

David J Jones

List of Publications by Year in descending order

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103
papers

5,105
citations

101543

36
h-index

88630

70
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104
all docs

104
docs citations

104
times ranked

7336
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Pot Synthesis of Fully Conjugated Amphiphilic Block Copolymers Using Asymmetrically Functionalized Push-Pull Monomers. <i>Macromolecules</i> , 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. <i>Organic Electronics</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 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. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36044-36052.	8.0	7
5	Phase Transition Modulation and Defect Suppression in Perovskite Solar Cells Enabled by a Self-Sacrificed Template. <i>Solar Rrl</i> , 2021, 5, 2100448.	5.8	10
6	Morphological Requirements for Nanoscale Electric Field Buildup in a Bulk Heterojunction Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 537-545.	4.6	4
7	Reduced Recombination and Capacitor-like Charge Buildup in an Organic Heterojunction. <i>Journal of the American Chemical Society</i> , 2020, 142, 2562-2571.	13.7	27
8	A structural study of p-type A ² A oligothiophenes: effects of regioregular alkyl sidechains on annealing processes and photovoltaic performances. <i>Journal of Materials Chemistry C</i> , 2020, 8, 567-580.	5.5	4
9	Experimental Evidence Relating Charge-Transfer-State Kinetics and Strongly Reduced Bimolecular Recombination in Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10519-10525.	4.6	6
10	Competitive Triplet Formation and Recombination in Crystalline Films of Perylene diimide Derivatives: Implications for Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11574-11585.	3.1	15
11	FRET-enhanced photoluminescence of perylene diimides by combining molecular aggregation and insulation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8953-8961.	5.5	12
12	Theoretical Aspects of Iterative Coupling for Linear Oligomers and Polymers. <i>Macromolecular Theory and Simulations</i> , 2020, 29, 1900048.	1.4	0
13	High-Performance Large-Area Luminescence Solar Concentrator Incorporating a Donor-Emitter Fluorophore System. <i>ACS Energy Letters</i> , 2019, 4, 1839-1844.	17.4	42
14	Liquid Crystallinity as a Self-Assembly Motif for High-Efficiency, Solution-Processed, Solid-State Singlet Fission Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1901069.	19.5	11
15	Flexible ITO-Free Organic Photovoltaics on Ultra-Thin Flexible Glass Substrates with High Efficiency and Improved Stability. <i>Solar Rrl</i> , 2019, 3, 1800286.	5.8	5
16	Morphology of a thermally stable small molecule OPV blend comprising a liquid crystalline donor and fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16458-16471.	10.3	17
17	Naphthalimide end-capped diphenylacetylene: a versatile organic semiconductor for blue light emitting diodes and a donor or an acceptor for solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 9243-9254.	2.8	15
18	Tailoring exciton diffusion and domain size in photovoltaic small molecules by annealing. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7922-7928.	5.5	21

