

Michael F Toney

List of Publications by Year in descending order

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555
papers

60,774
citations

640

123
h-index

1185

228
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570
all docs

570
docs citations

570
times ranked

47161
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering techniques for mixed donor-acceptor characterization in organic photovoltaics. <i>Materials Horizons</i> , 2022, 9, 43-60.	6.4	11
2	Vapor deposition rate modifies anisotropic glassy structure of an anthracene-based organic semiconductor. <i>Journal of Chemical Physics</i> , 2022, 156, 014504.	1.2	8
3	Thermodynamic guiding principles of high-capacity phase transformation materials for splitting H ₂ O and CO ₂ by thermochemical looping. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3552-3561.	5.2	2
4	Revealing temperature-dependent polymer aggregation in solution with small-angle X-ray scattering. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2096-2104.	5.2	8
5	Increased crystallite size in thin films of C ₆₀ and <i>p</i> -terphenyls via PDMS-assisted crystallization. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5657-5665.	2.7	0
6	Phonons in Metal Halide Perovskites. , 2022, , 1-35.		0
7	Influence of Annealing and Composition on the Crystal Structure of Mixed-Halide, Ruddlesden-Popper Perovskites. <i>Chemistry of Materials</i> , 2022, 34, 3109-3122.	3.2	27
8	Light-induced halide segregation in perovskites with wrinkled morphology. <i>Journal of Energy Chemistry</i> , 2022, 71, 83-88.	7.1	2
9	Conformal Pressure and Fast-Charging Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040540.	1.3	8
10	Mixing Matters: Nanoscale Heterogeneity and Stability in Metal Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 471-480.	8.8	23
11	Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. <i>ACS Energy Letters</i> , 2022, 7, 461-470.	8.8	75
12	Why it is important to determine and report the impact of probe radiation. <i>Joule</i> , 2022, 6, 723-725.	11.7	6
13	Reaction-Mediated Transformation of Working Catalysts. <i>ACS Catalysis</i> , 2022, 12, 8007-8018.	5.5	6
14	Simulation and characterization of cation disorder in ZnGeP_2 . <i>Journal of Materials Research</i> , 2022, 37, 1986-1996.	1.2	1
15	Combined Effects of Uniform Applied Pressure and Electrolyte Additives in Lithium-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 8273-8281.	2.5	9
16	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
17	The Role of Metal Substitution in Tuning Anion Redox in Sodium Metal Layered Oxides Revealed by X-Ray Spectroscopy and Theory. <i>Angewandte Chemie</i> , 2021, 133, 10975-10982.	1.6	10
18	The Role of Metal Substitution in Tuning Anion Redox in Sodium Metal Layered Oxides Revealed by X-Ray Spectroscopy and Theory. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10880-10887.	7.2	32

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19	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. <i>Science Advances</i> , 2021, 7, .	4.7	165
20	Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox. <i>Energy and Environmental Science</i> , 2021, 14, 4858-4867.	15.6	29
21	Quantification of heterogeneous, irreversible lithium plating in extreme fast charging of lithium-ion batteries. <i>Energy and Environmental Science</i> , 2021, 14, 4979-4988.	15.6	58
22	Achieving High Thermoelectric Performance and Metallic Transport in Solvent- π -Sheared PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2021, 7, 2001190.	2.6	32
23	In Situ Characterization of Ferroelectric HfO_2 During Rapid Thermal Annealing. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000598.	1.2	12
24	Mechanism of Additive-Assisted Room-Temperature Processing of Metal Halide Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13212-13225.	4.0	27
25	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Li^+ -ion and Li^+ -Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100372.	10.2	114
26	Fictitious phase separation in Li layered oxides driven by electro-autocatalysis. <i>Nature Materials</i> , 2021, 20, 991-999.	13.3	101
27	Using Deposition Rate and Substrate Temperature to Manipulate Liquid Crystal-Like Order in a Vapor-Deposited Hexagonal Columnar Glass. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2761-2770.	1.2	17
28	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4501-4513.	1.2	52
29	AI tool makes phase identification crystal clear. <i>Nature Computational Science</i> , 2021, 1, 311-312.	3.8	0
30	Electrochemical ion insertion from the atomic to the device scale. <i>Nature Reviews Materials</i> , 2021, 6, 847-867.	23.3	84
31	Persistent and partially mobile oxygen vacancies in Li-rich layered oxides. <i>Nature Energy</i> , 2021, 6, 642-652.	19.8	106
32	Controlling Polymer Morphology in Blade-Coated All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 5951-5961.	3.2	14
33	Orientation-Dependent Distortion of Lamellae in a Block Copolymer Electrolyte under DC Polarization. <i>Macromolecules</i> , 2021, 54, 7808-7821.	2.2	12
34	Quantification of Efficiency in Lithium Metal Negative Electrodes via Operando X-ray Diffraction. <i>Chemistry of Materials</i> , 2021, 33, 7537-7545.	3.2	17
35	Water or Anion? Uncovering the Zn^{2+} Solvation Environment in Mixed $\text{Zn}(\text{TFSI})_2$ and LiTFSI Water-in-Salt Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 3458-3463.	8.8	45
36	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. <i>Chemistry of Materials</i> , 2021, 33, 7315-7336.	3.2	39

