Dirk Jm Vanderzande

List of Publications by Year
in descending order

354	12,166	28190	40881
papers	citations	55 h-index	93 g-index

361	361	361	11073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Temperature and Illumination on the Electrical Characteristics of Polymerâ€“Fullerene Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2004, 14, 38-44.	7.8	519
2	The Relation Between Openâ€Circuit Voltage and the Onset of Photocurrent Generation by Chargeâ€Transfer Absorption in Polymerâ€‰:â€‰Fullerene Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2008, 18, 2064-2070.	7.8	503
3	Phase Diagram of P3HT/PCBM Blends and Its Implication for the Stability of Morphology. Journal of Physical Chemistry B, 2009, 113, 1587-1591.	1.2	333
4	Effect of temperature on the morphological and photovoltaic stability of bulk heterojunction polymer:fullerene solar cells. Solar Energy Materials and Solar Cells, 2008, 92, 753-760.	3.0	261
5	Formation of a Ground-State Charge-Transfer Complex in Polyfluorene//[6,6]-Phenyl-C61 Butyric Acid Methyl Ester (PCBM) Blend Films and Its Role in the Function of Polymer/PCBM Solar Cells. Advanced Functional Materials, 2007, 17, 451-457.	7.8	248
6	Low Band Gap Donorâ”Acceptor Conjugated Polymers toward Organic Solar Cells Applications. Macromolecules, 2007, 40, 65-72.	2.2	217
7	Disclosure of the nanostructure of MDMO-PPV:PCBM bulk hetero-junction organic solar cells by a combination of SPM and TEM. Synthetic Metals, 2003, 138, 243-247.	2.1	199
8	Charge transport and recombination in bulk heterojunction solar cells studied by the photoinduced charge extraction in linearly increasing voltage technique. Applied Physics Letters, 2005, 86, 112104.	1.5	184
9	Life cycle analyses of organic photovoltaics: a review. Energy and Environmental Science, 2013, 6, 3136.	15.6	180
10	Strategy for Enhancing the Dielectric Constant of Organic Semiconductors Without Sacrificing Charge Carrier Mobility and Solubility. Advanced Functional Materials, 2015, 25, 150-157.	7.8	178
11	Porphyrinâ€Based Bulk Heterojunction Organic Photovoltaics: The Rise of the Colors of Life. Advanced Energy Materials, 2015, 5, 1500218.	10.2	167
12	Hybrid solar cells based on dye-sensitized nanoporous TiO2 electrodes and conjugated polymers as hole transport materials. Synthetic Metals, 2001, 125, 279-287.	2.1	166
13	Low-band gap polymers for photovoltaic applications. Thin Solid Films, 2004, 451-452, 7-11.	0.8	165
14	Observation of the subgap optical absorption in polymer-fullerene blend solar cells. Applied Physics Letters, 2006, 88, 052113.	1.5	158
15	Influence of thermal ageing on the stability of polymer bulk heterojunction solar cells. Solar Energy Materials and Solar Cells, 2007, 91, 385-389.	3.0	156
16	Absorption phenomena in organic thin films for solar cell applications investigated by photothermal deflection spectroscopy. Journal of Materials Science, 2005, 40, 1413-1418.	1.7	145
17	A New Synthetic Route to a Soluble High Molecular Weight Precursor for Poly(p-phenylenevinylene) derivatives. Macromolecules, 1995, 28, 1330-1331.	2.2	140
18	Investigation of the degradation mechanisms of a variety of organic photovoltaic devices by combination of imaging techniquesâ€”the ISOS-3 inter-laboratory collaboration. Energy and Environmental Science, 2012, 5, 6521.	15.6	134

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19	Atmospheric correction of Landsat-8/OLI and Sentinel-2/MSI data using iCOR algorithm: validation for coastal and inland waters. European Journal of Remote Sensing, 2018, 51, 525-542.	1.7	133
20	Efficient formation, isolation and characterization of poly(3-alkylthiophene) nanofibres: probing order as a function of side-chain length. Journal of Materials Chemistry, 2009, 19, 5424.	6.7	128
