Tobin J Marks

List of Publications by Year in Descending Order

747 papers	67,639 citations	129 h-index	237 g-index
792 ext. papers	73,659 ext. citations	12.4 avg, IF	8.24 L-index

#	Paper	IF	Citations
747	Efficient room temperature catalytic synthesis of alternating conjugated copolymers via C-S bond activation.. *Nature Communications*, **2022**, 13, 144	17.4	2
746	Diverse Mechanistic Pathways in Single-Site Heterogeneous Catalysis: Alcohol Conversions Mediated by a High-Valent Carbon-Supported Molybdenum-Dioxo Catalyst. *ACS Catalysis*, **2022**, 12, 1247-1257	13.1	1
745	16.3% Efficiency binary all-polymer solar cells enabled by a novel polymer acceptor with an asymmetrical selenophene-fused backbone. *Science China Chemistry*, **2022**, 65, 309-317	7.9	12
744	Low-Temperature Thin-Film Combustion Synthesis of Metal-Oxide Semiconductors: Science and Technology **2022**, 159-184		
743	Synthesis and Structure-Activity Characterization of a Single-Site MoO Catalytic Center Anchored on Reduced Graphene Oxide.. *Journal of the American Chemical Society*, **2021**, 143, 21532-21540	16.4	2
742	Symmetry-Breaking Charge Separation in Phenylene-Bridged Perylenediimide Dimers. *Journal of Physical Chemistry A*, **2021**, 125, 7633-7643	2.8	5
741	Vertically Stacked Full Color Quantum Dots Phototransistor Arrays for High-Resolution and Enhanced Color-Selective Imaging. *Advanced Materials*, **2021**, e2106215	24	4
740	Mechanistic Investigation of Molybdenum Disulfide Defect Photoluminescence Quenching by Adsorbed Metallophthalocyanines. *Journal of the American Chemical Society*, **2021**, 143, 17153-17161	16.4	2
739	Flexible complementary circuits operating at sub-0.5 V via hybrid organic-inorganic electrolyte-gated transistors. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
738	Recent Advances in Multi-Layer Light-Emitting Heterostructure Transistors. *Small*, **2021**, 17, e2007661	11	7
737	Porous Semiconducting Polymers Enable High-Performance Electrochemical Transistors. *Advanced Materials*, **2021**, 33, e2007041	24	23
736	Catalyst Deactivation by Carbon Deposition: The Remarkable Case of Nickel Confined by Atomic Layer Deposition. *ChemCatChem*, **2021**, 13, 2988-3000	5.2	2
735	Self-Assembled Nanodielectrics for Solution-Processed Top-Gate Amorphous IGZO Thin-Film Transistors. *ACS Applied Materials & Interfaces*, **2021**, 13, 15399-15408	9.5	8
734	Beyond the Active Site. Cp*ZrMe3/Sulfated Alumina-Catalyzed Olefin Polymerization Tacticity via Catalyst???Surface Ion-Pairing. *ChemCatChem*, **2021**, 13, 2564-2569	5.2	0
733	Suppressed Oxidation and Photodarkening of Hybrid Tin Iodide Perovskite Achieved with Reductive Organic Small Molecule. *ACS Applied Energy Materials*, **2021**, 4, 4704-4710	6.1	2
732	Amorphous to Crystal Phase Change Memory Effect with Two-Fold Bandgap Difference in Semiconducting KBiSe. *Journal of the American Chemical Society*, **2021**, 143, 6221-6228	16.4	1
731	Systematic Merging of Nonfullerene Acceptor Extension and Tetrafluorination Strategies Affords Polymer Solar Cells with >16% Efficiency. *Journal of the American Chemical Society*, **2021**, 143, 6123-6139	16.4	34

730	Electronic Structure of Metallophthalocyanines, MPc (M = Fe, Co, Ni, Cu, Zn, Mg) and Fluorinated MPc. *Journal of Physical Chemistry A*, **2021**, 125, 4055-4061	2.8	6
729	Leveraging Molecular Properties to Tailor Mixed-Dimensional Heterostructures beyond Energy Level Alignment. *Journal of Physical Chemistry Letters*, **2021**, 12, 4543-4557	6.4	4
728	Doping Indium Oxide Films with Amino-Polymers of Varying Nitrogen Content Markedly Affects Charge Transport and Mechanical Flexibility. *Advanced Functional Materials*, **2021**, 31, 2100451	15.6	3
