

Stephen Barlow

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

318 papers	24,106 citations	70 h-index	146 g-index
349 ext. papers	26,347 ext. citations	9.6 avg, IF	6.78 L-index

#	Paper	IF	Citations
3 ¹⁸	Hybrid Organic Lead Iodides: Role of Organic Cation Structure in Obtaining 1D Chains of Face-Sharing Octahedra vs 2D Perovskites. <i>Chemistry of Materials</i> , 2022 , 34, 935-946	9.6	2
3 ¹⁷	Controlled n-Doping of Naphthalene Diimide-Based Two-Dimensional Polymers. <i>Advanced Materials</i> , 2021 , e2101932	24	5
3 ¹⁶	Reactivity of an air-stable dihydrobenzimidazole n-dopant with organic semiconductor molecules. <i>CheM</i> , 2021 , 7, 1050-1065	16.2	9
3 ¹⁵	Electron spin resonance resolves intermediate triplet states in delayed fluorescence. <i>Nature Communications</i> , 2021 , 12, 4532	17.4	9
3 ¹⁴	A naphthalene diimide side-chain polymer as an electron-extraction layer for stable perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 450-457	7.8	4
3 ¹³	Persistent Conjugated Backbone and Disordered Lamellar Packing Impart Polymers with Efficient n-Doping and High Conductivities. <i>Advanced Materials</i> , 2021 , 33, e2005946	24	46
3 ¹²	The Interlayer Method: A Universal Tool for Energy Level Alignment Tuning at Inorganic/Organic Semiconductor Heterojunctions. <i>Advanced Functional Materials</i> , 2021 , 31, 2010174	15.6	11
3 ¹¹	Synthesis, structures, and reactivity of isomers of [RuCp*(1,4-(MeN)CH)]. <i>Dalton Transactions</i> , 2021 , 50, 13020-13030	4.3	0
3 ¹⁰	A polymeric bis(di-p-anisylamino)fluorene hole-transport material for stable n-i-p perovskite solar cells. <i>New Journal of Chemistry</i> , 2021 , 45, 15017-15021	3.6	1
3 ⁰⁹	Understanding how Lewis acids dope organic semiconductors: a "complex" story. <i>Chemical Science</i> , 2021 , 12, 7012-7022	9.4	11
3 ⁰⁸	Disentangling Bulk and Interface Phenomena in a Molecularly Doped Polymer Semiconductor. <i>Advanced Optical Materials</i> , 2021 , 9, 2002039	8.1	1
3 ⁰⁷	High-Efficiency Ion-Exchange Doping of Conducting Polymers. <i>Advanced Materials</i> , 2021 , e2102988	24	16
3 ⁰⁶	Nanosecond-Pulsed Perovskite Light-Emitting Diodes at High Current Density. <i>Advanced Materials</i> , 2021 , 33, e2104867	24	6
3 ⁰⁵	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable p-i-n perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9347-9353	13	2
3 ⁰⁴	Nonlinear photocarrier dynamics and the role of shallow traps in mixed-halide mixed-cation hybrid perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8204-8212	7.1	3
3 ⁰³	Highly air-stable, n-doped conjugated polymers achieved by dimeric organometallic dopants. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4105-4111	7.1	3
3 ⁰²	A Naphthalene Diimide Covalent Organic Framework: Comparison of Cathode Performance in Lithium-Ion Batteries with Amorphous Cross-linked and Linear Analogues, and Its Use in Aqueous Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 350-356	6.1	10

