

Michael F Toney

List of Publications by Year in Descending Order

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

541
papers

49,812
citations

114
h-index

208
g-index

570
ext. papers

55,039
ext. citations

11
avg, IF

7.6
L-index

#	Paper	IF	Citations
541	Vapor deposition rate modifies anisotropic glassy structure of an anthracene-based organic semiconductor.. <i>Journal of Chemical Physics</i> , 2022 , 156, 014504	3.9	1
540	Increased crystallite size in thin films of C60 and p-terphenyls via PDMS-assisted crystallization. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5657-5665	7.1	
539	Phonons in Metal Halide Perovskites 2022 , 1-35		
538	Mixing Matters: Nanoscale Heterogeneity and Stability in Metal Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022 , 7, 471-480	20.1	6
537	Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. <i>ACS Energy Letters</i> , 2022 , 7, 461-470	20.1	11
536	Why it is important to determine and report the impact of probe radiation. <i>Joule</i> , 2022 , 6, 723-725	27.8	1
535	Scattering techniques for mixed donor-acceptor characterization in organic photovoltaics. <i>Materials Horizons</i> , 2021 ,	14.4	5
534	Using In Situ 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	6.1	4
533	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,	11.5	3
532	Unraveling the Unconventional Order of a High-Mobility Indacenodithiophene-Benzothiadiazole Copolymer.. <i>ACS Macro Letters</i> , 2021 , 10, 1306-1314	6.6	2
531	Stable Glasses of Organic Semiconductor Resist Crystallization. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 461-466	3.4	4
530	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	21.8	41
529	Fictitious phase separation in Li layered oxides driven by electro-autocatalysis. <i>Nature Materials</i> , 2021 , 20, 991-999	27	27
528	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	3.4	5
527	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	3.4	16
526	Electrochemical ion insertion from the atomic to the device scale. <i>Nature Reviews Materials</i> , 2021 , 6, 847-867	73.3	19
525	Persistent and partially mobile oxygen vacancies in Li-rich layered oxides. <i>Nature Energy</i> , 2021 , 6, 642-650	2.3	24

524	Controlling Polymer Morphology in Blade-Coated All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2021 , 33, 5951-5961	9.6	5
523	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	3.6	7
522	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	16.4	16
521	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. <i>Science Advances</i> , 2021 , 7,	14.3	56
520	Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox. <i>Energy and Environmental Science</i> , 2021 , 14, 4858-4867	35.4	6
519	Quantification of heterogeneous, irreversible lithium plating in extreme fast charging of lithium-ion batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 4979-4988	35.4	16
518	Achieving High Thermoelectric Performance and Metallic Transport in Solvent-Sheared PEDOT:PSS. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001190	6.4	13
517	In Situ Characterization of Ferroelectric HfO ₂ During Rapid Thermal Annealing. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000598	2.5	4
516	Mechanism of Additive-Assisted Room-Temperature Processing of Metal Halide Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13212-13225	9.5	13
515	Orientation-Dependent Distortion of Lamellae in a Block Copolymer Electrolyte under DC Polarization. <i>Macromolecules</i> , 2021 , 54, 7808-7821	5.5	4
514	Quantification of Efficiency in Lithium Metal Negative Electrodes via Operando X-ray Diffraction. <i>Chemistry of Materials</i> , 2021 , 33, 7537-7545	9.6	4
513	Toward Unraveling the Origin of Lithium Fluoride in the Solid Electrolyte Interphase. <i>Chemistry of Materials</i> , 2021 , 33, 7315-7336	9.6	10
512	Kinetic origins of the metastable zone width in the manganese oxide Pourbaix diagram. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7857-7867	13	0
511	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	14.4	7
510	Alloying a single and a double perovskite: a Cu mixed-valence layered halide perovskite with strong optical absorption. <i>Chemical Science</i> , 2021 , 12, 8689-8697	9.4	10
509	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	9.5	9
508	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	3.8	21
507	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , 2020 , 11, 3050	17.4	97

