Michael F Toney

List of Publications by Year
in descending order

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411 papers	46,409 citations	1799 103 h-index	2078 204 g-index
418 all docs	418 docs citations	418 times ranked	38642 citing authors

#	Article	IF	Citations
1	Scattering techniques for mixed donorâ€“acceptor characterization in organic photovoltaics. Materials Horizons, 2022, 9, 43-60.	12.2	11
2	Vapor deposition rate modifies anisotropic glassy structure of an anthracene-based organic semiconductor. Journal of Chemical Physics, 2022, 156, 014504.	3.0	8
3	Thermodynamic guiding principles of high-capacity phase transformation materials for splitting H₂O and CO₂ by thermochemical looping. Journal of Materials Chemistry A, 2022, 10, 3552-3561.	10.3	2
4	Revealing temperature-dependent polymer aggregation in solution with small-angle X-ray scattering. Journal of Materials Chemistry A, 2022, 10, 2096-2104.	10.3	8
5	Reactive Vapor-Phase Additives toward Destabilizing Î³-Mg(BH₄)₂ for Improved Hydrogen Release. ACS Applied Energy Materials, 2022, 5, 1690-1700.	5.1	5
6	Increased crystallite size in thin films of C₆₀ and p-terphenyls via PDMS-assisted crystallization. Journal of Materials Chemistry C, 2022, 10, 5657-5665.	5.5	0
7	Influence of Annealing and Composition on the Crystal Structure of Mixed-Halide, Ruddlesdenâ€“Popper Perovskites. Chemistry of Materials, 2022, 34, 3109-3122.	6.7	27
8	Light-induced halide segregation in perovskites with wrinkled morphology. Journal of Energy Chemistry, 2022, 71, 83-88.	12.9	2
9	Mixing Matters: Nanoscale Heterogeneity and Stability in Metal Halide Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 471-480.	17.4	23
10	Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. ACS Energy Letters, 2022, 7, 461-470.	17.4	75
11	Why it is important to determine and report the impact of probe radiation. Joule, 2022, 6, 723-725.	24.0	6
12	Reaction-Mediated Transformation of Working Catalysts. ACS Catalysis, 2022, 12, 8007-8018.	11.2	6
13	Combined Effects of Uniform Applied Pressure and Electrolyte Additives in Lithium-Metal Batteries. ACS Applied Energy Materials, 2022, 5, 8273-8281.	5.1	9
14	Use of a Multiple Hydride Donor To Achieve an n-Doped Polymer with High Solvent Resistance. ACS Applied Materials & Interfaces, 2022, 14, 33598-33605.	8.0	3
15	Spin-Dependent Photovoltaic and Photogalvanic Responses of Optoelectronic Devices Based on Chiral Two-Dimensional Hybrid Organicâ€“Inorganic Perovskites. ACS Nano, 2021, 15, 588-595.	14.6	85
16	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. Science Advances, 2021, 7, .	10.3	165
17	Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox. Energy and Environmental Science, 2021, 14, 4858-4867.	30.8	29
18	Quantification of heterogeneous, irreversible lithium plating in extreme fast charging of lithium-ion batteries. Energy and Environmental Science, 2021, 14, 4979-4988.	30.8	58

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19	Achieving High Thermoelectric Performance and Metallic Transport in Solventâ€Sheared PEDOT:PSS. Advanced Electronic Materials, 2021, 7, 2001190.	5.1	32
20	Manipulation and statistical analysis of the fluid flow of polymer semiconductor solutions during meniscus-guided coating. MRS Bulletin, 2021, 46, 380-393.	3.5	5
21	In Situ Characterization of Ferroelectric HfO₂ During Rapid Thermal Annealing. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000598.	2.4	12
22	Mechanism of Additive-Assisted Room-Temperature Processing of Metal Halide Perovskite Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 13212-13225.	8.0	27