727	"Soft" oxidative coupling of methane to ethylene: Mechanistic insights from combined experiment and theory. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
726	Valley-selective optical Stark effect of exciton-polaritons in a monolayer semiconductor. *Nature Communications*, **2021**, 12, 4530	17.4	3
725	Alternative Oxidants for the Catalytic Oxidative Coupling of Methane. *Angewandte Chemie - International Edition*, **2021**, 60, 10502-10515	16.4	18
724	Tailoring the Optical Response of Pentacene Thin Films via Templated Growth on Hexagonal Boron Nitride. *Journal of Physical Chemistry Letters*, **2021**, 12, 26-31	6.4	3
723	Alternative Oxidants for the Catalytic Oxidative Coupling of Methane. *Angewandte Chemie*, **2021**, 133, 10596-10609	3.6	1
722	Ultraviolet Light-Densified Oxide-Organic Self-Assembled Dielectrics: Processing Thin-Film Transistors at Room Temperature. *ACS Applied Materials & Interfaces*, **2021**, 13, 3445-3453	9.5	4
721	Synthesis and Characterization of a Well-Defined Carbon Nanohorn-Supported Molybdenum Dioxo Catalyst by SMART-EM Imaging. Surface Structure at the Atomic Level. *Bulletin of the Chemical Society of Japan*, **2021**, 94, 427-432	5.1	8
720	Homoleptic Lanthanide Amide Catalysts for Organic Synthesis: Experiment and Theory. *ACS Catalysis*, **2021**, 11, 2715-2734	13.1	16
719	Surface vs Homogeneous Organo-Hafnium Catalyst Ion-Pairing and Ligand Effects on Ethylene Homo- and Copolymerizations. *ACS Catalysis*, **2021**, 11, 3239-3250	13.1	5
718	Processable High Electron Mobility Copolymers via Mesoscale Backbone Conformational Ordering. *Advanced Functional Materials*, **2021**, 31, 2009359	15.6	4
717	Carbon Free and Noble Metal Free Ni2Mo6S8 Electrocatalyst for Selective Electrosynthesis of H2O2. *Advanced Functional Materials*, **2021**, 31, 2104716	15.6	10
716	Transition-Metal-Free Homopolymerization of Pyrrolo[2,3-:5,4-']bisthiazoles via Nucleophilic Aromatic Substitution. *ACS Applied Materials & Interfaces*, **2021**, 13, 41094-41101	9.5	0
715	Foundry-compatible high-resolution patterning of vertically phase-separated semiconducting films for ultraflexible organic electronics. *Nature Communications*, **2021**, 12, 4937	17.4	4
714	New Opportunities for High-Performance Source-Gated Transistors Using Unconventional Materials. *Advanced Science*, **2021**, 8, e2101473	13.6	5
713	Molecular Encapsulation of Naphthalene Diimide (NDI) Based Conjugated Polymers: A Tool for Understanding Photoluminescence. *Angewandte Chemie - International Edition*, **2021**, 60, 25005-25012	16.4	3

712	Regiospecific -alkyl substitution tunes the molecular packing of high-performance non-fullerene acceptors. *Materials Horizons*, **2021**,	14.4	5
711	High-Efficiency All-Polymer Solar Cells with Poly-Small-Molecule Acceptors Having Extended Units with Broad Near-IR Absorption. *ACS Energy Letters*, **2021**, 6, 728-738	20.1	35
710	Dielectric materials for electrolyte gated transistor applications. *Journal of Materials Chemistry C*, **2021**, 9, 9348-9376	7.1	6
709	Range-separated hybrid functionals for mixed dimensional heterojunctions: Application to phthalocyanines/MoS2. *APL Materials*, **2021**, 9, 121112	5.7	3
708	Fluorinating Extended Molecular Acceptors Yields Highly Connected Crystal Structures and Low Reorganization Energies for Efficient Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2000635	21.8	45
707	Readily Accessible Benzo[d]thiazole Polymers for Nonfullerene Solar Cells with >16% Efficiency and Potential Pitfalls. *ACS Energy Letters*, **2020**, 5, 1780-1787	20.1	31
706	Flexible and stretchable metal oxide nanofiber networks for multimodal and monolithically integrated wearable electronics. *Nature Communications*, **2020**, 11, 2405	17.4	73
