

# Tobin J Marks

## List of Publications by Year in descending order

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748  
papers

80,125  
citations

333

137  
h-index

640

256  
g-index

792  
all docs

792  
docs citations

792  
times ranked

52423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Device Applications for Semiconducting Two-Dimensional Transition Metal Dichalcogenides. ACS Nano, 2014, 8, 1102-1120.	7.3	2,307
2	Design and construction of molecular assemblies with large second-order optical nonlinearities. Quantum chemical aspects. Chemical Reviews, 1994, 94, 195-242.	23.0	2,163
3	Cocatalysts for Metal-Catalyzed Olefin Polymerization: Activators, Activation Processes, and Structure-Activity Relationships. Chemical Reviews, 2000, 100, 1391-1434.	23.0	1,803
4	Rylene and Related Diimides for Organic Electronics. Advanced Materials, 2011, 23, 268-284.	11.1	1,548
5	Effective Passivation of Exfoliated Black Phosphorus Transistors against Ambient Degradation. Nano Letters, 2014, 14, 6964-6970.	4.5	1,294
6	p-Type semiconducting nickel oxide as an efficiency-enhancing anode interfacial layer in polymer bulk-heterojunction solar cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2783-2787.	3.3	1,288
7	Mixed-dimensional van der Waals heterostructures. Nature Materials, 2017, 16, 170-181.	13.3	1,220
8	Metal oxides for optoelectronic applications. Nature Materials, 2016, 15, 383-396.	13.3	1,203
9	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. Chemical Society Reviews, 2013, 42, 2824-2860.	18.7	1,105
10	Low-temperature fabrication of high-performance metal oxide thin-film electronics via combustion processing. Nature Materials, 2011, 10, 382-388.	13.3	1,093
11	Organolanthanide-Catalyzed Hydroamination. Accounts of Chemical Research, 2004, 37, 673-686.	7.6	1,002
12	Gate Dielectrics for Organic Field-Effect Transistors: New Opportunities for Organic Electronics. Advanced Materials, 2005, 17, 1705-1725.	11.1	975
13	Tuning Orbital Energetics in Arylene Diimide Semiconductors. Materials Design for Ambient Stability of n-Type Charge Transport. Journal of the American Chemical Society, 2007, 129, 15259-15278.	6.6	960
14	Polymer solar cells with enhanced fill factors. Nature Photonics, 2013, 7, 825-833.	15.6	887
15	Imide- and Amide-Functionalized Polymer Semiconductors. Chemical Reviews, 2014, 114, 8943-9021.	23.0	874
16	High-Mobility Air-Stable n-Type Semiconductors with Processing Versatility: Dicyanoperylene-3,4:9,10-bis(dicarboximides). Angewandte Chemie - International Edition, 2004, 43, 6363-6366.	7.2	808
17	High-κ Organic, Inorganic, and Hybrid Dielectrics for Low-Voltage Organic Field-Effect Transistors. Chemical Reviews, 2010, 110, 205-239.	23.0	801
18	Cationic Zirconocene Olefin Polymerization Catalysts Based on the Organo-Lewis Acid Tris(pentafluorophenyl)borane. A Synthetic, Structural, Solution Dynamic, and Polymerization Catalytic Study. Journal of the American Chemical Society, 1994, 116, 10015-10031.	6.6	740

