

Seth R Marder

List of Publications by Year in descending order

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339
papers

32,600
citations

7069

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5227

165
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all docs

342
docs citations

342
times ranked

26391
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Ion-Exchange Doping of Conducting Polymers. <i>Advanced Materials</i> , 2022, 34, e2102988.	11.1	67
2	Short and long-range electron transfer compete to determine free-charge yield in organic semiconductors. <i>Materials Horizons</i> , 2022, 9, 312-324.	6.4	4
3	Controlled n-Doping of Naphthalene-Diimide-Based 2D Polymers. <i>Advanced Materials</i> , 2022, 34, e2101932.	11.1	13
4	Tailoring capping-layer composition for improved stability of mixed-halide perovskites. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2957-2965.	5.2	5
5	Organometallic and Organic Dimers: Moderately Air-Stable, Yet Highly Reducing, n-Dopants. <i>Accounts of Chemical Research</i> , 2022, 55, 319-332.	7.6	11
6	Powerful Organic Molecular Oxidants and Reductants Enable Ambipolar Injection in a Large-Gap Organic Homojunction Diode. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2381-2389.	4.0	5
7	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.	3.2	7
8	A Semiconducting Two-Dimensional Polymer as an Organic Electrochemical Transistor Active Layer. <i>Advanced Materials</i> , 2022, 34, e2110703.	11.1	19
9	Iron(III) Dopant Counterions Affect the Charge-Transport Properties of Poly(Thiophene) and Poly(Dialkoxythiophene) Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29039-29051.	4.0	5
10	Use of a Multiple Hydride Donor To Achieve an n-Doped Polymer with High Solvent Resistance. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33598-33605.	4.0	3
11	Synthetic Routes for Heteroatom-Containing Alkylated/Arylated Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2021, 133, 2960-2964.	1.6	6
12	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.	3.2	11
13	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
14	The Interlayer Method: A Universal Tool for Energy Level Alignment Tuning at Inorganic/Organic Semiconductor Heterojunctions. <i>Advanced Functional Materials</i> , 2021, 31, 2010174.	7.8	18
15	Synthetic Routes for Heteroatom-Containing Alkylated/Arylated Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2924-2928.	7.2	14
16	Synthesis, structures, and reactivity of isomers of [RuCp*(1,4-(Me ₂ N) ₂ C ₆ H ₄)] ₂ . <i>Dalton Transactions</i> , 2021, 50, 13020-13030.	1.6	3
17	A polymeric bis(di- <i>p</i> -anisylamino)fluorene hole-transport material for stable n-i-p perovskite solar cells. <i>New Journal of Chemistry</i> , 2021, 45, 15017-15021.	1.4	3
18	Understanding how Lewis acids dope organic semiconductors: a π -complex story. <i>Chemical Science</i> , 2021, 12, 7012-7022.	3.7	23

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19	Disentangling Bulk and Interface Phenomena in a Molecularly Doped Polymer Semiconductor. <i>Advanced Optical Materials</i> , 2021, 9, 2002039.	3.6	6
20	Reactivity of an air-stable dihydrobenzimidazole n-dopant with organic semiconductor molecules. <i>CheM</i> , 2021, 7, 1050-1065.	5.8	40
21	Electron spin resonance resolves intermediate triplet states in delayed fluorescence. <i>Nature Communications</i> , 2021, 12, 4532.	5.8	38
22	Nanosecondâ€Pulsed Perovskite Lightâ€Emitting Diodes at High Current Density. <i>Advanced Materials</i> , 2021, 33, e2104867.	11.1	26
23	Benzocyclobutene polymer as an additive for a benzocyclobutene-fullerene: application in stable pâ€iâ€n perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9347-9353.	5.2	6
24	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.	2.7	6
25	Highly air-stable, n-doped conjugated polymers achieved by dimeric organometallic dopants. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4105-4111.	2.7	7
26	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.	2.5	20
27	Cross-Linking of Doped Organic Semiconductor Interlayers for Organic Solar Cells: Potential and Challenges. <i>ACS Applied Energy Materials</i> , 2021, 4, 14458-14466.	2.5	7
28	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.	2.5	22
29	Optically Pumped Lasing from Hybrid Perovskite Lightâ€Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 1901297.	3.6	49
30	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.	1.7	4
31	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
32	A structural study of p-type Aâ€Dâ€A oligothiophenes: effects of regioregular alkyl sidechains on annealing processes and photovoltaic performances. <i>Journal of Materials Chemistry C</i> , 2020, 8, 567-580.	2.7	4
33	Rapid Synthesis of High Surface Area Imineâ€Linked 2D Covalent Organic Frameworks by Avoiding Pore Collapse During Isolation. <i>Advanced Materials</i> , 2020, 32, e1905776.	11.1	125
34	Naphthalenediimide Cations Inhibit 2D Perovskite Formation and Facilitate Subpicosecond Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24379-24390.	1.5	17
35	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
36	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

