Gregory C Welch

List of Publications by Year in Descending Order

144 papers	10,582 citations	44 h-index	102 g-index
163 ext. papers	11,479 ext. citations	7.6 avg, IF	6.55 L-index

#	Paper	IF	Citations
144	Green Solvent-Processible N-H-Functionalized Perylene Diimide Materials for Scalable Organic Photovoltaics.. *ACS Applied Materials & Interfaces*, **2022**, 14, 3103-3110	9.5	2
143	Promoting photocatalytic CO reduction through facile electronic modification of N-annulated perylene diimide rhenium bipyridine dyads.. *Chemical Science*, **2022**, 13, 1049-1059	9.4	1
142	3D Nanoscale Morphology Characterization of Ternary Organic Solar Cells.. *Small Methods*, **2022**, 6, e2100986	12.4	1
141	Air-Processed Organic Photovoltaics for Outdoor and Indoor Use Based upon a Tin Oxide-Perylene Diimide Electron Transporting Bilayer. *Advanced Materials Interfaces*, **2022**, 9, 2101918	4.6	3
140	Sidechain engineering of N-annulated perylene diimide molecules. *New Journal of Chemistry*, **2021**, 45, 21001-21005	3.6	2
139	Uphill and downhill charge generation from charge transfer to charge separated states in organic solar cells. *Journal of Materials Chemistry C*, **2021**, 9, 14463-14489	7.1	1
138	Zinc Oxide-Perylene Diimide Hybrid Electron Transport Layers for Air-Processed Inverted Organic Photovoltaic Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 49096-49103	9.5	8
137	Light manipulation using organic semiconducting materials for enhanced photosynthesis. *Cell Reports Physical Science*, **2021**, 2, 100390	6.1	2
136	Impact of Ring-Fusion on the Excited State Decay Pathways of N-Annulated Perylene Diimides. *Journal of Physical Chemistry C*, **2021**, 125, 10500-10515	3.8	1
135	Slot-Die Coating of All Organic/Polymer Layers for Large-Area Flexible OLEDs: Improved Device Performance with Interlayer Modification. *Advanced Materials Technologies*, **2021**, 6, 2100264	6.8	6
134	Organic light emitting diodes (OLEDs) with slot-die coated functional layers. *Materials Advances*, **2021**, 2, 628-645	3.3	3
133	Perylene diimide based non-fullerene acceptors: top performers and an emerging class featuring N-annulation. *Journal of Materials Chemistry A*, **2021**, 9, 6775-6789	13	17
132	Improved performance of solution processed OLEDs using N-annulated perylene diimide emitters with bulky side-chains. *Materials Advances*, **2021**, 2, 933-936	3.3	7
131	Hybrid Tetrameric Perylene Diimide Assemblies. *ChemSusChem*, **2021**, 14, 3511-3519	8.3	1
130	Lowering Electrocatalytic CO Reduction Overpotential Using N-Annulated Perylene Diimide Rhenium Bipyridine Dyads with Variable Tether Length. *Journal of the American Chemical Society*, **2021**, 143, 16849-16864	16.4	3
129	Water Compatible Direct (Hetero)arylation Polymerization of PPDT2FBT: A Pathway Towards Large-Scale Production of Organic Solar Cells. *Asian Journal of Organic Chemistry*, **2020**, 9, 1318-1325	3	11
128	Diketopyrrolopyrrole Derivatives Functionalized with N-Annulated PDI and Se-Annulated PDI by Direct (Hetero)Arylation Methods. *Asian Journal of Organic Chemistry*, **2020**, 9, 1291-1300	3	4

127	Synthesis, self-assembly, and air-stable radical anions of unconventional 6,7-bis-nitrated N-annulated perylene diimides. *Molecular Systems Design and Engineering*, **2020**, 5, 1181-1185	4.6	5
126	Indeno[1,2-b]thiophene End-capped Perylene Diimide: Should the 1,6-Regioisomers be systematically considered as a byproduct?. *Scientific Reports*, **2020**, 10, 3262	4.9	6
125	Near-IR absorption and photocurrent generation using a first-of-its-kind boron difluoride formazanate non-fullerene acceptor. *Materials Chemistry Frontiers*, **2020**, 4, 1643-1647	7.8	7