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37	Kinetic origins of the metastable zone width in the manganese oxide Pourbaix diagram. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7857-7867.	5.2	7
38	Understanding Cu incorporation in the Cu^{2+} structure using resonant x-ray diffraction. <i>Physical Review Materials</i> , 2021, 5, .	15.6	31
39	Bridging the thermodynamics and kinetics of temperature-induced morphology evolution in polymer/fullerene organic solar cell bulk heterojunction. <i>Materials Horizons</i> , 2021, 8, 1272-1285.	6.4	21
40	Alloying a single and a double perovskite: a Cu^{2+} mixed-valence layered halide perovskite with strong optical absorption. <i>Chemical Science</i> , 2021, 12, 8689-8697.	3.7	24
41	Stable Glasses of Organic Semiconductor Resist Crystallization. <i>Journal of Physical Chemistry B</i> , 2021, 125, 461-466.	1.2	7
42	Improving molecular alignment and charge percolation in semiconducting polymer films with highly localized electronic states through tailored thermal annealing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15848-15857.	2.7	8
43	Compositional heterogeneity in $\text{CsFA}_{1-x}\text{Pb}(\text{Br}_x\text{I}_{1-x})_3$ perovskite films and its impact on phase behavior. <i>Energy and Environmental Science</i> , 2021, 14, 6394-6405.	15.6	20
44	Using <i>In Situ</i> High-Energy X-ray Diffraction to Quantify Electrode Behavior of Li-Ion Batteries from Extreme Fast Charging. <i>ACS Applied Energy Materials</i> , 2021, 4, 11590-11598.	2.5	17
45	Surface equilibration mechanism controls the molecular packing of glassy molecular semiconductors at organic interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
46	Unraveling the Unconventional Order of a High-Mobility Indacenodithiophene-Benzothiadiazole Copolymer. <i>ACS Macro Letters</i> , 2021, 10, 1306-1314.	2.3	20
47	Emerging X-ray imaging technologies for energy materials. <i>Materials Today</i> , 2020, 34, 132-147.	8.3	70
48	High-capacity thermochemical CO_2 dissociation using iron-poor ferrites. <i>Energy and Environmental Science</i> , 2020, 13, 592-600.	15.6	23
49	Structural Origins of Light-Induced Phase Segregation in Organic-Inorganic Halide Perovskite Photovoltaic Materials. <i>Matter</i> , 2020, 2, 207-219.	5.0	128
50	Size-Dependent Lattice Structure and Confinement Properties in CsPbI_3 Perovskite Nanocrystals: Negative Surface Energy for Stabilization. <i>ACS Energy Letters</i> , 2020, 5, 238-247.	8.8	201
51	Fine-Tuning Semiconducting Polymer Self-Aggregation and Crystallinity Enables Optimal Morphology and High-Performance Printed All-Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 392-406.	6.6	143
52	Inducing Molecular Aggregation of Polymer Semiconductors in a Secondary Insulating Polymer Matrix to Enhance Charge Transport. <i>Chemistry of Materials</i> , 2020, 32, 897-905.	3.2	40
53	Impact of Processing on Structural and Compositional Evolution in Mixed Metal Halide Perovskites during Film Formation. <i>Advanced Functional Materials</i> , 2020, 30, 2001752.	7.8	39
54	Heterogeneous Behavior of Lithium Plating during Extreme Fast Charging. <i>Cell Reports Physical Science</i> , 2020, 1, 100114.	2.8	49