21	High dielectric constant conjugated materials for organic photovoltaics. Journal of Materials Chemistry A, 2017, 5, 24037-24050.	5.2	115
22	Effect of Alkyl Sideâ€Chain Length on Photovoltaic Properties of Poly(3â€alkylthiophene)/PCBM Bulk Heterojunctions. Advanced Functional Materials, 2009, 19, 3300-3306.	7.8	114
23	The ISOS-3 inter-laboratory collaboration focused on the stability of a variety of organic photovoltaic devices. RSC Advances, 2012, 2, 882-893.	1.7	108
24	Influence of Fullerene Ordering on the Energy of the Charge-Transfer State and Open-Circuit Voltage in Polymer:Fullerene Solar Cells. Journal of Physical Chemistry C, 2011, 115, 10873-10880.	1.5	95
25	A MIP-based impedimetric sensor for the detection of low-MW molecules. Biosensors and Bioelectronics, 2008, 23, 913-918.	5.3	93
26	Varying polymer crystallinity in nanofiber poly(3-alkylthiophene): PCBM solar cells: Influence on charge-transfer state energy and open-circuit voltage. Applied Physics Letters, 2009, 95, .	1.5	93
27	Alkylâ€Chainâ€Lengthâ€Independent Hole Mobility via Morphological Control with Poly(3â€alkylthiophene) Nanofibers. Advanced Functional Materials, 2010, 20, 792-802.	7.8	89
28	Novel Regiospecific MDMOâ^'PPV Copolymer with Improved Charge Transport for Bulk Heterojunction Solar Cells. Journal of Physical Chemistry B, 2004, 108, 5235-5242.	1.2	86
29	Low-bandgap conjugated polymers. A joint experimental and theoretical study of the structure of polyisothianaphthene. Macromolecules, 1992, 25, 7347-7356.	2.2	84
30	Synthesis of 3,4-Diphenyl-Substituted Poly(Thienylene Vinylene), Low-Band-Gap Polymers via the Dithiocarbamate Route. Macromolecules, 2005, 38, 19-26.	2.2	84
31	Low band-gap polymeric photovoltaic devices. Synthetic Metals, 2001, 121, 1583-1584.	2.1	80
32	Photoinduced charge transfer in composites of conjugated polymers and semiconductor nanocrystals. Nanotechnology, 2004, 15, 163-170.	1.3	80
33	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. Advanced Energy Materials, 2011, 1, 90-96.	10.2	80
34	Thiazolo[5,4-d]thiazoles â€“ promising building blocks in the synthesis of semiconductors for plastic electronics. RSC Advances, 2013, 3, 11418.	1.7	80
35	Molar Mass versus Polymer Solar Cell Performance: Highlighting the Role of Homocouplings. Chemistry of Materials, 2015, 27, 3726-3732.	3.2	79
36	Synthesis of poly(p-phenylene vinylene) materials via the precursor routes. Polymer Chemistry, 2012, 3, 275-285.	1.9	78

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37	MIP-based sensor platforms for the detection of histamine in the nano- and micromolar range in aqueous media. Sensors and Actuators B: Chemical, 2010, 148, 392-398.	4.0	76
38	A comparison between state-of-the-art â€˜gilchâ€™ and â€˜sulphinylâ€™ synthesised MDMO-PPV/PCBM bulk hetero-junction solar cells. Thin Solid Films, 2002, 403-404, 247-251.	0.8	75
39	Copolymers of 3,4-Ethylenedioxythiophene and of Pyridine Alternated with Fluorene or Phenylene Units:Â Synthesis, Optical Properties, and Devices. Macromolecules, 2004, 37, 4087-4098.	2.2	75
40	Improved Photovoltaic Performance of a Semicrystalline Narrow Bandgap Copolymer Based on 4H-Cyclopenta[2,1-b:3,4-bâ€²]dithiophene Donor and Thiazolo[5,4-d]thiazole Acceptor Units. Chemistry of Materials, 2012, 24, 587-593.	3.2	73
41	Influence of fullerene photodimerization on the PCBM crystallization in polymer: Fullerene bulk heterojunctions under thermal stress. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1209-1214.	2.4	72
42	Enhanced Organic Solar Cell Stability by Polymer (PCPDTBT) Side Chain Functionalization. Chemistry of Materials, 2015, 27, 1332-1341.	3.2	70