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37	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.	2.2	39
38	Dear Materials Community. <i>Materials Horizons</i> , 2020, 7, 1933-1934.	6.4	0
39	Electron transport in a sequentially doped naphthalene diimide polymer. <i>Materials Advances</i> , 2020, 1, 1829-1834.	2.6	14
40	Thermally Activated Delayed Fluorescence Sensitization for Highly Efficient Blue Fluorescent Emitters. <i>Advanced Functional Materials</i> , 2020, 30, 2005898.	7.8	25
41	New Design Strategy Toward NIR I Xanthene-Based Dyes. <i>Journal of Organic Chemistry</i> , 2020, 85, 12108-12116.	1.7	16
42	Electronically Coupled 2D Polymer/MoS ₂ Heterostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 21131-21139.	6.6	25
43	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.	1.1	20
44	Single-Step Formation of a Low Work Function Cathode Interlayer and n-type Bulk Doping from Semiconducting Polymer/Polyethylenimine Blend Solution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28801-28807.	4.0	10
45	Structural Diversity in 2,2'-[Naphthalene-1,8:4,5-bis(dicarboximide)- <i>N,N'</i> -diyl]-bis(ethylammonium) iodoplumbates. <i>Inorganic Chemistry</i> , 2020, 59, 8070-8080.	1.9	16
46	Potential-Modulated Total Internal Reflection Fluorescence for Measurement of the Electron Transfer Kinetics of Submonolayers on Optically Transparent Electrodes. <i>Langmuir</i> , 2020, 36, 6728-6735.	1.6	5
47	Thermal Management Enables Bright and Stable Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e2000752.	11.1	126
48	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.	3.2	12
49	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
50	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.	7.8	22
51	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.	1.5	6
52	Electrode Work Function Reduction by Polyethylenimine Interlayers: Choice of Solvent and Residual Solvent Removal for Superior Functionality. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000291.	1.9	6
53	Structures of (4-YC ₆ H ₄ CH ₂ NH ₃) ₂ PbY 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.	3.2	62
54	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

