List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	One-Pot Synthesis of Fully Conjugated Amphiphilic Block Copolymers Using Asymmetrically Functionalized Push–Pull Monomers. Macromolecules, 2022, 55, 2872-2881.	4.8	1
2	Power losses in conventional and inverted non-polymeric donor:fullerene bulk heterojunction solar cells - The role of vertical phase separation in BQR:PC71BM blends. Organic Electronics, 2022, 108, 106594.	2.6	0
3	Effect of Side-Chain Modification on the Active Layer Morphology and Photovoltaic Performance of Liquid Crystalline Molecular Materials. ACS Applied Materials & Interfaces, 2021, 13, 1086-1093.	8.0	13
4	Pyridine End-Capped Polymer to Stabilize Organic Nanoparticle Dispersions for Solar Cell Fabrication through Reversible Pyridinium Salt Formation. ACS Applied Materials & Interfaces, 2021, 13, 36044-36052.	8.0	7
5	Reduced Recombination and Capacitor-like Charge Buildup in an Organic Heterojunction. Journal of the American Chemical Society, 2020, 142, 2562-2571.	13.7	27
6	A structural study of p-type A–D–A oligothiophenes: effects of regioregular alkyl sidechains on annealing processes and photovoltaic performances. Journal of Materials Chemistry C, 2020, 8, 567-580.	5.5	4
7	Experimental Evidence Relating Charge-Transfer-State Kinetics and Strongly Reduced Bimolecular Recombination in Organic Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 10519-10525.	4.6	6
8	High-Performance Large-Area Luminescence Solar Concentrator Incorporating a Donor–Emitter Fluorophore System. ACS Energy Letters, 2019, 4, 1839-1844.	17.4	42
9	Flexible ITOâ€Free Organic Photovoltaics on Ultraâ€Thin Flexible Glass Substrates with High Efficiency and Improved Stability. Solar Rrl, 2019, 3, 1800286.	5.8	5
10	Naphthalimide end-capped diphenylacetylene: a versatile organic semiconductor for blue light emitting diodes and a donor or an acceptor for solar cells. New Journal of Chemistry, 2019, 43, 9243-9254.	2.8	15
11	Grapheneâ€Based Transparent Conducting Electrodes for High Efficiency Flexible Organic Photovoltaics: Elucidating the Source of the Power Losses. Solar Rrl, 2019, 3, 1900042.	5.8	13
12	Solubilizing core modifications on high-performing benzodithiophene-based molecular semiconductors and their influences on film nanostructure and photovoltaic performance. Journal of Materials Chemistry A, 2019, 7, 6312-6326.	10.3	16
13	A Novel Epigenetic Drug-Eluting Balloon Angioplasty Device: Evaluation in a Large Animal Model of Neointimal Hyperplasia. Cardiovascular Drugs and Therapy, 2019, 33, 687-692.	2.6	3
14	Phthalimide and naphthalimide: Effect of end-capping groups on molecular properties and photovoltaic performance of 9-fluorenone based acceptors for organic solar cells. Organic Electronics, 2018, 62, 12-20.	2.6	10
15	Beyond Fullerenes: Indacenodithiophene-Based Organic Charge-Transport Layer toward Upscaling of Low-Cost Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 22143-22155.	8.0	27
16	A Green Route to Conjugated Polyelectrolyte Interlayers for Highâ€Performance Solar Cells. Angewandte Chemie, 2017, 129, 8551-8554.	2.0	10
17	A Green Route to Conjugated Polyelectrolyte Interlayers for Highâ€Performance Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 8431-8434.	13.8	37
18	Printing-friendly sequential deposition via intra-additive approach for roll-to-roll process of perovskite solar cells. Nano Energy, 2017, 41, 443-451.	16.0	91

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19	Morphological and Device Evaluation of an Amphiphilic Block Copolymer for Organic Photovoltaic Applications. Macromolecules, 2017, 50, 4942-4951.	4.8	22
20	High performance molecular donors for organic solar cells, materials design and device optimization. , 2017, , .		0