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55	Cooling dynamics of two titanium alloys during laser powder bed fusion probed with in situ X-ray imaging and diffraction. <i>Materials and Design</i> , 2020, 195, 108987.	3.3	25
56	Test of the Dynamic-Domain and Critical Scattering Hypotheses in Cubic Methylammonium Lead Triiodide. <i>Physical Review Letters</i> , 2020, 125, .	2.9	13
57	Advanced Characterization in Clean Water Technologies. <i>Joule</i> , 2020, 4, 1637-1659.	11.7	33
58	Understanding additive controlled lithium morphology in lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16960-16972.	5.2	26
59	Covalently Linked, Two-Dimensional Quantum Dot Assemblies. <i>Langmuir</i> , 2020, 36, 9944-9951.	1.6	4
60	Tuning Intra and Intermolecular Interactions for Balanced Hole and Electron Transport in Semiconducting Polymers. <i>Chemistry of Materials</i> , 2020, 32, 7338-7346.	3.2	24
61	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-Salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23180-23187.	7.2	28
62	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-Salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie</i> , 2020, 132, 23380-23387.	1.6	9
63	Preferred crystallographic orientation of cellulose in plant primary cell walls. <i>Nature Communications</i> , 2020, 11, 4720.	5.8	41
64	Time-Resolved Structural Kinetics of an Organic Mixed Ionic-Electronic Conductor. <i>Advanced Materials</i> , 2020, 32, e2003404.	11.1	55
65	High Power Energy Storage via Electrochemically Expanded and Hydrated Manganese-Rich Oxides. <i>Frontiers in Chemistry</i> , 2020, 8, 715.	1.8	5
66	Concentration and velocity profiles in a polymeric lithium-ion battery electrolyte. <i>Energy and Environmental Science</i> , 2020, 13, 4312-4321.	15.6	43
67	Over What Length Scale Does an Inorganic Substrate Perturb the Structure of a Glassy Organic Semiconductor?. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26717-26726.	4.0	22
68	Sulfur-Donor Solvents Strongly Coordinate Pb ²⁺ in Hybrid Organic-Inorganic Perovskite Precursor Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14496-14502.	1.5	38
69	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , 2020, 11, 3050.	5.8	225
70	Melting of Magnesium Borohydride under High Hydrogen Pressure: Thermodynamic Stability and Effects of Nanoconfinement. <i>Chemistry of Materials</i> , 2020, 32, 5604-5615.	3.2	18
71	<i>GIWAXS-SIRKit</i> : scattering intensity, indexing and refraction calculation toolkit for grazing-incidence wide-angle X-ray scattering of organic materials. <i>Journal of Applied Crystallography</i> , 2020, 53, 1108-1129.	1.9	22
72	NASICON Na ₃ V ₂ (PO ₄) ₃ Enables Quasi-Two-Stage Na ⁺ and Zn ²⁺ Intercalation for Multivalent Zinc Batteries. <i>Chemistry of Materials</i> , 2020, 32, 3028-3035.	3.2	75