124	Solution processed red organic light-emitting-diodes using an N-annulated perylene diimide fluorophore. *Journal of Materials Chemistry C*, **2020**, 8, 2314-2319	7.1	29
123	Interlayer Engineering of Flexible and Large-Area Red Organic-Light-Emitting Diodes Based on an N-Annulated Perylene Diimide Dimer. *ACS Applied Electronic Materials*, **2020**, 2, 48-55	4	14
122	A NBI functionalized perylene diimide with strong red-light absorption for green solvent processed organic electronics. *Journal of Materials Chemistry C*, **2020**, 8, 9811-9815	7.1	7
121	Significant Photostability Enhancement of Inverted Organic Solar Cells by Inserting an N-Annulated Perylene Diimide (PDIN-H) between the ZnO Electron Extraction Layer and the Organic Active Layer. *ACS Applied Energy Materials*, **2020**, 3, 11655-11665	6.1	11
120	Atomic Precision Graphene Model Compound for Bright Electrochemiluminescence and Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2020**, 12, 51736-51743	9.5	10
119	Synthesis, characterization and use of benzothioxanthene imide based dimers. *Chemical Communications*, **2020**, 56, 10131-10134	5.8	4
118	Slot-Die-Coated Ternary Organic Photovoltaics for Indoor Light Recycling. *ACS Applied Materials & Interfaces*, **2020**, 12, 43684-43693	9.5	17
117	High open-circuit voltage roll-to-roll compatible processed organic photovoltaics. *Journal of Materials Chemistry C*, **2020**, 8, 13430-13438	7.1	18
116	Side-chain engineering of perylene diimide dimers: Impact on morphology and photovoltaic performance. *Nano Select*, **2020**, 1, 388-394	3.1	4
115	Acid dyeing for green solvent processing of solvent resistant semiconducting organic thin films. *Materials Horizons*, **2020**, 7, 2959-2969	14.4	15
114	Perylene Diimide Based Organic Photovoltaics with Slot-Die Coated Active Layers from Halogen-Free Solvents in Air at Room Temperature. *ACS Applied Materials & Interfaces*, **2019**, 11, 39010-39017	9.5	24
113	Ternary organic solar cells: using molecular donor or acceptor third components to increase open circuit voltage. *New Journal of Chemistry*, **2019**, 43, 10442-10448	3.6	22
112	Additive induced crystallization of a twisted perylene diimide dimer within a polymer matrix. *Soft Matter*, **2019**, 15, 5138-5146	3.6	9
111	Synthesis of aromatic imide tetramers relevant to organic electronics by direct (hetero)arylation. *New Journal of Chemistry*, **2019**, 43, 9333-9337	3.6	6
110	Electrocatalytic CO2 Reduction at Lower Overpotentials Using Iron(III) Tetra(meso-thienyl)porphyrins. *ACS Applied Energy Materials*, **2019**, 2, 4022-4026	6.1	16

109	A direct comparison of monomeric vs. dimeric and non-annulated vs. N-annulated perylene diimide electron acceptors for organic photovoltaics. *New Journal of Chemistry*, **2019**, 43, 5187-5195	3.6	16
108	A ring fused N-annulated PDI non-fullerene acceptor for high open circuit voltage solar cells processed from non-halogenated solvents. *Synthetic Metals*, **2019**, 250, 55-62	3.6	14
107	Ligand-centered electrochemical processes enable CO2 reduction with a nickel bis(triazapentadienyl) complex. *Sustainable Energy and Fuels*, **2019**, 3, 1172-1181	5.8	5
106	Development of Organic Dye-Based Molecular Materials for Use in Fullerene-Free Organic Solar Cells. *Chemical Record*, **2019**, 19, 989-1007	6.6	11
105	Interfacial ZnO Modification Using a Carboxylic Acid Functionalized N-Annulated Perylene Diimide for Inverted Type Organic Photovoltaics. *ACS Applied Electronic Materials*, **2019**, 1, 1590-1596	4	21
