

# Seth R Marder

## List of Publications by Year in descending order

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339  
papers

32,600  
citations

7087

78  
h-index

5249

165  
g-index

342  
all docs

342  
docs citations

342  
times ranked

26391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	2,163
2	Design of Organic Molecules with Large Two-Photon Absorption Cross Sections. , 1998, 281, 1653-1656.		2,047
3	A Universal Method to Produce Low-Work Function Electrodes for Organic Electronics. <i>Science</i> , 2012, 336, 327-332.	6.0	1,878
4	Rylene and Related Diimides for Organic Electronics. <i>Advanced Materials</i> , 2011, 23, 268-284.	11.1	1,548
5	A High-Mobility Electron-Transport Polymer with Broad Absorption and Its Use in Field-Effect Transistors and All-Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2007, 129, 7246-7247.	6.6	1,110
6	n-Type Organic Semiconductors in Organic Electronics. <i>Advanced Materials</i> , 2010, 22, 3876-3892.	11.1	1,077
7	Perylene-3,4,9,10-tetracarboxylic Acid Diimides: Synthesis, Physical Properties, and Use in Organic Electronics. <i>Journal of Organic Chemistry</i> , 2011, 76, 2386-2407.	1.7	950
8	High-Performance Electron Acceptor with Thienyl Side Chains for Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2016, 138, 4955-4961.	6.6	915
9	Structure-Property Relationships for Two-Photon Absorbing Chromophores: Bis-Donor Diphenylpolyene and Bis(styryl)benzene Derivatives. <i>Journal of the American Chemical Society</i> , 2000, 122, 9500-9510.	6.6	842
10	Experimental investigations of organic molecular nonlinear optical polarizabilities. 1. Methods and results on benzene and stilbene derivatives. <i>The Journal of Physical Chemistry</i> , 1991, 95, 10631-10643.	2.9	810
11	Efficient Persistent Room Temperature Phosphorescence in Organic Amorphous Materials under Ambient Conditions. <i>Advanced Functional Materials</i> , 2013, 23, 3386-3397.	7.8	643
12	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , 2017, 2, .	19.8	494
13	Organic nonlinear optical materials: where we have been and where we are going. <i>Chemical Communications</i> , 2006, , 131-134.	2.2	481
14	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	11.1	372
15	Effect of Isomerization on High-Performance Nonfullerene Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2018, 140, 9140-9147.	6.6	361
16	Design of Polymethine Dyes with Large Third-Order Optical Nonlinearities and Loss Figures of Merit. <i>Science</i> , 2010, 327, 1485-1488.	6.0	320
17	The Modification of Indium Tin Oxide with Phosphonic Acids: Mechanism of Binding, Tuning of Surface Properties, and Potential for Use in Organic Electronic Applications. <i>Accounts of Chemical Research</i> , 2012, 45, 337-346.	7.6	293
18	Rapid, Low Temperature Formation of Imine-Linked Covalent Organic Frameworks Catalyzed by Metal Triflates. <i>Journal of the American Chemical Society</i> , 2017, 139, 4999-5002.	6.6	276

