Keun Hyung Lee

List of Publications by Year in Descending Order

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	Facile Achievement of Complementary Resistive Switching in Block Copolymer Micelle-Based Resistive Memories.. *Macromolecular Rapid Communications*, **2022**, e2100686	4.8	
43	Self-Healable, Stretchable, and Nonvolatile Solid Polymer Electrolytes for Sustainable Energy Storage and Sensing Applications. *Energy Storage Materials*, **2021**,	19.4	4
42	Block Copolymer-Based Supramolecular Ionogels for Accurate On-Skin Motion Monitoring. *Advanced Functional Materials*, **2021**, 31, 2102386	15.6	17
41	Electrochemiluminescent Transistors: A New Strategy toward Light-Emitting Switching Devices. *Advanced Materials*, **2021**, 33, e2005456	24	6
40	Ultra-Sensitive and Stretchable Ionic Skins for High-Precision Motion Monitoring. *Advanced Functional Materials*, **2021**, 31, 2010199	15.6	20
39	Electrochemiluminescent Materials: Electrochemiluminescent Transistors: A New Strategy toward Light-Emitting Switching Devices (Adv. Mater. 5/2021). *Advanced Materials*, **2021**, 33, 2170037	24	
38	Optimizing Electrochemically Active Surfaces of Carbonaceous Electrodes for Ionogel Based Supercapacitors. *Advanced Functional Materials*, **2020**, 30, 2002053	15.6	17
37	High-Mobility Low-Hysteresis Electrolyte-Gated Transistors with a DPP-Benzotriazole Copolymer Semiconductor. *Macromolecular Research*, **2020**, 28, 683-687	1.9	7
36	Vacancy engineering of a solution processed CuI semiconductor: tuning the electrical properties of inorganic P-channel thin-film transistors. *Journal of Materials Chemistry C*, **2020**, 8, 9608-9614	7.1	12
35	Thermostable Ion Gels for High-Temperature Operation of Electrolyte-Gated Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 15464-15471	9.5	6
34	Solution processed vertical p-channel thin film transistors using copper(I) thiocyanate. *Journal of Materials Chemistry C*, **2020**, 8, 5587-5593	7.1	7
33	Tough and ionically conductive polymer electrolyte composites based on random copolymers with crystallizable side chain architecture. *Organic Electronics*, **2020**, 84, 105788	3.5	4
32	Light-Emitting Devices Based on Electrochemiluminescence Gels. *Advanced Functional Materials*, **2020**, 30, 1907936	15.6	32
31	Meyer-Rod Coated 2D Single-Crystalline Copper Nanoplate Film with Intensive Pulsed Light for Flexible Electrode. *Coatings*, **2020**, 10, 88	2.9	1
30	Printable carbon nanotube-based elastic conductors for fully-printed sub-1 V stretchable electrolyte-gated transistors and inverters. *Journal of Materials Chemistry C*, **2020**, 8, 3639-3645	7.1	11
29	Low voltage, high gain electrolyte-gated complementary inverters based on transfer-printed block copolymer ion gels. *Organic Electronics*, **2019**, 71, 266-271	3.5	10
28	High-conductivity electrolyte gate dielectrics based on poly(styrene-co-methyl methacrylate)/ionic liquid. *Journal of Materials Chemistry C*, **2019**, 7, 6950-6955	7.1	6