43	A general synthetic route to high molecular weight poly(p-xylylene)-derivatives: a new route to poly(p-phenylene vinylene). Synthetic Metals, 1995, 69, 509-510.	2.1	65
44	New Synthesis of a Soluble High Molecular Weight Poly(arylene vinylene): Poly[2-methoxy-5-(3,7-dimethyloctyloxy)-p-phenylene vinylene]. Polymerization and Device Properties. Macromolecules, 1999, 32, 6517-6525.	2.2	65
45	Investigation of melamine-formaldehyde cure by Fourier transform Raman spectroscopy. Vibrational Spectroscopy, 1993, 6, 55-69.	1.2	64
46	Degradation of the Formamidinium Cation and the Quantification of the Formamidiniumâ€“Methylammonium Ratio in Lead Iodide Hybrid Perovskites by Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 4117-4124.	1.5	64
47	Synthesis of poly(2,5-Thienylene Vinylene) and its derivatives: Low band gap materials for photovoltaics. Thin Solid Films, 2008, 516, 3978-3988.	0.8	61
48	Controlling the morphology of nanofiber-P3HT:PCBM blends for organic bulk heterojunction solar cells. Organic Electronics, 2009, 10, 1248-1251.	1.4	61
49	Influence of nanoscale phase separation on geminate versus bimolecular recombination in P3HT:fullerene blend films. Energy and Environmental Science, 2010, 3, 971.	15.6	61
50	Thermal Stability of Poly[2-methoxy-5-(2â€²-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV):Fullerene Bulk Heterojunction Solar Cells. Macromolecules, 2011, 44, 8470-8478.	2.2	61
51	Synthesis and Characterization of a Poly(1,3-dithienylisothianaphthene) Derivative for Bulk Heterojunction Photovoltaic Cells. Journal of Physical Chemistry B, 2001, 105, 11106-11113.	1.2	60
52	In situ conductivity measurements on polyethylenedioxythiophene derivatives with different counter ions. Synthetic Metals, 2002, 126, 193-198.	2.1	60
53	NMR study of the nanomorphology in thin films of polymer blends used in organic PV devices: MDMOâ€PPV/PCBM. Journal of Polymer Science Part A, 2008, 46, 138-145.	2.5	59
54	Identification and Quantification of Polymerization Defects in13C-Labeled Sulfinyl and Gilch OC1C10â^'PPV by NMR Spectroscopy. Macromolecules, 2003, 36, 5613-5622.	2.2	58

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55	Polymerization of a p-quinodimethane derivative to a precursor of poly(p-phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742	1.8	57
56	Role of electron-hole pair formation in organic magnetoresistance. Physical Review B, 2009, 79, .	1.1	56
57	The synthesis of poly(1,4-phenylene-1,2-ethanediyl) derivatives: an adaptation of the wessling route. Synthetic Metals, 1992, 52, 125-130.	2.1	55
58	Bulk heterojunction organic solar cells based on soluble poly(thienylene vinylene) derivatives. Organic Electronics, 2008, 9, 740-746.	1.4	55
59	Kinetic Monte Carlo Modeling of the Sulfinyl Precursor Route for Poly(p-phenylene vinylene) Synthesis. Macromolecules, 2011, 44, 8716-8726.	2.2	55
60	Imidazoliumâ€Substituted Polythiophenes as Efficient Electron Transport Materials Improving Photovoltaic Performance. Advanced Energy Materials, 2013, 3, 1180-1185.	10.2	55
61	Improved thermal stability of bulk heterojunctions based on side-chain functionalized poly(3-alkylthiophene) copolymers and PCBM. Solar Energy Materials and Solar Cells, 2013, 110, 69-76.	3.0	52
62	Towards 2D layered hybrid perovskites with enhanced functionality: introducing charge-transfer complexes via self-assembly. Chemical Communications, 2019, 55, 2481-2484.	2.2	51
63	A MIPâ€based biomimetic sensor for the impedimetric detection of histamine in different pH environments. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 837-843.	0.8	50
64	Determination of free melamine content in melamine-formaldehyde resins by Raman spectroscopy. Vibrational Spectroscopy, 1995, 9, 139-146.	1.2	49
