

Sooji Nam

List of Publications by Year in descending order

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47
papers

1,866
citations

236925

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254184

43
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49
all docs

49
docs citations

49
times ranked

3176
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-heterojunction nanorod light-responsive LEDs for display applications. <i>Science</i> , 2017, 355, 616-619.	12.6	207
2	Highly Crystalline Soluble Acene Crystal Arrays for Organic Transistors: Mechanism of Crystal Growth During Dip-Coating. <i>Advanced Functional Materials</i> , 2012, 22, 1005-1014.	14.9	160
3	High Efficiency and Optical Anisotropy in Double-Heterojunction Nanorod Light-Emitting Diodes. <i>ACS Nano</i> , 2015, 9, 878-885.	14.6	121
4	Multilayer Transfer Printing for Pixelated, Multicolor Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , 2016, 10, 4920-4925.	14.6	115
5	Reduced Water Vapor Transmission Rate of Graphene Gas Barrier Films for Flexible Organic Field-Effect Transistors. <i>ACS Nano</i> , 2015, 9, 5818-5824.	14.6	93
6	Solution-Processed Transistors Using Colloidal Nanocrystals with Composition-Matched Molecular "Solders" Approaching Single Crystal Mobility. <i>Nano Letters</i> , 2015, 15, 6309-6317.	9.1	88
7	Double-heterojunction nanorods. <i>Nature Communications</i> , 2014, 5, 3642.	12.8	85
8	Effects of direct solvent exposure on the nanoscale morphologies and electrical characteristics of PCBM-based transistors and photovoltaics. <i>Journal of Materials Chemistry</i> , 2012, 22, 5543.	6.7	79
9	Effect of the hydrophobicity and thickness of polymer gate dielectrics on the hysteresis behavior of pentacene-based field-effect transistors. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	69
10	High T_g Cyclic Olefin Copolymer Gate Dielectrics for N,N' -Ditridecyl Perylene Diimide Based Field-Effect Transistors: Improving Performance and Stability with Thermal Treatment. <i>Advanced Functional Materials</i> , 2010, 20, 2611-2618.	14.9	69
11	Hysteresis-free pentacene field-effect transistors and inverters containing poly(4-vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 34	3.3	47
12	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, 5499-5508.	8.0	45
13	Solution-processed indium-free ZnO/SnO ₂ bilayer heterostructures as a low-temperature route to high-performance metal oxide thin-film transistors with excellent stabilities. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11298-11304.	5.5	41
14	Hysteresis-free organic field-effect transistors and inverters using photocrosslinkable poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	3.3	40
15	Optimization of Al ₂ O ₃ /TiO ₂ nanolaminate thin films prepared with different oxide ratios, for use in organic light-emitting diode encapsulation, via plasma-enhanced atomic layer deposition. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1042-1049.	2.8	38
16	High-Performance Triethylsilylethynyl Anthradithiophene Transistors Prepared without Solvent Vapor Annealing: The Effects of Self-Assembly during Dip-Coating. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2146-2154.	8.0	32
17	A composite of a graphene oxide derivative as a novel sensing layer in an organic field-effect transistor. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4539-4544.	5.5	32
18	Cone-jet printing of aligned silver nanowire/poly(ethylene oxide) composite electrodes for organic thin-film transistors. <i>Organic Electronics</i> , 2019, 69, 190-199.	2.6	32