104	Boron-nitrogen substituted dihydroindeno[1,2-b]fluorene derivatives as acceptors in organic solar cells. *Chemical Communications*, **2019**, 55, 11095-11098	5.8	12
103	Screening Quinoxaline-Type Donor Polymers for Roll-to-Roll Processing Compatible Organic Photovoltaics. *ACS Applied Polymer Materials*, **2019**, 1, 2168-2176	4.3	13
102	Indoor Photovoltaics: Photoactive Material Selection, Greener Ink Formulations, and Slot-Die Coated Active Layers. *ACS Applied Materials & Interfaces*, **2019**, 11, 46017-46025	9.5	34
101	Harnessing Direct (Hetero)Arylation in Pursuit of a Saddle-Shaped Perylene Diimide Tetramer. *ACS Applied Energy Materials*, **2019**, 2, 8939-8945	6.1	9
100	Borane Incorporation in a Non-Fullerene Acceptor To Tune Steric and Electronic Properties and Improve Organic Solar Cell Performance. *ACS Applied Energy Materials*, **2019**, 2, 1229-1240	6.1	30
99	Organic solar cells based on anthracene-containing PPE–PPVs and non-fullerene acceptors. *Chemical Papers*, **2018**, 72, 1769-1778	1.9	5
98	Inverted P3HT:PC61BM organic solar cells incorporating a π-extended squaraine dye with H- and (or) J-aggregation. *Canadian Journal of Chemistry*, **2018**, 96, 703-711	0.9	2
97	Dithienophosphole-based molecular electron acceptors constructed using direct (hetero)arylation cross-coupling methods. *Journal of Materials Chemistry C*, **2018**, 6, 2148-2154	7.1	29
96	Bromination of the benzothioxanthene Bloc: toward new π-conjugated systems for organic electronic applications. *Journal of Materials Chemistry C*, **2018**, 6, 761-766	7.1	8
95	Combining Facile Synthetic Methods with Greener Processing for Efficient Polymer-Perylene Diimide Based Organic Solar Cells. *Small Methods*, **2018**, 2, 1800081	12.8	44
94	Direct (Hetero)Arylation for the Synthesis of Molecular Materials: Coupling Thieno[3,4-c]pyrrole-4,6-dione with Perylene Diimide to Yield Novel Non-Fullerene Acceptors for Organic Solar Cells. *Molecules*, **2018**, 23,	4.8	23
93	Direct (Hetero)Arylation Polymerization of a Spirobifluorene and a Dithienyl-Diketopyrrolopyrrole Derivative: New Donor Polymers for Organic Solar Cells. *Molecules*, **2018**, 23,	4.8	9
92	Synthesis of a Perylene Diimide Dimer with Pyrrolic N–H Bonds and N-Functionalized Derivatives for Organic Field-Effect Transistors and Organic Solar Cells. *European Journal of Organic Chemistry*, **2018**, 2018, 4592-4599	3.2	28

91	Donor or Acceptor? How Selection of the Rylene Imide End Cap Impacts the Polarity of -Conjugated Molecules for Organic Electronics. *ACS Applied Energy Materials*, **2018**, 1, 4906-4916	6.1	21
90	A tetrachlorinated molecular non-fullerene acceptor for high performance near-IR absorbing organic solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 9060-9064	7.1	16
89	Exploiting direct heteroarylation polymerization homocoupling defects for the synthesis of a molecular dimer. *New Journal of Chemistry*, **2018**, 42, 1617-1621	3.6	5
88	Optoelectronic engineering with organic dyes: utilizing squaraine and perylene diimide to access an electron-deficient molecule with near-IR absorption. *Chemical Papers*, **2018**, 72, 1629-1634	1.9	1
87	Benzyl and fluorinated benzyl side chains for perylene diimide non-fullerene acceptors. *Materials Chemistry Frontiers*, **2018**, 2, 2272-2276	7.8	12
86	Synthesis of Molecular Dyads and Triads Based Upon N-Annulated Perylene Diimide Monomers and Dimers. *European Journal of Organic Chemistry*, **2018**, 2018, 6933-6943	3.2	7