65	Grignard Reactions onOrthoDicarboxylic Arene Derivatives. Synthesis of 1,3-Dithienylisothianaphthene Compounds. Journal of Organic Chemistry, 1997, 62, 1473-1480.	1.7	49
66	Conjugated polymers based on new thienylene â€“ PPV derivatives for solar cell applications. Electrochemistry Communications, 2002, 4, 912-916.	2.3	49
67	Study of Solvent Diffusion in Polymeric Materials Using Magnetic Resonance Imaging. Macromolecules, 1995, 28, 8541-8547.	2.2	48
68	Effect of Polymer Crystallinity in P3HT:PCBM Solar Cells on Band Gap Trap States and Apparent Recombination Order. Advanced Energy Materials, 2013, 3, 466-471.	10.2	48
69	Continuous Flow Polymer Synthesis toward Reproducible Largeâ€Scale Production for Efficient Bulk Heterojunction Organic Solar Cells. ChemSusChem, 2015, 8, 3228-3233.	3.6	48
70	Quantitative magnetic resonance imaging study of water uptake by polyamide 4,6. Polymer, 2001, 42, 7943-7952.	1.8	47
71	Modelling the short-circuit current of polymer bulk heterojunction solar cells. Thin Solid Films, 2004, 451-452, 498-502.	0.8	47
72	Precursor route poly(thienylene vinylene) for organic solar cells: Photophysics and photovoltaic performance. Solar Energy Materials and Solar Cells, 2006, 90, 2815-2828.	3.0	47

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73	PPV-Based Conjugated Polymer Nanoparticles as a Versatile Bioimaging Probe: A Closer Look at the Inherent Optical Properties and Nanoparticleâ€“Cell Interactions. Biomacromolecules, 2016, 17, 2562-2571.	2.6	47
74	Eco-friendly fabrication of PBDTTPD:PC71BM solar cells reaching a PCE of 3.8% using water-based nanoparticle dispersions. Organic Electronics, 2017, 42, 42-46.	1.4	47
75	Charge dissociation in polymer:fullerene bulk heterojunction solar cells with enhanced permittivity. Journal of Applied Physics, 2008, 104, .	1.1	45
76	Optimization of the Polymerization Process of Sulfinyl Precursor Polymers toward Poly(p-phenylenevinylene). Macromolecules, 1999, 32, 5728-5735.	2.2	44
77	Photoactive Blends of Poly(para-phenylenevinylene) (PPV) with Methanofullerenes from a Novel Precursor:â€‰ Photophysics and Device Performance. Journal of Physical Chemistry B, 2001, 105, 1528-1536.	1.2	44
78	New synthetic routes to poly (isothianaphthene) I. Reaction of phthalic anhydride and phthalide with phosphorus pentasulfide. Synthetic Metals, 1995, 74, 65-70.	2.1	43
79	The Gilch polymerisation towards OC1C10-PPV: indications for a radical mechanism. Polymer, 2001, 42, 5793-5796.	1.8	43
80	Synthesis of poly(p-phenylene vinylene) and derivatives via a new precursor route, the dithiocarbamate route. Polymer, 2006, 47, 123-131.	1.8	43
81	Comparison of the electrical characteristics of four 2,5-substituted poly(p-phenylene vinylene) derivatives with different side chains. Thin Solid Films, 2006, 511-512, 328-332.	0.8	42
82	Toward bulk heterojunction polymer solar cells with thermally stable active layer morphology. Journal of Photonics for Energy, 2014, 4, 040997.	0.8	42
83	Multi-layered hybrid perovskites templated with carbazole derivatives: optical properties, enhanced moisture stability and solar cell characteristics. Journal of Materials Chemistry A, 2018, 6, 22899-22908.	5.2	42
84	Effect of molecular weight on morphology and photovoltaic properties in P3HT:PCBM solar cells. Organic Electronics, 2015, 21, 160-170.	1.4	40
85	Inducing Charge Separation in Solid-State Two-Dimensional Hybrid Perovskites through the Incorporation of Organic Charge-Transfer Complexes. Journal of Physical Chemistry Letters, 2020, 11, 824-830.	2.1	40
86	Highly Selective Route for Producing Unsymmetrically Substituted Monomers toward Synthesis of Conjugated Polymers Derived from Poly(p-phenylene vinylene). Journal of Organic Chemistry, 1999, 64, 3106-3112.	1.7	39