27	High-Performance P-Type Copper(I) Thiocyanate Thin Film Transistors Processed from Solution at Low Temperature. *Advanced Materials Interfaces*, **2019**, 6, 1900883	4.6	14
26	Ultrahigh-Mobility and Solution-Processed Inorganic P-Channel Thin-Film Transistors Based on a Transition-Metal Halide Semiconductor. *ACS Applied Materials & Interfaces*, **2019**, 11, 40243-40251	9.5	18
25	Highly conductive and mechanically robust nanocomposite polymer electrolytes for solid-state electrochemical thin-film devices. *Organic Electronics*, **2019**, 65, 426-433	3.5	12
24	Light emitting fabrics based on luminophore dye-doped ion gel electrolyte microfibers. *Dyes and Pigments*, **2018**, 154, 188-193	4.6	7
23	Nonvolatile Electric Double-Layer Transistor Memory Devices Embedded with Au Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 9563-9570	9.5	17
22	Solution-Processed Perovskite Gate Insulator for Sub-2 V Electrolyte-Gated Transistors. *Journal of Physical Chemistry C*, **2018**, 122, 10552-10558	3.8	4
21	Electrospun polymer electrolyte nanocomposites for solid-state energy storage. *Composites Part B: Engineering*, **2018**, 152, 275-281	10	10
20	Sub-2 V, Transfer-Stamped Organic/Inorganic Complementary Inverters Based on Electrolyte-Gated Transistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 40672-40680	9.5	27
19	Highly conductive, binary ionic liquid/solvent mixture ion gels for effective switching of electrolyte-gated transistors. *Journal of Materials Chemistry C*, **2018**, 6, 10987-10993	7.1	19
18	Physically Cross-Linked Homopolymer Ion Gels for High Performance Electrolyte-Gated Transistors. *ACS Applied Materials & Interfaces*, **2017**, 9, 8813-8818	9.5	52
17	Area-Controllable Stamping of Semicrystalline Copolymer Ionogels for Solid-State Electrolyte-Gated Transistors and Light-Emitting Devices. *ACS Applied Materials & Interfaces*, **2017**, 9, 42978-42985	9.5	14
16	Solid-State Dual Function Electrochemical Devices: Energy Storage and Light-Emitting Applications. *Advanced Energy Materials*, **2016**, 6, 1600651	21.8	24
15	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. *ACS Applied Materials & Interfaces*, **2016**, 8, 5499-508	9.5	37
14	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. *Scientific Reports*, **2016**, 6, 29805	4.9	43
13	Improved Hierarchical Ordering in Supramolecules via Symmetrically Bifunctionalized Organic Semiconductor. *Macromolecules*, **2016**, 49, 2639-2645	5.5	11
12	Supercapacitors: Solid-State Dual Function Electrochemical Devices: Energy Storage and Light-Emitting Applications (Adv. Energy Mater. 19/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	1
11	Optimization of nanocomposite gate insulators for organic thin film transistors. *Organic Electronics*, **2015**, 17, 144-150	3.5	12
10	Dielectric properties of barium titanate supramolecular nanocomposites. *Nanoscale*, **2014**, 6, 3526-31	7.7	23

9	Transfer printing of thermoreversible ion gels for flexible electronics. *ACS Applied Materials & Interfaces*, **2013**, 5, 9522-7	9.5	48
8	Electrolyte-gated transistors for organic and printed electronics. *Advanced Materials*, **2013**, 25, 1822-46	24	658
7	High toughness, high conductivity ion gels by sequential triblock copolymer self-assembly and chemical cross-linking. *Journal of the American Chemical Society*, **2013**, 135, 9652-5	16.4	157
6	Performance and stability of aerosol-jet-printed electrolyte-gated transistors based on poly(3-hexylthiophene). *ACS Applied Materials & Interfaces*, **2013**, 5, 6580-5	9.5	106
5	Printed, sub-2V ZnO electrolyte gated transistors and inverters on plastic. *Advanced Materials*, **2013**, 25, 3413-8	24	124
4	"Cut and stick" rubbery ion gels as high capacitance gate dielectrics. *Advanced Materials*, **2012**, 24, 4457-62	24	337
3	Ionic Conductivity, Capacitance, and Viscoelastic Properties of Block Copolymer-Based Ion Gels. *Macromolecules*, **2011**, 44, 940-949	5.5	163
2	Electrical impedance of spin-coatable ion gel films. *Journal of Physical Chemistry B*, **2011**, 115, 3315-21	3.4	142
1	Viscoelastic Properties, Ionic Conductivity, and Materials Design Considerations for Poly(styrene-b-ethylene oxide-b-styrene)-Based Ion Gel Electrolytes. *Macromolecules*, **2011**, 44, 8981-8989	5.5	92