Changmin Keum

List of Publications by Year
in descending order

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Version: 2024-02-01

40 papers	1,117 citations	516561 16 h-index	395590 33 g-index
40 all docs	40 docs citations	40 times ranked	1991 citing authors

#	Article	IF	Citations
1	Doped Organic Transistors. Chemical Reviews, 2016, 116, 13714-13751.	23.0	477
2	A substrateless, flexible, and water-resistant organic light-emitting diode. Nature Communications, 2020, 11, 6250.	5.8	91
3	Thermal annealing effect on the crack development and the stability of 6,13-bis(triisopropylsilylethynyl)-pentacene field-effect transistors with a solution-processed polymer insulator. Organic Electronics, 2010, 11, 784-788.	1.4	62
4	Contact Resistance Effects in Highly Doped Organic Electrochemical Transistors. Advanced Materials, 2016, 28, 8766-8770.	11.1	50
5	Reaching saturation in patterned source vertical organic field effect transistors. Journal of Applied Physics, 2017, 121, .	1.1	31
6	Solution-processed low leakage organic field-effect transistors with self-pattern registration based on patterned dielectric barrier. Organic Electronics, 2012, 13, 778-783.	1.4	29
7	Accurate Efficiency Measurements of Organic Lightâ€Emitting Diodes via Angleâ€Resolved Spectroscopy. Advanced Optical Materials, 2021, 9, 2000838.	3.6	25
8	Photostimulation for In Vitro Optogenetics with Highâ€Power Blue Organic Lightâ€Emitting Diodes. Advanced Biology, 2019, 3, e1800290.	3.0	24
9	Organic Lightâ€Emitting Diodes Based on a Columnar Liquidâ€Crystalline Perylene Emitter. Advanced Optical Materials, 2020, 8, 2000414.	3.6	23
10	Effect of morphological and physicochemical properties of dielectric-organic semiconductor interfaces on photoresponse of organic phototransistors. Thin Solid Films, 2016, 619, 297-301.	0.8	22
11	1,3,4-Oxadiazole-based Deep Blue Thermally Activated Delayed Fluorescence Emitters for Organic Light Emitting Diodes. Journal of Physical Chemistry C, 2019, 123, 24772-24785.	1.5	21
12	Improving the Thermal Stability of Topâ€Emitting Organic Lightâ€Emitting Diodes by Modification of the Anode Interface. Advanced Optical Materials, 2021, 9, 2001642.	3.6	20
13	Effects of Interfacial Charge Depletion in Organic Thin-Film Transistors with Polymeric Dielectrics on Electrical Stability. Materials, 2010, 3, 3614-3624.	1.3	18
14	Quasi-surface emission in vertical organic light-emitting transistors with network electrode. Optics Express, 2014, 22, 14750.	1.7	18
15	Bipyridineâ€Containing Host Materials for High Performance Yellow Thermally Activated Delayed Fluorescenceâ€Based Organic Light Emitting Diodes with Very Low Efficiency Rollâ€Off. Advanced Optical Materials, 2020, 8, 1901283.	3.6	18
16	Field-symmetrization to solve luminance deviation between frames in a low-frequency-driven fringe-field switching liquid crystal cell. Optics Express, 2016, 24, 29568.	1.7	17
17	The Role of Metallic Dopants in Improving the Thermal Stability of the Electron Transport Layer in Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2018, 6, 1800496.	3.6	15
18	Minority Currents in n-Doped Organic Transistors. ACS Applied Materials & Interfaces, 2016, 8, 32432-32439.	4.0	14

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19	Optical anisotropy of aligned pentacene molecules on a rubbed polymer corresponding to the electrical anisotropy. Current Applied Physics, 2010, 10, 64-67.	1.1	13
20	Control of the molecular order and cracks of the 6,13-bis(triisopropylsilylethynyl)-pentacene on a polymeric insulator by anisotropic solvent drying. Solid-State Electronics, 2013, 89, 189-193.	0.8	13
21	Patterning organic transistors by dry-etching: The double layer lithography. Organic Electronics, 2017, 45, 124-130.	1.4	13
22	Timeâ€Resolved Studies of Energy Transfer in Thin Films of Green and Red Fluorescent Proteins. Advanced Functional Materials, 2018, 28, 1706300.	7.8	12
23	Development of Very High Luminance pâ€“iâ€“n Junctionâ€Based Blue Fluorescent Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2020, 8, 1901721.	3.6	10
24	Distributed Feedback Lasers Based on Green Fluorescent Protein and Conformal High Refractive Index Oxide Layers. Laser and Photonics Reviews, 2020, 14, 2000101.	4.4	9
25	Topography-guided spreading and drying of 6,13-bis(triisopropylsilylethynyl)-pentacene solution on a polymer insulator for the field-effect mobility enhancement. Applied Physics Letters, 2013, 102, .	1.5	8
26	Biocompatible Patterning of Proteins on Wettability Gradient Surface by Thermo-Transfer Printing. Journal of Nanoscience and Nanotechnology, 2014, 14, 6069-6071.	0.9	8
27	Combinatorial color arrays based on optical micro-resonators in monolithic architecture. Optics Express, 2014, 22, 15320.	1.7	8
28	Flexible multi-level resistive memory with high current ratio by electrical triggering into insulating layer. Organic Electronics, 2017, 51, 357-361.	1.4	8
29	Control of interfacial charges of organic semiconductor by a surface polarized layer for high noise-margin inverters with full-swing capability. Organic Electronics, 2012, 13, 2365-2371.	1.4	7
30	Fast Delayed Emission in New Pyridazine-Based Compounds. Frontiers in Chemistry, 2020, 8, 572862.	1.8	7
31	Principle of topography-directed inkjet printing for functional micro-tracks in flexible substrates. Journal of Applied Physics, 2017, 121, 244902.	1.1	6
32	Voltage-readable nonvolatile memory cell with programmable ferroelectric multistates in organic inverter configuration. Organic Electronics, 2013, 14, 1231-1236.	1.4	5
33	Modeling tunnel currents in organic permeable-base transistors. Synthetic Metals, 2019, 252, 82-90.	2.1	5
34	Charge trapping in doped organic Zener diodes. Organic Electronics, 2016, 39, 77-84.	1.4	4
35	Chevron-type gate configuration of short channel top-contact organic thin-film transistors for large saturated drain current. Journal Physics D: Applied Physics, 2011, 44, 145106.	1.3	3
36	Electrowetting-on-Dielectric Device Controlled by Embedded Undulating Electrode for Liquid Transport. Journal of Nanoscience and Nanotechnology, 2016, 16, 6455-6458.	0.9	2

#	Article	IF	Citations
37	Tailoring and patterning of dielectric interfaces for the development of advanced organic field-effect transistors. Liquid Crystals, 2014, 41, 310-319.	0.9	1
38	Light absorption enhanced structure of thin film silicon solar cell. , 2010, , .		0
39	Vapor Pressure Effect on Electrical Properties of Solution-Processed Organic Field-Effect Transistors. Science of Advanced Materials, 2017, 9, 290-295.	0.1	0
40	New Applications of Organic LEDs in Biophotonics. , 2018, , .		0