David J Jones

List of Publications by Year in descending order

103 papers	5,105 citations	101543 36 h-index	88630 70 g-index
104 all docs	104 docs citations	104 times ranked	7336 citing authors

#	Article	IF	Citations
1	Toward Large Scale Rollâ€toâ€Roll Production of Fully Printed Perovskite Solar Cells. Advanced Materials, 2015, 27, 1241-1247.	21.0	785
2	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. Nature Communications, 2015, 6, 6013.	12.8	541
3	Organic Solar Cells Using a Highâ€Molecularâ€Weight Benzodithiopheneâ€“Benzothiadiazole Copolymer with an Efficiency of 9.4%. Advanced Materials, 2015, 27, 702-705.	21.0	188
4	Discovery and Optimization of New Chromium Catalysts for Ethylene Oligomerization and Polymerization Aided by High-Throughput Screening. Journal of the American Chemical Society, 2005, 127, 11037-11046.	13.7	155
5	Experimental Evidence for Large Ring Metallacycle Intermediates in Polyethylene Chain Growth Using Homogeneous Chromium Catalysts. Journal of the American Chemical Society, 2005, 127, 10166-10167.	13.7	155
6	Polyfluorenes without Monoalkylfluorene Defects. Journal of the American Chemical Society, 2007, 129, 11910-11911.	13.7	140
7	The role of solvent vapor annealing in highly efficient air-processed small molecule solar cells. Journal of Materials Chemistry A, 2014, 2, 9048.	10.3	133
8	Highly Fluorescent Molecularly Insulated Perylene Diimides: Effect of Concentration on Photophysical Properties. Chemistry of Materials, 2017, 29, 8395-8403.	6.7	124
9	Discovery of a new family of chromium ethylene polymerisation catalysts using high throughput screening methodologyElectronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b202037h/. Chemical Communications, 2002, , 1038-1039.	4.1	122
10	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Coreâ^'Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. Chemistry of Materials, 2010, 22, 457-466.	6.7	113
11	Solution Processable Fluorenyl Hexaâ€periâ€hexabenzocoronenes in Organic Fieldâ€Effect Transistors and Solar Cells. Advanced Functional Materials, 2010, 20, 927-938.	14.9	109
12	Distinguishing Chain Growth Mechanisms in Metal-catalyzed Olefin Oligomerization and Polymerization Systems: C₂H₄/C₂D₄ Co-oligomerization/Polymerization Experiments Using Chromium, Iron, and Cobalt Catalysts. Organometallics, 2009, 28, 7033-7040.	2.3	107
13	Emissive Molecular Aggregates and Energy Migration in Luminescent Solar Concentrators. Accounts of Chemical Research, 2017, 50, 49-57.	15.6	105
14	Organic photovoltaic modules fabricated by an industrial gravure printing proofer. Solar Energy Materials and Solar Cells, 2013, 109, 47-55.	6.2	103
15	Hexa-peri-hexabenzocoronene in organic electronics. Pure and Applied Chemistry, 2012, 84, 1047-1067.	1.9	84
16	Dithienothiophene (DTT)-Based Dyes for Dye-Sensitized Solar Cells: Synthesis of 2,6-Dibromo-DTT. Journal of Organic Chemistry, 2011, 76, 4088-4093.	3.2	81
17	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
18	The surprisingly beneficial effect of soft donors on the performance of early transition metal olefin polymerisation catalysts. Chemical Communications, 2004, , 2174.	4.1	70