87	Poly(thienylene vinylene) derivatives as low band gap polymers for photovoltaic applications. Thin Solid Films, 2004, 451-452, 572-579.	0.8	39
88	Plasma Deposition of Thiophene Derivatives Under Atmospheric Pressure. Chemical Vapor Deposition, 2006, 12, 719-727.	1.4	39
89	Enhanced intrinsic stability of the bulk heterojunction active layer blend of polymer solar cells by varying the polymer side chain pattern. Organic Electronics, 2014, 15, 549-562.	1.4	39
90	Interfacial thiolâ€“isocyanate reactions for functional nanocarriers: a facile route towards tunable morphologies and hydrophilic payload encapsulation. Chemical Communications, 2015, 51, 15858-15861.	2.2	39

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91	Highâ€resolution morphological and electrical characterisation of organic bulk heterojunction solar cells by scanning probe microscopy. Progress in Photovoltaics: Research and Applications, 2007, 15, 713-726.	4.4	38
92	On the stability of a variety of organic photovoltaic devices by IPCE and in situ IPCE analyses â€“ the ISOS-3 inter-laboratory collaboration. Physical Chemistry Chemical Physics, 2012, 14, 11824.	1.3	38
93	Quantitative carbon-13 solid-state n.m.r. and FTâ€“Raman spectroscopy in novolac resins. Polymer, 1998, 39, 5293-5300.	1.8	37
94	Influence of polymer ionization potential on the open-circuit voltage of hybrid polymer/TiO2 solar cells. Applied Physics Letters, 2008, 92, 053308.	1.5	37
95	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 6309-6314.	4.0	37
96	An effective strategy to enhance the dielectric constant of organic semiconductors â€“ CPDTTPD-based low bandgap polymers bearing oligo(ethylene glycol) side chains. Journal of Materials Chemistry C, 2018, 6, 500-511.	2.7	37
97	Identification of some important metabolites of boldenone in urine and feces of cattle by gas chromatography-mass spectrometryâ€. Analyst, The, 1998, 123, 2681-2686.	1.7	36
98	Convenient synthesis and polymerization of 5,6-disubstituted dithiophthalides toward soluble poly(isothianaphthene): An initial spectroscopic characterization of the resulting low-band-gap polymers. Journal of Polymer Science Part A, 2003, 41, 1034-1045.	2.5	36
99	Light-emitting organic field-effect transistor using an organic heterostructure within the transistor channel. Applied Physics Letters, 2006, 89, 223504.	1.5	36
100	Poly(3-alkylthiophene) nanofibers for optoelectronic devices. Journal of Materials Chemistry C, 2014, 2, 5730.	2.7	36
101	Lead-Halide Perovskites Meet Donorâ€“Acceptor Charge-Transfer Complexes. Chemistry of Materials, 2019, 31, 6880-6888.	3.2	36
102	Tuning of PCDTBT:PC71BM blend nanoparticles for eco-friendly processing of polymer solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 179-188.	3.0	35
103	Generation of specifically substituted pyridines and pyridones from 2(1h) pyrazinones and acetylenes : A FMO description. Tetrahedron, 1990, 46, 5715-5732.	1.0	34
104	Use of Magnetic Resonance Imaging To Study Transport of Methanol in Poly(methyl methacrylate) at Variable Temperature. Macromolecules, 1996, 29, 5671-5677.	2.2	34
105	Verification of Radical and Anionic Polymerization Mechanisms in the Sulfinyl and the Gilch Route. Macromolecules, 2003, 36, 3035-3044.	2.2	34
106	Controlled/living polymerization towards functional poly(p-phenylene vinylene) materials. Polymer Chemistry, 2016, 7, 1355-1367.	1.9	34
107	Enhanced open-circuit voltage in polymer solar cells by dithieno[3,2-b:2â€²,3â€²-d]pyrrole N-acylation. Journal of Materials Chemistry A, 2014, 2, 7535-7545.	5.2	33
108	Direct arylation as a versatile tool towards thiazolo[5,4-d]thiazole-based semiconducting materials. Organic and Biomolecular Chemistry, 2014, 12, 4663-4672.	1.5	33