506	Melting of Magnesium Borohydride under High Hydrogen Pressure: Thermodynamic Stability and Effects of Nanoconfinement. <i>Chemistry of Materials</i> , 2020 , 32, 5604-5615	9.6	9
505	GIWAXS-SIIRkit: 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	3.8	10
504	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	9.6	40
503	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	7.1	10
502	Synthesis of Poly(bisindigo) Using a Metal-Free Aldol Polymerization for Thin-Film Transistor Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14265-14271	9.5	13
501	FAXCs _{1-x} Pb ₃ Nanocrystals: Tuning Crystal Symmetry by A-Site Cation Composition. <i>ACS Energy Letters</i> , 2020 , 5, 2475-2482	20.1	14
500	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. <i>Scientific Reports</i> , 2020 , 10, 1981	4.9	29
499	Toward quantifying capacity losses due to solid electrolyte interphase evolution in silicon thin film batteries. <i>Journal of Chemical Physics</i> , 2020 , 152, 084702	3.9	18
498	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	3.4	11
497	Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. <i>Science Advances</i> , 2020 , 6, eaay4045	14.3	53
496	Degradation mechanisms in mixed-cation and mixed-halide Cs _x FA _{1-x} Pb(BryI _{1-y}) ₃ perovskite films under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9302-9312	13	14
495	Hybrid Nanostructured Ni(OH) ₂ /NiO for High-Capacity Lithium-Ion Battery Anodes. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020 , 17,	2	2
494	Highly Reversible Plating/Stripping of Porous Zinc Anodes for Multivalent Zinc Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 140520	3.9	5
493	X-Ray Studies of Energy Materials 2020 , 1803-1824		
492	Synthesis and Crystallization of Atomic Layer Deposition Eucryptite LiAlSiO ₄ Thin-Film Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56935-56942	9.5	2
491	High-capacity thermochemical CO ₂ dissociation using iron-poor ferrites. <i>Energy and Environmental Science</i> , 2020 , 13, 592-600	35.4	12
490	Structural Origins of Light-Induced Phase Segregation in Organic-Inorganic Halide Perovskite Photovoltaic Materials. <i>Matter</i> , 2020 , 2, 207-219	12.7	77
489	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	20.1	95

488	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	16.4	98
487	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	9.6	25
486	Impact of Processing on Structural and Compositional Evolution in Mixed Metal Halide Perovskites during Film Formation. <i>Advanced Functional Materials</i> , 2020 , 30, 2001752	15.6	22
485	Heterogeneous Behavior of Lithium Plating during Extreme Fast Charging. <i>Cell Reports Physical Science</i> , 2020 , 1, 100114	6.1	29
484	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	8.1	11
483	Test of the Dynamic-Domain and Critical Scattering Hypotheses in Cubic Methylammonium Lead Triiodide. <i>Physical Review Letters</i> , 2020 , 125,	7.4	7
482	Advanced Characterization in Clean Water Technologies. <i>Joule</i> , 2020 , 4, 1637-1659	27.8	13
481	Understanding additive controlled lithium morphology in lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16960-16972	13	12
480	Covalently Linked, Two-Dimensional Quantum Dot Assemblies. <i>Langmuir</i> , 2020 , 36, 9944-9951	4	1
479	Tuning Intra and Intermolecular Interactions for Balanced Hole and Electron Transport in Semiconducting Polymers. <i>Chemistry of Materials</i> , 2020 , 32, 7338-7346	9.6	12
478	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	16.4	12
477	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	3.6	6
476	Preferred crystallographic orientation of cellulose in plant primary cell walls. <i>Nature Communications</i> , 2020 , 11, 4720	17.4	12
475	Time-Resolved Structural Kinetics of an Organic Mixed Ionic-Electronic Conductor. <i>Advanced Materials</i> , 2020 , 32, e2003404	24	25
474	High Power Energy Storage via Electrochemically Expanded and Hydrated Manganese-Rich Oxides. <i>Frontiers in Chemistry</i> , 2020 , 8, 715	5	1
473	Concentration and velocity profiles in a polymeric lithium-ion battery electrolyte. <i>Energy and Environmental Science</i> , 2020 , 13, 4312-4321	35.4	17
472	Emerging X-ray imaging technologies for energy materials. <i>Materials Today</i> , 2020 , 34, 132-147	21.8	38
471	Generic packing motifs in vapor-deposited glasses of organic semiconductors. <i>Soft Matter</i> , 2019 , 15, 7590-7595	3.6	11