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19	Studies of the Electronic Structure of Metallocene-Based Second-Order Nonlinear Optical Dyes. <i>Journal of the American Chemical Society</i> , 1999, 121, 3715-3723.	6.6	268
20	Crystallization Kinetics and Morphology Control of Formamidinium <sup>+</sup> Cesium Mixed <sup>+</sup> Cation Lead Mixed <sup>-</sup> Halide Perovskite via Tunability of the Colloidal Precursor Solution. <i>Advanced Materials</i> , 2017, 29, 1607039.	11.1	263
21	Ultralow Doping in Organic Semiconductors: Evidence of Trap Filling. <i>Physical Review Letters</i> , 2012, 109, 176601.	2.9	231
22	One- and Two-Photon Spectroscopy of Donor <sup>+</sup> Acceptor <sup>-</sup> Donor Distyrylbenzene Derivatives: Effect of Cyano Substitution and Distortion from Planarity. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11470-11480.	1.1	227
23	Double doping of conjugated polymers with monomer molecular dopants. <i>Nature Materials</i> , 2019, 18, 149-155.	13.3	225
24	Phosphonic Acid Modification of Indium <sup>+</sup> Tin Oxide Electrodes: Combined XPS/UPS/Contact Angle Studies. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7809-7817.	1.5	207
25	Extended Squaraine Dyes with Large Two-Photon Absorption Cross-Sections. <i>Journal of the American Chemical Society</i> , 2006, 128, 14444-14445.	6.6	205
26	Five Orders-of-Magnitude Enhancement of Two-Photon Absorption for Dyes on Silver Nanoparticle Fractal Clusters. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6853-6863.	1.2	204
27	Mechanistic Study on the Solution-Phase n-Doping of 1,3-Dimethyl-2-aryl-2,3-dihydro-1 <i>H</i> -benzoimidazole Derivatives. <i>Journal of the American Chemical Society</i> , 2013, 135, 15018-15025.	6.6	202
28	Direct observation of reduced bond-length alternation in donor/acceptor polyenes. <i>Journal of the American Chemical Society</i> , 1993, 115, 2524-2526.	6.6	199
29	Electronic and optical properties of conjugated group 8 metallocene derivatives. <i>Chemical Communications</i> , 2000, , 1555-1562.	2.2	194
30	Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 783-791.	6.6	190
31	Phosphonic Acids for Interfacial Engineering of Transparent Conductive Oxides. <i>Chemical Reviews</i> , 2016, 116, 7117-7158.	23.0	189
32	Stronger acceptors can diminish nonlinear optical response in simple donor-acceptor polyenes. <i>Journal of the American Chemical Society</i> , 1993, 115, 3006-3007.	6.6	187
33	Controlled Doping of Large <sup>+</sup> Area Trilayer MoS <sub>2</sub> with Molecular Reductants and Oxidants. <i>Advanced Materials</i> , 2015, 27, 1175-1181.	11.1	183
34	Realization of mid-infrared graphene hyperbolic metamaterials. <i>Nature Communications</i> , 2016, 7, 10568.	5.8	183
35	High-Speed, Sub-15 nm Feature Size Thermochemical Nanolithography. <i>Nano Letters</i> , 2007, 7, 1064-1069.	4.5	165
36	Copolymers of perylene diimide with dithienothiophene and dithienopyrrole as electron-transport materials for all-polymer solar cells and field-effect transistors. <i>Journal of Materials Chemistry</i> , 2009, 19, 5794.	6.7	165

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37	n-doping of Organic Electronic Materials using Air-Stable Organometallics. <i>Advanced Materials</i> , 2012, 24, 699-703.	11.1	163
38	Dithienopyrrole-based donor-acceptor copolymers: low band-gap materials for charge transport, photovoltaics and electrochromism. <i>Journal of Materials Chemistry</i> , 2010, 20, 123-134.	6.7	154
39	Two-Photon Absorption at Telecommunications Wavelengths in a Dipolar Chromophore with a Pyrrole Auxiliary Donor and Thiazole Auxiliary Acceptor. <i>Journal of the American Chemical Society</i> , 2005, 127, 7282-7283.	6.6	150
40	Bisdioxaborine Polymethines with Large Third-Order Nonlinearities for All-Optical Signal Processing. <i>Journal of the American Chemical Society</i> , 2006, 128, 11362-11363.	6.6	140
41	Energy levels, charge injection, charge recombination and dye regeneration dynamics for donor-acceptor $\pi$ -conjugated organic dyes in mesoscopic TiO <sub>2</sub> sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 1820.	15.6	140
42	Effective Solution- and Vacuum-Processed n-Doping by Dimers of Benzimidazoline Radicals. <i>Advanced Materials</i> , 2014, 26, 4268-4272.	11.1	139
43	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. <i>Nature Materials</i> , 2017, 16, 1209-1215.	13.3	139
44	Theoretical Characterization of the Indium Tin Oxide Surface and of Its Binding Sites for Adsorption of Phosphonic Acid Monolayers. <i>Chemistry of Materials</i> , 2008, 20, 5131-5133.	3.2	138
45	Aromatic Amines: A Comparison of Electron-Donor Strengths. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9346-9352.	1.1	134
46	Acceptor Energy Level Control of Charge Photogeneration in Organic Donor/Acceptor Blends. <i>Journal of the American Chemical Society</i> , 2010, 132, 12919-12926.	6.6	128
47	Hybrid Rylene Arrays via Combination of Stille Coupling and C-H Transformation as High-Performance Electron Transport Materials. <i>Journal of the American Chemical Society</i> , 2012, 134, 5770-5773.	6.6	128
48	Thermal Management Enables Bright and Stable Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e2000752.	11.1	126
49	Rapid Synthesis of High Surface Area Imine-Linked 2D Covalent Organic Frameworks by Avoiding Pore Collapse During Isolation. <i>Advanced Materials</i> , 2020, 32, e1905776.	11.1	125
50	Strong, Low-Energy Two-Photon Absorption in Extended Amine-Terminated Cyano-Substituted Phenylenevinylene Oligomers. <i>Journal of the American Chemical Society</i> , 2005, 127, 10844-10845.	6.6	124
51	Efficient all-polymer solar cells based on blend of tris(thienylenevinylene)-substituted polythiophene and poly[perylene diimide-bis(dithienothiophene)]. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	123
52	Design of Organic Chromophores for All-Optical Signal Processing Applications. <i>Chemistry of Materials</i> , 2014, 26, 549-560.	3.2	123
53	Heteroannulated acceptors based on benzothiadiazole. <i>Materials Horizons</i> , 2015, 2, 22-36.	6.4	123
54	Investigating the Influence of Interfacial Contact Properties on Open Circuit Voltages in Organic Photovoltaic Performance: Work Function Versus Selectivity. <i>Advanced Energy Materials</i> , 2013, 3, 647-656.	10.2	122

