

Insung Bae

List of Publications by Year in descending order

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37
papers

1,657
citations

430754

18
h-index

360920

35
g-index

40
all docs

40
docs citations

40
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroelectric polymer blends for optoelectronic applications. , 2022, , 113-151.		1
2	Aligned Proton Transport Highway of Hierarchically Structured Proton-Exchange Membranes Constructed via Capillary Force Lithography. ACS Applied Energy Materials, 2022, 5, 6256-6264.	2.5	5
3	Crosslinked poly(arylene ether ketone) membrane with high anion conductivity and selectivity for non-aqueous redox flow batteries. Journal of Membrane Science, 2021, 620, 118928.	4.1	9
4	In-plane 2-D patterning of microporous layer by inkjet printing for water management of polymer electrolyte fuel cell. Renewable Energy, 2020, 146, 960-967.	4.3	19
5	Controlled Crystalline Structures of Nafion-Polyvinylidene Fluoride Blends for Proton Exchange Membranes. Porime, 2020, 44, 572-578.	0.0	0
6	Multi-level operation of three-dimensionally stacked non-volatile ferroelectric polymer memory with high-performance hole-injection layer. Organic Electronics, 2019, 75, 105394.	1.4	11
7	Engineered Membraneâ€“Electrode Interface for Hydrocarbon-Based Polymer-Electrolyte-Membrane Fuel Cells via Solvent-Vapor-Annealed Deposition. ACS Applied Nano Materials, 2019, 2, 3857-3863.	2.4	17
8	Epitaxially Grown Ferroelectric PVDFâ€“TrFE Film on Shapeâ€“Tailored Semiconducting Rubrene Single Crystal. Small, 2018, 14, e1704024.	5.2	19
9	Nanostructured composite membrane with cross-linked sulfonated poly(arylene ether ketone)/silica for high-performance polymer electrolyte membrane fuel cells under low relative humidity. Journal of Membrane Science, 2018, 549, 567-574.	4.1	20
10	Silica-embedded hydrogel nanofiller for enhancing low humidity proton conduction of a hydrocarbon-based polymer electrolyte membrane. Journal of Membrane Science, 2017, 543, 106-113.	4.1	12
11	Asymmetric silica composite polymer electrolyte membrane for water management of fuel cells. Journal of Membrane Science, 2017, 542, 52-59.	4.1	15
12	Self-assembled block copolymer micelles with silverâ€“carbon nanotube hybrid fillers for high performance thermal conduction. Nanoscale, 2015, 7, 1888-1895.	2.8	16
13	Non-volatile organic memory with sub-millimetre bending radius. Nature Communications, 2014, 5, 3583.	5.8	196
14	Nonâ€“Volatile Ferroelectric Memory with Positionâ€“Addressable Polymer Semiconducting Nanowire. Small, 2014, 10, 1976-1984.	5.2	54
15	Laser-Induced Nondestructive Patterning of a Thin Ferroelectric Polymer Film with Controlled Crystals using Ge₈Sb₂Te₁₁ Alloy Layer for Nonvolatile Memory. ACS Applied Materials & Interfaces, 2014, 6, 15171-15178.	4.0	13
16	Epitaxially grown field-activated electroactive polymers for high performance organic electronics. International Journal of Nanotechnology, 2013, 10, 702.	0.1	3
17	Wafer-Scale Arrays of Nonvolatile Polymer Memories with Microprinted Semiconducting Small Molecule/Polymer Blends. ACS Applied Materials & Interfaces, 2013, 5, 10696-10704.	4.0	33
18	Extremely Bright Full Color Alternating Current Electroluminescence of Solution-Blended Fluorescent Polymers with Self-Assembled Block Copolymer Micelles. ACS Nano, 2013, 7, 10809-10817.	7.3	50