705	Frequency-Agile Low-Temperature Solution-Processed Alumina Dielectrics for Inorganic and Organic Electronics Enhanced by Fluoride Doping. *Journal of the American Chemical Society*, **2020**, 142, 12440-12452	16.4	14
704	Breath figure-derived porous semiconducting films for organic electronics. *Science Advances*, **2020**, 6, eaaz1042	14.3	33
703	Cross-Plane Thermal Conductance of Phosphonate-Based Self-Assembled Monolayers and Self-Assembled Nanodielectrics. *ACS Applied Materials & Interfaces*, **2020**, 12, 34901-34909	9.5	1
702	Mixed-flow design for microfluidic printing of two-component polymer semiconductor systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 17551-17557	11.5	12
701	High Ethylene-Yield Oxidative Dehydrogenation of Ethane Using Sulfur Vapor as a âSoftâOxidant. *ChemCatChem*, **2020**, 12, 4538-4542	5.2	4
700	Versatile catalytic strategy for polar-functionalized, cross-linkable, self-healing, and photo-responsive polyolefins. *Science Bulletin*, **2020**, 65, 605-606	10.6	1
699	Early Transition Metal Catalysis for Olefinâ Polar Monomer Copolymerization. *Angewandte Chemie*, **2020**, 132, 14834-14843	3.6	13
698	Synthesis, structures, photophysical properties, and catalytic characteristics of 2,9-dimesityl-1,10-phenanthroline (dmesp) transition metal complexes. *Journal of Polymer Science*, **2020**, 58, 1130-1143	2.4	4
697	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. *ACS Nano*, **2020**, 14, 3509-3518	16.7	12
696	Engineering Intrinsic Flexibility in Polycrystalline Molecular Semiconductor Films by Grain Boundary Plasticization. *Journal of the American Chemical Society*, **2020**, 142, 5487-5492	16.4	15
695	Early Transition Metal Catalysis for Olefin-Polar Monomer Copolymerization. *Angewandte Chemie - International Edition*, **2020**, 59, 14726-14735	16.4	39

694	Third- and Fifth-Order Nonlinear Optical Response of a TICT/Stilbene Hybrid Chromophore. *Journal of Physical Chemistry C*, **2020**, 124, 5363-5370	3.8	6
693	La[N(SiMe)]-Catalyzed Deoxygenative Reduction of Amides with Pinacolborane. Scope and Mechanism. *Journal of the American Chemical Society*, **2020**, 142, 8019-8028	16.4	37
692	transport measurements reveal source of mobility enhancement of MoS and MoTe during dielectric deposition. *ACS Applied Electronic Materials*, **2020**, 2, 1273-1279	4	3
691	Extended Naphthalene Diimide Derivatives for n-Type Semiconducting Polymers. *Chemistry of Materials*, **2020**, 32, 5317-5326	9.6	16
690	Photoinduced electron transfer from zinc meso-tetraphenylporphyrin to a one-dimensional perylenediimide aggregate: Probing anion delocalization effects. *Journal of Porphyrins and Phthalocyanines*, **2020**, 24, 143-152	1.8	4
689	Light and complex 3D MoS/graphene heterostructures as efficient catalysts for the hydrogen evolution reaction. *Nanoscale*, **2020**, 12, 2715-2725	7.7	25
688	Processing Strategies for an Organic Photovoltaic Module with over 10% Efficiency. *Joule*, **2020**, 4, 189-206	39.8	87
687	Structureâ□Charge Transport Relationships in Fluoride-Doped Amorphous Semiconducting Indium Oxide: Combined Experimental and Theoretical Analysis. *Chemistry of Materials*, **2020**, 32, 805-820	9.6	9
686	Bis-Ferrocenyl-Pyridinediimine Trinuclear Mixed-Valent Complexes with Metal-Binding Dependent Electronic Coupling: Synthesis, Structures, and Redox-Spectroscopic Characterization. *Journal of the American Chemical Society*, **2020**, 142, 18715-18729	16.4	9
685	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 14532-14547	16.4	120