85	A tetrameric perylene diimide non-fullerene acceptor via unprecedented direct (hetero)arylation cross-coupling reactions. *Chemical Communications*, **2018**, 54, 11443-11446	5.8	20
84	Control and Characterization of Organic Solar Cell Morphology Through Variable-Pressure Solvent Vapor Annealing. *ACS Applied Energy Materials*, **2018**,	6.1	8
83	Toward a Universally Compatible Non-Fullerene Acceptor: Multi-Gram Synthesis, Solvent Vapor Annealing Optimization, and BDT-Based Polymer Screening. *Solar Rrl*, **2018**, 2, 1800143	7.1	21
82	Simply Complex: The Efficient Synthesis of an Intricate Molecular Acceptor for High-Performance Air-Processed and Air-Tested Fullerene-Free Organic Solar Cells. *Chemistry of Materials*, **2017**, 29, 1309-1314	9.6	82
81	N-Annulated perylene diimide dimers: acetylene linkers as a strategy for controlling structural conformation and the impact on physical, electronic, optical and photovoltaic properties. *Journal of Materials Chemistry C*, **2017**, 5, 2074-2083	7.1	52
80	Applying direct heteroarylation synthesis to evaluate organic dyes as the core component in PDI-based molecular materials for fullerene-free organic solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 11623-11633	13	58
79	Thienoisoindigo end-capped molecular donors for organic photovoltaics: Effect of the central -conjugated connector. *Dyes and Pigments*, **2017**, 145, 7-11	4.6	5
78	N-annulated perylene diimide dimers: the effect of thiophene bridges on physical, electronic, optical, and photovoltaic properties. *Sustainable Energy and Fuels*, **2017**, 1, 1137-1147	5.8	29
77	Optimized synthesis of -extended squaraine dyes relevant to organic electronics by direct (hetero)arylation and Sonogashira coupling reactions. *Organic and Biomolecular Chemistry*, **2017**, 15, 3310-3319	3.9	19
76	Fullerene-free polymer solar cells processed from non-halogenated solvents in air with PCE of 4.8. *Chemical Communications*, **2017**, 53, 1164-1167	5.8	52
75	An unsymmetrical non-fullerene acceptor: synthesis via direct heteroarylation, self-assembly, and utility as a low energy absorber in organic photovoltaic cells. *Chemical Communications*, **2017**, 53, 10168-10171	5.8	24
74	A non-fullerene acceptor with a diagnostic morphological handle for streamlined screening of donor materials in organic solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 16907-16913	13	31

73	Spectroscopic Engineering toward Near-Infrared Absorption of Materials Containing Perylene Diimide. *ChemPlusChem*, **2017**, 82, 1359-1364	2.8	14
72	Thiophene vs thiazole: Effect of the π-connector on the properties of phthalimide end-capped diketopyrrolopyrrole based molecular acceptors for organic photovoltaics. *Dyes and Pigments*, **2017**, 137, 576-583	4.6	19
71	Synthesis, Self-Assembly, and Solar Cell Performance of N-Annulated Perylene Diimide Non-Fullerene Acceptors. *Chemistry of Materials*, **2016**, 28, 7098-7109	9.6	166
70	Development of simple hole-transporting materials for perovskite solar cells. *Canadian Journal of Chemistry*, **2016**, 94, 352-359	0.9	6
69	Perylene diimide based all small-molecule organic solar cells: Impact of branched-alkyl side chains on solubility, photophysics, self-assembly, and photovoltaic parameters. *Organic Electronics*, **2016**, 35, 151-157	3.5	46
68	Understanding the morphology of solution processed fullerene-free small molecule bulk heterojunction blends. *Physical Chemistry Chemical Physics*, **2016**, 18, 12476-85	3.6	26
67	The Optimization of Direct Heteroarylation and Sonogashira Cross-Coupling Reactions as Efficient and Sustainable Synthetic Methods To Access π-Conjugated Materials with Near-Infrared Absorption. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 3504-3517	8.3	30