301	Cross-Linking of Doped Organic Semiconductor Interlayers for Organic Solar Cells: Potential and Challenges.. <i>ACS Applied Energy Materials</i> , 2021 , 4, 14458-14466	6.1	2
300	Highly Conjugated, Fused-Ring, Quadrupolar Organic Chromophores with Large Two-Photon Absorption Cross-Sections in the Near-Infrared. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4367-4378	2.8	12
299	Structural Diversity in 2,2'-(Naphthalene-1,8:4,5-bis(dicarboximide)-N,N'-diyl)-bis(ethylammonium) Iodoplumbates. <i>Inorganic Chemistry</i> , 2020 , 59, 8070-8080	5.1	9
298	Thermal Management Enables Bright and Stable Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e2000752	24	71
297	Exciton-band tuning induced by the width of the cation in 2D lead iodide perovskite hybrids. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2023-2028	7.8	4
296	Quantitative Analysis of Doping-Induced Polarons and Charge-Transfer Complexes of Poly(3-hexylthiophene) in Solution. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7694-7708	3.4	22
295	n-Doping of a Low-Electron-Affinity Polymer Used as an Electron-Transport Layer in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2000328	15.6	7
294	Ordered Donor-Acceptor Complex Formation and Electron Transfer in Co-deposited Films of Structurally Dissimilar Molecules. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11023-11031	3.8	3
293	Optically Pumped Lasing from Hybrid Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020 , 8, 1901297	8.1	27
292	Surface Functionalization of Black Phosphorus with a Highly Reducing Organoruthenium Complex: Interface Properties and Enhanced Photoresponsivity of Photodetectors. <i>Chemistry - A European Journal</i> , 2020 , 26, 6576-6582	4.8	3
291	Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 783-791	16.4	90
290	Naphthalenediimide Cations Inhibit 2D Perovskite Formation and Facilitate Subpicosecond Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24379-24390	3.8	9
289	New Mechanistic Insights into the Formation of Imine-Linked Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18637-18644	16.4	30
288	UV-to-IR Absorption of Molecularly p-Doped Polythiophenes with Alkyl and Oligoether Side Chains: Experiment and Interpretation Based on Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11280-11293	3.4	24
287	High Thermoelectric Power Factor of Poly(3-hexylthiophene) through In-Plane Alignment and Doping with a Molybdenum Dithiolene Complex. <i>Macromolecules</i> , 2020 , 53, 6314-6321	5.5	22
286	Electron transport in a sequentially doped naphthalene diimide polymer. <i>Materials Advances</i> , 2020 , 1, 1829-1834	3.3	9
285	Thermally Activated Delayed Fluorescence Sensitization for Highly Efficient Blue Fluorescent Emitters. <i>Advanced Functional Materials</i> , 2020 , 30, 2005898	15.6	11
284	A photo-crosslinkable bis-triarylamine side-chain polymer as a hole-transport material for stable perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 190-198	5.8	15

283	Phosphorescent and TADF polymers and dendrimers in solution-processed self-host organic light-emitting diodes: structure analysis and design perspectives. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1699-1721	7.8	20
282	Degenerate electron-doping in two-dimensional tungsten diselenide with a dimeric organometallic reductant. <i>Materials Today</i> , 2019 , 30, 26-33	21.8	8
281	Understanding the Effects of Molecular Dopant on n-Type Organic Thermoelectric Properties. <i>Advanced Energy Materials</i> , 2019 , 9, 1900817	21.8	77
280	Bis(tercarbazole) pyrene and tetrahydropyrene derivatives: photophysical and electrochemical properties, theoretical modeling, and OLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5009-5018	7.1	10
279	Host-Free Yellow-Green Organic Light-Emitting Diodes with External Quantum Efficiency over 20% Based on a Compound Exhibiting Thermally Activated Delayed Fluorescence. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12693-12698	9.5	21
278	(4NPEA)PbI (4NPEA = 4-Nitrophenylethylammonium): Structural, NMR, and Optical Properties of a 3D Corrugated 2D Hybrid Perovskite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4521-4525	16.4	29
277	Molecular-Reductant-Induced Control of a Graphene/Organic Interface for Electron Injection. <i>Chemistry of Materials</i> , 2019 , 31, 6624-6632	9.6	8
276	Phosphonic Acid Modification of the Electron Selective Contact: Interfacial Effects in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2402-2408	6.1	19
275	Structures of (4-Y-C ₆ H ₄ CH ₂ NH ₃) ₂ PbI ₄ {Y = H, F, Cl, Br, I}: Tuning of Hybrid Organic Inorganic Perovskite Structures from Ruddlesden-Popper to Dion-Jacobson Limits. <i>Chemistry of Materials</i> , 2019 , 31, 6145-6153	9.6	36
274	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. <i>Energy and Environmental Science</i> , 2019 , 12, 3063-3073	35.4	77
273	Charge-Transport Properties of F6TNAP-Based Charge-Transfer Cocrystals. <i>Advanced Functional Materials</i> , 2019 , 29, 1904858	15.6	23
272	Organometallic hydride-transfer agents as reductants for organic semiconductor molecules. <i>Inorganica Chimica Acta</i> , 2019 , 489, 67-77	2.7	3
271	Chemical Stabilities of the Lowest Triplet State in Aryl Sulfones and Aryl Phosphine Oxides Relevant to OLED Applications. <i>Chemistry of Materials</i> , 2019 , 31, 1507-1519	9.6	19
270	Predicting the yield of ion pair formation in molecular electrical doping: redox-potentials versus ionization energy/electron affinity. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13839-13848	7.1	11
269	Ruthenium pentamethylcyclopentadienyl mesitylene dimer: a sublimable n-dopant and electron buffer layer for efficient n-i-p perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25796-25801	13	4
268	Enhanced Thermoelectric Power Factor of Tensile Drawn Poly(3-hexylthiophene). <i>ACS Macro Letters</i> , 2019 , 8, 70-76	6.6	39
267	Positional Effects from π -Bonded Platinum(II) on Intersystem Crossing Rates in Perylenediimide Complexes: Synthesis, Structures, and Photophysical Properties. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13848-13862	3.8	13
266	The role of fluorine-substitution on the π -bridge in constructing effective thermally activated delayed fluorescence molecules. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5536-5541	7.1	24