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109	Polymerization Behavior of Xanthate-Containing Monomers toward PPV Precursor Polymers:Â Study of the Elimination Behavior of Precursor Polymers and Oligomers with in-Situ FT-IR and UVâˆ'Vis Analytical Techniques. Macromolecules, 2002, 35, 7902-7910.	2.2	32
110	The synthesis of regio-regular poly(3-alkyl-2,5-thienylene vinylene) derivatives using lithium bis(trimethylsilyl)amide (LHMDS) in the dithiocarbamate precursor route. Solar Energy Materials and Solar Cells, 2007, 91, 1026-1034.	3.0	32
111	Broadening the absorption of conjugated polymers by â€œclickâ€•functionalization with phthalocyanines. Dalton Transactions, 2011, 40, 3979.	1.6	32
112	TOF-SIMS investigation of degradation pathways occurring in a variety of organic photovoltaic devices â€“ the ISOS-3 inter-laboratory collaboration. Physical Chemistry Chemical Physics, 2012, 14, 11780.	1.3	32
113	Fluorination as an effective tool to increase the open-circuit voltage and charge carrier mobility of organic solar cells based on poly(cyclopenta[2,1-b:3,4-bâ€²]dithiophene-alt-quinoxaline) copolymers. Journal of Materials Chemistry A, 2015, 3, 2960-2970.	5.2	32
114	An investigation into the electronic structure of poly(isothianaphthene). Synthetic Metals, 1992, 51, 219-228.	2.1	31
115	Polymerization Mechanism of 1-[(Butylsulfi(o)nyl)methyl]-4-(halomethyl)benzene:Â The Effect of Polarizer and Leaving Group. Macromolecules, 1998, 31, 4426-4431.	2.2	31
116	Radical as well as anionic polymerisation mechanisms in the synthesis of poly(p-arylene vinylene) precursors. Polymer, 1999, 40, 6615-6617.	1.8	31
117	Low-Band-Gap Conjugated Polymers. Improved Model Compounds for the Structural Analysis of Poly(isothianaphthene). Macromolecules, 1995, 28, 4961-4969.	2.2	30
118	Synthesis and Characterization of Poly(pyridine vinylene) via the Sulfinyl Precursor Route. Macromolecules, 2001, 34, 7294-7299.	2.2	29
119	Study of the Thermal Elimination and Degradation Processes ofn-Alkylsulfinylâˆ'PPV and âˆ'OC1C10âˆ'PPV Precursor Polymers with in Situ Spectroscopic Techniques. Macromolecules, 2005, 38, 1141-1147.	2.2	29
120	On the â€œTrueâ€•Structure of Pushâ€“Pullâ€•Type Lowâ€•Bandgap Polymers for Organic Electronics. Advanced Electronic Materials, 2018, 4, 1700481.	2.6	29
121	Filling porous silicon pores with poly(p phenylene vinylene). Physica Status Solidi A, 2003, 197, 232-235.	1.7	28
122	The Importance of Bridging Points for Charge Transport in Webs of Conjugated Polymer Nanofibers. Advanced Functional Materials, 2013, 23, 862-869.	7.8	28
123	Quinoxaline derivatives with broadened absorption patterns. Organic and Biomolecular Chemistry, 2013, 11, 5866.	1.5	28
124	Profluorescent PPV-Based Micellar System as a Versatile Probe for Bioimaging and Drug Delivery. Biomacromolecules, 2016, 17, 4086-4094.	2.6	28
125	Phase behavior of PCBM blends with different conjugated polymers. Physical Chemistry Chemical Physics, 2011, 13, 12285.	1.3	27
126	Imidazolium-substituted ionic (co)polythiophenes: Compositional influence on solution behavior and thermal properties. Polymer, 2013, 54, 6293-6304.	1.8	27

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127	Kinetic and Mechanistic Study onp-Quinodimethane Formation in the Sulfinyl Precursor Route for the Polymerization of Poly(p-phenylenevinylene) (PPV). Macromolecules, 2010, 43, 7424-7433.	2.2	26
128	On the quinoid structure of poly(isothianaphthene): A vibrational spectroscopic study. Advanced Materials, 1995, 7, 1027-1030.	11.1	25
129	Metabolites in feces can be important markers for the abuse of anabolic steroids in cattleâ€. Analyst, The, 1998, 123, 2449-2452.	1.7	25