66	Synthesis and structure-property relationships of phthalimide and naphthalimide based organic π-conjugated small molecules. *Physical Chemistry Chemical Physics*, **2016**, 18, 14709-19	3.6	26
65	Development of low band gap molecular donors with phthalimide terminal groups for use in solution processed organic solar cells. *Dyes and Pigments*, **2016**, 132, 369-377	4.6	9
64	Effect of side chains on the electronic and photovoltaic properties of diketopyrrolopyrrole-based molecular acceptors. *Organic Electronics*, **2016**, 37, 479-484	3.5	22
63	Utility of a heterogeneous palladium catalyst for the synthesis of a molecular semiconductor via Stille, Suzuki, and direct heteroarylation cross-coupling reactions. *RSC Advances*, **2015**, 5, 26097-26106	3.7	50
62	Phthalimide-based π-conjugated small molecules with tailored electronic energy levels for use as acceptors in organic solar cells. *Journal of Materials Chemistry C*, **2015**, 3, 8904-8915	7.1	57
61	Key components to the recent performance increases of solution processed non-fullerene small molecule acceptors. *Journal of Materials Chemistry A*, **2015**, 3, 16393-16408	13	151
60	Facile synthesis of unsymmetrical and π-extended furan-diketopyrrolopyrrole derivatives through C–H direct (hetero)arylation using a heterogeneous catalyst system. *New Journal of Chemistry*, **2015**, 39, 6714-6717	3.6	24
59	A narrow band gap isoindigo based molecular donor for solution processed organic solar cells. *New Journal of Chemistry*, **2015**, 39, 5075-5079	3.6	15
58	Pivotal factors in solution-processed, non-fullerene, all small-molecule organic solar cell device optimization. *Organic Electronics*, **2015**, 27, 197-201	3.5	11
57	The structural evolution of an isoindigo-based non-fullerene acceptor for use in organic photovoltaics. *RSC Advances*, **2015**, 5, 80098-80109	3.7	40
56	Indoloquinoxaline as a terminal building block for the construction of π-conjugated small molecules relevant to organic electronics. *Dyes and Pigments*, **2015**, 123, 139-146	4.6	13

55	An electron-deficient small molecule accessible from sustainable synthesis and building blocks for use as a fullerene alternative in organic photovoltaics. *ChemPhysChem*, **2015**, 16, 1190-202	3.2	43
54	Unusual loss of electron mobility upon furan for thiophene substitution in a molecular semiconductor. *Organic Electronics*, **2015**, 18, 118-125	3.5	19
53	Design and synthesis of molecular donors for solution-processed high-efficiency organic solar cells. *Accounts of Chemical Research*, **2014**, 47, 257-70	24.3	428
52	Recent advances of non-fullerene, small molecular acceptors for solution processed bulk heterojunction solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 1201-1213	13	337
51	Synthesis of an H-aggregated thiophene□phthalimide based small molecule via microwave assisted direct arylation coupling reactions. *Dyes and Pigments*, **2014**, 102, 204-209	4.6	22
50	The Role of Solvent Additive Processing in High Performance Small Molecule Solar Cells. *Chemistry of Materials*, **2014**, 26, 6531-6541	9.6	54
49	Phthalimide□thiophene-based conjugated organic small molecules with high electron mobility. *Journal of Materials Chemistry C*, **2014**, 2, 2612-2621	7.1	24
48	Electron deficient diketopyrrolopyrrole dyes for organic electronics: synthesis by direct arylation, optoelectronic characterization, and charge carrier mobility. *Journal of Materials Chemistry A*, **2014**, 2, 4198-4207	13	75