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19	Effect of molecular weight on the properties and organic solar cell device performance of a donorâ€“acceptor conjugated polymer. Polymer Chemistry, 2015, 6, 2312-2318.	3.9	70
20	Reduced Recombination in High Efficiency Molecular Nematic Liquid Crystalline: Fullerene Solar Cells. Advanced Energy Materials, 2016, 6, 1600939.	19.5	68
21	A porphyrin-hexa-peri-hexabenzocoronene-porphyrin triad: synthesis, photophysical properties and performance in a photovoltaic device. Journal of Materials Chemistry, 2010, 20, 7005.	6.7	60
22	Inverted semi-transparent organic solar cells with spray coated, surfactant free polymer top-electrodes. Solar Energy Materials and Solar Cells, 2012, 98, 118-123.	6.2	60
23	Energy Migration in Organic Solar Concentrators with a Molecularly Insulated Perylene Diimide. Journal of Physical Chemistry C, 2016, 120, 12952-12958.	3.1	60
24	Advances toward the effective use of block copolymers as organic photovoltaic active layers. Polymer Chemistry, 2018, 9, 795-814.	3.9	57
25	Liquid crystalline hexa-peri-hexabenzocoronene-diketopyrrolopyrrole organic dyes for photovoltaic applications. Journal of Materials Chemistry, 2012, 22, 21131.	6.7	55
26	Single Isomer of Indene-C₇₀ Bisadductâ€”Isolation and Performance in Bulk Heterojunction Solar Cells. Chemistry of Materials, 2014, 26, 1686-1689.	6.7	55
27	Continuous flow synthesis of conjugated polymers. Chemical Communications, 2012, 48, 1598-1600.	4.1	52
28	Continuous Flow Synthesis of Fullerene Derivatives. Journal of Organic Chemistry, 2011, 76, 3551-3556.	3.2	51
29	Synthesis of electron-poor hexa-peri-hexabenzocoronenes. Chemical Communications, 2012, 48, 8066.	4.1	47
30	Synthesis, Photophysical, and Device Properties of Novel Dendrimers Based on a Fluoreneâ^'Hexabenzocoronene (FHBC) Core. Organic Letters, 2009, 11, 975-978.	4.6	46
31	Reverse gravure coating for roll-to-roll production of organic photovoltaics. Solar Energy Materials and Solar Cells, 2016, 149, 154-161.	6.2	46
32	Influence of moisture out-gassing from encapsulant materials on the lifetime of organic solar cells. Solar Energy Materials and Solar Cells, 2015, 132, 485-491.	6.2	44
33	High-Performance Large-Area Luminescence Solar Concentrator Incorporating a Donorâ€“Emitter Fluorophore System. ACS Energy Letters, 2019, 4, 1839-1844.	17.4	42
34	Aggregation-induced emission-mediated spectral downconversion in luminescent solar concentrators. Materials Chemistry Frontiers, 2018, 2, 615-619.	5.9	40
35	Additiveâ€Morphology Interplay and Loss Channels in â€œAllâ€Smallâ€Moleculeâ€•Bulkâ€heterojunction (BHJ) Solar Cells with the Nonfullerene Acceptor IDTTBM. Advanced Functional Materials, 2018, 28, 1705464.	14.9	40
36	Interface engineering for solid-state dye-sensitised nanocrystalline solar cells: the use of an organic redox cascade. Chemical Communications, 2006, , 535-537.	4.1	38

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37	A Green Route to Conjugated Polyelectrolyte Interlayers for Highâ€Performance Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 8431-8434.	13.8	37
38	Zirconium Complexes Containing Tetradentate O,P,P,O Ligands: Ethylene and Propylene Polymerization Studies. Organometallics, 2008, 27, 5960-5967.	2.3	36
39	Development of a High-Performance Donorâ€“Acceptor Conjugated Polymer: Synergy in Materials and Device Optimization. Chemistry of Materials, 2016, 28, 3481-3487.	6.7	35
40	Film morphology evolution during solvent vapor annealing of highly efficient small molecule donor/acceptor blends. Journal of Materials Chemistry A, 2016, 4, 15511-15521.	10.3	35
41	Controlled synthesis of poly(3-hexylthiophene) in continuous flow. Beilstein Journal of Organic Chemistry, 2013, 9, 1492-1500.	2.2	34
42	Ultrafast Fabrication of Flexible Dye-Sensitized Solar Cells by Ultrasonic Spray-Coating Technology. Scientific Reports, 2015, 5, 14645.	3.3	32
43	Fluorenyl Hexaâ€periâ€hexabenzocoroneneâ€Dendritic Oligothiophene Hybrid Materials: Synthesis, Photophysical Properties, Selfâ€Association Behaviour and Device Performance. Chemistry - A European Journal, 2011, 17, 5549-5560.	3.3	30
44	New barrier encapsulation and lifetime assessment of printed organic photovoltaic modules. Solar Energy Materials and Solar Cells, 2016, 155, 108-116.	6.2	30
45	Ambipolar Hexa-peri-hexabenzocoroneneâ^'Fullerene Hybrid Materials. Organic Letters, 2010, 12, 5000-5003.	4.6	29
46	Zirconium complexes as catalysts for the oligomerisation of ethylene: the role of chelate ligands and the Lewis acid cocatalyst in the generation of the active species. Journal of Molecular Catalysis A, 1999, 138, 37-52.	4.8	28
47	Detection of ketorolac enantiomers in human plasma using enantioselective liquid chromatography. Biomedical Applications, 1994, 661, 165-167.	1.7	27
48	Reduced Recombination and Capacitor-like Charge Buildup in an Organic Heterojunction. Journal of the American Chemical Society, 2020, 142, 2562-2571.	13.7	27
49	The effect of molecule size and shape on free charge generation, transport and recombination in all-thiophene dendrimer:fullerene bulk heterojunctions. Organic Electronics, 2010, 11, 573-582.	2.6	26
50	Benzotriazole-based donorâ€“acceptor conjugated polymers with a broad absorption in the visible range. Polymer Chemistry, 2014, 5, 1258-1263.	3.9	26
51	Thiazolyl substituted benzodithiophene copolymers: synthesis, properties and photovoltaic applications. Journal of Materials Chemistry C, 2014, 2, 1306-1313.	5.5	25
52	Hydrogen bonding in bulk heterojunction solar cells: A case study. Scientific Reports, 2014, 4, 5701.	3.3	25
53	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
54	Manipulating active layer morphology of molecular donor/polymer acceptor based organic solar cells through ternary blends. Science China Chemistry, 2018, 61, 1025-1033.	8.2	25

