side chain architecture. <i>Organic Electronics</i> , 2020 , 84, 105788	3.5	4
6	Solution-Processed Perovskite Gate Insulator for Sub-2 V Electrolyte-Gated Transistors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10552-10558	3.8	4
5	Self-Healable, Stretchable, and Nonvolatile Solid Polymer Electrolytes for Sustainable Energy Storage and Sensing Applications. <i>Energy Storage Materials</i> , 2021 ,	19.4	4
4	Meyer-Rod Coated 2D Single-Crystalline Copper Nanoplate Film with Intensive Pulsed Light for Flexible Electrode. <i>Coatings</i> , 2020 , 10, 88	2.9	1
3	Supercapacitors: Solid-State Dual Function Electrochemical Devices: Energy Storage and Light-Emitting Applications (Adv. Energy Mater. 19/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	1
2	Facile Achievement of Complementary Resistive Switching in Block Copolymer Micelle-Based Resistive Memories.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100686	4.8	
1	Electrochemiluminescent Materials: Electrochemiluminescent Transistors: A New Strategy toward Light-Emitting Switching Devices (Adv. Mater. 5/2021). <i>Advanced Materials</i> , 2021 , 33, 2170037	24	