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55	Solution-based electrical doping of semiconducting polymer films over a limited depth. <i>Nature Materials</i> , 2017, 16, 474-480.	13.3	121
56	Understanding the Effects of Molecular Dopant on n-Type Organic Thermoelectric Properties. <i>Advanced Energy Materials</i> , 2019, 9, 1900817.	10.2	118
57	Influence of dopant size and electron affinity on the electrical conductivity and thermoelectric properties of a series of conjugated polymers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16495-16505.	5.2	112
58	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. <i>Energy and Environmental Science</i> , 2019, 12, 3063-3073.	15.6	111
59	Room-temperature discotic liquid-crystalline coronene diimides exhibiting high charge-carrier mobility in air. <i>Journal of Materials Chemistry</i> , 2009, 19, 6688.	6.7	107
60	Solution-Processed Molecular Bis(Naphthalene Diimide) Derivatives with High Electron Mobility. <i>Chemistry of Materials</i> , 2011, 23, 3408-3410.	3.2	106
61	Characterization of phosphonic acid binding to zinc oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 3107.	6.7	103
62	Stability of inverted organic solar cells with ZnO contact layers deposited from precursor solutions. <i>Energy and Environmental Science</i> , 2015, 8, 592-601.	15.6	103
63	Persistent Conjugated Backbone and Disordered Lamellar Packing Impart Polymers with Efficient n-Doping and High Conductivities. <i>Advanced Materials</i> , 2021, 33, e2005946.	11.1	99
64	25th Anniversary Article: Design of Polymethine Dyes for All-Optical Switching Applications: Guidance from Theoretical and Computational Studies. <i>Advanced Materials</i> , 2014, 26, 68-84.	11.1	97
65	Controllable, Wide-Ranging n-Doping and p-Doping of Monolayer Group 6 Transition-Metal Disulfides and Diselenides. <i>Advanced Materials</i> , 2018, 30, e1802991.	11.1	97
66	Decamethylcobaltocene as an efficient n-dopant in organic electronic materials and devices. <i>Organic Electronics</i> , 2008, 9, 575-581.	1.4	95
67	Electron-Transport Properties and Use in Organic Light-Emitting Diodes of a Bis(dioxaborine)fluorene Derivative. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8647-8651.	1.2	94
68	N-type doping of an electron-transport material by controlled gas-phase incorporation of cobaltocene. <i>Chemical Physics Letters</i> , 2006, 431, 67-71.	1.2	94
69	Mixing Behavior in Small Molecule:Fullerene Organic Photovoltaics. <i>Chemistry of Materials</i> , 2017, 29, 3062-3069.	3.2	94
70	Use of a High Electron-Affinity Molybdenum Dithiolene Complex to p-Dope Hole-Transport Layers. <i>Journal of the American Chemical Society</i> , 2009, 131, 12530-12531.	6.6	91
71	Bis(dioxaborine) compounds with large two-photon cross sections, and their use in the photodeposition of silver. <i>Chemical Communications</i> , 2003, , 1490-1491.	2.2	90
72	Benzothiadiazole-Dithienopyrrole Donor-Acceptor-Donor and Acceptor-Donor-Acceptor Triads: Synthesis and Optical, Electrochemical, and Charge-Transport Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23149-23163.	1.5	90