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55	Morphological and Device Evaluation of an Amphiphilic Block Copolymer for Organic Photovoltaic Applications. Macromolecules, 2017, 50, 4942-4951.	4.8	22
56	Solutionâ€Processable, Solid State Donorâ€“Acceptor Materials for Singlet Fission. Advanced Energy Materials, 2018, 8, 1801720.	19.5	21
57	Tailoring exciton diffusion and domain size in photovoltaic small molecules by annealing. Journal of Materials Chemistry C, 2019, 7, 7922-7928.	5.5	21
58	Continuous Flow Synthesis of Organic Electronic Materials â€“ Case Studies in Methodology Translation and Scale-up. Australian Journal of Chemistry, 2013, 66, 151.	0.9	20
59	One-pot selective synthesis of a fullerene bisadduct for organic solar cell applications. Chemical Communications, 2015, 51, 9837-9840.	4.1	20
60	Highly Efficient Luminescent Solar Concentrators by Selective Alignment of Donorâ€“Emitter Fluorophores. Chemistry of Materials, 2019, 31, 3001-3008.	6.7	18
61	Morphology Change and Improved Efficiency in Organic Photovoltaics via Hexa-peri-hexabenzocoronene Templates. ACS Applied Materials & Interfaces, 2014, 6, 8824-8835.	8.0	17
62	Morphology of a thermally stable small molecule OPV blend comprising a liquid crystalline donor and fullerene acceptor. Journal of Materials Chemistry A, 2019, 7, 16458-16471.	10.3	17
63	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
64	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
65	Competitive Triplet Formation and Recombination in Crystalline Films of Perylenediimide Derivatives: Implications for Singlet Fission. Journal of Physical Chemistry C, 2020, 124, 11574-11585.	3.1	15
66	Solution Processable Monosubstituted Hexaâ€Periâ€Hexabenzocoronene Selfâ€Assembling Dyes. Advanced Functional Materials, 2012, 22, 2015-2026.	14.9	13
67	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
68	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
69	Bulk Heterojunction Nanomorphology of Fluorenyl Hexa-peri-hexabenzocoroneneâ€“Fullerene Blend Films. ACS Applied Materials & Interfaces, 2013, 5, 11554-11562.	8.0	12
70	Regioselective synthesis of fullerene multiadducts via tether-directed 1,3-dipolar cycloaddition. Organic and Biomolecular Chemistry, 2015, 13, 10505-10510.	2.8	12
71	FRET-enhanced photoluminescence of perylene diimides by combining molecular aggregation and insulation. Journal of Materials Chemistry C, 2020, 8, 8953-8961.	5.5	12
72	The structure of Na6Zn3(AsO4)4 Â· 3H2O and its relationship to the garnet and other Ia3d-derived structures. Journal of Solid State Chemistry, 1989, 82, 52-59.	2.9	11