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55	Charge-Transport Properties of F ₆ TNAP-Based Charge-Transfer Cocrystals. <i>Advanced Functional Materials</i> , 2019, 29, 1904858.	7.8	36
56	Cationic Polyelectrolyte for Anionic Cyanines: An Efficient Way To Translate Molecular Properties into Material Properties. <i>Journal of the American Chemical Society</i> , 2019, 141, 17331-17336.	6.6	12
57	Non-fullerene acceptors inaugurating a new era of organic photovoltaic research and technology. <i>Materials Chemistry Frontiers</i> , 2019, 3, 180-180.	3.2	19
58	Degenerate electron-doping in two-dimensional tungsten diselenide with a dimeric organometallic reductant. <i>Materials Today</i> , 2019, 30, 26-33.	8.3	14
59	Charge Recombination Dynamics in Organic Photovoltaic Systems with Enhanced Dielectric Constant. <i>Advanced Functional Materials</i> , 2019, 29, 1901269.	7.8	32
60	Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. <i>Materials Horizons</i> , 2019, 6, 1868-1876.	6.4	62
61	Understanding the Effects of Molecular Dopant on n-Type Organic Thermoelectric Properties. <i>Advanced Energy Materials</i> , 2019, 9, 1900817.	10.2	118
62	Conductive, Solution-Processed Dioxythiophene Copolymers for Thermoelectric and Transparent Electrode Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1900395.	10.2	43
63	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.	2.7	16
64	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.	4.0	24
65	(4NPEA) ₂ PbI ₄ (4NPEA = 4-Nitrophenylethylammonium): Structural, NMR, and Optical Properties of a 3 Å × 3 Corrugated 2D Hybrid Perovskite. <i>Journal of the American Chemical Society</i> , 2019, 141, 4521-4525.	6.6	37
66	Molecular-Reductant-Induced Control of a Graphene-Organic Interface for Electron Injection. <i>Chemistry of Materials</i> , 2019, 31, 6624-6632.	3.2	15
67	Phosphonic Acid Modification of the Electron Selective Contact: Interfacial Effects in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 2402-2408.	2.5	23
68	Thermoelectric Performance of n-Type Poly(Ni-tetrathiooxalate) as a Counterpart to Poly(Ni-ethenetetrathiolate): NiTTO versus NiETT. <i>Advanced Electronic Materials</i> , 2019, 5, 1900066.	2.6	14
69	Breaking Down Resonance: Nonlinear Transport and the Breakdown of Coherent Tunneling Models in Single Molecule Junctions. <i>Nano Letters</i> , 2019, 19, 2555-2561.	4.5	32
70	Organometallic hydride-transfer agents as reductants for organic semiconductor molecules. <i>Inorganica Chimica Acta</i> , 2019, 489, 67-77.	1.2	8
71	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.	3.2	29
72	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.	2.7	20

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73	Acceptor Gradient Polymer Donors for Non-Fullerene Organic Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 9729-9741.	3.2	15
74	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.	5.2	6
75	Enhanced Thermoelectric Power Factor of Tensile Drawn Poly(3-hexylthiophene). <i>ACS Macro Letters</i> , 2019, 8, 70-76.	2.3	56
76	Double doping of conjugated polymers with monomer molecular dopants. <i>Nature Materials</i> , 2019, 18, 149-155.	13.3	225
77	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.	1.5	18
78	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.	2.7	29
79	Direct Effect of Dielectric Surface Energy on Carrier Transport in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15943-15951.	4.0	35
80	Design of Near-Infrared-Absorbing Unsymmetrical Polymethine Dyes with Large Quadratic Hyperpolarizabilities. <i>Chemistry of Materials</i> , 2018, 30, 3410-3418.	3.2	35
81	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.	3.2	35
82	Non-fullerene acceptors for organic solar cells. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	2,163
83	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
84	Absence of Mixed Phase in Organic Photovoltaic Active Layers Facilitates Use of Green Solvent Processing. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11136-11144.	1.5	10
85	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
86	Pronounced Side Chain Effects in Triple Bond-Conjugated Polymers Containing Naphthalene Diimides for n-Channel Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12921-12929.	4.0	20
87	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.	2.7	19
88	Tunable Third-Harmonic Generation from Polaritons in the Ultrastrong Coupling Regime. <i>ACS Photonics</i> , 2018, 5, 119-125.	3.2	71
89	Impact of Nonfullerene Molecular Architecture on Charge Generation, Transport, and Morphology in PTB7-Based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802702.	7.8	44
90	Control of Singlet Emission Energy in a Diphenyloxadiazole Containing Fluorophore Leading To Thermally Activated Delayed Fluorescence. <i>ACS Omega</i> , 2018, 3, 14918-14923.	1.6	5

