

Jaemin Lee

List of Publications by Year in descending order

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304743

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times ranked

6825
citing authors

#	ARTICLE	IF	CITATIONS
1	A fluorene-terminated hole-transporting material for highly efficient and stable perovskite solar cells. <i>Nature Energy</i> , 2018, 3, 682-689.	39.5	1,856
2	<i>tert</i> -Methoxy Substituents in Spiro-OMeTAD for Efficient Inorganic/Organic Hybrid Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 7837-7840.	13.7	702
3	Efficient Inorganic/Organic Hybrid Perovskite Solar Cells Based on Pyrene Arylamine Derivatives as Hole-Transporting Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 19087-19090.	13.7	512
4	Optimal Interfacial Engineering with Different Length of Alkylammonium Halide for Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1902740.	19.5	209
5	Synthesis, Characterization, and Electroluminescence of New Conjugated Polyfluorene Derivatives Containing Various Dyes as Comonomers. <i>Macromolecules</i> , 2004, 37, 5265-5273.	4.8	132
6	Thin-Film Morphologies and Solution-Processable Field-Effect Transistor Behavior of a Fluorene/Thieno[3,2-b]thiophene-Based Conjugated Copolymer. <i>Macromolecules</i> , 2005, 38, 4531-4535.	4.8	111
7	Synthesis and Characterization of Thermally Stable Blue Light-Emitting Polyfluorenes Containing Siloxane Bridges. <i>Macromolecules</i> , 2003, 36, 6704-6710.	4.8	107
8	Modification of an ITO anode with a hole-transporting SAM for improved OLED device characteristics. <i>Journal of Materials Chemistry</i> , 2002, 12, 3494-3498.	6.7	90
9	Fluorene-based alternating polymers containing electron-withdrawing bithiazole units: Preparation and device applications. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1845-1857.	2.3	88
10	Solution-Processable Field-Effect Transistor Using a Fluorene- and Selenophene-Based Copolymer as an Active Layer. <i>Macromolecules</i> , 2006, 39, 4081-4085.	4.8	88
11	Effective Electron Blocking of CuPCl ₂ -Doped Spiro-OMeTAD for Highly Efficient Inorganic/Organic Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501320.	19.5	84
12	Synthesis of Single-Crystalline Hexagonal Graphene Quantum Dots from Solution Chemistry. <i>Nano Letters</i> , 2019, 19, 5437-5442.	9.1	57
13	Utilization of α -thiol- ω -photo cross-linkable hole-transporting polymers for solution-processed multilayer organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1474.	5.5	55
14	A new family of bis-DCM based dopants for red OLEDs. <i>Journal of Materials Chemistry</i> , 2005, 15, 2470-2475.	6.7	54
15	Relationship between the liquid crystallinity and field-effect-transistor behavior of fluorene/thiophene-based conjugated copolymers. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4709-4721.	2.3	49
16	Synthesis and Characterization of a Novel Naphthodithiophene-Based Copolymer for Use in Polymer Solar Cells. <i>Macromolecules</i> , 2012, 45, 6938-6945.	4.8	48
17	New TIPS-substituted benzo[1,2-b:4,5-b' ²]dithiophene-based copolymers for application in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22224.	6.7	42
18	Fluorene copolymers containing bithiophene/2,5- or 2,6-pyridine units: A study of their optical, electrochemical, and electroluminescence properties. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4611-4620.	2.3	36

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19	Dark current reduction strategies using edge-on aligned donor polymers for high detectivity and responsivity organic photodetectors. <i>Polymer Chemistry</i> , 2017, 8, 3612-3621.	3.9	35
20	Novel Cyclohexylsilyl- or Phenylsilyl-Substituted Poly(p-phenylene vinylene)s via the Halogen Precursor Route and Gilch Polymerization. <i>Macromolecules</i> , 2002, 35, 3495-3505.	4.8	30
21	Two different reaction mechanisms of cinnamate side groups attached to the various polymer backbones. <i>Polymer</i> , 2006, 47, 2314-2321.	3.8	27
22	Alternating fluorene copolymers containing isothianaphthene derivatives: A study of their aggregation properties and small band gap. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3573-3590.	2.3	25
23	Solution-Processible Blue-Light-Emitting Polymers Based on Alkoxy-Substituted Poly(spirobifluorene). <i>ETRI Journal</i> , 2005, 27, 181-187.	2.0	21
24	Curing temperature reduction and performance improvement of solution-processable hole-transporting materials for phosphorescent OLEDs by manipulation of cross-linking functionalities and core structures. <i>RSC Advances</i> , 2016, 6, 33212-33220.	3.6	21
25	Diphenylaminocarbazoles by 1,8-functionalization of carbazole: Materials and application to phosphorescent organic light-emitting diodes. <i>Dyes and Pigments</i> , 2016, 124, 35-44.	3.7	21
26	Synthesis and characterization of a wide bandgap polymer based on a weak donor-weak acceptor structure for dual applications in organic solar cells and organic photodetectors. <i>Organic Electronics</i> , 2017, 46, 173-182.	2.6	18
27	Novel Photo-Alignment Polymer Layer Capable of Charge Transport. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 2245-2251.	2.2	15
28	Emission color tuning of new fluorene-based alternating copolymers containing low band gap dyes. <i>Synthetic Metals</i> , 2005, 155, 73-79.	3.9	14
29	Air stability of PTCDA-based n-FETs on polymer interfacial layers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 469-472.	2.4	14
30	Enhanced performance of blue polymer light-emitting diodes by incorporation of Ag nanoparticles through the ligand-exchange process. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10445-10452.	5.5	14
31	4-Diphenylaminocarbazole: Switching Substituent Position for Voltage Reduction and Efficiency Enhancement of OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8893-8900.	8.0	14
32	Size-dependent fluorescence of conjugated polymer dots and correlation with the fluorescence in solution and in the solid phase of the polymer. <i>Nanoscale</i> , 2020, 12, 2492-2497.	5.6	13
33	The influence of electron-deficient comonomer on chain alignment and OTFT characteristics of polythiophenes. <i>Synthetic Metals</i> , 2010, 160, 2273-2280.	3.9	12
34	Synthesis and electronic properties of N-heterocyclic carbene-containing conducting polymers with coinage metals. <i>RSC Advances</i> , 2015, 5, 60892-60897.	3.6	12
35	Synthesis of Polythiophenes with Electron-Donating Side-Chain and their Application to Organic Thin-Film Transistors. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 504, 52-58.	0.9	8
36	Synthesis and characterization of quinoxaline-based polymers for bulk-heterojunction polymer solar cells. <i>Thin Solid Films</i> , 2013, 537, 231-238.	1.8	8