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19	Graphene-Based Transparent Conducting Electrodes for High Efficiency Flexible Organic Photovoltaics: Elucidating the Source of the Power Losses. <i>Solar Rrl</i> , 2019, 3, 1900042.	5.8	13
20	Highly Efficient Luminescent Solar Concentrators by Selective Alignment of Donor-Emitter Fluorophores. <i>Chemistry of Materials</i> , 2019, 31, 3001-3008.	6.7	18
21	Solubilizing core modifications on high-performing benzodithiophene-based molecular semiconductors and their influences on film nanostructure and photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6312-6326.	10.3	16
22	Aggregation-induced emission-mediated spectral downconversion in luminescent solar concentrators. <i>Materials Chemistry Frontiers</i> , 2018, 2, 615-619.	5.9	40
23	Additive-Morphology Interplay and Loss Channels in All-Small-Molecule-Bulk Heterojunction (BHJ) Solar Cells with the Nonfullerene Acceptor IDTTBM. <i>Advanced Functional Materials</i> , 2018, 28, 1705464.	14.9	40
24	Advances toward the effective use of block copolymers as organic photovoltaic active layers. <i>Polymer Chemistry</i> , 2018, 9, 795-814.	3.9	57
25	Solution-Processable, Solid State Donor-Acceptor Materials for Singlet Fission. <i>Advanced Energy Materials</i> , 2018, 8, 1801720.	19.5	21
26	Manipulating active layer morphology of molecular donor/polymer acceptor based organic solar cells through ternary blends. <i>Science China Chemistry</i> , 2018, 61, 1025-1033.	8.2	25
27	Phthalimide and naphthalimide: Effect of end-capping groups on molecular properties and photovoltaic performance of 9-fluorenone based acceptors for organic solar cells. <i>Organic Electronics</i> , 2018, 62, 12-20.	2.6	10
28	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. <i>Angewandte Chemie</i> , 2017, 129, 8551-8554.	2.0	10
29	A Green Route to Conjugated Polyelectrolyte Interlayers for High-Performance Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8431-8434.	13.8	37
30	Emissive Molecular Aggregates and Energy Migration in Luminescent Solar Concentrators. <i>Accounts of Chemical Research</i> , 2017, 50, 49-57.	15.6	105
31	Highly Fluorescent Molecularly Insulated Perylene Diimides: Effect of Concentration on Photophysical Properties. <i>Chemistry of Materials</i> , 2017, 29, 8395-8403.	6.7	124
32	Morphological and Device Evaluation of an Amphiphilic Block Copolymer for Organic Photovoltaic Applications. <i>Macromolecules</i> , 2017, 50, 4942-4951.	4.8	22
33	The synthesis and purification of amphiphilic conjugated donor-acceptor block copolymers. <i>Polymer Journal</i> , 2017, 49, 155-161.	2.7	6
34	High performance molecular donors for organic solar cells, materials design and device optimization. , 2017, , .		0
35	Separation and identification of indene-C ₇₀ bisadduct isomers. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 903-911.	2.2	6
36	High performance p-type molecular electron donors for OPV applications via alkylthiophene catenation chromophore extension. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2298-2314.	2.2	25

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37	New barrier encapsulation and lifetime assessment of printed organic photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 108-116.	6.2	30
38	Development of a High-Performance Donor–Acceptor Conjugated Polymer: Synergy in Materials and Device Optimization. <i>Chemistry of Materials</i> , 2016, 28, 3481-3487.	6.7	35
39	Reduced Recombination in High Efficiency Molecular Nematic Liquid Crystalline: Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600939.	19.5	68
40	Film morphology evolution during solvent vapor annealing of highly efficient small molecule donor/acceptor blends. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15511-15521.	10.3	35
41	Energy Migration in Organic Solar Concentrators with a Molecularly Insulated Perylene Diimide. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12952-12958.	3.1	60
42	Controlled Synthesis of Well-Defined Semiconducting Brush Polymers. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 403-413.	2.2	9
43	Reverse gravure coating for roll-to-roll production of organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 154-161.	6.2	46
44	Ultrafast Fabrication of Flexible Dye-Sensitized Solar Cells by Ultrasonic Spray-Coating Technology. <i>Scientific Reports</i> , 2015, 5, 14645.	3.3	32
45	Organic Photovoltaic Materials—Design, Synthesis and Scale-Up. <i>Chemical Record</i> , 2015, 15, 1006-1020.	5.8	7
46	One-pot selective synthesis of a fullerene bisadduct for organic solar cell applications. <i>Chemical Communications</i> , 2015, 51, 9837-9840.	4.1	20
47	Toward Large Scale Roll-to-Roll Production of Fully Printed Perovskite Solar Cells. <i>Advanced Materials</i> , 2015, 27, 1241-1247.	21.0	785
48	Effect of molecular weight on the properties and organic solar cell device performance of a donor–acceptor conjugated polymer. <i>Polymer Chemistry</i> , 2015, 6, 2312-2318.	3.9	70
49	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. <i>Nature Communications</i> , 2015, 6, 6013.	12.8	541
50	Solution stability of active materials for organic photovoltaics. <i>Solar Energy</i> , 2015, 113, 181-188.	6.1	11
51	Regioselective synthesis of fullerene multiadducts via tether-directed 1,3-dipolar cycloaddition. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10505-10510.	2.8	12
52	Charge Transfer in Single Chains of a Donor–Acceptor Conjugated Tri-Block Copolymer. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7266-7274.	2.6	10
53	Organic Solar Cells Using a High-Molecular-Weight Benzodithiophene–Benzothiadiazole Copolymer with an Efficiency of 9.4%. <i>Advanced Materials</i> , 2015, 27, 702-705.	21.0	188
54	Influence of moisture out-gassing from encapsulant materials on the lifetime of organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 485-491.	6.2	44