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19	Enhanced device lifetime of double-heterojunction nanorod light-emitting diodes. <i>Nanoscale</i> , 2017, 9, 6103-6110.	5.6	31
20	Solvent-free solution processed passivation layer for improved long-term stability of organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2011, 21, 775-780.	6.7	30
21	Highly-impermeable Al ₂ O ₃ /HfO ₂ moisture barrier films grown by low-temperature plasma-enhanced atomic layer deposition. <i>Organic Electronics</i> , 2017, 50, 296-303.	2.6	29
22	High T _g cyclic olefin copolymer/Al ₂ O ₃ bilayer gate dielectrics for flexible organic complementary circuits with low-voltage and air-stable operation. <i>Journal of Materials Chemistry</i> , 2011, 21, 12542.	6.7	28
23	Graphene Oxide/Polystyrene Bilayer Gate Dielectrics for Low-Voltage Organic Field-Effect Transistors. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2.	2.5	28
24	An inkjet-printed passivation layer based on a photocrosslinkable polymer for long-term stable pentacene field-effect transistors. <i>Organic Electronics</i> , 2009, 10, 67-72.	2.6	27
25	Printable Ultra-Flexible Fluorinated Organic-Inorganic Nanohybrid Sol-Gel Derived Gate Dielectrics for Highly Stable Organic Thin-Film Transistors and Other Practical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009539.	14.9	27
26	Directly drawn ZnO semiconductors and MWCNT/PSS electrodes via electrohydrodynamic jet printing for use in thin-film transistors: The ideal combination for reliable device performances. <i>Organic Electronics</i> , 2016, 39, 272-278.	2.6	25
27	Photopatternable ultrathin gate dielectrics for low-voltage-operating organic circuits. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	24
28	Self-organizing properties of triethylsilylethynyl-anthradithiophene on monolayer graphene electrodes in solution-processed transistors. <i>Nanoscale</i> , 2013, 5, 11094.	5.6	24
29	Vacuum thermally evaporated polymeric zinc acrylate as an organic interlayer of organic/inorganic multilayer passivation for flexible organic thin-film transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 25395.	6.7	22
30	Direct printing of soluble acene crystal stripes by a programmed dip-coating process for organic field-effect transistor applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 799-807.	5.5	21
31	Organic/Inorganic Hybrid Thin-Film Encapsulation Using Inkjet Printing and PEALD for Industrial Large-Area Process Suitability and Flexible OLED Application. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55391-55402.	8.0	19
32	High-Performance Low-Voltage Organic Field-Effect Transistors Prepared on Electro-Polished Aluminum Wires. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6-10.	8.0	17
33	All-organic solution-processed two-terminal transistors fabricated using the photoinduced p-channels. <i>Applied Physics Letters</i> , 2009, 94, 043303.	3.3	16
34	Tuning the Work Function of Printed Polymer Electrodes by Introducing a Fluorinated Polymer To Enhance the Operational Stability in Bottom-Contact Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12637-12646.	8.0	15
35	The role of oxygen in dramatically enhancing the electrical properties of solution-processed Zn-Sn-O thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6521-6526.	5.5	14
36	Reduced water vapor transmission rates of low-temperature-processed and sol-gel-derived titanium oxide thin films on flexible substrates. <i>Organic Electronics</i> , 2016, 36, 133-139.	2.6	12

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37	Electrically stable polymer-only dielectrics for organic field-effect transistors with low gate leakage current. <i>Organic Electronics</i> , 2020, 85, 105828.	2.6	12
38	InZnO/AlSnZnInO Bilayer Oxide Thin-Film Transistors with High Mobility and High Uniformity. <i>IEEE Electron Device Letters</i> , 2016, , 1-1.	3.9	11
39	Enhanced gas barrier properties of graphene-TiO ₂ nanocomposites on plastic substrates assisted by UV photoreduction of graphene oxide. <i>Organic Electronics</i> , 2017, 48, 323-329.	2.6	11
40	Direct Patterned Zinc-Tin-Oxide for Solution-Processed Thin-Film Transistors and Complementary Inverter through Electrohydrodynamic Jet Printing. <i>Nanomaterials</i> , 2020, 10, 1304.	4.1	7
41	Transparent phototransistor with high responsivity, sensitivity, and detectivity from heterojunction metal oxide semiconductors. <i>Applied Physics Letters</i> , 2020, 117, 111103.	3.3	7
42	Submicron Channel Length High-Performance Metal Oxide Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2021, 42, 1327-1330.	3.9	5
43	Spin Self-Assembled Clay Nanocomposite Passivation Layers Made from a Photocrosslinkable Poly(vinyl) Tj ETQq1 1 0.784314 rgBT IO Thin-Film Transistors. <i>Chinese Journal of Chemistry</i> , 2016, 34, 1103-1108.	4.9	4
44	Facile method for the environmentally friendly fabrication of reduced graphene oxide films assisted by a metal substrate and saline solution. <i>RSC Advances</i> , 2013, 3, 14286.	3.6	3
45	Solvent-assisted strongly enhanced light-emitting electrochemiluminescent devices for lighting applications. <i>RSC Advances</i> , 2021, 11, 4682-4687.	3.6	3
46	The Potassium-Assisted P-Type Characteristics of Tin Oxide in Solution-Processed High-Performance Metal Oxide Thin-Film Transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100267.	1.8	1
47	25- μ s: Fault-Tolerant Integrated Gate Driver for Flexible Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 367-370.	0.3	0