684	Atom vacancies and electronic transmission Stark effects in boron nanoflake junctions. *Journal of Materials Chemistry C*, **2020**, 8, 15208-15218	7.1	
683	Charge generation mechanism tuned via film morphology in small molecule bulk-heterojunction photovoltaic materials. *Journal of Materials Chemistry C*, **2020**, 8, 15234-15252	7.1	5
682	Polyethylene Terephthalate Deconstruction Catalyzed by a Carbon-Supported Single-Site Molybdenum-Dioxo Complex. *Angewandte Chemie - International Edition*, **2020**, 59, 19857-19861	16.4	34
681	Polar Isotactic and Syndiotactic Polypropylenes by Organozirconium-Catalyzed Masking-Reagent-Free Propylene and Amino-Olefin Copolymerization. *Angewandte Chemie - International Edition*, **2020**, 59, 20522-20528	16.4	11
680	Hole (donor) and electron (acceptor) transporting organic semiconductors for bulk-heterojunction solar cells. *EnergyChem*, **2020**, 2, 100042	36.9	25
679	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18231-18239	11.5	16
678	Oxidative dehydrogenation of propane over transition metal sulfides using sulfur as an alternative oxidant. *Catalysis Science and Technology*, **2020**, 10, 6840-6848	5.5	7
677	Polyethylene Terephthalate Deconstruction Catalyzed by a Carbon-Supported Single-Site Molybdenum-Dioxo Complex. *Angewandte Chemie*, **2020**, 132, 20029-20033	3.6	9

676	Polar Isotactic and Syndiotactic Polypropylenes by Organozirconium-Catalyzed Masking-Reagent-Free Propylene and Aminoâ□Olefin Copolymerization. *Angewandte Chemie*, **2020**, 132, 20703-20709	3.6	3
675	Teaching an Old Anchoring Group New Tricks: Enabling Low-Cost, Eco-Friendly Hole-Transporting Materials for Efficient and Stable Perovskite Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 16632-16643	16.4	74
674	Printable Organic-Inorganic Nanoscale Multilayer Gate Dielectrics for Thin-Film Transistors Enabled by a Polymeric Organic Interlayer. *Advanced Functional Materials*, **2020**, 30, 2005069	15.6	7
673	Benzodithiophene Hole-Transporting Materials for Efficient Tin-Based Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1905393	15.6	28
672	Building Blocks for High-Efficiency Organic Photovoltaics: Interplay of Molecular, Crystal, and Electronic Properties in Post-Fullerene ITIC Ensembles. *ChemPhysChem*, **2019**, 20, 2608-2626	3.2	29
671	Catalytic One-Pot Conversion of Renewable Platform Chemicals to Hydrocarbon and Ether Biofuels through Tandem Hf(OTf) +Pd/C Catalysis. *ChemSusChem*, **2019**, 12, 5217	8.3	7
670	La[N(SiMe3)2]3-Catalyzed Ester Reductions with Pinacolborane: Scope and Mechanism of Ester Cleavage. *ACS Catalysis*, **2019**, 9, 9015-9024	13.1	38
669	Side Chain and Solvent Direction of Film Morphology in Small-Molecule Organic Solar Materials. *Chemistry of Materials*, **2019**, 31, 8308-8319	9.6	8
668	Fluorination Effects on Indacenodithienothiophene Acceptor Packing and Electronic Structure, End-Group Redistribution, and Solar Cell Photovoltaic Response. *Journal of the American Chemical Society*, **2019**, 141, 3274-3287	16.4	226
667	Recent Advances in Squaraine Dyes for Bulk-Heterojunction Organic Solar Cells. *Organic Photonics and Photovoltaics*, **2019**, 6, 1-16	5	7
666	Stable Postfullerene Solar Cells via Direct Câ□H Arylation Polymerization. Morphologyâ□Performance Relationships. *Chemistry of Materials*, **2019**, 31, 4313-4321	9.6	24
665	Molecular-Orientation-Dependent Interfacial Charge Transfer in Phthalocyanine/MoS2 Mixed-Dimensional Heterojunctions. *Journal of Physical Chemistry C*, **2019**, 123, 13337-13343	3.8	31
664	Efficient Chemoselective Reduction of N-Oxides and Sulfoxides Using a Carbon-Supported Molybdenum-Dioxo Catalyst and Alcohol. *ChemCatChem*, **2019**, 11, 4139-4146	5.2	10
