

Jisu Hong

List of Publications by Year in descending order

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papers

654
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567281

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42
docs citations

42
times ranked

876
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance and Reliable Lead-Free Layered Perovskite Transistors. <i>Advanced Materials</i> , 2020, 32, e2002717.	21.0	86
2	Overview of recent progress in electrohydrodynamic jet printing in practical printed electronics: focus on the variety of printable materials for each component. <i>Materials Advances</i> , 2021, 2, 5593-5615.	5.4	42
3	Facile and Microcontrolled Blade Coating of Organic Semiconductor Blends for Uniaxial Crystal Alignment and Reliable Flexible Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13481-13490.	8.0	38
4	Selenium-Substituted Non-Fullerene Acceptors: A Route to Superior Operational Stability for Organic Bulk Heterojunction Solar Cells. <i>ACS Nano</i> , 2021, 15, 7700-7712.	14.6	36
5	Facile Photo-cross-linking System for Polymeric Gate Dielectric Materials toward Solution-Processed Organic Field-Effect Transistors: Role of a Cross-linker in Various Polymer Types. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30600-30615.	8.0	33
6	All-Small-Molecule Solar Cells Incorporating NDI-Based Acceptors: Synthesis and Full Characterization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44667-44677.	8.0	29
7	High-Performance Layered Perovskite Transistors and Phototransistors by Binary Solvent Engineering. <i>Chemistry of Materials</i> , 2021, 33, 1174-1181.	6.7	29
8	Effect of Monovalent Metal Iodide Additives on the Optoelectric Properties of Two-Dimensional Sn-Based Perovskite Films. <i>Chemistry of Materials</i> , 2021, 33, 2498-2505.	6.7	28
9	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
10	Non-lithographic direct patterning of carbon nanomaterial electrodes via electrohydrodynamic-printed wettability patterns by polymer brush for fabrication of organic field-effect transistor. <i>Applied Surface Science</i> , 2020, 515, 145989.	6.1	24
11	Understanding Structure-Property Relationships in All-Small-Molecule Solar Cells Incorporating a Fullerene or Nonfullerene Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36037-36046.	8.0	21
12	A donor-acceptor semiconducting polymer with a random configuration for efficient, green-solvent-processable flexible solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24580-24587.	10.3	20
13	Comparison of semiconductor growth and charge transport on hydrophobic polymer dielectrics of organic field-effect transistors: Cytop vs. polystyrene. <i>Organic Electronics</i> , 2020, 77, 105485.	2.6	19
14	Synthesis and characterization of new TPD-based copolymers and applications in bulk heterojunction solar cells. <i>Macromolecular Research</i> , 2018, 26, 29-34.	2.4	17
15	Highly stable flexible organic field-effect transistors with Parylene-C gate dielectrics on a flexible substrate. <i>Organic Electronics</i> , 2019, 75, 105391.	2.6	17
16	Key Roles of Trace Oxygen Treatment for High-Performance Zn-Doped Cu Channel Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, .	5.1	17
17	End-group tuning of DTBDT-based small molecules for organic photovoltaics. <i>Dyes and Pigments</i> , 2018, 157, 93-100.	3.7	15
18	Two dibenzo[Def, Mno]chrysenes-based polymeric semiconductors: Surprisingly opposite device performances in field-effect transistors and solar cells. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2559-2570.	2.3	14

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19	Direct Printing of Asymmetric Electrodes for Improving Charge Injection/Extraction in Organic Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33999-34010.	8.0	13
20	The Hidden Potential of Polysilsesquioxane for High- κ : Analysis of the Origin of its Dielectric Nature and Practical Low-Voltage-Operating Applications beyond the Unit Device. <i>Advanced Functional Materials</i> , 2022, 32, 2104030.	14.9	13
21	Electrohydrodynamic-Jet-Printed Phthalimide-Derived Conjugated Polymers for Organic Field-Effect Transistors and Logic Gates. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7073-7081.	8.0	12
22	A novel small molecule based on dithienophosphole oxide for bulk heterojunction solar cells without pre- or post-treatments. <i>Dyes and Pigments</i> , 2017, 142, 516-523.	3.7	11
23	Screen Printing of Silver and Carbon Nanotube Composite Inks for Flexible and Reliable Organic Integrated Devices. <i>ACS Applied Nano Materials</i> , 2022, 5, 4801-4811.	5.0	11
24	Morphology Driven by Molecular Structure of Thiazole-Based Polymers for Use in Field-Effect Transistors and Solar Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 649-656.	3.3	9
25	Electrohydrodynamic jet printing of small-molecule semiconductor crystals on chemically patterned surface for high-performance organic field-effect transistors. <i>Materials Chemistry and Physics</i> , 2022, 285, 126165.	4.0	9
26	Schematic Studies on the Structural Properties and Device Physics of All Small Molecule Ternary Photovoltaic Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21423-21432.	8.0	8
27	Two TPD-Based Conjugated Polymers: Synthesis and Photovoltaic Applications as Donor Materials. <i>Macromolecular Research</i> , 2018, 26, 1193-1199.	2.4	8
28	“Dragging mode”-electrohydrodynamic jet printing of polymer-wrapped semiconducting single-walled carbon nanotubes for NO gas-sensing field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15804-15812.	5.5	8
29	Understanding of copolymers containing pyridine and selenophene simultaneously and their polarity conversion in transistors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3567-3577.	5.9	6
30	Thermally Stable Dibenzo[def,mno]chrysene-Based Polymer Solar Cells: Effect of Thermal Annealing on the Morphology and Photovoltaic Performances. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2116-2124.	2.2	5
31	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019, 25, 12316-12324.	3.3	5
32	Solution-Processed Flexible Gas Barrier Films for Organic Field-Effect Transistors. <i>Macromolecular Research</i> , 2020, 28, 782-788.	2.4	5
33	The importance of the polymer molecular weight and the processing solvent in PBDTTT-C:PCBM bulk heterojunction solar cells: Their effects on the nanostructural active texture. <i>Solar Energy</i> , 2016, 140, 27-33.	6.1	4
34	Enhanced chemical and physical properties of PEDOT doped with anionic polyelectrolytes prepared from acrylic derivatives and application to nanogenerators. <i>Nanoscale Advances</i> , 2019, 1, 4384-4392.	4.6	4
35	Molecular Engineering of Printed Semiconducting Blends to Develop Organic Integrated Circuits: Crystallization, Charge Transport, and Device Application Analyses. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23678-23691.	8.0	4
36	Advanced Side-Impermeability Characteristics of Fluorinated Organic-Inorganic Nanohybrid Materials for Thin Film Encapsulation. <i>Macromolecular Research</i> , 2021, 29, 313-320.	2.4	3

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37	Side chain engineering in DTBDT-based small molecules for efficient organic photovoltaics. <i>Nanoscale</i> , 2019, 11, 13845-13852.	5.6	2
38	Mass-Synthesized Solution-Processable Polyimide Gate Dielectrics for Electrically Stable Operating OFETs and Integrated Circuits. <i>Polymers</i> , 2021, 13, 3715.	4.5	1
39	Two BDT-TPP-Based Polymer Semiconductors: It's Characterization and Application for Photovoltaics. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5656-5661.	0.9	0
40	Acene-Modified Small-Molecule Donors for Organic Photovoltaics. <i>Chemistry - A European Journal</i> , 2019, 25, 12233-12233.	3.3	0