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19	Design, Synthesis, and Properties of Molecule-Based Assemblies with Large Second-Order Optical Nonlinearities. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 155-173.	4.4	703
20	Covalent functionalization and passivation of exfoliated black phosphorus via aryl diazonium chemistry. <i>Nature Chemistry</i> , 2016, 8, 597-602.	6.6	687
21	<i>n</i> -Channel Semiconductor Materials Design for Organic Complementary Circuits. <i>Accounts of Chemical Research</i> , 2011, 44, 501-510.	7.6	643
22	Solvent-Mediated Crystallization of CH <sub>3</sub> NH <sub>3</sub> Sn <sub>3</sub> Films for Heterojunction Depleted Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 11445-11452.	6.6	598
23	Organic and Polymeric Semiconductors Enhanced by Noncovalent Conformational Locks. <i>Chemical Reviews</i> , 2017, 117, 10291-10318.	23.0	575
24	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS <sub>2</sub> . <i>Nature Nanotechnology</i> , 2015, 10, 403-406.	15.6	564
25	Air-Stable Molecular Semiconducting Iodosalts for Solar Cell Applications: Cs <sub>2</sub> Sn <sub>6</sub> as a Hole Conductor. <i>Journal of the American Chemical Society</i> , 2014, 136, 15379-15385.	6.6	560
26	Molecular Self-Assembled Monolayers and Multilayers for Organic and Unconventional Inorganic Thin-Film Transistor Applications. <i>Advanced Materials</i> , 2009, 21, 1407-1433.	11.1	556
27	High- <i>k</i> Gate Dielectrics for Emerging Flexible and Stretchable Electronics. <i>Chemical Reviews</i> , 2018, 118, 5690-5754.	23.0	530
28	Multinuclear Olefin Polymerization Catalysts. <i>Chemical Reviews</i> , 2011, 111, 2450-2485.	23.0	524
29	Organolanthanide-catalyzed hydroamination. A kinetic, mechanistic, and diastereoselectivity study of the cyclization of N-protected amino olefins. <i>Journal of the American Chemical Society</i> , 1992, 114, 275-294.	6.6	514
30	Surface-bound metal hydrocarbyls. Organometallic connections between heterogeneous and homogeneous catalysis. <i>Accounts of Chemical Research</i> , 1992, 25, 57-65.	7.6	501
31	Effects of Additives on the Morphology of Solution Phase Aggregates Formed by Active Layer Components of High-Efficiency Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 20661-20663.	6.6	501
32	Role of Gallium Doping in Dramatically Lowering Amorphous-Oxide Processing Temperatures for Solution-Derived Indium Zinc Oxide Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 1346-1350.	11.1	493
33	Design, Synthesis, and Characterization of Ladder-Type Molecules and Polymers. Air-Stable, Solution-Processable <i>n</i> -Channel and Ambipolar Semiconductors for Thin-Film Transistors via Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2009, 131, 5586-5608.	6.6	481
34	A Naphthodithiophene-Diketopyrrolopyrrole Donor Molecule for Efficient Solution-Processed Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 8142-8145.	6.6	474
35	Gate Dielectric Chemical Structure~Organic Field-Effect Transistor Performance Correlations for Electron, Hole, and Ambipolar Organic Semiconductors. <i>Journal of the American Chemical Society</i> , 2006, 128, 12851-12869.	6.6	454
36	All-Polymer Solar Cells: Recent Progress, Challenges, and Prospects. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4129-4142.	7.2	448