663	CsSnI-Encapsulated Multidye-Sensitized All-Solid-State Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 21424-21434	9.5	21
662	Unexpected Precatalyst □Ligand Effects in Phenoxyimine Zr-Catalyzed Ethylene/1-Octene Copolymerizations. *Journal of the American Chemical Society*, **2019**, 141, 7822-7830	16.4	12
661	Expeditious, scalable solution growth of metal oxide films by combustion blade coating for flexible electronics. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 9230-9238	11.5	25
660	A Twist on Nonlinear Optics: Understanding the Unique Response of □Twisted Chromophores. *Accounts of Chemical Research*, **2019**, 52, 1428-1438	24.3	42
659	Low-Frequency Carrier Kinetics in Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 14166-14174	9.5	19

658	Electronic Coupling in Metallophthalocyanine-Transition Metal Dichalcogenide Mixed-Dimensional Heterojunctions. *ACS Nano*, **2019**, 13, 4183-4190	16.7	38
657	Processing, Structure, and Transistor Performance: Combustion versus Pulsed Laser Growth of Amorphous Oxides. *ACS Applied Electronic Materials*, **2019**, 1, 548-557	4	12
656	Significant Polar Comonomer Enchainment in Zirconium-Catalyzed, Masking Reagent-Free, Ethylene Copolymerizations. *Angewandte Chemie*, **2019**, 131, 7104-7108	3.6	13
655	Significant Polar Comonomer Enchainment in Zirconium-Catalyzed, Masking Reagent-Free, Ethylene Copolymerizations. *Angewandte Chemie - International Edition*, **2019**, 58, 7030-7034	16.4	25
654	Energy-distinguishable bipolar UV photoelectron injection from LiCl-promoted FAPbCl3 perovskite nanorods. *Journal of Materials Chemistry A*, **2019**, 7, 13043-13049	13	6
653	Combustion Synthesized Zinc Oxide Electron-Transport Layers for Efficient and Stable Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1900265	15.6	92
652	Ultrahigh Vacuum Self-Assembly of Rotationally Commensurate C8-BTBT/MoS2/Graphene Mixed-Dimensional Heterostructures. *Chemistry of Materials*, **2019**, 31, 1761-1766	9.6	13
651	Cinnamate-Functionalized Natural Carbohydrates as Photopatternable Gate Dielectrics for Organic Transistors. *Chemistry of Materials*, **2019**, 31, 7608-7617	9.6	14
650	Simultaneous Bottom-Up Interfacial and Bulk Defect Passivation in Highly Efficient Planar Perovskite Solar Cells using Nonconjugated Small-Molecule Electrolytes. *Advanced Materials*, **2019**, 31, e1903239	24	59
649	Mechanism of Organoscandium-Catalyzed Ethylene Copolymerization with Amino-Olefins: A Quantum Chemical Analysis. *ACS Catalysis*, **2019**, 9, 8810-8818	13.1	19
648	Photovoltaic Blend Microstructure for High Efficiency Post-Fullerene Solar Cells. To Tilt or Not To Tilt?. *Journal of the American Chemical Society*, **2019**, 141, 13410-13420	16.4	30
647	Marked Cofuel Tuning of Combustion Synthesis Pathways for Metal Oxide Semiconductor Films. *Advanced Electronic Materials*, **2019**, 5, 1900540	6.4	11
646	Controllable growth of LiMn2O4 by carbohydrate-assisted combustion synthesis for high performance Li-ion batteries. *Nano Energy*, **2019**, 64, 103936	17.1	28
645	Perovskite Solar Cells: Simultaneous Bottom-Up Interfacial and Bulk Defect Passivation in Highly Efficient Planar Perovskite Solar Cells using Nonconjugated Small-Molecule Electrolytes (Adv. Mater. 40/2019). *Advanced Materials*, **2019**, 31, 1970283	24	
644	Fluorine Tuning of Morphology, Energy Loss, and Carrier Dynamics in Perylenediimide Polymer Solar Cells. *ACS Energy Letters*, **2019**,	20.1	6
643	Indacenodithiazole-Ladder-Type Bridged Di(thiophene)-Difluoro-Benzothiadiazole-Conjugated Copolymers as Ambipolar Organic Field-Effect Transistors. *Chemistry of Materials*, **2019**, 31, 9488-9496	9.6	13