23	Using Deposition Rate and Substrate Temperature to Manipulate Liquid Crystal-Like Order in a Vapor-Deposited Hexagonal Columnar Glass. Journal of Physical Chemistry B, 2021, 125, 2761-2770.	2.6	17
24	Water-in-Salt LiTFSI Aqueous Electrolytes. 1. Liquid Structure from Combined Molecular Dynamics Simulation and Experimental Studies. Journal of Physical Chemistry B, 2021, 125, 4501-4513.	2.6	52
25	AI tool makes phase identification crystal clear. Nature Computational Science, 2021, 1, 311-312.	8.0	0
26	Electrochemical ion insertion from the atomic to the device scale. Nature Reviews Materials, 2021, 6, 847-867.	48.7	84
27	Controlling Polymer Morphology in Blade-Coated All-Polymer Solar Cells. Chemistry of Materials, 2021, 33, 5951-5961.	6.7	14
28	Orientation-Dependent Distortion of Lamellae in a Block Copolymer Electrolyte under DC Polarization. Macromolecules, 2021, 54, 7808-7821.	4.8	12
29	A Novel Glutathione S-Transferase Gtt2 Class (VpGSTT2) Is Found in the Genome of the AHPND/EMS Vibrio parahaemolyticus Shrimp Pathogen. Toxins, 2021, 13, 664.	3.4	1
30	Quantification of Efficiency in Lithium Metal Negative Electrodes via Operando X-ray Diffraction. Chemistry of Materials, 2021, 33, 7537-7545.	6.7	17
31	Water or Anion? Uncovering the Zn²⁺ Solvation Environment in Mixed Zn(TFSI)₂ and LiTFSI Water-in-Salt Electrolytes. ACS Energy Letters, 2021, 6, 3458-3463.	17.4	45
32	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. Chemistry of Materials, 2021, 33, 7315-7336.	6.7	39
33	Kinetic origins of the metastable zone width in the manganese oxide Pourbaix diagram. Journal of Materials Chemistry A, 2021, 9, 7857-7867.	10.3	7
34	Understanding Cu incorporation in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mrow><mml:mn>2</mml:mn> structure using resonant x-ray diffraction. Physical Review Materials, 2021, 5, .	2.4	3
35	Bridging the thermodynamics and kinetics of temperature-induced morphology evolution in polymer/fullerene organic solar cell bulk heterojunction. Materials Horizons, 2021, 8, 1272-1285.	12.2	21
36	Alloying a single and a double perovskite: a Cu^{+/2+} mixed-valence layered halide perovskite with strong optical absorption. Chemical Science, 2021, 12, 8689-8697.	7.4	24

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37	Improving molecular alignment and charge percolation in semiconducting polymer films with highly localized electronic states through tailored thermal annealing. Journal of Materials Chemistry C, 2021, 9, 15848-15857.	5.5	8
38	Compositional heterogeneity in Cs_yFA_{1â^'y}Pb(Br_xI_{1â^'x})₃ perovskite films and its impact on phase behavior. Energy and Environmental Science, 2021, 14, 6394-6405.	30.8	20
39	Surface equilibration mechanism controls the molecular packing of glassy molecular semiconductors at organic interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
40	Unraveling the Unconventional Order of a High-Mobility Indacenodithiopheneâ€“Benzothiadiazole Copolymer. ACS Macro Letters, 2021, 10, 1306-1314.	4.8	20
41	Emerging X-ray imaging technologies for energy materials. Materials Today, 2020, 34, 132-147.	14.2	70
42	High-capacity thermochemical CO₂ dissociation using iron-poor ferrites. Energy and Environmental Science, 2020, 13, 592-600.	30.8	23
43	Structural Origins of Light-Induced Phase Segregation in Organic-Inorganic Halide Perovskite Photovoltaic Materials. Matter, 2020, 2, 207-219.	10.0	128
44	Size-Dependent Lattice Structure and Confinement Properties in CsPbI₃ Perovskite Nanocrystals: Negative Surface Energy for Stabilization. ACS Energy Letters, 2020, 5, 238-247.	17.4	201