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91	Origin of the "Spacing Change upon Doping of Semiconducting Polymers. Journal of Physical Chemistry C, 2018, 122, 27983-27990.	1.5	25
92	Randomly Distributed Conjugated Polymer Repeat Units for High-Efficiency Photovoltaic Materials with Enhanced Solubility and Processability. ACS Applied Materials & Interfaces, 2018, 10, 44583-44588.	4.0	18
93	Donor Conjugated Polymers with Polar Side Chain Groups: The Role of Dielectric Constant and Energetic Disorder on Photovoltaic Performance. Advanced Functional Materials, 2018, 28, 1803418.	7.8	42
94	Linear and Third-Order Nonlinear Optical Properties of Chalcogenopyrylium-Terminated Heptamethine Dyes with Rigid, Bulky Substituents. Advanced Functional Materials, 2018, 28, 1804073.	7.8	17
95	Near Length-Independent Conductance in Polymethine Molecular Wires. Nano Letters, 2018, 18, 6387-6391.	4.5	45
96	Hole Transport in Low-Donor-Content Organic Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 5496-5501.	2.1	33
97	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. Chemistry of Materials, 2018, 30, 6389-6399.	3.2	17
98	Systematic Power Factor Enhancement in n-Type NiET/PVDF Composite Films. Advanced Functional Materials, 2018, 28, 1801620.	7.8	34
99	The Direct Arylation Polymerization (DAP) of Well-Defined Alternating Copolymers Based On 5,6-Dicyano[2,1,3]benzothiadiazole (DCBT). Asian Journal of Organic Chemistry, 2018, 7, 1419-1425.	1.3	8
100	Nonlinear optical components for all-optical probabilistic graphical model. Nature Communications, 2018, 9, 2128.	5.8	10
101	Effect of Isomerization on High-Performance Nonfullerene Electron Acceptors. Journal of the American Chemical Society, 2018, 140, 9140-9147.	6.6	361
102	Influence of dopant size and electron affinity on the electrical conductivity and thermoelectric properties of a series of conjugated polymers. Journal of Materials Chemistry A, 2018, 6, 16495-16505.	5.2	112
103	Simultaneous Enhancement in Electrical Conductivity and Thermopower of n-Type NiET/PVDF Composite Films by Annealing. Advanced Functional Materials, 2018, 28, 1803275.	7.8	39
104	Controllable, Wide-Ranging n-Doping and p-Doping of Monolayer Group 6 Transition-Metal Disulfides and Diselenides. Advanced Materials, 2018, 30, e1802991.	11.1	97
105	Recent Developments in C-H Activation for Materials Science in the Center for Selective C-H Activation. Molecules, 2018, 23, 922.	1.7	47
106	High performance blue-emitting organic light-emitting diodes from thermally activated delayed fluorescence: A guest/host ratio study. Journal of Applied Physics, 2018, 124, .	1.1	25
107	Modification of the fluorinated tin oxide/electron-transporting material interface by a strong reductant and its effect on perovskite solar cell efficiency. Molecular Systems Design and Engineering, 2018, 3, 741-747.	1.7	9
108	Dopant Diffusion in Sequentially Doped Poly(3-hexylthiophene) Studied by Infrared and Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 14518-14527.	1.5	29