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73	Photo-crosslinkable polymers as hole-transport materials for organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2002, 12, 1703-1708.	6.7	88
74	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.	6.6	87
75	Photo-Patternable Hole-Transport Polymers for Organic Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2003, 15, 1491-1496.	3.2	86
76	Solution doping of organic semiconductors using air-stable n-dopants. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	86
77	Ultrafast Long-Range Charge Separation in Nonfullerene Organic Solar Cells. <i>ACS Nano</i> , 2017, 11, 12473-12481.	7.3	82
78	Synthesis and Two-Photon Spectrum of a Bis(Porphyrin)-Substituted Squaraine. <i>Journal of the American Chemical Society</i> , 2009, 131, 7510-7511.	6.6	81
79	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.	8.8	79
80	A Nonvolatile Organic Memory Device Using ITO Surfaces Modified by Ag Nanodots. <i>Advanced Functional Materials</i> , 2008, 18, 1112-1118.	7.8	78
81	Stabilization of the work function of indium tin oxide using organic surface modifiers in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	78
82	ITO Interface Modifiers Can Improve $V_{OC}$ in Polymer Solar Cells and Suppress Surface Recombination. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4038-4044.	2.1	78
83	Bis(carbazolyl) derivatives of pyrene and tetrahydropyrene: synthesis, structures, optical properties, electrochemistry, and electroluminescence. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1638.	2.7	77
84	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.	7.8	77
85	A Study on Reducing Contact Resistance in Solution-Processed Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24744-24752.	4.0	77
86	Chemically Controlled Reversible and Irreversible Extraction Barriers Via Stable Interface Modification of Zinc Oxide Electron Collection Layer in Polycarbazole-based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 4671-4680.	7.8	76
87	Reduction of the Work Function of Gold by N-Heterocyclic Carbenes. <i>Chemistry of Materials</i> , 2017, 29, 3403-3411.	3.2	76
88	Polymethine dyes for all-optical switching applications: a quantum-chemical characterization of counter-ion and aggregation effects on the third-order nonlinear optical response. <i>Chemical Science</i> , 2012, 3, 3103.	3.7	75
89	Panchromatic Ternary Photovoltaic Cells Using a Nonfullerene Acceptor Synthesized Using C-H Functionalization. <i>Chemistry of Materials</i> , 2018, 30, 309-313.	3.2	74
90	Absorption Tails of Donor: C <sub>60</sub> Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017, 139, 1699-1704.	6.6	73