21	Separation and identification of indene–C ₇₀ bisadduct isomers. Beilstein Journal of Organic Chemistry, 2016, 12, 903-911.	2.2	6
22	High performance p-type molecular electron donors for OPV applications via alkylthiophene catenation chromophore extension. Beilstein Journal of Organic Chemistry, 2016, 12, 2298-2314.	2.2	25
23	Development of a High-Performance Donor–Acceptor Conjugated Polymer: Synergy in Materials and Device Optimization. Chemistry of Materials, 2016, 28, 3481-3487.	6.7	35
24	Reduced Recombination in High Efficiency Molecular Nematic Liquid Crystalline: Fullerene Solar Cells. Advanced Energy Materials, 2016, 6, 1600939.	19.5	68
25	Efficient, square-centimetre inverted organic solar cell using a metal grid coated transparent electrode (Conference Presentation). , 2016, , .		0
26	Controlled Synthesis of Wellâ€Defined Semiconducting Brush Polymers. Macromolecular Chemistry and Physics, 2016, 217, 403-413.	2.2	9
27	Fullerene peapod nanoparticles as an organic semiconductor–electrode interface layer. Chemical Communications, 2016, 52, 3356-3359.	4.1	17
28	Reverse gravure coating for roll-to-roll production of organic photovoltaics. Solar Energy Materials and Solar Cells, 2016, 149, 154-161.	6.2	46
29	Plasma deposition of organic polymer films for solar cell applications. Organic Electronics, 2016, 32, 78-82.	2.6	13
30	One-pot selective synthesis of a fullerene bisadduct for organic solar cell applications. Chemical Communications, 2015, 51, 9837-9840.	4.1	20
31	Toward Large Scale Rollâ€ŧoâ€Roll Production of Fully Printed Perovskite Solar Cells. Advanced Materials, 2015, 27, 1241-1247.	21.0	785
32	Effect of molecular weight on the properties and organic solar cell device performance of a donor–acceptor conjugated polymer. Polymer Chemistry, 2015, 6, 2312-2318.	3.9	70
33	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. Nature Communications, 2015, 6, 6013.	12.8	541
34	Organic Solar Cells Using a Highâ€Molecularâ€Weight Benzodithiophene–Benzothiadiazole Copolymer with an Efficiency of 9.4%. Advanced Materials, 2015, 27, 702-705.	21.0	188
35	Solution Processed Polymer Near-Infrared Photodiode With Electron and Hole Blockers. IEEE Transactions on Electron Devices, 2014, 61, 3852-3857.	3.0	11
36	Polymer Spraying for Aerosol Jet Etching of Dielectrics for 156-mm Silicon Wafers. Materials Research Society Symposia Proceedings, 2014, 1630, 1.	0.1	1

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37	Understanding the chemical origin of improved thin-film device performance from photodoped ZnO nanoparticles. Solar Energy Materials and Solar Cells, 2014, 124, 211-216.	6.2	20
38	Thiazolyl substituted benzodithiophene copolymers: synthesis, properties and photovoltaic applications. Journal of Materials Chemistry C, 2014, 2, 1306-1313.	5.5	25
39	Highly ordered anodized Nb2O5 nanochannels for dye-sensitized solar cells. Electrochemistry Communications, 2014, 40, 20-23.	4.7	61
40	Benzotriazole-based donor–acceptor conjugated polymers with a broad absorption in the visible range. Polymer Chemistry, 2014, 5, 1258-1263.	3.9	26
41	Synthesis and photovoltaic properties of thieno[3,2-b]thiophenyl substituted benzo[1,2-b:4,5-b′]dithiophene copolymers. Polymer Chemistry, 2014, 5, 6710-6717.	3.9	10
42	Single Isomer of Indene-C ₇₀ Bisadduct—Isolation and Performance in Bulk Heterojunction Solar Cells. Chemistry of Materials, 2014, 26, 1686-1689.	6.7	55
43	Hydrogen bonding in bulk heterojunction solar cells: A case study. Scientific Reports, 2014, 4, 5701.	3.3	25
44	Transparent metal electrodes from ordered nanosphere arrays. Journal of Applied Physics, 2013, 114, .	2.5	38