47	A Combined Experimental and Theoretical Study of Conformational Preferences of Molecular Semiconductors. *Journal of Physical Chemistry C*, **2014**, 118, 15610-15623	3.8	50
46	Design and computational characterization of non-fullerene acceptors for use in solution-processable solar cells. *Journal of Physical Chemistry A*, **2014**, 118, 7939-51	2.8	33
45	High open circuit voltage organic solar cells based upon fullerene free bulk heterojunction active layers. *Canadian Journal of Chemistry*, **2014**, 92, 932-939	0.9	4
44	Towards environmentally friendly processing of molecular semiconductors. *Journal of Materials Chemistry A*, **2013**, 1, 11117	13	25
43	Impact of regiochemistry and isoelectronic bridgehead substitution on the molecular shape and bulk organization of narrow bandgap chromophores. *Journal of the American Chemical Society*, **2013**, 135, 2298-305	16.4	101
42	Formation of interfacial traps upon surface protonation in small molecule solution processed bulk heterojunctions probed by photoelectron spectroscopy. *Journal of Materials Chemistry C*, **2013**, 1, 6223	7.1	29
41	Optimization of energy levels by molecular design: evaluation of bis-diketopyrrolopyrrole molecular donor materials for bulk heterojunction solar cells. *Energy and Environmental Science*, **2013**, 6, 952	35.4	109
40	Ab Initio Study of a Molecular Crystal for Photovoltaics: Light Absorption, Exciton and Charge Carrier Transport. *Journal of Physical Chemistry C*, **2013**, 117, 4920-4930	3.8	44
39	Effect of Bridging Atom Identity on the Morphological Behavior of Solution-Processed Small Molecule Bulk Heterojunction Photovoltaics. *Chemistry of Materials*, **2013**, 25, 1688-1698	9.6	47
38	Understanding the Role of Thermal Processing in High Performance Solution Processed Small Molecule Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2013**, 3, 356-363	21.8	49

37	Photoinduced charge generation in a molecular bulk heterojunction material. *Journal of the American Chemical Society*, **2012**, 134, 19828-38	16.4	131
36	Solar cell efficiency, self-assembly, and dipole-dipole interactions of isomorphic narrow-band-gap molecules. *Journal of the American Chemical Society*, **2012**, 134, 16597-606	16.4	272
35	Ni, Pd, Pt, and Ru complexes of phosphine-borate ligands. *Inorganic Chemistry*, **2012**, 51, 4711-21	5.1	25
34	Improvement of interfacial contacts for new small-molecule bulk-heterojunction organic photovoltaics. *Advanced Materials*, **2012**, 24, 5368-73	24	123
33	Insights into π-conjugated small molecule neat films and blends as determined through photoconductivity. *ACS Nano*, **2012**, 6, 8735-45	16.7	31
32	Self-vertical phase separation study of nanoparticle/polymer solar cells by introducing fluorinated small molecules. *Chemical Communications*, **2012**, 48, 7250-2	5.8	19
31	Influence of Processing Additives on Charge-Transfer Time Scales and Sound Velocity in Organic Bulk Heterojunction Films. *Journal of Physical Chemistry Letters*, **2012**, 3, 1253-7	6.4	35
30	Pyridalthiadiazole-based narrow band gap chromophores. *Journal of the American Chemical Society*, **2012**, 134, 3766-79	16.4	147
29	Role of trace impurities in the photovoltaic performance of solution processed small-molecule bulk heterojunction solar cells. *Chemical Science*, **2012**, 3, 2103	9.4	80
28	Color Tuning in Polymer Light-Emitting Diodes with Lewis Acids. *Angewandte Chemie*, **2012**, 124, 7613-7616	5.6	32
27	Color tuning in polymer light-emitting diodes with Lewis acids. *Angewandte Chemie - International Edition*, **2012**, 51, 7495-8	16.4	99