470	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	24.3	13
469	Fullerene derivative induced morphology of bulk heterojunction blends: PIPCP:PCBM.. <i>RSC Advances</i> , 2019 , 9, 4106-4112	3.7	7
468	Metal-oxygen decoordination stabilizes anion redox in Li-rich oxides. <i>Nature Materials</i> , 2019 , 18, 256-265	27	178
467	Morphology of Organic Semiconductors Electrically Doped from Solution Using Phosphomolybdic Acid. <i>Chemistry of Materials</i> , 2019 , 31, 6677-6683	9.6	2
466	A map of the inorganic ternary metal nitrides. <i>Nature Materials</i> , 2019 , 18, 732-739	27	148
465	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	9.6	9
464	Vapor-Deposited Glass Structure Determined by Deposition Rate-Substrate Temperature Superposition Principle. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3536-3542	6.4	21
463	Multifunctional Optical Coatings and Light Management for Photovoltaics 2019 , 153-173		2
462	Ptychography of Organic Thin Films at Soft X-ray Energies. <i>Chemistry of Materials</i> , 2019 , 31, 4913-4918	9.6	5
461	Zn ₂ SbN ₃ : growth and characterization of a metastable photoactive semiconductor. <i>Materials Horizons</i> , 2019 , 6, 1669-1674	14.4	13
460	Dynamics of pore formation during laser powder bed fusion additive manufacturing. <i>Nature Communications</i> , 2019 , 10, 1987	17.4	223
459	Chemical Evolution of CoCrMo Wear Particles: An in Situ Characterization Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9894-9901	3.8	2
458	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	2.6	2
457	Organic thin-film microstructure characterization 2019 , 489-528		1
456	Designing a Quinone-Based Redox Mediator to Facilitate Li ₂ S Oxidation in Li-S Batteries. <i>Joule</i> , 2019 , 3, 872-884	27.8	114
455	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019 , 4, 180-186	62.3	1202
454	Laser-Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900455	3.5	23
453	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. <i>Matter</i> , 2019 , 1, 180-191	12.7	27

452	Synthesis of Polycrystalline Ruddlesden-Popper Organic Lead Halides and Their Growth Dynamics. <i>Chemistry of Materials</i> , 2019 , 31, 9472-9479	9.6	12
451	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	6.1	5
450	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	11.5	20
449	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	20.1	51
448	Effect of Extensional Flow on the Evaporative Assembly of a Donor-Acceptor Semiconducting Polymer. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2445-2454	4	1
447	X-Ray Studies of Energy Materials 2019 , 1-22		
446	Robust and Stretchable Polymer Semiconducting Networks: From Film Microstructure to Macroscopic Device Performance. <i>Chemistry of Materials</i> , 2019 , 31, 6530-6539	9.6	19
445	Acceptor Gradient Polymer Donors for Non-Fullerene Organic Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 9729-9741	9.6	10
444	Analysis and Simulation of One-Dimensional Transport Models for Lithium Symmetric Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3806-A3819	3.9	7
443	Tuning the bandgap of CsAgBiBr through dilute tin alloying. <i>Chemical Science</i> , 2019 , 10, 10620-10628	9.4	37
442	Origin of Anisotropic Molecular Packing in Vapor-Deposited Alq3 Glasses. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 164-170	6.4	30
441	Hydrogen Purification in Palladium-Based Membranes: An Operando X-ray Diffraction Study. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 926-934	3.9	4
440	Higher Mobility and Carrier Lifetimes in Solution-Processable Small-Molecule Ternary Solar Cells with 11% Efficiency. <i>Advanced Energy Materials</i> , 2019 , 9, 1802836	21.8	52
439	Selective brookite polymorph formation related to the amorphous precursor state in TiO2 thin films. <i>Journal of Non-Crystalline Solids</i> , 2019 , 505, 109-114	3.9	8
438	Solid Electrolyte Interphase on Native Oxide-Terminated Silicon Anodes for Li-Ion Batteries. <i>Joule</i> , 2019 , 3, 762-781	27.8	109
437	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	9.6	33
436	Negative-pressure polymorphs made by heterostructural alloying. <i>Science Advances</i> , 2018 , 4, eaq1442	14.3	25
435	Carrier Transport and Recombination in Efficient All-Small-Molecule Solar Cells with the Nonfullerene Acceptor IDTBR. <i>Advanced Energy Materials</i> , 2018 , 8, 1800264	21.8	52