642	Quantum Interference and Substantial Property Tuning in Conjugated --Regio-Resistive Organic (ZORRO) Junctions. *Nano Letters*, **2019**, 19, 8956-8963	11.5	6
641	Highly branched polyethylene oligomers via group IV-catalysed polymerization in very nonpolar media. *Nature Catalysis*, **2019**, 2, 236-242	36.5	44

640	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 58-66	11.5	152
639	Germanium Fluoride Nanocages as Optically Transparent n-Type Materials and Their Endohedral Metallofullerene Derivatives. *Journal of the American Chemical Society*, **2019**, 141, 1672-1684	16.4	8
638	Kinetic Isoconversion Loop Catalysis: A Reactor Operation Mode To Investigate Slow Catalyst Deactivation Processes, with Ni/Al2O3 for the Dry Reforming of Methane. *Industrial & Engineering Chemistry Research*, **2019**, 58, 2481-2491	3.9	2
637	Polymersolarzellen: Fortschritt, Herausforderungen und Perspektiven. *Angewandte Chemie*, **2019**, 131, 4173-4186	3.6	24
636	All-Polymer Solar Cells: Recent Progress, Challenges, and Prospects. *Angewandte Chemie - International Edition*, **2019**, 58, 4129-4142	16.4	305
635	Oxide-Polymer Heterojunction Diodes with a Nanoscopic Phase-Separated Insulating Layer. *Nano Letters*, **2019**, 19, 471-476	11.5	7
634	Polymer Doping Enables a Two-Dimensional Electron Gas for High-Performance Homojunction Oxide Thin-Film Transistors. *Advanced Materials*, **2019**, 31, e1805082	24	31
633	Synthesis, Characterization, and Thermal Properties of N-alkyl Diketiminate Manganese Complexes. *Inorganic Chemistry*, **2018**, 57, 3017-3024	5.1	12
632	Cationic Pyridylamido Adsorbate on Brønsted Acidic Sulfated Zirconia: A Molecular Supported Organohafnium Catalyst for Olefin Homo- and Co-Polymerization. *ACS Catalysis*, **2018**, 8, 4893-4901	13.1	15
631	Metal Composition and Polyethylenimine Doping Capacity Effects on Semiconducting Metal Oxide-Polymer Blend Charge Transport. *Journal of the American Chemical Society*, **2018**, 140, 5457-5473	16.4	29
630	High-performance and scalable metal-chalcogenide semiconductors and devices via chalco-gel routes. *Science Advances*, **2018**, 4, eaap9104	14.3	38
629	High-Performance Heterocyclic Friction Modifiers for Boundary Lubrication. *Tribology Letters*, **2018**, 66, 1	2.8	7
628	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. *ACS Applied Materials & Interfaces*, **2018**, 10, 6484-6490	9.5	4
627	Photoactive Blend Morphology Engineering through Systematically Tuning Aggregation in All-Polymer Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702173	21.8	50
626	Novel unsymmetrical squaraine-based small molecules for organic solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 847-854	7.1	18
625	Synthesis of Supported Pd0 Nanoparticles from a Single-Site Pd2+ Surface Complex by Alkene Reduction. *Chemistry of Materials*, **2018**, 30, 1032-1044	9.6	13
624	Nitroacetylacetone as a Cofuel for the Combustion Synthesis of High-Performance Indiumâ€“Galliumâ€“Zinc Oxide Transistors. *Chemistry of Materials*, **2018**, 30, 3323-3329	9.6	28
623	Catalyst Nuclearity Effects on Stereo- and Regioinduction in Pyridylamidohafnium-Catalyzed Propylene and 1-Octene Polymerizations. *Macromolecules*, **2018**, 51, 2401-2410	5.5	18

622	Low-Loss Near-Infrared Hyperbolic Metamaterials with Epitaxial ITO-In2O3 Multilayers. *ACS Photonics*, **2018**, 5, 2000-2007	6.3	10
621	Understanding Film Formation Morphology and Orientation in High Member 2D RuddlesdenâPopper Perovskites for High-Efficiency Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1700979	21.8	231
620	Multistates and Polyamorphism in Phase-Change KSbSe. *Journal of the American Chemical Society*, **2018**, 140, 9261-9268	16.4	6