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37	Large modulation of carrier transport by grain-boundary molecular packing and microstructure in organic thin films. <i>Nature Materials</i> , 2009, 8, 952-958.	13.3	416
38	Organic solar cells: A new look at traditional models. <i>Energy and Environmental Science</i> , 2011, 4, 4410.	15.6	399
39	Polymer Gate Dielectric Surface Viscoelasticity Modulates Pentacene Transistor Performance. <i>Science</i> , 2007, 318, 76-80.	6.0	377
40	New Type of 2D Perovskites with Alternating Cations in the Interlayer Space, (C(NH <sub>2</sub> ) <sub>3</sub> (CH <sub>3</sub> ) <sub>3</sub> NH <sub>3</sub> ) <sub>3</sub> PbI <sub>3</sub> Structure, Properties, and Photovoltaic Performance. <i>Journal of the American Chemical Society</i> , 2017, 139, 16297-16309.	6.6	374
41	Easily Processable Phenylene-Thiophene-Based Organic Field-Effect Transistors and Solution-Fabricated Nonvolatile Transistor Memory Elements. <i>Journal of the American Chemical Society</i> , 2003, 125, 9414-9423.	6.6	373
42	Gate-tunable carbon nanotube-MoS <sub>2</sub> heterojunction p-n diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18076-18080.	3.3	373
43	Organic Thin-Film Transistors Based on Carbonyl-Functionalized Quaterthiophenes: High Mobility N-Channel Semiconductors and Ambipolar Transport. <i>Journal of the American Chemical Society</i> , 2005, 127, 1348-1349.	6.6	365
44	Building Blocks for N-Type Molecular and Polymeric Electronics. Perfluoroalkyl- versus Alkyl-Functionalized Oligothiophenes (nTs; n = 2-6). <i>Systematic Synthesis, Spectroscopy, Electrochemistry, and Solid-State Organization</i> . <i>Journal of the American Chemical Society</i> , 2004, 126, 13480-13501.	6.6	362
45	Orthogonal tandem catalysis. <i>Nature Chemistry</i> , 2015, 7, 477-482.	6.6	354
46	Fluorination Effects on Indacenodithienothiophene Acceptor Packing and Electronic Structure, End-Group Redistribution, and Solar Cell Photovoltaic Response. <i>Journal of the American Chemical Society</i> , 2019, 141, 3274-3287.	6.6	336
47	Slip-Stacked Perylenediimides as an Alternative Strategy for High Efficiency Nonfullerene Acceptors in Organic Photovoltaics. <i>Journal of the American Chemical Society</i> , 2014, 136, 16345-16356.	6.6	320
48	Chemical and Thin-Film Strategies for New Transparent Conducting Oxides. <i>MRS Bulletin</i> , 2000, 25, 45-51.	1.7	315
49	When Function Follows Form: Effects of Donor Copolymer Side Chains on Film Morphology and BHJ Solar Cell Performance. <i>Advanced Materials</i> , 2010, 22, 5468-5472.	11.1	315
50	Singlet Exciton Fission in Polycrystalline Thin Films of a Slip-Stacked Perylenediimide. <i>Journal of the American Chemical Society</i> , 2013, 135, 14701-14712.	6.6	313
51	n-Channel Polymers by Design: Optimizing the Interplay of Solubilizing Substituents, Crystal Packing, and Field-Effect Transistor Characteristics in Polymeric Bithiophene-imide Semiconductors. <i>Journal of the American Chemical Society</i> , 2008, 130, 9679-9694.	6.6	308
52	Fluorocarbon-Modified Organic Semiconductors: Molecular Architecture, Electronic, and Crystal Structure Tuning of Arene- versus Fluoroarene-Thiophene Oligomer Thin-Film Properties. <i>Journal of the American Chemical Society</i> , 2006, 128, 5792-5801.	6.6	302
53	C <sub>2</sub> -Symmetric Bis(oxazolinato)lanthanide Catalysts for Enantioselective Intramolecular Hydroamination/Cyclization. <i>Journal of the American Chemical Society</i> , 2003, 125, 14768-14783.	6.6	295
54	Hybrid, Gate-Tunable, van der Waals Heterojunctions from Pentacene and MoS <sub>2</sub> . <i>Nano Letters</i> , 2016, 16, 497-503.	4.5	295