45	Fine-Tuning Semiconducting Polymer Self-Aggregation and Crystallinity Enables Optimal Morphology and High-Performance Printed All-Polymer Solar Cells. Journal of the American Chemical Society, 2020, 142, 392-406.	13.7	143
46	Inducing Molecular Aggregation of Polymer Semiconductors in a Secondary Insulating Polymer Matrix to Enhance Charge Transport. Chemistry of Materials, 2020, 32, 897-905.	6.7	40
47	Impact of Processing on Structural and Compositional Evolution in Mixed Metal Halide Perovskites during Film Formation. Advanced Functional Materials, 2020, 30, 2001752.	14.9	39
48	Heterogeneous Behavior of Lithium Plating during Extreme Fast Charging. Cell Reports Physical Science, 2020, 1, 100114.	5.6	49
49	Test of the Dynamic-Domain and Critical Scattering Hypotheses in Cubic Methylammonium Lead Triiodide. Physical Review Letters, 2020, 125, .	7.8	13
50	Understanding additive controlled lithium morphology in lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 16960-16972.	10.3	26
51	Covalently Linked, Two-Dimensional Quantum Dot Assemblies. Langmuir, 2020, 36, 9944-9951.	3.5	4
52	Tuning Intra and Intermolecular Interactions for Balanced Hole and Electron Transport in Semiconducting Polymers. Chemistry of Materials, 2020, 32, 7338-7346.	6.7	24
53	Preferred crystallographic orientation of cellulose in plant primary cell walls. Nature Communications, 2020, 11, 4720.	12.8	41
54	Sulfur-Donor Solvents Strongly Coordinate Pb²⁺ in Hybrid Organicâ€“Inorganic Perovskite Precursor Solutions. Journal of Physical Chemistry C, 2020, 124, 14496-14502.	3.1	38

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55	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. Nature Communications, 2020, 11, 3050.	12.8	225
56	Melting of Magnesium Borohydride under High Hydrogen Pressure: Thermodynamic Stability and Effects of Nanoconfinement. Chemistry of Materials, 2020, 32, 5604-5615.	6.7	18
57	NASICON Na₃V₂(PO₄)₃ Enables Quasi-Two-Stage Na⁺ and Zn²⁺ Intercalation for Multivalent Zinc Batteries. Chemistry of Materials, 2020, 32, 3028-3035.	6.7	75
58	Using resonant energy X-ray diffraction to extract chemical order parameters in ternary semiconductors. Journal of Materials Chemistry C, 2020, 8, 4350-4356.	5.5	13
59	Synthesis of Poly(bisisoindigo) Using a Metal-Free Aldol Polymerization for Thin-Film Transistor Applications. ACS Applied Materials & Interfaces, 2020, 12, 14265-14271.	8.0	20
60	FA_xCs_{1â€“x}PbI₃ Nanocrystals: Tuning Crystal Symmetry by A-Site Cation Composition. ACS Energy Letters, 2020, 5, 2475-2482.	17.4	34
61	Toward quantifying capacity losses due to solid electrolyte interphase evolution in silicon thin film batteries. Journal of Chemical Physics, 2020, 152, 084702.	3.0	25
62	Bottom-up synthesis of protein-based nanomaterials from engineered Î²-solenoid proteins. PLoS ONE, 2020, 15, e0229319.	2.5	10
63	Molecular Orientation for Vapor-Deposited Organic Glasses Follows Rate-Temperature Superposition: The Case of Posaconazole. Journal of Physical Chemistry B, 2020, 124, 2505-2513.	2.6	19
64	Degradation mechanisms in mixed-cation and mixed-halide Cs_xFA_{1â^'x}Pb(Br_yI_{1â^'y})₃ perovskite films under ambient conditions. Journal of Materials Chemistry A, 2020, 8, 9302-9312.	10.3	26
65	Synthesis and Crystallization of Atomic Layer Deposition Î²-Eucryptite LiAlSiO₄ Thin-Film Solid Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 56935-56942.	8.0	6
66	Highly Reversible Plating/Stripping of Porous Zinc Anodes for Multivalent Zinc Batteries. Journal of the Electrochemical Society, 2020, 167, 140520.	2.9	14
67	Synthesis of Polycrystalline Ruddlesdenâ€“Popper Organic Lead Halides and Their Growth Dynamics. Chemistry of Materials, 2019, 31, 9472-9479.	6.7	18