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73	Using resonant energy X-ray diffraction to extract chemical order parameters in ternary semiconductors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4350-4356.	2.7	13
74	Synthesis of Poly(bisisoindigo) Using a Metal-Free Aldol Polymerization for Thin-Film Transistor Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14265-14271.	4.0	20
75	FA _x Cs _{1-x} PbI ₃ Nanocrystals: Tuning Crystal Symmetry by A-Site Cation Composition. <i>ACS Energy Letters</i> , 2020, 5, 2475-2482.	8.8	34
76	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. <i>Scientific Reports</i> , 2020, 10, 1981.	1.6	64
77	Toward quantifying capacity losses due to solid electrolyte interphase evolution in silicon thin film batteries. <i>Journal of Chemical Physics</i> , 2020, 152, 084702.	1.2	25
78	Molecular Orientation for Vapor-Deposited Organic Glasses Follows Rate-Temperature Superposition: The Case of Posaconazole. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2505-2513.	1.2	19
79	Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. <i>Science Advances</i> , 2020, 6, eaay4045.	4.7	88
80	Degradation mechanisms in mixed-cation and mixed-halide Cs _x FA _{1-x} Pb(Br _y I _{1-y}) ₃ perovskite films under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9302-9312.	5.2	26
81	Synthesis and Crystallization of Atomic Layer Deposition \hat{I}^2 -Eucryptite LiAlSiO ₄ Thin-Film Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56935-56942.	4.0	6
82	Hybrid Nanostructured Ni(OH) ₂ /NiO for High-Capacity Lithium-Ion Battery Anodes. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	4
83	Highly Reversible Plating/Stripping of Porous Zinc Anodes for Multivalent Zinc Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140520.	1.3	14
84	X-Ray Studies of Energy Materials. , 2020, , 1803-1824.		0
85	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2019, 21, 1900455.	1.6	45
86	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. <i>Matter</i> , 2019, 1, 180-191.	5.0	35
87	Synthesis of Polycrystalline Ruddlesden-Popper Organic Lead Halides and Their Growth Dynamics. <i>Chemistry of Materials</i> , 2019, 31, 9472-9479.	3.2	18
88	Advanced X-ray Scattering and Spectroscopy Characterization of an Antisoiling Coating for Solar Module Glass. <i>ACS Applied Energy Materials</i> , 2019, 2, 7870-7878.	2.5	5
89	Vapor deposition of a nonmesogen prepares highly structured organic glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21421-21426.	3.3	30
90	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , 2019, 4, 2805-2812.	8.8	88

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91	Effect of Extensional Flow on the Evaporative Assembly of a Donor–Acceptor Semiconducting Polymer. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2445-2454.	2.0	4
92	Generic packing motifs in vapor-deposited glasses of organic semiconductors. <i>Soft Matter</i> , 2019, 15, 7590-7595.	1.2	14
93	Shedding X-ray Light on the Interfacial Electrochemistry of Silicon Anodes for Li-Ion Batteries. <i>Accounts of Chemical Research</i> , 2019, 52, 2673-2683.	7.6	25
94	Fullerene derivative induced morphology of bulk heterojunction blends: PIPCP:PC ₆₁ BM. <i>RSC Advances</i> , 2019, 9, 4106-4112.	1.7	10
95	Metal–oxygen decoordination stabilizes anion redox in Li-rich oxides. <i>Nature Materials</i> , 2019, 18, 256-265.	13.3	280
96	Morphology of Organic Semiconductors Electrically Doped from Solution Using Phosphomolybdic Acid. <i>Chemistry of Materials</i> , 2019, 31, 6677-6683.	3.2	4
97	A map of the inorganic ternary metal nitrides. <i>Nature Materials</i> , 2019, 18, 732-739.	13.3	274
98	Augmenting n-Type Performance of Ambipolar Top-Contact Organic Thin-Film Transistors by Self-Generated Interlayers. <i>Chemistry of Materials</i> , 2019, 31, 7046-7053.	3.2	13
99	Vapor-Deposited Glass Structure Determined by Deposition Rate–Substrate Temperature Superposition Principle. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3536-3542.	2.1	33
100	Multifunctional Optical Coatings and Light Management for Photovoltaics. , 2019, , 153-173.		3
101	Ptychography of Organic Thin Films at Soft X-ray Energies. <i>Chemistry of Materials</i> , 2019, 31, 4913-4918.	3.2	7
102	Zn ₂ SbN ₃ : growth and characterization of a metastable photoactive semiconductor. <i>Materials Horizons</i> , 2019, 6, 1669-1674.	6.4	32
103	Dynamics of pore formation during laser powder bed fusion additive manufacturing. <i>Nature Communications</i> , 2019, 10, 1987.	5.8	408
104	Chemical Evolution of CoCrMo Wear Particles: An in Situ Characterization Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9894-9901.	1.5	4
105	Polyimide–PEG Segmented Block Copolymer Membranes with High Proton Conductivity by Improving Bicontinuous Nanostructure of Ionic Liquid–Doped Films. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900006.	1.1	3
106	Organic thin-film microstructure characterization. , 2019, , 489-528.		4
107	Designing a Quinone-Based Redox Mediator to Facilitate Li ₂ S Oxidation in Li-S Batteries. <i>Joule</i> , 2019, 3, 872-884.	11.7	188
108	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019, 4, 180-186.	19.8	2,101