434	Mixed Domains Enhance Charge Generation and Extraction in Bulk-Heterojunction Solar Cells with Small-Molecule Donors. <i>Advanced Energy Materials</i> , 2018 , 8, 1702941	21.8	34
433	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	11.5	35
432	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	3.6	12
431	The meniscus-guided deposition of semiconducting polymers. <i>Nature Communications</i> , 2018 , 9, 534	17.4	214
430	The nanoscale structure of the electrolyte/metal oxide interface. <i>Energy and Environmental Science</i> , 2018 , 11, 594-602	35.4	30
429	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	3.8	10
428	An instrument for in situ time-resolved X-ray imaging and diffraction of laser powder bed fusion additive manufacturing processes. <i>Review of Scientific Instruments</i> , 2018 , 89, 055101	1.7	91
427	Morphological, Chemical, and Electronic Changes of the Conjugated Polymer PTB7 with Thermal Annealing. <i>IScience</i> , 2018 , 2, 182-192	6.1	29
426	Controlling Thin-Film Stress and Wrinkling during Perovskite Film Formation. <i>ACS Energy Letters</i> , 2018 , 3, 1225-1232	20.1	108
425	Langmuir-Blodgett Thin Films of Diketopyrrolopyrrole-Based Amphiphiles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11995-12004	9.5	13
424	Understanding the reactivity of CoCrMo-implant wear particles. <i>Npj Materials Degradation</i> , 2018 , 2,	5.7	7
423	Understanding the Impact of Oligomeric Polystyrene Side Chain Arrangement on the All-Polymer Solar Cell Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1701552	21.8	19
422	Triptycene as a Supramolecular Additive in PTB7:PCBM Blends and Its Influence on Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24665-24678	9.5	5
421	Tin/lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2450-2459	5.8	127
420	Novel ALD Chemistry Enabled Low-Temperature Synthesis of Lithium Fluoride Coatings for Durable Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26972-26981	9.5	66
419	Theory-Guided Synthesis of a Metastable Lead-Free Piezoelectric Polymorph. <i>Advanced Materials</i> , 2018 , 30, e1800559	24	4
418	Understanding Chemomechanical Li-ion Cathode Degradation through Multi-Scale, Multi-Modal X-ray Spectromicroscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 426-427	0.5	1
417	Transformation from crystalline precursor to perovskite in PbCl ₂ -derived MAPbI ₃ . <i>Nature Communications</i> , 2018 , 9, 3458	17.4	59

