Jisu Hong

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/12152083/publications.pdf

Version: 2024-02-01

40	654	567281	610901
papers	citations	15 h-index	24 g-index

42	42	42	876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Hidden Potential of Polysilsesquioxane for Highâ€k: Analysis of the Origin of its Dielectric Nature and Practical Lowâ€Voltageâ€Operating Applications beyond the Unit Device. Advanced Functional Materials, 2022, 32, 2104030.	14.9	13
2	Electrohydrodynamic-Jet-Printed Phthalimide-Derived Conjugated Polymers for Organic Field-Effect Transistors and Logic Gates. ACS Applied Materials & Interfaces, 2022, 14, 7073-7081.	8.0	12
3	Screen Printing of Silver and Carbon Nanotube Composite Inks for Flexible and Reliable Organic Integrated Devices. ACS Applied Nano Materials, 2022, 5, 4801-4811.	5.0	11
4	Electrohydrodynamic jet printing of small-molecule semiconductor crystals on chemically patterned surface for high-performance organic field-effect transistors. Materials Chemistry and Physics, 2022, 285, 126165.	4.0	9
5	Molecular Engineering of Printed Semiconducting Blends to Develop Organic Integrated Circuits: Crystallization, Charge Transport, and Device Application Analyses. ACS Applied Materials & Interfaces, 2022, 14, 23678-23691.	8.0	4
6	Key Roles of Trace Oxygen Treatment for Highâ€Performance Znâ€Doped CuI pâ€Channel Transistors. Advanced Electronic Materials, 2021, 7, .	5.1	17
7	Printable Ultraâ€Flexible Fluorinated Organicâ€“Inorganic Nanohybrid Solâ€“Gel Derived Gate Dielectrics for Highly Stable Organic Thinâ€Film Transistors and Other Practical Applications. Advanced Functional Materials, 2021, 31, 2009539.	14.9	27
8	Overview of recent progress in electrohydrodynamic jet printing in practical printed electronics: focus on the variety of printable materials for each component. Materials Advances, 2021, 2, 5593-5615.	5.4	42
9	Effect of Monovalent Metal Iodide Additives on the Optoelectric Properties of Two-Dimensional Sn-Based Perovskite Films. Chemistry of Materials, 2021, 33, 2498-2505.	6.7	28
10	Selenium-Substituted Non-Fullerene Acceptors: A Route to Superior Operational Stability for Organic Bulk Heterojunction Solar Cells. ACS Nano, 2021, 15, 7700-7712.	14.6	36
11	Advanced Side-Impermeability Characteristics of Fluorinated Organic-Inorganic Nanohybrid Materials for Thin Film Encapsulation. Macromolecular Research, 2021, 29, 313-320.	2.4	3
12	High-Performance Layered Perovskite Transistors and Phototransistors by Binary Solvent Engineering. Chemistry of Materials, 2021, 33, 1174-1181.	6.7	29
13	â€œDragging modeâ€•electrohydrodynamic jet printing of polymer-wrapped semiconducting single-walled carbon nanotubes for NO gas-sensing field-effect transistors. Journal of Materials Chemistry C, 2021, 9, 15804-15812.	5.5	8
14	Mass-Synthesized Solution-Processable Polyimide Gate Dielectrics for Electrically Stable Operating OFETs and Integrated Circuits. Polymers, 2021, 13, 3715.	4.5	1
15	Comparison of semiconductor growth and charge transport on hydrophobic polymer dielectrics of organic field-effect transistors: Cytop vs. polystyrene. Organic Electronics, 2020, 77, 105485.	2.6	19
16	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. ACS Applied Materials & Interfaces, 2020, 12, 30600-30615.	8.0	33
17	Non-lithographic direct patterning of carbon nanomaterial electrodes via electrohydrodynamic-printed wettability patterns by polymer brush for fabrication of organic field-effect transistor. Applied Surface Science, 2020, 515, 145989.	6.1	24
18	Understanding of copolymers containing pyridine and selenophene simultaneously and their polarity conversion in transistors. Materials Chemistry Frontiers, 2020, 4, 3567-3577.	5.9	6