68	Advanced X-ray Scattering and Spectroscopy Characterization of an Antisoiling Coating for Solar Module Glass. ACS Applied Energy Materials, 2019, 2, 7870-7878.	5.1	5
69	Vapor deposition of a nonmesogen prepares highly structured organic glasses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21421-21426.	7.1	30
70	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. ACS Energy Letters, 2019, 4, 2805-2812.	17.4	88
71	Effect of Extensional Flow on the Evaporative Assembly of a Donorâ€“Acceptor Semiconducting Polymer. ACS Applied Electronic Materials, 2019, 1, 2445-2454.	4.3	4
72	Shedding X-ray Light on the Interfacial Electrochemistry of Silicon Anodes for Li-Ion Batteries. Accounts of Chemical Research, 2019, 52, 2673-2683.	15.6	25

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73	RNA binding candidates for human ADAR3 from substrates of a gain of function mutant expressed in neuronal cells. Nucleic Acids Research, 2019, 47, 10801-10814.	14.5	17
74	Fullerene derivative induced morphology of bulk heterojunction blends: PIPCP:PC₆₁BM. RSC Advances, 2019, 9, 4106-4112.	3.6	10
75	A map of the inorganic ternary metal nitrides. Nature Materials, 2019, 18, 732-739.	27.5	274
76	Augmenting n-Type Performance of Ambipolar Top-Contact Organic Thin-Film Transistors by Self-Generated Interlayers. Chemistry of Materials, 2019, 31, 7046-7053.	6.7	13
77	Vapor-Deposited Glass Structure Determined by Deposition Rateâ€“Substrate Temperature Superposition Principle. Journal of Physical Chemistry Letters, 2019, 10, 3536-3542.	4.6	33
78	Ptychography of Organic Thin Films at Soft X-ray Energies. Chemistry of Materials, 2019, 31, 4913-4918.	6.7	7
79	Carbon Acidity in Enzyme Active Sites. Frontiers in Bioengineering and Biotechnology, 2019, 7, 25.	4.1	9
80	Acceptor Gradient Polymer Donors for Non-Fullerene Organic Solar Cells. Chemistry of Materials, 2019, 31, 9729-9741.	6.7	15
81	Li gradients for Li-rich cathodes. Nature Energy, 2019, 4, 1014-1015.	39.5	12
82	Analysis and Simulation of One-Dimensional Transport Models for Lithium Symmetric Cells. Journal of the Electrochemical Society, 2019, 166, A3806-A3819.	2.9	12
83	Tuning the bandgap of Cs₂AgBiBr₆ through dilute tin alloying. Chemical Science, 2019, 10, 10620-10628.	7.4	58
84	Origin of Anisotropic Molecular Packing in Vapor-Deposited Alq3 Glasses. Journal of Physical Chemistry Letters, 2019, 10, 164-170.	4.6	49
85	Hydrogen Purification in Palladium-Based Membranes: An Operando X-ray Diffraction Study. Industrial & Engineering Chemistry Research, 2019, 58, 926-934.	3.7	11
86	Solid Electrolyte Interphase on Native Oxide-Terminated Silicon Anodes for Li-Ion Batteries. Joule, 2019, 3, 762-781.	24.0	185
87	Negative-pressure polymorphs made by heterostructural alloying. Science Advances, 2018, 4, eaaq1442.	10.3	34
88	Fluoroethylene Carbonate Induces Ordered Electrolyte Interface on Silicon and Sapphire Surfaces as Revealed by Sum Frequency Generation Vibrational Spectroscopy and X-ray Reflectivity. Nano Letters, 2018, 18, 2105-2111.	9.1	42
89	Graphene induced electrical percolation enables more efficient charge transport at a hybrid organic semiconductor/graphene interface. Physical Chemistry Chemical Physics, 2018, 20, 4422-4428.	2.8	13
90	The meniscus-guided deposition of semiconducting polymers. Nature Communications, 2018, 9, 534.	12.8	324

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91	The nanoscale structure of the electrolyteâ€“metal oxide interface. Energy and Environmental Science, 2018, 11, 594-602.	30.8	46
