Keun Hyung Lee

List of Publications by Year
in descending order

48 papers	2,961 citations	304743 22 h-index	189892 50 g-index
51 all docs	51 docs citations	51 times ranked	3618 citing authors

#	Article	IF	Citations
1	Electrolyteâ€Gated Transistors for Organic and Printed Electronics. Advanced Materials, 2013, 25, 1822-1846.	21.0	797
2	â€œCut and Stickâ€•Rubbery Ion Gels as High Capacitance Gate Dielectrics. Advanced Materials, 2012, 24, 4457-4462.	21.0	383
3	Ionic Conductivity, Capacitance, and Viscoelastic Properties of Block Copolymer-Based Ion Gels. Macromolecules, 2011, 44, 940-949.	4.8	183
4	High Toughness, High Conductivity Ion Gels by Sequential Triblock Copolymer Self-Assembly and Chemical Cross-Linking. Journal of the American Chemical Society, 2013, 135, 9652-9655.	13.7	177
5	Electrical Impedance of Spin-Coatable Ion Gel Films. Journal of Physical Chemistry B, 2011, 115, 3315-3321.	2.6	166
6	Printed, subâ€2V ZnO Electrolyte Gated Transistors and Inverters on Plastic. Advanced Materials, 2013, 25, 3413-3418.	21.0	140
7	Performance and Stability of Aerosol-Jet-Printed Electrolyte-Gated Transistors Based on Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2013, 5, 6580-6585.	8.0	116
8	Viscoelastic Properties, Ionic Conductivity, and Materials Design Considerations for Poly(styrene-<i>b</i>-ethylene oxide-<i>b</i>-styrene)-Based Ion Gel Electrolytes. Macromolecules, 2011, 44, 8981-8989.	4.8	97
9	Physically Cross-Linked Homopolymer Ion Gels for High Performance Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2017, 9, 8813-8818.	8.0	66
10	Lightâ€Emitting Devices Based on Electrochemiluminescence Gels. Advanced Functional Materials, 2020, 30, 1907936.	14.9	62
11	Ultraâ€Sensitive and Stretchable Ionic Skins for Highâ€Precision Motion Monitoring. Advanced Functional Materials, 2021, 31, 2010199.	14.9	60
12	Block Copolymerâ€Based Supramolecular Ionogels for Accurate Onâ€Skin Motion Monitoring. Advanced Functional Materials, 2021, 31, 2102386.	14.9	60
13	Transfer Printing of Thermoreversible Ion Gels for Flexible Electronics. ACS Applied Materials & Interfaces, 2013, 5, 9522-9527.	8.0	56
14	Self-Supporting Ion Gels for Electrochemiluminescent Sticker-Type Optoelectronic Devices. Scientific Reports, 2016, 6, 29805.	3.3	49
15	Photo-Patternable ZnO Thin Films Based on Cross-Linked Zinc Acrylate for Organic/Inorganic Hybrid Complementary Inverters. ACS Applied Materials & Interfaces, 2016, 8, 5499-5508.	8.0	45
16	Sub-2 V, Transfer-Stamped Organic/Inorganic Complementary Inverters Based on Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2018, 10, 40672-40680.	8.0	39
17	Optimizing Electrochemically Active Surfaces of Carbonaceous Electrodes for Ionogel Based Supercapacitors. Advanced Functional Materials, 2020, 30, 2002053.	14.9	35
18	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.	8.0	34