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55	Photophysics and charge transfer in donor-acceptor triblock copolymer photovoltaic materials. , 2014, , .		0
56	Thiazolyl substituted benzodithiophene copolymers: synthesis, properties and photovoltaic applications. Journal of Materials Chemistry C, 2014, 2, 1306-1313.	5.5	25
57	Benzotriazole-based donor-acceptor conjugated polymers with a broad absorption in the visible range. Polymer Chemistry, 2014, 5, 1258-1263.	3.9	26
58	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
59	Morphology Change and Improved Efficiency in Organic Photovoltaics via Hexa-peri-hexabenzocoronene Templates. ACS Applied Materials & Interfaces, 2014, 6, 8824-8835.	8.0	17
60	Continuous assembly of polymers via solid phase reactions. Chemical Science, 2014, 5, 3374-3380.	7.4	11
61	Synthesis and photovoltaic properties of thieno[3,2-b]thiophenyl substituted benzo[1,2-b:4,5-b ^{€2}]dithiophene copolymers. Polymer Chemistry, 2014, 5, 6710-6717.	3.9	10
62	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
63	Hydrogen bonding in bulk heterojunction solar cells: A case study. Scientific Reports, 2014, 4, 5701.	3.3	25
64	Organic photovoltaic modules fabricated by an industrial gravure printing proofer. Solar Energy Materials and Solar Cells, 2013, 109, 47-55.	6.2	103
65	Bulk Heterojunction Nanomorphology of Fluorenyl Hexa-peri-hexabenzocoronene-Fullerene Blend Films. ACS Applied Materials & Interfaces, 2013, 5, 11554-11562.	8.0	12
66	Continuous Flow Synthesis of Organic Electronic Materials - Case Studies in Methodology Translation and Scale-up. Australian Journal of Chemistry, 2013, 66, 151.	0.9	20
67	Photophysics and morphology of a polyfluorene donor-acceptor triblock copolymer for solar cells. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1705-1718.	2.1	6
68	Controlled synthesis of poly(3-hexylthiophene) in continuous flow. Beilstein Journal of Organic Chemistry, 2013, 9, 1492-1500.	2.2	34
69	Hexa-peri-hexabenzocoronene in organic electronics. Pure and Applied Chemistry, 2012, 84, 1047-1067.	1.9	84
70	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
71	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
72	Continuous flow synthesis of conjugated polymers. Chemical Communications, 2012, 48, 1598-1600.	4.1	52