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91	Tunable Third-Harmonic Generation from Polaritons in the Ultrastrong Coupling Regime. ACS Photonics, 2018, 5, 119-125.	3.2	71
92	Tailoring the work function of indium tin oxide electrodes in electrophosphorescent organic light-emitting diodes. Journal of Applied Physics, 2009, 105, 084507.	1.1	70
93	Polymers with Carbazole-Oxadiazole Side Chains as Ambipolar Hosts for Phosphorescent Light-Emitting Diodes. Chemistry of Materials, 2011, 23, 4002-4015.	3.2	67
94	Stable Solution-Processed Molecular Channel Organic Field-Effect Transistors. Advanced Materials, 2012, 24, 4445-4450.	11.1	67
95	Production of heavily n- and p-doped CVD graphene with solution-processed redox-active metal-organic species. Materials Horizons, 2014, 1, 111-115.	6.4	67
96	Cross-Linkable Fullerene Derivatives for Solution-Processed n-i-p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 648-653.	8.8	67
97	High-Efficiency Ion-Exchange Doping of Conducting Polymers. Advanced Materials, 2022, 34, e2102988.	11.1	67
98	Two-Photon Absorption in Quadrupolar Bis(acceptor)-Terminated Chromophores with Electron-Rich Bis(heterocycle)vinylene Bridges. Chemistry of Materials, 2007, 19, 432-442.	3.2	66
99	Crosslinking Using Rapid Thermal Processing for the Fabrication of Efficient Solution-Processed Phosphorescent Organic Light-Emitting Diodes. Advanced Materials, 2013, 25, 1739-1744.	11.1	66
100	Effect of an auxiliary acceptor on D-A sensitizers for highly efficient and stable dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 12865-12877.	5.2	66
101	Norbornene-Based Copolymers with Iridium Complexes and Bis(carbazolyl)fluorene Groups in Their Side-Chains and Their Use in Light-Emitting Diodes. Chemistry of Materials, 2007, 19, 5602-5608.	3.2	65
102	Pentacene organic field-effect transistors with doped electrode-semiconductor contacts. Organic Electronics, 2010, 11, 860-863.	1.4	65
103	A Molybdenum Dithiolene Complex as p-Dopant for Hole-Transport Materials: A Multitechnique Experimental and Theoretical Investigation. Chemistry of Materials, 2010, 22, 524-531.	3.2	65
104	Passivation of trap states in unpurified and purified C60 and the influence on organic field-effect transistor performance. Applied Physics Letters, 2012, 101, .	1.5	65
105	Impact of Alkyl-Functionalized BTC on Properties of Copper-Based Metal-Organic Frameworks. Crystal Growth and Design, 2012, 12, 3709-3713.	1.4	65
106	n-Doping of Organic Electronic Materials Using Air-Stable Organometallics: A Mechanistic Study of Reduction by Dimeric Sandwich Compounds. Chemistry - A European Journal, 2012, 18, 14760-14772.	1.7	64
107	Structures of (4-Y-C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> NH <sub>3</sub> ) <sub>2</sub> PbI <sub>4</sub> (Y = H, F, Cl, Br, I): Tuning of Hybrid Organic Inorganic Perovskite Structures from Ruddlesden-Popper to Dion-Jacobson Limits. Chemistry of Materials, 2019, 31, 6145-6153.	3.2	62
108	Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. Materials Horizons, 2019, 6, 1868-1876.	6.4	62

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109	High electron mobility in nickel bis(dithiolene) complexes. <i>Journal of Materials Chemistry</i> , 2007, 17, 2642.	6.7	61
110	Thermochemical Nanolithography of Multifunctional Nanotemplates for Assembling Nano-Objects. <i>Advanced Functional Materials</i> , 2009, 19, 3696-3702.	7.8	61
111	Orientation of Phenylphosphonic Acid Self-Assembled Monolayers on a Transparent Conductive Oxide: A Combined NEXAFS, PM-IRRAS, and DFT Study. <i>Langmuir</i> , 2013, 29, 2166-2174.	1.6	61
112	Steric Effects of the Initiator Substituent Position on the Externally Initiated Polymerization of 2-Bromo-5-iodo-3-hexylthiophene. <i>Macromolecules</i> , 2011, 44, 512-520.	2.2	60
113	Polymethine materials with solid-state third-order optical susceptibilities suitable for all-optical signal-processing applications. <i>Materials Horizons</i> , 2014, 1, 577-581.	6.4	59
114	Highly efficient Organic Light-Emitting Diodes from thermally activated delayed fluorescence using a sulfone-carbazole host material. <i>Organic Electronics</i> , 2015, 16, 109-112.	1.4	58
115	Dopant controlled trap-filling and conductivity enhancement in an electron-transport polymer. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	57
116	A Step Toward Efficient Panchromatic Multi-Chromophoric Sensitizers for Dye Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2015, 27, 6305-6313.	3.2	57
117	KO <sup>t</sup> -Bu-Initiated Aryl C-H Iodination: A Powerful Tool for the Synthesis of High Electron Affinity Compounds. <i>Journal of the American Chemical Society</i> , 2016, 138, 3946-3949.	6.6	57
118	Enhanced Thermoelectric Power Factor of Tensile Drawn Poly(3-hexylthiophene). <i>ACS Macro Letters</i> , 2019, 8, 70-76.	2.3	56
119	Dithienopyrrole-quinoxaline/pyridopyrazine donor-acceptor polymers: synthesis and electrochemical, optical, charge-transport, and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 4971.	6.7	54
120	Surface modified fullerene electron transport layers for stable and reproducible flexible perovskite solar cells. <i>Nano Energy</i> , 2018, 49, 324-332.	8.2	52
121	Reduction of contact resistance by selective contact doping in fullerene n-channel organic field-effect transistors. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	51
122	Effects of surface modification of indium tin oxide electrodes on the performance of molecular multilayer organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2009, 19, 5298.	6.7	50
123	Built-In Potential in Conjugated Polymer Diodes with Changing Anode Work Function: Interfacial States and Deviation from the Schottky-Mott Limit. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1202-1207.	2.1	50
124	Electronic and Vibronic Contributions to Two-Photon Absorption in Donor-Acceptor Donor Squaraine Chromophores. <i>Chemistry - A European Journal</i> , 2008, 14, 11082-11091.	1.7	49
125	Optically Pumped Lasing from Hybrid Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 1901297.	3.6	49
126	Small Molecule Chemisorption on Indium-Tin Oxide Surfaces: Enhancing Probe Molecule Electron-Transfer Rates and the Performance of Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25191-25202.	1.2	48