#	ARTICLE	IF	CITATIONS
19	High-Temperature Operating Non-volatile Memory of Printable Single-Wall Carbon Nanotubes Self-Assembled with a Conjugate Block Copolymer. <i>Small</i> , 2013, 9, 831-837.	5.2	24
20	High Performance Multi-Level Non-Volatile Polymer Memory with Solution-Blended Ferroelectric Polymer/High-k Insulators for Low Voltage Operation. <i>Advanced Functional Materials</i> , 2013, 23, 5484-5493.	7.8	79
21	Functionalized Soft Nanoporous Materials through Supramolecular Assembly of End-Functionalized Polymer Blends. <i>Chemistry - A European Journal</i> , 2012, 18, 15662-15668.	1.7	10
22	High throughput modification of chemically reduced graphene oxides by a conjugated block copolymer in non-polar medium. <i>Journal of Materials Chemistry</i> , 2012, 22, 25183.	6.7	24
23	Flexible Non-Volatile Ferroelectric Polymer Memory with Gate-Controlled Multilevel Operation. <i>Advanced Materials</i> , 2012, 24, 5910-5914.	11.1	173
24	Coassembly of Metal and Titanium Dioxide Nanocrystals Directed by Monolayered Block Copolymer Inverse Micelles for Enhanced Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 14695-14701.	1.7	9
25	Transistors: Flexible Non-Volatile Ferroelectric Polymer Memory with Gate-Controlled Multilevel Operation (<i>Adv. Mater.</i> 44/2012). <i>Advanced Materials</i> , 2012, 24, 5904-5904.	11.1	0
26	Thin ferroelectric poly(vinylidene fluoride-chlorotrifluoro ethylene) films for thermal history independent non-volatile polymer memory. <i>Organic Electronics</i> , 2012, 13, 491-497.	1.4	14
27	Fabrication of micropatterned ferroelectric gamma poly(vinylidene fluoride) film for non-volatile polymer memory. <i>Journal of Materials Chemistry</i> , 2011, 21, 3619.	6.7	41
28	Chemically Cross-Linked Thin Poly(vinylidene fluoride-co-trifluoroethylene) Films for Nonvolatile Ferroelectric Polymer Memory. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 582-589.	4.0	43
29	Nonvolatile Polymer Memory with Nanoconfinement of Ferroelectric Crystals. <i>Nano Letters</i> , 2011, 11, 138-144.	4.5	122
30	Compression of Cross-Linked Poly(vinylidene fluoride-co-trifluoro ethylene) Films for Facile Ferroelectric Polarization. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4736-4743.	4.0	14
31	Non-volatile memory characteristics of epitaxially grown PVDF-TrFE thin films and their printed micropattern application. <i>Current Applied Physics</i> , 2011, 11, e30-e34.	1.1	27
32	Tailored Single Crystals of Triisopropylsilylethynyl Pentacene by Selective Contact Evaporation Printing. <i>Advanced Materials</i> , 2011, 23, 3398-3402.	11.1	67
33	Block Copolymer Micelles with Near Infrared Metal Phthalocyanine Dyes for Laser Induced Writing. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1071-1077.	2.0	3
34	Organic ferroelectric field-effect transistor with P(VDF-TrFE)/PMMA blend thin films for non-volatile memory applications. <i>Current Applied Physics</i> , 2010, 10, e54-e57.	1.1	22
35	Control of thin ferroelectric polymer films for non-volatile memory applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2010, 17, 1135-1163.	1.8	113
36	Non-volatile Ferroelectric Poly(vinylidene fluoride-co-trifluoroethylene) Memory Based on a Single-Crystalline Triisopropylsilylethynyl Pentacene Field-Effect Transistor. <i>Advanced Functional Materials</i> , 2009, 19, 1609-1616.	7.8	139

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37	Printable Ferroelectric PVDF/PMMA Blend Films with Ultralow Roughness for Low Voltage Non-volatile Polymer Memory. <i>Advanced Functional Materials</i> , 2009, 19, 2812-2818.	7.8	239