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73	Continuous assembly of polymers via solid phase reactions. Chemical Science, 2014, 5, 3374-3380.	7.4	11
74	Solution stability of active materials for organic photovoltaics. Solar Energy, 2015, 113, 181-188.	6.1	11
75	Liquid Crystallinity as a Selfâ€Assembly Motif for Highâ€Efficiency, Solutionâ€Processed, Solidâ€State Singlet Fission Materials. Advanced Energy Materials, 2019, 9, 1901069.	19.5	11
76	Synthesis and photovoltaic properties of thieno[3,2-b]thiophenyl substituted benzo[1,2-b:4,5-bâ€²]dithiophene copolymers. Polymer Chemistry, 2014, 5, 6710-6717.	3.9	10
77	Charge Transfer in Single Chains of a Donorâ€“Acceptor Conjugated Tri-Block Copolymer. Journal of Physical Chemistry B, 2015, 119, 7266-7274.	2.6	10
78	A Green Route to Conjugated Polyelectrolyte Interlayers for Highâ€Performance Solar Cells. Angewandte Chemie, 2017, 129, 8551-8554.	2.0	10
79	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
80	Phase Transition Modulation and Defect Suppression in Perovskite Solar Cells Enabled by a Selfâ€Sacrificed Template. Solar Rrl, 2021, 5, 2100448.	5.8	10
81	Controlled Synthesis of Wellâ€Defined Semiconducting Brush Polymers. Macromolecular Chemistry and Physics, 2016, 217, 403-413.	2.2	9
82	Facile Synthesis of 2-Arylpyrroles from 4-Oxo-butanoic Acids and Their Use in the Preparation of Bis(pyrrolyl)methanes. Heterocycles, 2006, 68, 1121.	0.7	8
83	Organic Photovoltaic Materialsâ€”Design, Synthesis and Scaleâ€Up. Chemical Record, 2015, 15, 1006-1020.	5.8	7
84	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
85	Photophysics and morphology of a polyfluorene donorâ€“acceptor triblock copolymer for solar cells. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1705-1718.	2.1	6
86	Separation and identification of indeneâ€“C₇₀ bisadduct isomers. Beilstein Journal of Organic Chemistry, 2016, 12, 903-911.	2.2	6
87	The synthesis and purification of amphiphilic conjugated donorâ€“acceptor block copolymers. Polymer Journal, 2017, 49, 155-161.	2.7	6
88	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
89	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
90	Correlation of charge extraction properties and short circuit current in various organic binary and ternary blend photovoltaic devices. Applied Physics A: Materials Science and Processing, 2012, 108, 515-520.	2.3	4

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91	A structural study of p-type Aâ€“Dâ€“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
92	Morphological Requirements for Nanoscale Electric Field Buildup in a Bulk Heterojunction Solar Cell. Journal of Physical Chemistry Letters, 2021, 12, 537-545.	4.6	4
93	Determination of eltanolone in human plasma by high-performance liquid chromatography. Biomedical Applications, 1997, 694, 467-470.	1.7	1
94	One-Pot Synthesis of Fully Conjugated Amphiphilic Block Copolymers Using Asymmetrically Functionalized Pushâ€“Pull Monomers. Macromolecules, 2022, 55, 2872-2881.	4.8	1
95	Photophysics and charge transfer in donor-acceptor triblock copolymer photovoltaic materials. , 2014, , .		0
96	High performance molecular donors for organic solar cells, materials design and device optimization. , 2017, , .		0
97	Amphiphilic block-copolymers for morphology control in OSCs. , 0, , .		0
98	Block copolymer design for morphology control in organic photovoltaics. , 0, , .		0
99	Liquid Crystallinity as a pre-organisation motif for high efficiency, solid-state singlet fission. , 0, , .		0
100	Non-traditional Singlet Fission Materials. , 0, , .		0
101	Theoretical Aspects of Iterative Coupling for Linear Oligomers and Polymers. Macromolecular Theory and Simulations, 2020, 29, 1900048.	1.4	0
102	Non-traditional Singlet Fission Materials. , 0, , .		0
103	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