92	Absence of Mixed Phase in Organic Photovoltaic Active Layers Facilitates Use of Green Solvent Processing. Journal of Physical Chemistry C, 2018, 122, 11136-11144.	3.1	10
93	Morphological, Chemical, and Electronic Changes of the Conjugated Polymer PTB7 with Thermal Annealing. IScience, 2018, 2, 182-192.	4.1	37
94	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. ACS Energy Letters, 2018, 3, 1225-1232.	17.4	148
95	Langmuirâ€“Blodgett Thin Films of Diketopyrrolopyrrole-Based Amphiphiles. ACS Applied Materials & Interfaces, 2018, 10, 11995-12004.	8.0	17
96	Operando Spectromicroscopy of Sulfur Species in Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2018, 165, A6043-A6050.	2.9	21
97	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.	7.1	81
98	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. ACS Nano, 2018, 12, 12369-12379.	14.6	366
99	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.	14.9	42
100	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.	5.1	10
101	Impact of Surfaces on Photoinduced Halide Segregation in Mixed-Halide Perovskites. ACS Energy Letters, 2018, 3, 2694-2700.	17.4	184
102	Impact of Polymer Side Chain Modification on OPV Morphology and Performance. Chemistry of Materials, 2018, 30, 7872-7884.	6.7	38
103	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 33187-33197.	8.0	66
104	Engineering Stress in Perovskite Solar Cells to Improve Stability. Advanced Energy Materials, 2018, 8, 1802139.	19.5	271
105	Compositional and orientational control in metal halide perovskites of reduced dimensionality. Nature Materials, 2018, 17, 900-907.	27.5	351
106	Kinetic Versus Thermodynamic Orientational Preferences for a Series of Isomorphic Molecular Semiconductors. ACS Omega, 2018, 3, 10198-10204.	3.5	15
107	In silico stressâ€“strain measurements on self-assembled protein lattices. Soft Matter, 2018, 14, 8095-8104.	2.7	2
108	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.	30.8	32

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109	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.	7.1	173
110	Enhancing Molecular Alignment and Charge Transport of Solutionâ€Sheared Semiconducting Polymer Films by the Electricalâ€Blade Effect. Advanced Electronic Materials, 2018, 4, 1800110.	5.1	27
111	Microstructural Evolution of the Thin Films of a Donorâ€“Acceptor Semiconducting Polymer Deposited by Meniscus-Guided Coating. Macromolecules, 2018, 51, 4325-4340.	4.8	21
112	Triptycene as a Supramolecular Additive in PTB7:PCBM Blends and Its Influence on Photovoltaic Properties. ACS Applied Materials & Interfaces, 2018, 10, 24665-24678.	8.0	9
113	Novel ALD Chemistry Enabled Low-Temperature Synthesis of Lithium Fluoride Coatings for Durable Lithium Anodes. ACS Applied Materials & Interfaces, 2018, 10, 26972-26981.	8.0	99
114	Transformation from crystalline precursor to perovskite in PbCl2-derived MAPbI3. Nature Communications, 2018, 9, 3458.	12.8	77
115	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 3463-3469.	4.6	50
116	The use of poly-cation oxides to lower the temperature of two-step thermochemical water splitting. Energy and Environmental Science, 2018, 11, 2172-2178.	30.8	105
117	Thermal engineering of FAPbI3 perovskite material via radiative thermal annealing and in situ XRD. Nature Communications, 2017, 8, 14075.	12.8	149
118	Site-directed mutant libraries for isolating minimal mutations yielding functional changes. Protein Engineering, Design and Selection, 2017, 30, 347-357.	2.1	7
119	Tuning crystalline ordering by annealing and additives to study its effect on exciton diffusion in a polyalkylthiophene copolymer. Physical Chemistry Chemical Physics, 2017, 19, 12441-12451.	2.8	23