4 ¹⁶	Solvent Additives: Key Morphology-Directing Agents for Solution-Processed Organic Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1707114	24	228
4 ¹⁵	Humidity-Induced Photoluminescence Hysteresis in Variable Cs/Br Ratio Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3463-3469	6.4	35
4 ¹⁴	The use of poly-cation oxides to lower the temperature of two-step thermochemical water splitting. <i>Energy and Environmental Science</i> , 2018 , 11, 2172-2178	35.4	65
4 ¹³	Operando Spectromicroscopy of Sulfur Species in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A6043-A6050	3.9	18
4 ¹²	Acoustic phonon lifetimes limit thermal transport in methylammonium lead iodide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11905-11910	11.5	52
4 ¹¹	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. <i>ACS Nano</i> , 2018 , 12, 12369-12379	16.7	220
4 ¹⁰	Compositional engineering of tin-lead halide perovskites for efficient and stable low band gap solar cells 2018 ,		4
4 ⁰⁹	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	15.6	26
4 ⁰⁸	Effect of Molecular Shape on the Properties of Non-Fullerene Acceptors: Contrasting Calamitic Versus 3D Design Principles. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6513-6523	6.1	9
4 ⁰⁷	Impact of Surfaces on Photoinduced Halide Segregation in Mixed-Halide Perovskites. <i>ACS Energy Letters</i> , 2018 , 3, 2694-2700	20.1	117
4 ⁰⁶	Impact of Polymer Side Chain Modification on OPV Morphology and Performance. <i>Chemistry of Materials</i> , 2018 , 30, 7872-7884	9.6	32
4 ⁰⁵	Using X-ray Spectromicroscopy for Operando Characterization of Li-S Batteries. <i>Microscopy and Microanalysis</i> , 2018 , 24, 440-441	0.5	
4 ⁰⁴	Zinc Blende Magnesium Sulfide in Rechargeable Magnesium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 6318-6324	9.6	25
4 ⁰³	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33187-33197	9.5	52
4 ⁰²	Engineering Stress in Perovskite Solar Cells to Improve Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1802139	21.8	148
4 ⁰¹	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018 , 17, 900-907	27	252
4 ⁰⁰	Kinetic Versus Thermodynamic Orientational Preferences for a Series of Isomorphous Molecular Semiconductors. <i>ACS Omega</i> , 2018 , 3, 10198-10204	3.9	10
399	Stable solvent for solution-based electrical doping of semiconducting polymer films and its application to organic solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 2216-2224	35.4	26

398	Electrochemical trapping of metastable Mn ions for activation of MnO oxygen evolution catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5261-E5268	11.5	129
397	Enhancing Molecular Alignment and Charge Transport of Solution-Sheared Semiconducting Polymer Films by the Electrical-Blade Effect. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800110	6.4	21
396	Microstructural Evolution of the Thin Films of a Donor-Acceptor Semiconducting Polymer Deposited by Meniscus-Guided Coating. <i>Macromolecules</i> , 2018 , 51, 4325-4340	5.5	15
395	Understanding crystallization pathways leading to manganese oxide polymorph formation. <i>Nature Communications</i> , 2018 , 9, 2553	17.4	65
394	Perovskite-Inspired Photovoltaic Materials: Toward Best Practices in Materials Characterization and Calculations. <i>Chemistry of Materials</i> , 2017 , 29, 1964-1988	9.6	87
393	Evolution of Iodoplumbate Complexes in Methylammonium Lead Iodide Perovskite Precursor Solutions. <i>Chemistry of Materials</i> , 2017 , 29, 1315-1320	9.6	69
392	Highly Organized Smectic-like Packing in Vapor-Deposited Glasses of a Liquid Crystal. <i>Chemistry of Materials</i> , 2017 , 29, 849-858	9.6	27
391	Electric Field Tuning Molecular Packing and Electrical Properties of Solution-Shearing Coated Organic Semiconducting Thin Films. <i>Advanced Functional Materials</i> , 2017 , 27, 1605503	15.6	41
390	Thermal engineering of FAPbI perovskite material via radiative thermal annealing and in situ XRD. <i>Nature Communications</i> , 2017 , 8, 14075	17.4	110
389	Mixing Behavior in Small Molecule:Fullerene Organic Photovoltaics. <i>Chemistry of Materials</i> , 2017 , 29, 3062-3069	9.6	68
388	A highly stretchable, transparent, and conductive polymer. <i>Science Advances</i> , 2017 , 3, e1602076	14.3	674
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