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109	Absorption Tails of Donor:PC ₆₀ 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
110	Mixing Behavior in Small Molecule:Fullerene Organic Photovoltaics. <i>Chemistry of Materials</i> , 2017, 29, 3062-3069.	3.2	94
111	Electron Transport and Nanomorphology in Solution-Processed Polymeric Semiconductor -Doped with an Air-Stable Organometallic Dimer. <i>Advanced Electronic Materials</i> , 2017, 3, 1600546.	2.6	15
112	Comparison of the Optical and Electrochemical Properties of Bi(perylene diimide)s Linked through Ortho and Bay Positions. <i>ACS Omega</i> , 2017, 2, 377-385.	1.6	41
113	Crystal structure of 5,6-bis(9H-carbazol-9-yl)benzo[1,2,5]thiadiazole: distortion from a hypothetical higher-symmetry structure. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 319-324.	0.2	1
114	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , 2017, 2, .	19.8	494
115	Reduction of the Work Function of Gold by N-Heterocyclic Carbenes. <i>Chemistry of Materials</i> , 2017, 29, 3403-3411.	3.2	76
116	Solution-based electrical doping of semiconducting polymer films over a limited depth. <i>Nature Materials</i> , 2017, 16, 474-480.	13.3	121
117	Hybrid Doping of Few-Layer Graphene via a Combination of Intercalation and Surface Doping. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20020-20028.	4.0	11
118	Crystallization Kinetics and Morphology Control of Formamidinium-Cesium Mixed-Halide Perovskite via Tunability of the Colloidal Precursor Solution. <i>Advanced Materials</i> , 2017, 29, 1607039.	11.1	263
119	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
120	Facile Doping and Work-Function Modification of Few-Layer Graphene Using Molecular Oxidants and Reductants. <i>Advanced Functional Materials</i> , 2017, 27, 1602004.	7.8	25
121	Synthesis and C-H Functionalization Chemistry of Thiazole-Semicononenediimides (TsCDIs) and -Coronenediimides (TCDIs). <i>Journal of Organic Chemistry</i> , 2017, 82, 10139-10148.	1.7	8
122	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.	3.2	17
123	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
124	Doping-induced carrier profiles in organic semiconductors determined from capacitive extraction-current transients. <i>Scientific Reports</i> , 2017, 7, 5397.	1.6	12
125	Multicarbazolyl substituted TTM radicals: red-shift of fluorescence emission with enhanced luminescence efficiency. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2132-2135.	3.2	41
126	Solution-Processed Doping of Trilayer WSe ₂ with Redox-Active Molecules. <i>Chemistry of Materials</i> , 2017, 29, 7296-7304.	3.2	25

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127	Efficient and Stable Perovskite Solar Cells Using Molybdenum Tris(dithiolene)s as p-Dopants for Spiro-OMeTAD. ACS Energy Letters, 2017, 2, 2044-2050.	8.8	79
128	Molecular weight tuning of low bandgap polymers by continuous flow chemistry: increasing the applicability of PffBT4T for organic photovoltaics. Journal of Materials Chemistry A, 2017, 5, 18166-18175.	5.2	23
129	Testing the Equivalence between Spatial Averaging and Temporal Averaging in Highly Dilute Solutions. Langmuir, 2017, 33, 14539-14547.	1.6	3
130	Ultrafast Long-Range Charge Separation in Nonfullerene Organic Solar Cells. ACS Nano, 2017, 11, 12473-12481.	7.3	82
131	High Conductivity in a Nonplanar <i>n</i> -Doped Ambipolar Semiconducting Polymer. Chemistry of Materials, 2017, 29, 9742-9750.	3.2	42
132	Beating the thermodynamic limit with photo-activation of n-doping in organic semiconductors. Nature Materials, 2017, 16, 1209-1215.	13.3	139
133	Metallo-organic n-type thermoelectrics: Emphasizing advances in nickel-ethenetetrathiolates. Journal of Applied Polymer Science, 2017, 134, .	1.3	26
134	Electric-Field-Controlled Dopant Distribution in Organic Semiconductors. Advanced Materials, 2017, 29, 1701466.	11.1	30
135	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. Advanced Functional Materials, 2016, 26, 2493-2502.	7.8	28
136	Understanding How Charged Nanoparticles Electrostatically Assemble and Distribute in 1-D. Langmuir, 2016, 32, 13600-13610.	1.6	9
137	Phosphonic Acids for Interfacial Engineering of Transparent Conductive Oxides. Chemical Reviews, 2016, 116, 7117-7158.	23.0	189
138	Synthesis, characterization, and crystal structures of molybdenum complexes of unsymmetrical electron-poor dithiolene ligands. Polyhedron, 2016, 116, 88-95.	1.0	24
139	Quasi-three-level model applied to measured spectra of nonlinear absorption and refraction in organic molecules. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 780.	0.9	22
140	Impact of a Low Concentration of Dopants on the Distribution of Gap States in a Molecular Semiconductor. Chemistry of Materials, 2016, 28, 2677-2684.	3.2	29
141	Ultra-low p-doping of poly(3-hexylthiophene) and its impact on polymer aggregation and photovoltaic performance. Organic Photonics and Photovoltaics, 2016, 4, .	1.3	3
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