120	Radiative Thermal Annealing/in Situ X-ray Diffraction Study of Methylammonium Lead Triiodide: Effect of Antisolvent, Humidity, Annealing Temperature Profile, and Film Substrates. Chemistry of Materials, 2017, 29, 5931-5941.	6.7	35
121	Exploring the influence of iron substitution in lithium rich layered oxides Li₂Ru_{1â^'x}Fe_xO₃: triggering the anionic redox reaction. Journal of Materials Chemistry A, 2017, 5, 14387-14396.	10.3	18
122	Correlating photovoltaic properties of a PTB7-Th:PC₇₁BM blend to photophysics and microstructure as a function of thermal annealing. Journal of Materials Chemistry A, 2017, 5, 14646-14657.	10.3	61
123	Defect-Induced Band-Edge Reconstruction of a Bismuth-Halide Double Perovskite for Visible-Light Absorption. Journal of the American Chemical Society, 2017, 139, 5015-5018.	13.7	288
124	Solution-Phase Conformation and Dynamics of Conjugated Isoindigo-Based Donorâ€“Acceptor Polymer Single Chains. Journal of Physical Chemistry Letters, 2017, 8, 5479-5486.	4.6	24
125	Extraordinarily Stable Amyloid Fibrils Engineered from Structurally Defined Î²-Solenoid Proteins. Biochemistry, 2017, 56, 6041-6050.	2.5	14
126	Vapor-Deposited Glasses with Long-Range Columnar Liquid Crystalline Order. Chemistry of Materials, 2017, 29, 9110-9119.	6.7	25

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127	High-performance sodiumâ€“organic battery by realizing four-sodium storage in disodium rhodizonate. Nature Energy, 2017, 2, 861-868.	39.5	372
128	Mechanism of Tin Oxidation and Stabilization by Lead Substitution in Tin Halide Perovskites. ACS Energy Letters, 2017, 2, 2159-2165.	17.4	351
129	Versatile Interpenetrating Polymer Network Approach to Robust Stretchable Electronic Devices. Chemistry of Materials, 2017, 29, 7645-7652.	6.7	101
130	Vanadium As a Potential Membrane Material for Carbon Capture: Effects of Minor Flue Gas Species. Environmental Science & Technology, 2017, 51, 11459-11467.	10.0	9
131	The Atomic Scale Electrochemical Lithiation and Delithiation Process of Silicon. Advanced Materials Interfaces, 2017, 4, 1700771.	3.7	39
132	Using heterostructural alloying to tune the structure and properties of the thermoelectric Sn_{1â^'x}Ca_xSe. Journal of Materials Chemistry A, 2017, 5, 16873-16882.	10.3	19
133	Unique Reversible Crystal-to-Crystal Phase Transitionâ€”Structural and Functional Properties of Fused Ladder Thienoarenes. Chemistry of Materials, 2017, 29, 7686-7696.	6.7	8
134	Simplified Models for Accelerated Structural Prediction of Conjugated Semiconducting Polymers. Journal of Physical Chemistry C, 2017, 121, 26528-26538.	3.1	11
135	High-fraction brookite films from amorphous precursors. Scientific Reports, 2017, 7, 15232.	3.3	56
136	High Tensile Strength of Engineered Î²-Solenoid Fibrils via Sonication and Pulling. Biophysical Journal, 2017, 113, 1945-1955.	0.5	7
137	Band Gap Tuning via Lattice Contraction and Octahedral Tilting in Perovskite Materials for Photovoltaics. Journal of the American Chemical Society, 2017, 139, 11117-11124.	13.7	570
138	Local Mechanical Perturbation Provides an Effective Means to Regulate the Growth and Assembly of Functional Peptide Fibrils. Small, 2016, 12, 6407-6415.	10.0	6
139	Biological conversion of gaseous alkenes to liquid chemicals. Metabolic Engineering, 2016, 38, 98-104.	7.0	13
140	The formation mechanism for printed silver-contacts for silicon solar cells. Nature Communications, 2016, 7, 11143.	12.8	106
141	Hybrid Organicâ€“Inorganic Perovskites (HOIPs): Opportunities and Challenges. Advanced Materials, 2015, 27, 5102-5112.	21.0	372