265	Direct Effect of Dielectric Surface Energy on Carrier Transport in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15943-15951	9.5	24
264	Design of Near-Infrared-Absorbing Unsymmetrical Polymethine Dyes with Large Quadratic Hyperpolarizabilities. <i>Chemistry of Materials</i> , 2018 , 30, 3410-3418	9.6	26
263	A blue thermally activated delayed fluorescence emitter developed by appending a fluorene moiety to a carbazole donor with meta-linkage for high-efficiency OLEDs. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 917-922	7.8	31
262	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	1634
261	Electrode Work Function Engineering with Phosphonic Acid Monolayers and Molecular Acceptors: Charge Redistribution Mechanisms. <i>Advanced Functional Materials</i> , 2018 , 28, 1704438	15.6	18
260	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using C ₆₀ Functionalization. <i>Chemistry of Materials</i> , 2018 , 30, 309-313	9.6	65
259	Surface modified fullerene electron transport layers for stable and reproducible flexible perovskite solar cells. <i>Nano Energy</i> , 2018 , 49, 324-332	17.1	36
258	Controllable, Wide-Ranging n-Doping and p-Doping of Monolayer Group 6 Transition-Metal Disulfides and Diselenides. <i>Advanced Materials</i> , 2018 , 30, e1802991	24	58
257	High performance blue-emitting organic light-emitting diodes from thermally activated delayed fluorescence: A guest/host ratio study. <i>Journal of Applied Physics</i> , 2018 , 124, 055501	2.5	21
256	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 741-747	4.6	7
255	Dopant Diffusion in Sequentially Doped Poly(3-hexylthiophene) Studied by Infrared and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14518-14527	3.8	22
254	Effects of meso-M(PPh ₃) ₂ Cl (M = Pd, Ni) substituents on the linear and third-order nonlinear optical properties of chalcogenopyrylium-terminated heptamethines in solution and solid states. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3613-3620	7.1	11
253	Tunable Third-Harmonic Generation from Polaritons in the Ultrastrong Coupling Regime. <i>ACS Photonics</i> , 2018 , 5, 119-125	6.3	53
252	Control of Singlet Emission Energy in a Diphenyloxadiazole Containing Fluorophore Leading To Thermally Activated Delayed Fluorescence. <i>ACS Omega</i> , 2018 , 3, 14918-14923	3.9	4
251	Origin of the Spacing Change upon Doping of Semiconducting Polymers. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27983-27990	3.8	16
250	Linear and Third-Order Nonlinear Optical Properties of Chalcogenopyrylium-Terminated Heptamethine Dyes with Rigid, Bulky Substituents. <i>Advanced Functional Materials</i> , 2018 , 28, 1804073	15.6	11
249	Hole Transport in Low-Donor-Content Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5496-5501	6.4	28
248	Effect of the Number and Substitution Pattern of Carbazole Donors on the Singlet and Triplet State Energies in a Series of Carbazole-Oxadiazole Derivatives Exhibiting Thermally Activated Delayed Fluorescence. <i>Chemistry of Materials</i> , 2018 , 30, 6389-6399	9.6	14