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19	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.	5.5	29
20	Solidâ€State Dual Function Electrochemical Devices: Energy Storage and Lightâ€Emitting Applications. Advanced Energy Materials, 2016, 6, 1600651.	19.5	27
21	Highly conductive, binary ionic liquidâ€"solvent mixture ion gels for effective switching of electrolyte-gated transistors. Journal of Materials Chemistry C, 2018, 6, 10987-10993.	5.5	26
22	Self-healable, stretchable, and nonvolatile solid polymer electrolytes for sustainable energy storage and sensing applications. Energy Storage Materials, 2022, 45, 323-331.	18.0	24
23	Dielectric properties of barium titanate supramolecular nanocomposites. Nanoscale, 2014, 6, 3526.	5.6	23
24	Nonvolatile Electric Double-Layer Transistor Memory Devices Embedded with Au Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 9563-9570.	8.0	22
25	Highly conductive and mechanically robust nanocomposite polymer electrolytes for solid-state electrochemical thin-film devices. Organic Electronics, 2019, 65, 426-433.	2.6	19
26	Intrinsically Stretchable and Printable Lithium-Ion Battery for Free-Form Configuration. ACS Nano, 2022, 16, 2271-2281.	14.6	19
27	Low voltage, high gain electrolyte-gated complementary inverters based on transfer-printed block copolymer ion gels. Organic Electronics, 2019, 71, 266-271.	2.6	18
28	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.	5.5	17
29	Electrochemiluminescent Transistors: A New Strategy toward Lightâ€Emitting Switching Devices. Advanced Materials, 2021, 33, e2005456.	21.0	17
30	Electrospun polymer electrolyte nanocomposites for solid-state energy storage. Composites Part B: Engineering, 2018, 152, 275-281.	12.0	16
31	Highâ€Performance Pâ€Type Copper(I) Thiocyanate Thin Film Transistors Processed from Solution at Low Temperature. Advanced Materials Interfaces, 2019, 6, 1900883.	3.7	16
32	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.	8.0	15
33	Optimization of nanocomposite gate insulators for organic thin film transistors. Organic Electronics, 2015, 17, 144-150.	2.6	13
34	Thermostable Ion Gels for High-Temperature Operation of Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2020, 12, 15464-15471.	8.0	13
35	Improved Hierarchical Ordering in Supramolecules via Symmetrically Bifunctionalized Organic Semiconductor. Macromolecules, 2016, 49, 2639-2645.	4.8	12
36	Solution processed vertical p-channel thin film transistors using copper(i) thiocyanate. Journal of Materials Chemistry C, 2020, 8, 5587-5593.	5.5	12

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37	Light emitting fabrics based on luminophore dye-doped ion gel electrolyte microfibers. Dyes and Pigments, 2018, 154, 188-193.	3.7	9
38	High-Mobility Low-Hysteresis Electrolyte-Gated Transistors with a DPP-Benzotriazole Copolymer Semiconductor. Macromolecular Research, 2020, 28, 683-687.	2.4	9
39	High-conductivity electrolyte gate dielectrics based on poly(styrene-<i>co</i>-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662	5.5	8
40	Water Washable and Flexible Light-Emitting Fibers Based on Electrochemiluminescent Gels. ACS Applied Materials & Interfaces, 2022, 14, 17709-17718.	8.0	6
41	Solution-Processed Perovskite Gate Insulator for Sub-2 V Electrolyte-Gated Transistors. Journal of Physical Chemistry C, 2018, 122, 10552-10558.	3.1	5
42	Tough and ionically conductive polymer electrolyte composites based on random copolymers with crystallizable side chain architecture. Organic Electronics, 2020, 84, 105788.	2.6	5
43	Meyer-Rod Coated 2D Single-Crystalline Copper Nanoplate Film with Intensive Pulsed Light for Flexible Electrode. Coatings, 2020, 10, 88.	2.6	3
44	Amorphous copper iodide: a p-type semiconductor for solution processed p-channel thin-film transistors and inverters. Journal of Materials Chemistry C, 2022, 10, 7815-7821.	5.5	3
45	3D printed solid-state composite electrodes and electrolytes for high-energy-density flexible microsupercapacitors. Journal of Energy Storage, 2022, 53, 105206.	8.1	3
46	Facile Achievement of Complementary Resistive Switching in Block Copolymer Micelleâ€Based Resistive Memories. Macromolecular Rapid Communications, 2022, 43, e2100686.	3.9	2
47	Supercapacitors: Solidâ€State Dual Function Electrochemical Devices: Energy Storage and Lightâ€Emitting Applications (Adv. Energy Mater. 19/2016). Advanced Energy Materials, 2016, 6, .	19.5	1
48	Electrochemiluminescent Materials: Electrochemiluminescent Transistors: A New Strategy toward Lightâ€Emitting Switching Devices (Adv. Mater. 5/2021). Advanced Materials, 2021, 33, 2170037.	21.0	0