142	Storage Capacity and Cycling Stability in Ge Anodes: Relationship of Anode Structure and Cycling Rate. Advanced Energy Materials, 2015, 5, 1500599.	19.5	51
143	Extraction of pore-morphology and capillary pressure curves of porous media from synchrotron-based tomography data. Scientific Reports, 2015, 5, 10635.	3.3	20
144	Rapid thermal processing chamber for in-situ x-ray diffraction. Review of Scientific Instruments, 2015, 86, 013902.	1.3	15

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145	Structural Characterization of Vapor-Deposited Glasses of an Organic Hole Transport Material with X-ray Scattering. Chemistry of Materials, 2015, 27, 3341-3348.	6.7	78
146	Engineering Amyloid Fibrils from Î²-Solenoid Proteins for Biomaterials Applications. ACS Nano, 2015, 9, 449-463.	14.6	60
147	Emerging In Situ and Operando Nanoscale Xâ€Ray Imaging Techniques for Energy Storage Materials. Advanced Functional Materials, 2015, 25, 1622-1637.	14.9	95
148	Thermotropic Phase Transition of Benzodithiophene Copolymer Thin Films and Its Impact on Electrical and Photovoltaic Characteristics. Chemistry of Materials, 2015, 27, 1223-1232.	6.7	12
149	X-Ray Absorption Spectroscopy Study of Structure and Stability of Disordered (Cu<inline-formula> <tex-math>$_{f) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 592 Td (2}$</tex-math></inline-formula> <tex-math>$(ZnS)_{1-x}$</tex-math></inline-formula>(ZnS)<inline-formula><tex-math>$_{f x}$</tex-math> </inline-formula> Alloys. IEEE Journal of Photovoltaics, 2015, 5, 372-377.	2.5	15
150	Effects of aromatic regularity on the structure and conductivity of polyimideâ€poly(ethylene glycol) materials doped with ionic liquid. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 509-521.	2.1	8
151	Registration of the rotation axis in X-ray tomography. Journal of Synchrotron Radiation, 2015, 22, 452-457.	2.4	19
152	Conversion of Aminodeoxychorismate Synthase into Anthranilate Synthase with Janus Mutations: Mechanism of Pyruvate Elimination Catalyzed by Chorismate Enzymes. Biochemistry, 2015, 54, 2372-2384.	2.5	14
153	Reversible Multivalent (Monovalent, Divalent, Trivalent) Ion Insertion in Open Framework Materials. Advanced Energy Materials, 2015, 5, 1401869.	19.5	185
154	Tunable mesoscale-structured self-assembled hydrogels synthesized by organocatalytic ring-opening polymerization. Polymer, 2015, 65, 93-104.	3.8	2
155	Effect of Solution Shearing Method on Packing and Disorder of Organic Semiconductor Polymers. Chemistry of Materials, 2015, 27, 2350-2359.	6.7	92
156	Flow-enhanced solution printing of all-polymer solar cells. Nature Communications, 2015, 6, 7955.	12.8	221
157	Effect of Al₂O₃ Coating on Stabilizing LiNi_{0.4}Mn_{0.4}Co_{0.2}O₂ Cathodes. Chemistry of Materials, 2015, 27, 6146-6154.	6.7	185
158	Directed evolution of the substrate specificity of dialkylglycine decarboxylase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 146-155.	2.3	14
159	Ultrafast Electron Transfer at Organic Semiconductor Interfaces: Importance of Molecular Orientation. Journal of Physical Chemistry Letters, 2015, 6, 6-12.	4.6	52
160	Nitrate reductase 15N discrimination in Arabidopsis thaliana, Zea mays, Aspergillus niger, Pichea angusta, and Escherichia coli. Frontiers in Plant Science, 2014, 5, 317.	3.6	16
161	Spectromicroscopy and coherent diffraction imaging: focus on energy materials applications. Journal of Synchrotron Radiation, 2014, 21, 1019-1030.	2.4	27
162	Dependence of Crystallite Formation and Preferential Backbone Orientations on the Side Chain Pattern in PBDTTPD Polymers. ACS Applied Materials & Interfaces, 2014, 6, 19477-19481.	8.0	36

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