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37	3,3- α^2 -Bicarbazole-Based Host Molecules for Solution-Processed Phosphorescent OLEDs. <i>Molecules</i> , 2018, 23, 847.	3.8	8
38	Improved performance of solution-processable OLEDs by silyl substitution to phosphorescent iridium complexes. <i>Synthetic Metals</i> , 2012, 162, 1961-1967.	3.9	5
39	The behaviour of solution-processed green phosphorescent organic light emitting diodes with undesirable host composition. <i>Organic Electronics</i> , 2018, 54, 222-230.	2.6	5
40	Effect of photoreactivity of polyimide on the molecular orientation of liquid crystals on photoreactive polymer/polyimide blends. <i>Liquid Crystals</i> , 2004, 31, 1601-1611.	2.2	4
41	Blue-green phosphorescent imidazole-based iridium(III) complex with a broad full width at half maximum for solution-processed organic light-emitting diodes. <i>Synthetic Metals</i> , 2015, 203, 180-186.	3.9	4
42	CHEMICAL MODIFICATION OF GATE DIELECTRIC SURFACES IN ORGANIC THIN FILM TRANSISTOR (OTFT) THROUGH MOLECULAR SELF-ASSEMBLY. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 405, 179-186.	0.9	3
43	An Amorphous Polythiophene as a Binder Material for Organic Thin-Film Transistor Channel Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 179-186.	0.9	3
44	Silyl Substituted Methanofullerenes as Electron Acceptors in Organic Photovoltaic Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 266-275.	0.9	3
45	Synthesis and Characterization of New Dithienosilole-Based Copolymers for Polymer Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4279-4284.	0.9	3
46	Synthesis and Characterization of Benzodithiophene-Based Copolymers for Polymer Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 598, 104-110.	0.9	3
47	Investigation of cross-linking characteristics of novel hole-transporting materials for solution-processed phosphorescent OLEDs. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
48	Solution Processed Organic Photovoltaic Cells Using D-A-D-A-D Type Small Molecular Donor Materials with Benzodithiophene and Diketopyrrolopyrrole Units. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2787-2791.	0.9	3
49	Investigation of nozzle printing parameters for OLED emitting layers. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 660, 17-23.	0.9	3
50	Performance of Solution Processed Organic Photovoltaic Cells Using A-D-A Type Small Molecular Donors. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 598, 135-143.	0.9	2
51	Comparison of Optical and Electrical Properties of Different Hole-Transporting Materials for Solution-Processable Organic Light-Emitting Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4578-4582.	0.9	2
52	A Study on the Photopolymerization of Acrylic Monomers Having Fluorene Moiety for the Application of Holographic Data Storage System. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6912-7.	0.9	1
53	Ethyleneoxy Substituted Methanofullerenes for Acceptor Materials in Organic Photovoltaic Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 7034-8.	0.9	1
54	Preparation and Characterization of High Molecular Weight Low Bandgap Polymers Based on Poly(2,7-carbazole)s for Organic Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 4256-4260.	0.9	1

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55	Synthesis and light-emitting properties of a fluorene containing hyperbranched conjugated poly(phenylene vinylene). <i>Molecular Crystals and Liquid Crystals</i> , 2016, 636, 73-79.	0.9	1
56	Red Phosphorescent Naphthalene-Based Iridium(III) Complex for Solution-Processed Single-Emissive-Layer White Organic Light-Emitting Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8580-8584.	0.9	1
57	Syntheses of D-A-A Type Small Molecular Donor Materials Having Various Electron Accepting Moiety for Organic Photovoltaic Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2916-2921.	0.9	1
58	Synthesis and Light Emitting Properties of Dithieno[3,2-b:2',3'-d]Thiophene (DTT) Containing Conjugated Polymers for Electroluminescence Devices and Polymer Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6983-6986.	0.9	0