247	Absorption Tails of Donor:C Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1699-1704	16.4	55
246	Electron Transport and Nanomorphology in Solution-Processed Polymeric Semiconductor n-Doped with an Air-Stable Organometallic Dimer. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600546	6.4	13
245	Comparison of the Optical and Electrochemical Properties of Bi(perylenediimide)s Linked through Ortho and Bay Positions. <i>ACS Omega</i> , 2017 , 2, 377-385	3.9	33
244	Crystal structure of 5,6-bis(9H-carbazol-9-yl)benzo[c][1,2,5]thiadiazole: distortion from a hypothetical higher-symmetry structure. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017 , 73, 319-324	0.8	0
243	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , 2017 , 2,	62.3	362
242	Reduction of the Work Function of Gold by N-Heterocyclic Carbenes. <i>Chemistry of Materials</i> , 2017 , 29, 3403-3411	9.6	50
241	Hybrid Doping of Few-Layer Graphene via a Combination of Intercalation and Surface Doping. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20020-20028	9.5	9
240	Facile Doping and Work-Function Modification of Few-Layer Graphene Using Molecular Oxidants and Reductants. <i>Advanced Functional Materials</i> , 2017 , 27, 1602004	15.6	22
239	Intermediate-Sized Conjugated Donor Molecules for Organic Solar Cells: Comparison of Benzodithiophene and Benzobisthiazole-Based Cores. <i>Chemistry of Materials</i> , 2017 , 29, 7880-7887	9.6	14
238	Molecular Doping of the Hole-Transporting Layer for Efficient, Single-Step-Deposited Colloidal Quantum Dot Photovoltaics. <i>ACS Energy Letters</i> , 2017 , 2, 1952-1959	20.1	39
237	Doping-induced carrier profiles in organic semiconductors determined from capacitive extraction-current transients. <i>Scientific Reports</i> , 2017 , 7, 5397	4.9	11
236	Solution-Processed Doping of Trilayer WSe ₂ with Redox-Active Molecules. <i>Chemistry of Materials</i> , 2017 , 29, 7296-7304	9.6	22
235	Efficient and Stable Perovskite Solar Cells Using Molybdenum Tris(dithiolene)s as p-Dopants for Spiro-OMeTAD. <i>ACS Energy Letters</i> , 2017 , 2, 2044-2050	20.1	63
234	Ultrafast Long-Range Charge Separation in Nonfullerene Organic Solar Cells. <i>ACS Nano</i> , 2017 , 11, 12473-12481	16.7	159
233	High Conductivity in a Nonplanar n-Doped Ambipolar Semiconducting Polymer. <i>Chemistry of Materials</i> , 2017 , 29, 9742-9750	9.6	35
232	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. <i>Nature Materials</i> , 2017 , 16, 1209-1215	27	120
231	Electric-Field-Controlled Dopant Distribution in Organic Semiconductors. <i>Advanced Materials</i> , 2017 , 29, 1701466	24	21
230	Surface Modification of Indium Oxide with Functionalized Perylene Diimides: Characterization of Orientation, Electron-Transfer Kinetics and Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20040-20048	3.8	29