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55	Understanding Film Formation Morphology and Orientation in High Member 2D Ruddlesdenâ€“Popper Perovskites for Highâ€“Efficiency Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1700979.	10.2	286
56	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. <i>Journal of the American Chemical Society</i> , 2016, 138, 1240-1251.	6.6	276
57	Cationic Metallocene Polymerization Catalysts Based on Tetrakis(pentafluorophenyl)borate and Its Derivatives. Probing the Limits of Anion â€“Noncoordinationâ€“via a Synthetic, Solution Dynamic, Structural, and Catalytic Olefin Polymerization Study. <i>Organometallics</i> , 1997, 16, 842-857.	1.1	273
58	Synthesis, Characterization, Optical Spectroscopic, Electronic Structure, and Second-Order Nonlinear Optical (NLO) Properties of a Novel Class of Donorâ€“Acceptor Bis(salicylaldiminato)nickel(II) Schiff Base NLO Chromophores. <i>Journal of the American Chemical Society</i> , 1997, 119, 9550-9557.	6.6	273
59	Efficient Squaraine-Based Solution Processable Bulk-Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 17640-17641.	6.6	271
60	Achieving 19% Power Conversion Efficiency in Planarâ€“Mixed Heterojunction Organic Solar Cells Using a Pseudosymmetric Electron Acceptor. <i>Advanced Materials</i> , 2022, 34, .	11.1	271
61	Efficiency Enhancement in Organic Photovoltaic Cells: Consequences of Optimizing Series Resistance. <i>Advanced Functional Materials</i> , 2010, 20, 97-104.	7.8	260
62	Ultralarge Hyperpolarizability Twisted Î€-Electron System Electro-Optic Chromophores:â€“Synthesis, Solid-State and Solution-Phase Structural Characteristics, Electronic Structures, Linear and Nonlinear Optical Properties, and Computational Studies. <i>Journal of the American Chemical Society</i> , 2007, 129, 3267-3286.	6.6	258
63	From The Cover: â€“molecular dielectric multilayers for low-voltage organic thin-film transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4678-4682.	3.3	257
64	Bithiopheneimideâ€“Dithienosilole/Dithienogermole Copolymers for Efficient Solar Cells: Information from Structureâ€“Propertyâ€“Device Performance Correlations and Comparison to Thieno[3,4- <i>c</i> ]pyrrole-4,6-dione Analogues. <i>Journal of the American Chemical Society</i> , 2012, 134, 18427-18439.	6.6	257
65	Electrically Conductive Metallomacrocyclic Assemblies. <i>Science</i> , 1985, 227, 881-889.	6.0	253
66	Sterically Encumbered (Perfluoroaryl) Borane and Aluminate Cocatalysts for Tuning Cationâ€“Anion Ion Pair Structure and Reactivity in Metallocene Polymerization Processes. A Synthetic, Structural, and Polymerization Study. <i>Journal of the American Chemical Society</i> , 1998, 120, 6287-6305.	6.6	253
67	Cyanonaphthalene Diimide Semiconductors for Air-Stable, Flexible, and Optically Transparent n-Channel Field-Effect Transistors. <i>Chemistry of Materials</i> , 2007, 19, 2703-2705.	3.2	243
68	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 4414-4423.	6.6	243
69	In Situ Characterization of Lifetime and Morphology in Operating Bulk Heterojunction Organic Photovoltaic Devices by Impedance Spectroscopy. <i>Advanced Energy Materials</i> , 2012, 2, 120-128.	10.2	237
70	Structural and thermodynamic limits of layer thickness in 2D halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 58-66.	3.3	236
71	High-Performance Solution-Processed Amorphous Zincâ€“Indiumâ€“Tin Oxide Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2010, 132, 10352-10364.	6.6	235
72	Unequal Partnership: Asymmetric Roles of Polymeric Donor and Fullerene Acceptor in Generating Free Charge. <i>Journal of the American Chemical Society</i> , 2014, 136, 2876-2884.	6.6	235