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127	Growing "Nanofruit" Textures on Photo-Crosslinked SU-8 Surfaces through Layer-by-Layer Grafting of Hyperbranched Poly(Ethyleneimine). <i>Chemistry of Materials</i> , 2009, 21, 476-483.	3.2	48
128	A Pyrenylpropyl Phosphonic Acid Surface Modifier for Mitigating the Thermal Resistance of Carbon Nanotube Contacts. <i>Advanced Functional Materials</i> , 2014, 24, 465-471.	7.8	48
129	Controlled n-Type Doping of Carbon Nanotube Transistors by an Organorhodium Dimer. <i>Nano Letters</i> , 2016, 16, 4329-4334.	4.5	48
130	Recent Developments in C-H Activation for Materials Science in the Center for Selective C-H Activation. <i>Molecules</i> , 2018, 23, 922.	1.7	47
131	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.	1.2	47
132	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.	8.8	45
133	Near Length-Independent Conductance in Polymethine Molecular Wires. <i>Nano Letters</i> , 2018, 18, 6387-6391.	4.5	45
134	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.	1.2	45
135	High-Performance n-Channel Thin-Film Field-Effect Transistors Based on a Nanowire-Forming Polymer. <i>Advanced Functional Materials</i> , 2013, 23, 2060-2071.	7.8	44
136	Impact of Nonfullerene Molecular Architecture on Charge Generation, Transport, and Morphology in PTB7-Th-Based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802702.	7.8	44
137	Synthesis of 8-Aminoquinolines by Using Carbamate Reagents: Facile Installation and Deprotection of Practical Amidating Groups. <i>Chemistry - A European Journal</i> , 2015, 21, 17200-17204.	1.7	43
138	Conductive, Solution-Processed Dioxythiophene Copolymers for Thermoelectric and Transparent Electrode Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1900395.	10.2	43
139	Transition metal-catalyzed C-H activation as a route to structurally diverse di(arylthiophenyl)-diketopyrrolopyrroles. <i>Journal of Materials Chemistry</i> , 2012, 22, 21392.	6.7	42
140	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.	1.4	42
141	High Conductivity in a Nonplanar n-Doped Ambipolar Semiconducting Polymer. <i>Chemistry of Materials</i> , 2017, 29, 9742-9750.	3.2	42
142	Donor Conjugated Polymers with Polar Side Chain Groups: The Role of Dielectric Constant and Energetic Disorder on Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1803418.	7.8	42
143	Fluorenyl-substituted silole molecules: geometric, electronic, optical, and device properties. <i>Journal of Materials Chemistry</i> , 2008, 18, 3157.	6.7	41
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