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109	Robust and Stretchable Polymer Semiconducting Networks: From Film Microstructure to Macroscopic Device Performance. <i>Chemistry of Materials</i> , 2019, 31, 6530-6539.	3.2	37
110	Acceptor Gradient Polymer Donors for Non-Fullerene Organic Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 9729-9741.	3.2	15
111	Li gradients for Li-rich cathodes. <i>Nature Energy</i> , 2019, 4, 1014-1015.	19.8	12
112	Analysis and Simulation of One-Dimensional Transport Models for Lithium Symmetric Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3806-A3819.	1.3	12
113	Tuning the bandgap of Cs ₂ AgBiBr ₆ through dilute tin alloying. <i>Chemical Science</i> , 2019, 10, 10620-10628.	3.7	58
114	Origin of Anisotropic Molecular Packing in Vapor-Deposited Alq ₃ Glasses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 164-170.	2.1	49
115	Hydrogen Purification in Palladium-Based Membranes: An Operando X-ray Diffraction Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 926-934.	1.8	11
116	Higher Mobility and Carrier Lifetimes in Solution-Processable Small-Molecule Ternary Solar Cells with 11% Efficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1802836.	10.2	65
117	Selective brookite polymorph formation related to the amorphous precursor state in TiO ₂ thin films. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 109-114.	1.5	13
118	Solid Electrolyte Interphase on Native Oxide-Terminated Silicon Anodes for Li-Ion Batteries. <i>Joule</i> , 2019, 3, 762-781.	11.7	185
119	X-Ray Studies of Energy Materials. , 2019, , 1-22.		0
120	Every Atom Counts: Elucidating the Fundamental Impact of Structural Change in Conjugated Polymers for Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018, 30, 2995-3009.	3.2	39
121	Negative-pressure polymorphs made by heterostructural alloying. <i>Science Advances</i> , 2018, 4, eaq1442.	4.7	34
122	Carrier Transport and Recombination in Efficient All-Small-Molecule-Solar Cells with the Nonfullerene Acceptor IDTBR. <i>Advanced Energy Materials</i> , 2018, 8, 1800264.	10.2	63
123	Mixed Domains Enhance Charge Generation and Extraction in Bulk-Heterojunction Solar Cells with Small-Molecule Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702941.	10.2	43
124	Fluoroethylene Carbonate Induces Ordered Electrolyte Interface on Silicon and Sapphire Surfaces as Revealed by Sum Frequency Generation Vibrational Spectroscopy and X-ray Reflectivity. <i>Nano Letters</i> , 2018, 18, 2105-2111.	4.5	42
125	Graphene induced electrical percolation enables more efficient charge transport at a hybrid organic semiconductor/graphene interface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4422-4428.	1.3	13
126	The meniscus-guided deposition of semiconducting polymers. <i>Nature Communications</i> , 2018, 9, 534.	5.8	324