45	Organic photovoltaic modules fabricated by an industrial gravure printing proofer. Solar Energy Materials and Solar Cells, 2013, 109, 47-55.	6.2	103
46	Enhanced photovoltaic efficiency via light-triggered self-assembly. Chemical Communications, 2013, 49, 6552.	4.1	42
47	Bulk Heterojunction Nanomorphology of Fluorenyl Hexa- <i>peri</i> -hexabenzocoronene–Fullerene Blend Films. ACS Applied Materials & Interfaces, 2013, 5, 11554-11562.	8.0	12
48	Electron deficient conjugated polymers based on benzotriazole. Polymer Chemistry, 2013, 4, 1077-1083.	3.9	36
49	Interlayers for Efficient Electron Injection in Polymer LEDs. Journal of Display Technology, 2013, 9, 469-475.	1.2	3
50	Loss Mechanisms in Thickâ€Film Lowâ€Bandgap Polymer Solar Cells. Advanced Energy Materials, 2013, 3, 909-916.	19.5	52
51	Enhancement of efficiency in organic photovoltaic devices containing self-complementary hydrogen-bonding domains. Beilstein Journal of Organic Chemistry, 2013, 9, 1102-1110.	2.2	20
52	Controlled synthesis of poly(3-hexylthiophene) in continuous flow. Beilstein Journal of Organic Chemistry, 2013, 9, 1492-1500.	2.2	34
53	High-performance polymer solar cells with a conjugated zwitterion by solution processing or thermal deposition as the electron-collection interlayer. Journal of Materials Chemistry, 2012, 22, 24155.	6.7	76
54	Aesthetically Pleasing Conjugated Polymer:Fullerene Blends for Blue-Green Solar Cells Via Roll-to-Roll Processing. ACS Applied Materials & Interfaces, 2012, 4, 1847-1853.	8.0	50

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55	Liquid crystalline hexa-peri-hexabenzocoronene-diketopyrrolopyrrole organic dyes for photovoltaic applications. Journal of Materials Chemistry, 2012, 22, 21131.	6.7	55
56	High-efficiency inverted dithienogermole–thienopyrrolodione-based polymer solar cells. Nature Photonics, 2012, 6, 115-120.	31.4	903
57	An isoindigo and dithieno[3,2-b:2′,3′-d]silole copolymer for polymer solar cells. Polymer Chemistry, 2012, 3, 89-92.	3.9	84
58	High-Efficiency Inverted Polymer Solar Cells with Double Interlayer. ACS Applied Materials & Interfaces, 2012, 4, 866-870.	8.0	63
59	Inverted Polymer Solar Cells with Reduced Interface Recombination. Advanced Energy Materials, 2012, 2, 1333-1337.	19.5	210
60	Synthetic Principles Directing Charge Transport in Low-Band-Gap Dithienosilole–Benzothiadiazole Copolymers. Journal of the American Chemical Society, 2012, 134, 8944-8957.	13.7	124
61	Effect of vertical morphology on the performance of silole-containing low-bandgap inverted polymer solar cells. Solar Energy Materials and Solar Cells, 2012, 97, 97-101.	6.2	23
62	n-Type Conjugated Polyisoindigos. Macromolecules, 2011, 44, 6303-6310.	4.8	156
63	Dithienogermole As a Fused Electron Donor in Bulk Heterojunction Solar Cells. Journal of the American Chemical Society, 2011, 133, 10062-10065.	13.7	693
64	Organic and Inorganic Blocking Layers for Solutionâ€Processed Colloidal PbSe Nanocrystal Infrared Photodetectors. Advanced Functional Materials, 2011, 21, 167-171.	14.9	88
65	Photoâ€Carrier Recombination in Polymer Solar Cells Based on P3HT and Siloleâ€Based Copolymer. Advanced Energy Materials, 2011, 1, 963-969.	19.5	52
66	Understanding the performance and loss-mechanisms in donor–acceptor polymer based solar cells: Photocurrent generation, charge separation and carrier transport. Solar Energy Materials and Solar Cells, 2011, 95, 2502-2510.	6.2	16
67	Color Tunable π-Conjugated Polymers for Solar-Cell Applications: Engineering of Bandgap, Interface, and Charge Transport Properties. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1792-1800.	2.9	5
68	Combined effects of MoO3 interlayer and PC70BM on polymer photovoltaic device performance. Organic Electronics, 2010, 11, 955-958.	2.6	25