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73	Organolanthanide-Catalyzed Intramolecular Hydroamination/Cyclization of Aminoalkynes. <i>Journal of the American Chemical Society</i> , 1996, 118, 9295-9306.	6.6	234
74	Thieno[3,4- <i>c</i> ]pyrrole-4,6-dione-Based Polymer Semiconductors: Toward High-Performance, Air-Stable Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2011, 133, 13685-13697.	6.6	232
75	Competition between Singlet Fission and Charge Separation in Solution-Processed Blend Films of 6,13-Bis(triisopropylsilylethynyl)pentacene with Sterically-Encumbered Perylene-3,4:9,10-bis(dicarboximide)s. <i>Journal of the American Chemical Society</i> , 2012, 134, 386-397.	6.6	232
76	Bithiophene-Imide-Based Polymeric Semiconductors for Field-Effect Transistors: Synthesis, Structure-Property Correlations, Charge Carrier Polarity, and Device Stability. <i>Journal of the American Chemical Society</i> , 2011, 133, 1405-1418.	6.6	231
77	Design Strategies for the Molecular Level Synthesis of Supported Catalysts. <i>Accounts of Chemical Research</i> , 2012, 45, 206-214.	7.6	229
78	Morphology-Performance Relationships in High-Efficiency All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300785.	10.2	227
79	Diverse Mechanistic Pathways and Selectivities in Organo-f-Element-Catalyzed Hydroamination. Intermolecular Organolanthanide-Catalyzed Alkyne and Alkene Hydroamination. <i>Organometallics</i> , 1996, 15, 3770-3772.	1.1	223
80	Organolanthanide-Catalyzed Intra- and Intermolecular Tandem C-N and C-C Bond-Forming Processes of Aminodialkenes, Aminodialkynes, Aminoalkenyne, and Aminoalkynes. New Regiospecific Approaches to Pyrrolizidine, Indolizidine, Pyrrole, and Pyrazine Skeletons. <i>Journal of the American Chemical Society</i> , 1998, 120, 1757-1771.	6.6	222
81	Low-Frequency Electronic Noise in Single-Layer MoS <sub>2</sub> Transistors. <i>Nano Letters</i> , 2013, 13, 4351-4355.	4.5	221
82	Nuclearity and cooperativity effects in binuclear catalysts and cocatalysts for olefin polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15295-15302.	3.3	220
83	Combining Electron-Neutral Building Blocks with Intramolecular Conformational Locks Affords Stable, High-Mobility P- and N-Channel Polymer Semiconductors. <i>Journal of the American Chemical Society</i> , 2012, 134, 10966-10973.	6.6	220
84	Rational Design of Molecules with Large Hyperpolarizabilities. Electric Field, Solvent Polarity, and Bond Length Alternation Effects on Merocyanine Dye Linear and Nonlinear Optical Properties. <i>The Journal of Physical Chemistry</i> , 1996, 100, 9714-9725.	2.9	218
85	Constrained Geometry-Dialkyl Catalysts. Efficient Syntheses, C-H Bond Activation Chemistry, Monomer-Dimer Equilibration, and $\pm$ -Olefin Polymerization Catalysis. <i>Organometallics</i> , 1997, 16, 3649-3657.	1.1	216
86	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 14532-14547.	6.6	214
87	Electronic Structure and Quadratic Hyperpolarizabilities in Organotransition-Metal Chromophores Having Weakly Coupled $\pi$ -Networks. Unusual Mechanisms for Second-Order Response. <i>Journal of the American Chemical Society</i> , 1994, 116, 10089-10102.	6.6	211
88	Organo-f-element catalysts for efficient and highly selective hydroalkoxylation and hydrothiolation. <i>Dalton Transactions</i> , 2010, 39, 6576.	1.6	211
89	Multinuclear Group 4 Catalysis: Olefin Polymerization Pathways Modified by Strong Metal-Metal Cooperative Effects. <i>Accounts of Chemical Research</i> , 2014, 47, 2545-2557.	7.6	210
90	Versatile Pathways for In-Situ Polyolefin Functionalization with Heteroatoms: Catalytic Chain Transfer. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2006-2025.	7.2	202