130	A general approach to precursors for poly(arylene vinylene) derivatives: Mechanism, scope and modifications. Macromolecular Symposia, 1998, 125, 189-203.	0.4	25
131	Description of the nanostructured morphology of [6,6]â€phenylâ€C₆₁â€butyric acid methyl ester (PCBM) by XRD, DSC and solidâ€state NMR. Magnetic Resonance in Chemistry, 2011, 49, 242-247.	1.1	25
132	Elucidating Batch-to-Batch Variation Caused by Homocoupled Side Products in Solution-Processable Organic Solar Cells. Chemistry of Materials, 2016, 28, 9088-9098.	3.2	25
133	Hysteresis-free electron currents in poly(p-phenylene vinylene) derivatives. Journal of Applied Physics, 2010, 107, .	1.1	24
134	A Three-Step Synthetic Approach to Asymmetrically Functionalized 4H-Cyclopenta[2,1-b:3,4-bâ€²]dithiophenes. Journal of Organic Chemistry, 2010, 75, 7202-7209.	1.7	24
135	Opto-electrical and morphological characterization of water soluble conjugated polymers for eco-friendly hybrid solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3262-3268.	3.0	24
136	Diels-alder reactions of the heterodiene system in 2(1h)-pyrazinones. Tetrahedron Letters, 1986, 27, 2509-2512.	0.7	23
137	Optical Absorption Spectra of Aromatic Isothianaphthene Oligomers: Theory and Experiment. The Journal of Physical Chemistry, 1995, 99, 3932-3938.	2.9	23
138	Highly Selective Route to Unsymmetrically Substituted 1-{2-[(Butylsulfanyl)methyl]-5-(chloromethyl)-4-methoxyphenoxy}-3,7-dimethyloctane and Isomers toward Synthesis of Conjugated Polymer OC1C10 Used in LEDs: Synthesis and Optimization. Helvetica Chimica Acta, 2000, 83, 3113-3121.	1.0	23
139	Discovery of an Anionic Polymerization Mechanism for High Molecular Weight PPV Derivatives via the Sulfinyl Precursor Route. Macromolecules, 2011, 44, 7610-7616.	2.2	23
140	Molecular weight tuning of low bandgap polymers by continuous flow chemistry: increasing the applicability of PffBT4T for organic photovoltaics. Journal of Materials Chemistry A, 2017, 5, 18166-18175.	5.2	23
141	Synthesis and characterization of water-soluble poly(p-phenylene vinylene) derivatives via the dithiocarbamate precursor route. European Polymer Journal, 2011, 47, 1827-1835.	2.6	22
142	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. Organic Electronics, 2013, 14, 523-534.	1.4	22
143	Simultaneous Enhancement of Solar Cell Efficiency and Stability by Reducing the Side Chain Density on Fluorinated PCPDTQx Copolymers. Macromolecules, 2015, 48, 3873-3882.	2.2	22
144	A direct arylation approach towards efficient small molecule organic solar cells. Journal of Materials Chemistry A, 2016, 4, 791-795.	5.2	22

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145	Diels-alder reactions of pyrano[3,4-b]indol-3-ones with olefinic compounds : Synthesis of (1,2-dihydro)carbazoles. Tetrahedron, 1989, 45, 6761-6770.	1.0	21
146	A reanalysis of the k3Î state of CO. Journal of Chemical Physics, 1997, 107, 8303-8310.	1.2	21
147	Relationships between Microvoid Heterogeneity and Physical Properties in Cross-Linked Elastomers:Â An NMR Imaging Study. Macromolecules, 2000, 33, 7116-7121.	2.2	21
148	Poly(5,6-dithiooctylisothianaphtene), a new low band gap polymer: spectroscopy and solar cell construction. Synthetic Metals, 2003, 138, 249-253.	2.1	21
149	Nanostructured organic pn junctions towards 3D photovoltaics. Applied Physics A: Materials Science and Processing, 2004, 79, 27-30.	1.1	21
150	High resolution electrical characterisation of organic photovoltaic blends. Microelectronic Engineering, 2007, 84, 431-436.	1.1	21
151	Development of novel processable electron accepting conjugated polymers containing fluoranthene units in the main chain. Polymer, 2009, 50, 5007-5015.	1.8	21
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