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127	The nanoscale structure of the electrolyteâ€metal oxide interface. Energy and Environmental Science, 2018, 11, 594-602.	15.6	46
128	Absence of Mixed Phase in Organic Photovoltaic Active Layers Facilitates Use of Green Solvent Processing. Journal of Physical Chemistry C, 2018, 122, 11136-11144.	1.5	10
129	An instrument for <i>in situ</i> time-resolved X-ray imaging and diffraction of laser powder bed fusion additive manufacturing processes. Review of Scientific Instruments, 2018, 89, 055101.	0.6	123
130	Morphological, Chemical, and Electronic Changes of the Conjugated Polymer PTB7 with Thermal Annealing. IScience, 2018, 2, 182-192.	1.9	37
131	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. ACS Energy Letters, 2018, 3, 1225-1232.	8.8	148
132	Langmuirâ€Blodgett Thin Films of Diketopyrrolopyrrole-Based Amphiphiles. ACS Applied Materials & Interfaces, 2018, 10, 11995-12004.	4.0	17
133	Understanding the reactivity of CoCrMo-implant wear particles. Npj Materials Degradation, 2018, 2, .	2.6	11
134	Understanding the Impact of Oligomeric Polystyrene Side Chain Arrangement on the Allâ€Polymer Solar Cell Performance. Advanced Energy Materials, 2018, 8, 1701552.	10.2	21
135	Operando Spectromicroscopy of Sulfur Species in Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2018, 165, A6043-A6050.	1.3	21
136	Acoustic phonon lifetimes limit thermal transport in methylammonium lead iodide. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11905-11910.	3.3	81
137	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. ACS Nano, 2018, 12, 12369-12379.	7.3	366
138	Compositional engineering of tin-lead halide perovskites for efficient and stable low band gap solar cells. , 2018, , .		7
139	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
140	Effect of Molecular Shape on the Properties of Non-Fullerene Acceptors: Contrasting Calamitic Versus 3D Design Principles. ACS Applied Energy Materials, 2018, 1, 6513-6523.	2.5	10
141	Impact of Surfaces on Photoinduced Halide Segregation in Mixed-Halide Perovskites. ACS Energy Letters, 2018, 3, 2694-2700.	8.8	184
142	Impact of Polymer Side Chain Modification on OPV Morphology and Performance. Chemistry of Materials, 2018, 30, 7872-7884.	3.2	38
143	Using X-ray Spectromicroscopy for Operando Characterization of Li-S Batteries. Microscopy and Microanalysis, 2018, 24, 440-441.	0.2	0
144	Zinc Blende Magnesium Sulfide in Rechargeable Magnesium-Sulfur Batteries. Chemistry of Materials, 2018, 30, 6318-6324.	3.2	29

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145	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 33187-33197.	4.0	66
146	Engineering Stress in Perovskite Solar Cells to Improve Stability. Advanced Energy Materials, 2018, 8, 1802139.	10.2	271
147	Compositional and orientational control in metal halide perovskites of reduced dimensionality. Nature Materials, 2018, 17, 900-907.	13.3	351
148	Kinetic Versus Thermodynamic Orientational Preferences for a Series of Isomorphous Molecular Semiconductors. ACS Omega, 2018, 3, 10198-10204.	1.6	15
149	Stable solvent for solution-based electrical doping of semiconducting polymer films and its application to organic solar cells. Energy and Environmental Science, 2018, 11, 2216-2224.	15.6	32
150	Electrochemical trapping of metastable Mn ³⁺ ions for activation of MnO ₂ oxygen evolution catalysts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5261-E5268.	3.3	173
151	Enhancing Molecular Alignment and Charge Transport of Solution-Sheared Semiconducting Polymer Films by the Electrical-Blade Effect. Advanced Electronic Materials, 2018, 4, 1800110.	2.6	27
152	Microstructural Evolution of the Thin Films of a Donor-Acceptor Semiconducting Polymer Deposited by Meniscus-Guided Coating. Macromolecules, 2018, 51, 4325-4340.	2.2	21
153	Understanding crystallization pathways leading to manganese oxide polymorph formation. Nature Communications, 2018, 9, 2553.	5.8	98
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