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91	Mild Amidation of Aldehydes with Amines Mediated by Lanthanide Catalysts. <i>Organic Letters</i> , 2008, 10, 317-319.	2.4	200
92	Effects of Arylene Diimide Thin Film Growth Conditions on $\mu$ -Channel OFET Performance. <i>Advanced Functional Materials</i> , 2008, 18, 1329-1339.	7.8	198
93	Interfaces between Molecular and Polymeric $\pi$ -Metals $\pi$ -Electrically Conductive, Structure-Enforced Assemblies of Metallomacrocycles. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 857-879.	4.4	196
94	Mechanistic Investigation of Intramolecular Aminoalkene and Aminoalkyne Hydroamination/Cyclization Catalyzed by Highly Electrophilic, Tetravalent Constrained Geometry 4d and 5f Complexes. Evidence for an $M\text{-N}\text{-}\pi$ -Bonded Insertive Pathway. <i>Journal of the American Chemical Society</i> , 2007, 129, 6149-6167.	6.6	196
95	Enhanced Efficiency of Hot-Cast Large-Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. <i>Advanced Energy Materials</i> , 2017, 7, 1601660.	10.2	191
96	Organo-Lewis Acids As Cocatalysts in Cationic Metallocene Polymerization Catalysis. Unusual Characteristics of Sterically Encumbered Tris(perfluorobiphenyl)borane. <i>Journal of the American Chemical Society</i> , 1996, 118, 12451-12452.	6.6	190
97	Organolanthanide-catalyzed hydroboration of olefins. <i>Journal of the American Chemical Society</i> , 1992, 114, 9220-9221.	6.6	186
98	Marked Alkyl- vs Alkenyl-Substituent Effects on Squaraine Dye Solid-State Structure, Carrier Mobility, and Bulk-Heterojunction Solar Cell Efficiency. <i>Journal of the American Chemical Society</i> , 2010, 132, 4074-4075.	6.6	186
99	Dialkoxybithiazole: A New Building Block for Head-to-Head Polymer Semiconductors. <i>Journal of the American Chemical Society</i> , 2013, 135, 1986-1996.	6.6	184
100	Atom-efficient regioselective 1,2-dearomatization of functionalized pyridines by an earth-abundant organolanthanide catalyst. <i>Nature Chemistry</i> , 2014, 6, 1100-1107.	6.6	184
101	Solution-processed carbon nanotube thin-film complementary static random access memory. <i>Nature Nanotechnology</i> , 2015, 10, 944-948.	15.6	184
102	In Situ Catalytic Encapsulation of Core-Shell Nanoparticles Having Variable Shell Thickness: Dielectric and Energy Storage Properties of High-Permittivity Metal Oxide Nanocomposites. <i>Chemistry of Materials</i> , 2010, 22, 5154-5164.	3.2	183
103	High Performance Solution-Processed Indium Oxide Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2008, 130, 12580-12581.	6.6	182
104	Universality of non-Ohmic shunt leakage in thin-film solar cells. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	180
105	Highly Electrophilic Olefin Polymerization Catalysts. Quantitative Reaction Coordinates for Fluoroarylborane/Alumoxane Methide Abstraction and Ion-Pair Reorganization in Group 4 Metallocene and $\pi$ -Constrained Geometry $\pi$ -Catalysts. <i>Journal of the American Chemical Society</i> , 1998, 120, 1772-1784.	6.6	178
106	Spray-combustion synthesis: Efficient solution route to high-performance oxide transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3217-3222.	3.3	175
107	Constrained Geometry Organolanthanide Catalysts. Synthesis, Structural Characterization, and Enhanced Aminoalkene Hydroamination/Cyclization Activity. <i>Organometallics</i> , 1999, 18, 2568-2570.	1.1	174
108	Oxygen $\pi$ -Getter $\pi$ -Effects on Microstructure and Carrier Transport in Low Temperature Combustion-Processed $\alpha$ -InXZnO (X = Ga, Sc, Y, La) Transistors. <i>Journal of the American Chemical Society</i> , 2013, 135, 10729-10741.	6.6	174