229	Influence of Molecular Aggregation on Electron Transfer at the Perylene Diimide/Indium-Tin Oxide Interface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34089-34097	9.5	10
228	Comparison of 3D non-fullerene acceptors for organic photovoltaics based on naphthalene diimide and perylene diimide-substituted 9,9'-bifluorenylidene. <i>RSC Advances</i> , 2016 , 6, 70493-70500	3.7	26
227	Controlled n-Type Doping of Carbon Nanotube Transistors by an Organorhodium Dimer. <i>Nano Letters</i> , 2016 , 16, 4329-34	11.5	40
226	Mixed-Valence Cations of Di(carbazol-9-yl) Biphenyl, Tetrahydropyrene, and Pyrene Derivatives. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3156-3166	3.8	17
225	C-H-Activated Direct Arylation of Strong Benzothiadiazole and Quinoxaline-Based Electron Acceptors. <i>Journal of Organic Chemistry</i> , 2016 , 81, 360-70	4.2	29
224	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. <i>Advanced Functional Materials</i> , 2016 , 26, 2493-2502	15.6	25
223	Phosphonic Acids for Interfacial Engineering of Transparent Conductive Oxides. <i>Chemical Reviews</i> , 2016 , 116, 7117-58	68.1	135
222	Synthesis, characterization, and crystal structures of molybdenum complexes of unsymmetrical electron-poor dithiolene ligands. <i>Polyhedron</i> , 2016 , 116, 88-95	2.7	21
221	Impact of a Low Concentration of Dopants on the Distribution of Gap States in a Molecular Semiconductor. <i>Chemistry of Materials</i> , 2016 , 28, 2677-2684	9.6	27
220	Ultra-low p-doping of poly(3-hexylthiophene) and its impact on polymer aggregation and photovoltaic performance. <i>Organic Photonics and Photovoltaics</i> , 2016 , 4,	5	3
219	A Study on Reducing Contact Resistance in Solution-Processed Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24744-52	9.5	55
218	Remote Molecular Doping of Colloidal Quantum Dot Photovoltaics. <i>ACS Energy Letters</i> , 2016 , 1, 922-930	20.1	34
217	Facile Incorporation of Pd(PPh ₃) ₂ Hal Substituents into Polymethines, Merocyanines, and Perylene Diimides as a Means of Suppressing Intermolecular Interactions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10112-5	16.4	20
216	Dimers of Nineteen-Electron Sandwich Compounds: An Electrochemical Study of the Kinetics of Their Formation. <i>Organometallics</i> , 2015 , 34, 3706-3712	3.8	4
215	Investigation of p-dopant diffusion in polymer films and bulk heterojunctions: Stable spatially-confined doping for all-solution processed solar cells. <i>Organic Electronics</i> , 2015 , 23, 151-157	3.5	36
214	Top-gate organic field-effect transistors fabricated on shape-memory polymer substrates 2015 ,		2
213	Heteroannulated acceptors based on benzothiadiazole. <i>Materials Horizons</i> , 2015 , 2, 22-36	14.4	94
212	n-Dopants Based on Dimers of Benzimidazoline Radicals: Structures and Mechanism of Redox Reactions. <i>Chemistry - A European Journal</i> , 2015 , 21, 10878-85	4.8	23

211	Dopant controlled trap-filling and conductivity enhancement in an electron-transport polymer. <i>Applied Physics Letters</i> , 2015 , 106, 163301	3.4	49
210	Organometallic dimers: application to work-function reduction of conducting oxides. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4320-6	9.5	20
209	Controlled doping of large-area trilayer MoS ₂ with molecular reductants and oxidants. <i>Advanced Materials</i> , 2015 , 27, 1175-81	24	155
208	Enhanced Charge-Carrier Injection and Collection Via Lamination of Doped Polymer Layers p-Doped with a Solution-Processible Molybdenum Complex. <i>Advanced Functional Materials</i> , 2014 , 24, 2197-2204	15.6	70
207	Synthesis, crystal structures, and redox behavior of some pentamethylcyclopentadienyl arene ruthenium salts. <i>Journal of Organometallic Chemistry</i> , 2014 , 751, 314-320	2.3	8
206	Phosphorescent light-emitting diodes using triscarbazole/bis(oxadiazole) hosts: comparison of homopolymer blends and random and block copolymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6743	7.1	11
205	Effective solution- and vacuum-processed n-doping by dimers of benzimidazoline radicals. <i>Advanced Materials</i> , 2014 , 26, 4268-72	24	114
204	Tetracyano isoindigo small molecules and their use in n-channel organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19345-50	3.6	14
203	Polymethine materials with solid-state third-order optical susceptibilities suitable for all-optical signal-processing applications. <i>Materials Horizons</i> , 2014 , 1, 577-581	14.4	51
202	Nonlinear optical pulse suppression via ultrafast photoinduced electron transfer in an aggregated perylene diimide/oligothiophene molecular triad. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 110-21	2.8	14
201	Molecular doping and tuning threshold voltage in 6,13-bis(triisopropylsilyl)ethynyl)pentacene/polymer blend transistors. <i>Applied Physics Letters</i> , 2014 , 105, 063301	3.4	27
200	Dimers of nineteen-electron sandwich compounds: crystal and electronic structures, and comparison of reducing strengths. <i>Chemistry - A European Journal</i> , 2014 , 20, 15385-94	4.8	35
199	Design of Organic Chromophores for All-Optical Signal Processing Applications. <i>Chemistry of Materials</i> , 2014 , 26, 549-560	9.6	102
198	Production of heavily n- and p-doped CVD graphene with solution-processed redox-active metal-organic species. <i>Materials Horizons</i> , 2014 , 1, 111-115	14.4	59
197	2-Bromo perylene diimide: synthesis using CBr ₄ activation and use in the synthesis of bis(perylenediimide) donor electron-transport materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5093	7.1	32
196	High-Performance n-Channel Thin-Film Field-Effect Transistors Based on a Nanowire-Forming Polymer. <i>Advanced Functional Materials</i> , 2013 , 23, 2060-2071	15.6	40
195	Mechanistic study on the solution-phase n-doping of 1,3-dimethyl-2-aryl-2,3-dihydro-1H-benzimidazole derivatives. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15018-25	16.4	159
194	Dipolar Ferrocene and Ruthenocene Second-Order Nonlinear Optical Chromophores: A Time-Dependent Density Functional Theory Investigation of Their Absorption Spectra. <i>Organometallics</i> , 2013 , 32, 6061-6068	3.8	37