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73	Liquid crystalline hexa-peri-hexabenzocoronene-diketopyrrolopyrrole organic dyes for photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 21131.	6.7	55
74	Synthesis of electron-poor hexa-peri-hexabenzocoronenes. <i>Chemical Communications</i> , 2012, 48, 8066.	4.1	47
75	Solution Processable Monosubstituted Hexa-peri-Hexabenzocoronene Self-Assembling Dyes. <i>Advanced Functional Materials</i> , 2012, 22, 2015-2026.	14.9	13
76	Inverted semi-transparent organic solar cells with spray coated, surfactant free polymer top-electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 118-123.	6.2	60
77	Continuous Flow Synthesis of Fullerene Derivatives. <i>Journal of Organic Chemistry</i> , 2011, 76, 3551-3556.	3.2	51
78	Dithienothiophene (DTT)-Based Dyes for Dye-Sensitized Solar Cells: Synthesis of 2,6-Dibromo-DTT. <i>Journal of Organic Chemistry</i> , 2011, 76, 4088-4093.	3.2	81
79	Fluorenyl Hexa-peri-Hexabenzocoronene-Dendritic Oligothiophene Hybrid Materials: Synthesis, Photophysical Properties, Self-Association Behaviour and Device Performance. <i>Chemistry - A European Journal</i> , 2011, 17, 5549-5560.	3.3	30
80	Solution Processable Fluorenyl Hexa-peri-Hexabenzocoronenes in Organic Field-Effect Transistors and Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 927-938.	14.9	109
81	The effect of molecule size and shape on free charge generation, transport and recombination in all-thiophene dendrimer:fullerene bulk heterojunctions. <i>Organic Electronics</i> , 2010, 11, 573-582.	2.6	26
82	A porphyrin-hexa-peri-hexabenzocoronene-porphyrin triad: synthesis, photophysical properties and performance in a photovoltaic device. <i>Journal of Materials Chemistry</i> , 2010, 20, 7005.	6.7	60
83	Ambipolar Hexa-peri-hexabenzocoronene~Fullerene Hybrid Materials. <i>Organic Letters</i> , 2010, 12, 5000-5003.	4.6	29
84	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Core~Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2010, 22, 457-466.	6.7	113
85	Synthesis, Photophysical, and Device Properties of Novel Dendrimers Based on a Fluorene~Hexabenzocoronene (FHBC) Core. <i>Organic Letters</i> , 2009, 11, 975-978.	4.6	46
86	Distinguishing Chain Growth Mechanisms in Metal-catalyzed Olefin Oligomerization and Polymerization Systems: C ₂ H ₄ /C ₂ D ₄ Co-oligomerization/Polymerization Experiments Using Chromium, Iron, and Cobalt Catalysts. <i>Organometallics</i> , 2009, 28, 7033-7040.	2.3	107
87	Zirconium Complexes Containing Tetradentate O,P,P,O Ligands: Ethylene and Propylene Polymerization Studies. <i>Organometallics</i> , 2008, 27, 5960-5967.	2.3	36
88	Polyfluorenes without Monoalkylfluorene Defects. <i>Journal of the American Chemical Society</i> , 2007, 129, 11910-11911.	13.7	140
89	Interface engineering for solid-state dye-sensitized nanocrystalline solar cells: the use of an organic redox cascade. <i>Chemical Communications</i> , 2006, , 535-537.	4.1	38
90	Facile Synthesis of 2-Arylpyrroles from 4-Oxo-butanoic Acids and Their Use in the Preparation of Bis(pyrrolyl)methanes. <i>Heterocycles</i> , 2006, 68, 1121.	0.7	8

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91	Discovery and Optimization of New Chromium Catalysts for Ethylene Oligomerization and Polymerization Aided by High-Throughput Screening. <i>Journal of the American Chemical Society</i> , 2005, 127, 11037-11046.	13.7	155
92	Experimental Evidence for Large Ring Metallacycle Intermediates in Polyethylene Chain Growth Using Homogeneous Chromium Catalysts. <i>Journal of the American Chemical Society</i> , 2005, 127, 10166-10167.	13.7	155
93	The surprisingly beneficial effect of soft donors on the performance of early transition metal olefin polymerisation catalysts. <i>Chemical Communications</i> , 2004, , 2174.	4.1	70
94	Discovery of a new family of chromium ethylene polymerisation catalysts using high throughput screening methodology. Electronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b202037h/ . <i>Chemical Communications</i> , 2002, , 1038-1039.	4.1	122
95	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. <i>Journal of Molecular Catalysis A</i> , 1999, 138, 37-52.	4.8	28
96	Determination of eltanolone in human plasma by high-performance liquid chromatography. <i>Biomedical Applications</i> , 1997, 694, 467-470.	1.7	1
97	Detection of ketorolac enantiomers in human plasma using enantioselective liquid chromatography. <i>Biomedical Applications</i> , 1994, 661, 165-167.	1.7	27
98	The structure of $\text{Na}_6\text{Zn}_3(\text{AsO}_4)_4 \cdot 3\text{H}_2\text{O}$ and its relationship to the garnet and other $\text{Ia}3\text{d}$ -derived structures. <i>Journal of Solid State Chemistry</i> , 1989, 82, 52-59.	2.9	11
99	Amphiphilic block-copolymers for morphology control in OSCs. , 0, , .		0
100	Block copolymer design for morphology control in organic photovoltaics. , 0, , .		0
101	Liquid Crystallinity as a pre-organisation motif for high efficiency, solid-state singlet fission. , 0, , .		0
102	Non-traditional Singlet Fission Materials. , 0, , .		0
103	Non-traditional Singlet Fission Materials. , 0, , .		0