619	How Close Is Too Close? Polymerization Behavior and Monomer-Dependent Reorganization of a Bimetallic Salphen Organotitanium Catalyst. *Organometallics*, **2018**, 37, 2429-2436	3.8	11
618	Enhancing Polymer Photovoltaic Performance via Optimized Intramolecular Ester-Based Noncovalent Sulfur□Oxygen Interactions. *Macromolecules*, **2018**, 51, 3874-3885	5.5	41
617	Surface Carbon as a Reactive Intermediate in Dry Reforming of Methane to Syngas on a 5% Ni/MnO Catalyst. *ACS Catalysis*, **2018**, 8, 8739-8750	13.1	41
616	Epitaxial Growth of □Cyclodextrin-Containing Metal-Organic Frameworks Based on a Host-Guest Strategy. *Journal of the American Chemical Society*, **2018**, 140, 11402-11407	16.4	27
615	Closely packed, low reorganization energy □extended postfullerene acceptors for efficient polymer solar cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8341-E8348	11.5	85
614	Unprecedented Large Hyperpolarizability of Twisted Chromophores in Polar Media. *Journal of the American Chemical Society*, **2018**, 140, 8746-8755	16.4	24
613	Processing-dependent thermal stability of a prototypical amorphous metal oxide. *Physical Review Materials*, **2018**, 2,	3.2	4
612	Hole-Transfer Dependence on Blend Morphology and Energy Level Alignment in Polymer: ITIC Photovoltaic Materials. *Advanced Materials*, **2018**, 30, 1704263	24	85
611	Dopant-Free Tetrakis-Triphenylamine Hole Transporting Material for Efficient Tin-Based Perovskite Solar Cells. *Journal of the American Chemical Society*, **2018**, 140, 388-393	16.4	118
610	Effects of 1,8-diiodooctane on domain nanostructure and charge separation dynamics in PC71BM-based bulk heterojunction solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 23805-23818	13	11
609	Surface Chemistry and Long-Term Stability of Amorphous ZnâSnâO Thin Films. *Journal of Physical Chemistry C*, **2018**, 122, 28151-28157	3.8	3
608	Boundary Lubrication Mechanisms for High-Performance Friction Modifiers. *ACS Applied Materials & Interfaces*, **2018**, 10, 40203-40211	9.5	9
607	Suppressing Defect Formation Pathways in the Direct Câ□ Arylation Polymerization of Photovoltaic Copolymers. *Macromolecules*, **2018**, 51, 9140-9155	5.5	30
606	Synergistic Boron Doping of Semiconductor and Dielectric Layers for High-Performance Metal Oxide Transistors: Interplay of Experiment and Theory. *Journal of the American Chemical Society*, **2018**, 140, 12501-12510	16.4	29
605	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. *Advanced Materials*, **2018**, 30, e1801898	24	123

604	Hyperbolic Dispersion Arising from Anisotropic Excitons in Two-Dimensional Perovskites. *Physical Review Letters*, **2018**, 121, 127401	7.4	35
603	Performance, Morphology, and Charge Recombination Correlations in Ternary Squaraine Solar Cells. *Chemistry of Materials*, **2018**, 30, 6810-6820	9.6	13
602	Organic Salts Suppress Aggregation and Enhance the Hyperpolarizability of a Twisted Chromophore. *Chemistry - A European Journal*, **2018**, 24, 15801-15805	4.8	5
601	Atomic Layer Deposition of Molybdenum Oxides with Tunable Stoichiometry Enables Controllable Doping of MoS2. *Chemistry of Materials*, **2018**, 30, 3628-3632	9.6	20
600	High- k Gate Dielectrics for Emerging Flexible and Stretchable Electronics. *Chemical Reviews*, **2018**, 118, 5690-5754	68.1	354
599	In Situ Analysis of Solvent and Additive Effects on Film Morphology Evolution in Spin-Cast Small-Molecule and Polymer Photovoltaic Materials. *Advanced Energy Materials*, **2018**, 8, 1800611	21.8	34
598	Self-Assembled Photochromic Molecular Dipoles for High-Performance Polymer Thin-Film Transistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 21492-21498	9.5	11
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