193	Controllable direct arylation: fast route to symmetrical and unsymmetrical 4,7-diaryl-5,6-difluoro-2,1,3-benzothiadiazole derivatives for organic optoelectronic materials. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16376-9	16.4	113
192	Efficient blue-emitting electrophosphorescent organic light-emitting diodes using 2-(3,5-di(carbazol-9-yl)phenyl)-5-phenyl-1,3,4-oxadiazole as an ambipolar host. <i>RSC Advances</i> , 2013 , 3, 23514	3.7	9
191	Perylene diimide copolymers with dithienothiophene and dithienopyrrole: Use in n-channel and ambipolar field-effect transistors. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1550-1558	2.5	19
190	The role of bridges in high-efficiency DSCs based on unsymmetrical squaraines. <i>Chemistry - A European Journal</i> , 2013 , 19, 1819-27	4.8	90
189	Crosslinking using rapid thermal processing for the fabrication of efficient solution-processed phosphorescent organic light-emitting diodes. <i>Advanced Materials</i> , 2013 , 25, 1739-44	24	60
188	Bis(carbazolyl) derivatives of pyrene and tetrahydropyrene: synthesis, structures, optical properties, electrochemistry, and electroluminescence. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1638	7.1	72
187	Reduction of contact resistance by selective contact doping in fullerene n-channel organic field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 102, 153303	3.4	43
186	Bis(naphthalene diimide) derivatives with mono- and dicarbonyl-fused tricyclic heterocyclic bridges as electron-transport materials 2013 , 1, 7-15		8
185	Fluorescent detection of anions by dibenzophenazine-based sensors. <i>Tetrahedron Letters</i> , 2012 , 53, 661-665		37
184	Complementary-like inverters based on an ambipolar solution-processed molecular bis(naphthalene diimide)-dithienopyrrole derivative. <i>Organic Electronics</i> , 2012 , 13, 1166-1170	3.5	26
183	Synthesis and characterization of naphthalene diimide/diethynylbenzene copolymers. <i>Polymer</i> , 2012 , 53, 1072-1078	3.9	20
182	n-Doping of organic electronic materials using air-stable organometallics. <i>Advanced Materials</i> , 2012 , 24, 699-703	24	138
181	Solution doping of organic semiconductors using air-stable n-dopants. <i>Applied Physics Letters</i> , 2012 , 100, 083305	3.4	76
180	Characterisation of a dipolar chromophore with third-harmonic generation applications in the near-IR. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4371		15
179	n-Doping of organic electronic materials using air-stable organometallics: a mechanistic study of reduction by dimeric sandwich compounds. <i>Chemistry - A European Journal</i> , 2012 , 18, 14760-72	4.8	51
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