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109	Flexible and stretchable metal oxide nanofiber networks for multimodal and monolithically integrated wearable electronics. <i>Nature Communications</i> , 2020, 11, 2405.	5.8	174
110	Supramolecular Approaches to Second-Order Nonlinear Optical Materials. Self-Assembly and Microstructural Characterization of Intrinsically Acentric [(Aminophenyl)azo]pyridinium Superlattices. <i>Journal of the American Chemical Society</i> , 1996, 118, 8034-8042.	6.6	172
111	Intramolecular Hydroamination/Cyclization of Conjugated Aminodienes Catalyzed by Organolanthanide Complexes. Scope, Diastereo- and Enantioselectivity, and Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2003, 125, 15878-15892.	6.6	171
112	Ring-fusion as a perylene diimide dimer design concept for high-performance non-fullerene organic photovoltaic acceptors. <i>Chemical Science</i> , 2016, 7, 3543-3555.	3.7	168
113	Catalyst/Cocatalyst Nuclearity Effects in Single-Site Polymerization. Enhanced Polyethylene Branching and $\beta$ -Olefin Comonomer Enchainment in Polymerizations Mediated by Binuclear Catalysts and Cocatalysts via a New Enchainment Pathway. <i>Journal of the American Chemical Society</i> , 2002, 124, 12725-12741.	6.6	167
114	Singlet Fission via an Excimer-Like Intermediate in 3,6-Bis(thiophen-2-yl)diketopyrrolopyrrole Derivatives. <i>Journal of the American Chemical Society</i> , 2016, 138, 11749-11761.	6.6	167
115	Organolanthanide-Catalyzed Intramolecular Hydroamination/Cyclization of Aminoallenes. <i>Journal of the American Chemical Society</i> , 1998, 120, 4871-4872.	6.6	166
116	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. <i>Advanced Materials</i> , 2018, 30, e1801898.	11.1	165
117	Dopant-Free Tetrakis-Triphenylamine Hole Transporting Material for Efficient Tin-Based Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 388-393.	6.6	163
118	NOE and PGSE NMR Spectroscopic Studies of Solution Structure and Aggregation in Metallocenium Ion-Pairs. <i>Journal of the American Chemical Society</i> , 2004, 126, 1448-1464.	6.6	160
119	Constrained Geometry Organoactinides as Versatile Catalysts for the Intramolecular Hydroamination/Cyclization of Primary and Secondary Amines Having Diverse Tethered C=C Unsaturation. <i>Journal of the American Chemical Society</i> , 2007, 129, 4253-4271.	6.6	159
120	Supported Single-Site Organometallic Catalysts for the Synthesis of High-Performance Polyolefins. <i>Catalysis Letters</i> , 2015, 145, 3-14.	1.4	159
121	Bithiophene Imide and Benzodithiophene Copolymers for Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2012, 24, 2242-2248.	11.1	158
122	Widening the Roof: Synthesis and Characterization of New Chiral C <sub>1</sub> -Symmetric Octahydrofluorenyl Organolanthanide Catalysts and Their Implementation in the Stereoselective Cyclizations of Aminoalkenes and Phosphinoalkenes. <i>Organometallics</i> , 2002, 21, 283-292.	1.1	157
123	Dopant-Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600502.	10.2	156
124	Tin-Free Direct C-H Arylation Polymerization for High Photovoltaic Efficiency Conjugated Copolymers. <i>Journal of the American Chemical Society</i> , 2016, 138, 15699-15709.	6.6	156
125	Marked Counteranion Effects on Single-Site Olefin Polymerization Processes. Correlations of Ion Pair Structure and Dynamics with Polymerization Activity, Chain Transfer, and Syndioselectivity. <i>Journal of the American Chemical Society</i> , 2004, 126, 4605-4625.	6.6	155
126	Solution-Processable Low-Molecular Weight Extended Arylacetylenes: Versatile p-Type Semiconductors for Field-Effect Transistors and Bulk Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 6108-6123.	6.6	155



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