#	Article	IF	Citations
19	Highâ€Performance and Reliable Leadâ€Free Layeredâ€Perovskite Transistors. Advanced Materials, 2020, 32, e2002717.	21.0	86
20	Direct Printing of Asymmetric Electrodes for Improving Charge Injection/Extraction in Organic Electronics. ACS Applied Materials & Interfaces, 2020, 12, 33999-34010.	8.0	13
21	Solution-Processed Flexible Gas Barrier Films for Organic Field-Effect Transistors. Macromolecular Research, 2020, 28, 782-788.	2.4	5
22	Highly stable flexible organic field-effect transistors with Parylene-C gate dielectrics on a flexible substrate. Organic Electronics, 2019, 75, 105391.	2.6	17
23	Side chain engineering in DTBDT-based small molecules for efficient organic photovoltaics. Nanoscale, 2019, 11, 13845-13852.	5.6	2
24	Aceneâ€Modified Smallâ€Molecule Donors for Organic Photovoltaics. Chemistry - A European Journal, 2019, 25, 12233-12233.	3.3	0
25	Aceneâ€Modified Smallâ€Molecule Donors for Organic Photovoltaics. Chemistry - A European Journal, 2019, 25, 12316-12324.	3.3	5
26	Facile and Microcontrolled Blade Coating of Organic Semiconductor Blends for Uniaxial Crystal Alignment and Reliable Flexible Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 13481-13490.	8.0	38
27	Enhanced chemical and physical properties of PEDOT doped with anionic polyelectrolytes prepared from acrylic derivatives and application to nanogenerators. Nanoscale Advances, 2019, 1, 4384-4392.	4.6	4
28	Morphology Driven by Molecular Structure of Thiazoleâ€Based Polymers for Use in Fieldâ€Effect Transistors and Solar Cells. Chemistry - A European Journal, 2019, 25, 649-656.	3.3	9
29	End-group tuning of DTBDT-based small molecules for organic photovoltaics. Dyes and Pigments, 2018, 157, 93-100.	3.7	15
30	Synthesis and characterization of new TPD-based copolymers and applications in bulk heterojunction solar cells. Macromolecular Research, 2018, 26, 29-34.	2.4	17
31	A donorâ€“acceptor semiconducting polymer with a random configuration for efficient, green-solvent-processable flexible solar cells. Journal of Materials Chemistry A, 2018, 6, 24580-24587.	10.3	20
32	Two TPD-Based Conjugated Polymers: Synthesis and Photovoltaic Applications as Donor Materials. Macromolecular Research, 2018, 26, 1193-1199.	2.4	8
33	Understanding Structureâ€“Property Relationships in All-Small-Molecule Solar Cells Incorporating a Fullerene or Nonfullerene Acceptor. ACS Applied Materials & Interfaces, 2018, 10, 36037-36046.	8.0	21
34	A novel small molecule based on dithienophosphole oxide for bulk heterojunction solar cells without pre- or post-treatments. Dyes and Pigments, 2017, 142, 516-523.	3.7	11
35	All-Small-Molecule Solar Cells Incorporating NDI-Based Acceptors: Synthesis and Full Characterization. ACS Applied Materials & Interfaces, 2017, 9, 44667-44677.	8.0	29
36	Two BDT-TPP-Based Polymer Semiconductors: Itâ€™s Characterization and Application for Photovoltaics. Journal of Nanoscience and Nanotechnology, 2017, 17, 5656-5661.	0.9	0

#	Article	IF	Citations
37	Two dibenzo[Def, Mno]chryseneâ€based polymeric semiconductors: Surprisingly opposite device performances in fieldâ€effect transistors and solar cells. Journal of Polymer Science Part A, 2016, 54, 2559-2570.	2.3	14
38	Thermally Stable Dibenzo[def,mno]chryseneâ€Based Polymer Solar Cells: Effect of Thermal Annealing on the Morphology and Photovoltaic Performances. Macromolecular Chemistry and Physics, 2016, 217, 2116-2124.	2.2	5
39	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. Solar Energy, 2016, 140, 27-33.	6.1	4
40	Schematic Studies on the Structural Properties and Device Physics of All Small Molecule Ternary Photovoltaic Cells. ACS Applied Materials & Interfaces, 2015, 7, 21423-21432.	8.0	8