69	Effect of TiO ₂ Nanoparticles on Properties of Silica Refractory. Journal of the American Ceramic Society, 2010, 93, 2236-2243.	3.8	38
70	Energy level evolution of molybdenum trioxide interlayer between indium tin oxide and organic semiconductor. Applied Physics Letters, 2010, 96, 073304.	3.3	114
71	MoO 3 /poly(9,9-dioctylfluorene-co-N-[4-(3-methylpropyl)]-diphenylamine) double-interlayer effect on polymer solar cells. Applied Physics Letters, 2010, 96,	3.3	63
72	Nanolithography of Organic Films Using Scanning Probe Microscopy. , 2010, , 223-254.		0

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73	Green Dioxythiophene-Benzothiadiazole Donorâ^Acceptor Copolymers for Photovoltaic Device Applications. Chemistry of Materials, 2010, 22, 2093-2106.	6.7	73
74	Energy level evolution of air and oxygen exposed molybdenum trioxide films. Applied Physics Letters, 2010, 96, .	3.3	189
75	The effect of molybdenum oxide interlayer on organic photovoltaic cells. Applied Physics Letters, 2009, 95, .	3.3	190
76	Efficient Green Solar Cells via a Chemically Polymerizable Donorâ^'Acceptor Heterocyclic Pentamer. ACS Applied Materials & Interfaces, 2009, 1, 1154-1158.	8.0	23
77	The effect of molybdenum oxide interlayer on organic photovoltaic cells. , 2009, , .		1
78	The effect of molybdenum trioxide inter-layer between indium tin oxide (ITO) and organic semiconductor on the energy level alignment. Materials Research Society Symposia Proceedings, 2009, 1212, 1.	0.1	2
79	Conformational degree and molecular orientation in rubrene film by in situ x-ray absorption spectroscopy. Journal of Applied Physics, 2007, 102, 063504.	2.5	14
80	Fabrication of Nanostructure on a Polymer Film Using Atomic Force Microscope. Journal of Nanoscience and Nanotechnology, 2007, 7, 2172-2175.	0.9	3
81	Synthesis and Patterning of Luminescent CaCO3 -Poly(p -phenylene) Hybrid Materials and Thin Films. Advanced Functional Materials, 2007, 17, 1698-1704.	14.9	19
82	Electrochemically Nanopatterned Conducting Coronas of a Conjugated Polymer Precursor:  SPM Parameters and Polymer Composition. Langmuir, 2006, 22, 3807-3811.	3.5	28
83	Direct Electrochemical Nanopatterning of Polycarbazole Monomer and Precursor Polymer Films: Ambient Formation of Thermally Stable Conducting Nanopatterns. Langmuir, 2006, 22, 780-786.	3.5	50
84	Morphosynthesis of Mixed Metal Carbonates Using Micellar Aggregation. Crystal Growth and Design, 2006, 6, 1537-1541.	3.0	9
85	Easy Writing of Nanopatterns on a Polymer Film Using Electrostatic Nanolithography. Small, 2006, 2, 481-484.	10.0	18
86	Synthesis and characterization of ferrite nanocomposite spheres from hydroxylated polymers. Journal of Magnetism and Magnetic Materials, 2006, 296, 104-113.	2.3	45
87	Sol–gel-coated oligomers as novel stationary phases for solid-phase microextraction. Journal of Chromatography A, 2005, 1087, 252-258.	3.7	45
88	Nanolithographic Electropolymerization of a Precursor Polymer Film to Form Conducting Nanopatterns. Advanced Materials, 2005, 17, 1282-1285.	21.0	44
89	Design of Novel Nanocomposites through Interfacial Engineering. Journal of Metastable and Nanocrystalline Materials, 2005, 23, 327-330.	0.1	0
90	Morphology and Polymorph Selectivity Control in Calcium Carbonate Mineralization. Materials Research Society Symposia Proceedings, 2004, 847, 508.	0.1	0

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91	Dielectric properties of rubber ferrite composites containing mixed ferrites. Journal Physics D: Applied Physics, 1999, 32, 1801-1810.	2.8	99
92	On the magnetic properties of ultra-fine zinc ferrites. Journal of Magnetism and Magnetic Materials, 1998, 189, 83-88.	2.3	108