26	Solution-processed small-molecule solar cells with 6.7% efficiency. *Nature Materials*, **2011**, 11, 44-8	27	1359
25	Regioregular pyridal[2,1,3]thiadiazole π-conjugated copolymers. *Journal of the American Chemical Society*, **2011**, 133, 18538-41	16.4	191
24	Lewis acid adducts of narrow band gap conjugated polymers. *Journal of the American Chemical Society*, **2011**, 133, 4632-44	16.4	182
23	Metal-free catalytic hydrogenation of polar substrates by frustrated Lewis pairs. *Inorganic Chemistry*, **2011**, 50, 12338-48	5.1	271
22	A dithienosilole-benzooxadiazole donor-acceptor copolymer for utility in organic solar cells. *Small*, **2011**, 7, 1422-6	11	23
21	A modular molecular framework for utility in small-molecule solution-processed organic photovoltaic devices. *Journal of Materials Chemistry*, **2011**, 21, 12700		169
20	Heterolytic cleavage of disulfides by frustrated Lewis pairs. *Inorganic Chemistry*, **2009**, 48, 9910-7	5.1	74

19	Sterically hindered phosphine and phosphonium-based activators and additives for olefin polymerization. *Dalton Transactions*, **2009**, 8555-61	4.3	10
18	Reactions of phosphines with electron deficient boranes. *Dalton Transactions*, **2009**, 1559-70	4.3	81
17	Hafnium Phosphinimide complexes. *Canadian Journal of Chemistry*, **2009**, 87, 1163-1172	0.9	5
16	Band gap control in conjugated oligomers via Lewis acids. *Journal of the American Chemical Society*, **2009**, 131, 10802-3	16.4	126
15	Thermal rearrangement of phosphine-B(C6F5)3 adducts. *Inorganic Chemistry*, **2008**, 47, 1904-6	5.1	53
14	Tuning Lewis acidity using the reactivity of "frustrated Lewis pairs": facile formation of phosphine-boranes and cationic phosphonium-boranes. *Dalton Transactions*, **2007**, 3407-14	4.3	250
13	Reactivity of "frustrated Lewis pairs": three-component reactions of phosphines, a borane, and olefins. *Angewandte Chemie - International Edition*, **2007**, 46, 4968-71	16.4	356
12	Metal-free catalytic hydrogenation. *Angewandte Chemie - International Edition*, **2007**, 46, 8050-3	16.4	520
11	Facile heterolytic cleavage of dihydrogen by phosphines and boranes. *Journal of the American Chemical Society*, **2007**, 129, 1880-1	16.4	699
10	Phosphonium-borate zwitterions, anionic phosphines, and dianionic phosphonium-dialkoxides via tetrahydrofuran ring-opening reactions. *Inorganic Chemistry*, **2006**, 45, 478-80	5.1	98
9	Reversible, metal-free hydrogen activation. *Science*, **2006**, 314, 1124-6	33.3	1552
8	Pyridine and phosphine reactions with [CPh3][B(C6F5)4]. *Inorganica Chimica Acta*, **2006**, 359, 3066-3071	2.7	68
7	Neutral and Cationic Organoaluminum Complexes Utilizing a Novel Anilido Phosphinimine Ancillary Ligand. *Organometallics*, **2004**, 23, 1811-1818	3.8	48
6	A New Chelating Anilido-Imine Donor Related to Diketiminato Ligands for Stabilization of Organoyttrium Cations. *Organometallics*, **2003**, 22, 1577-1579	3.8	145
5	Ambient Condition, Three-Layer Slot-Die Coated Organic Photovoltaics with PCE of 10%. *Advanced Materials Interfaces*,2101418	4.6	4
4	A triazatruxene-based molecular dyad for single-component organic solar cells2, 3		3
3	Photodeposited Polyamorphous CuOx Hole-Transport Layers in Organic Photovoltaics. *ACS Applied Energy Materials*,	6.1	2
2	Slot-Die Coated Organic UV Indicators and Filters Processed from Green Solvents. *Advanced Sustainable Systems*,2100055	5.9	1

1 An air-stable n-type bay-and-headland substituted bis-cyano NHI functionalized perylene diimide for printed electronics. *Journal of Materials Chemistry C*, 7.1 1