

# Tobin J Marks

## List of Publications by Citations

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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.

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	Design and construction of molecular assemblies with large second-order optical nonlinearities. Quantum chemical aspects. <i>Chemical Reviews</i> , <b>1994</b> , 94, 195-242	68.1	1942
746	Emerging device applications for semiconducting two-dimensional transition metal dichalcogenides. <i>ACS Nano</i> , <b>2014</b> , 8, 1102-20	16.7	1909
745	Cocatalysts for metal-catalyzed olefin polymerization: activators, activation processes, and structure-activity relationships. <i>Chemical Reviews</i> , <b>2000</b> , 100, 1391-434	68.1	1610
744	Rylene and related diimides for organic electronics. <i>Advanced Materials</i> , <b>2011</b> , 23, 268-84	24	1366
743	p-Type semiconducting nickel oxide as an efficiency-enhancing anode interfacial layer in polymer bulk-heterojunction solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 2783-2787	11.5	1163
742	Effective passivation of exfoliated black phosphorus transistors against ambient degradation. <i>Nano Letters</i> , <b>2014</b> , 14, 6964-70	11.5	1117
741	Low-temperature fabrication of high-performance metal oxide thin-film electronics via combustion processing. <i>Nature Materials</i> , <b>2011</b> , 10, 382-8	27	957
740	Organolanthanide-catalyzed hydroamination. <i>Accounts of Chemical Research</i> , <b>2004</b> , 37, 673-86	24.3	947
739	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2824-60	58.5	941
738	Metal oxides for optoelectronic applications. <i>Nature Materials</i> , <b>2016</b> , 15, 383-96	27	903
737	Gate Dielectrics for Organic Field-Effect Transistors: New Opportunities for Organic Electronics. <i>Advanced Materials</i> , <b>2005</b> , 17, 1705-1725	24	901
736	Mixed-dimensional van der Waals heterostructures. <i>Nature Materials</i> , <b>2017</b> , 16, 170-181	27	897
735	Tuning orbital energetics in arylene diimide semiconductors. materials design for ambient stability of n-type charge transport. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15259-78	16.4	887
734	Polymer solar cells with enhanced fill factors. <i>Nature Photonics</i> , <b>2013</b> , 7, 825-833	33.9	806
733	High-mobility air-stable n-type semiconductors with processing versatility: dicyanoperylene-3,4:9,10-bis(dicarboximides). <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 6363-6	16.4	760
732	Imide- and amide-functionalized polymer semiconductors. <i>Chemical Reviews</i> , <b>2014</b> , 114, 8943-9021	68.1	721
731	High-k organic, inorganic, and hybrid dielectrics for low-voltage organic field-effect transistors. <i>Chemical Reviews</i> , <b>2010</b> , 110, 205-39	68.1	718

730	Cationic Zirconocene Olefin Polymerization Catalysts Based on the Organo-Lewis Acid Tris(pentafluorophenyl)borane. A Synthetic, Structural, Solution Dynamic, and Polymerization Catalytic Study. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10015-10031	16.4	666
729	Design, Synthesis, and Properties of Molecule-Based Assemblies with Large Second-Order Optical Nonlinearities. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 155-173		602
728	n-Channel semiconductor materials design for organic complementary circuits. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 501-10	24.3	585
727	Covalent functionalization and passivation of exfoliated black phosphorus via aryl diazonium chemistry. <i>Nature Chemistry</i> , <b>2016</b> , 8, 597-602	17.6	574
726	Molecular Self-Assembled Monolayers and Multilayers for Organic and Unconventional Inorganic Thin-Film Transistor Applications. <i>Advanced Materials</i> , <b>2009</b> , 21, 1407-1433	24	519
725	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> , <b>2011</b> , 133, 20661-3	16.4	479
724	Multinuclear olefin polymerization catalysts. <i>Chemical Reviews</i> , <b>2011</b> , 111, 2450-85	68.1	461
723	A naphthodithiophene-diketopyrrolopyrrole donor molecule for efficient solution-processed solar cells. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8142-5	16.4	460
722	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> , <b>1992</b> , 114, 275-294	16.4	460
721	Solvent-Mediated Crystallization of CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> Films for Heterojunction Depleted Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11445-52	16.4	455
720	Role of gallium doping in dramatically lowering amorphous-oxide processing temperatures for solution-derived indium zinc oxide thin-film transistors. <i>Advanced Materials</i> , <b>2010</b> , 22, 1346-50	24	448
719	Design, synthesis, and characterization of ladder-type molecules and polymers. Air-stable, solution-processable n-channel and ambipolar semiconductors for thin-film transistors via experiment and theory. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 5586-608	16.4	431
718	Air-stable molecular semiconducting iodosalts for solar cell applications: Cs <sub>2</sub> SnI <sub>6</sub> as a hole conductor. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15379-85	16.4	427
717	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS <sub>2</sub> . <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 403-6	28.7	426
716	Surface-bound metal hydrocarbyls. Organometallic connections between heterogeneous and homogeneous catalysis. <i>Accounts of Chemical Research</i> , <b>1992</b> , 25, 57-65	24.3	425
715	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> , <b>2006</b> , 128, 12851-69	16.4	418
714	Organic and Polymeric Semiconductors Enhanced by Noncovalent Conformational Locks. <i>Chemical Reviews</i> , <b>2017</b> , 117, 10291-10318	68.1	377
713	Large modulation of carrier transport by grain-boundary molecular packing and microstructure in organic thin films. <i>Nature Materials</i> , <b>2009</b> , 8, 952-8	27	376

712	High- k Gate Dielectrics for Emerging Flexible and Stretchable Electronics. <i>Chemical Reviews</i> , <b>2018</b> , 118, 5690-5754	68.1	354
711	Easily processable phenylene-thiophene-based organic field-effect transistors and solution-fabricated nonvolatile transistor memory elements. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 9414-23	16.4	352
710	Polymer gate dielectric surface viscoelasticity modulates pentacene transistor performance. <i>Science</i> , <b>2007</b> , 318, 76-80	33.3	344
709	Building blocks for N-type molecular and polymeric electronics. Perfluoroalkyl- versus alkyl-functionalized oligothiophenes (nTs; n = 2-6). Systematic synthesis, spectroscopy, electrochemistry, and solid-state organization. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 13480-501	16.4	344
708	Organic solar cells: A new look at traditional models. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4410	35.4	330
707	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> , <b>2005</b> , 127, 1348-9	16.4	325
706	When function follows form: Effects of donor copolymer side chains on film morphology and BHJ solar cell performance. <i>Advanced Materials</i> , <b>2010</b> , 22, 5468-72	24	306
705	All-Polymer Solar Cells: Recent Progress, Challenges, and Prospects. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4129-4142	16.4	305
704	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> , <b>2013</b> , 110, 18076-80	11.5	304
703	Chemical and Thin-Film Strategies for New Transparent Conducting Oxides. <i>MRS Bulletin</i> , <b>2000</b> , 25, 45-51	3.2	295
702	Slip-stacked perylenediimides as an alternative strategy for high efficiency nonfullerene acceptors in organic photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16345-56	16.4	290
701	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> , <b>2006</b> , 128, 5792-801	16.4	280
700	Orthogonal tandem catalysis. <i>Nature Chemistry</i> , <b>2015</b> , 7, 477-82	17.6	278
699	C <sub>2</sub> -symmetric bis(oxazolinato)lanthanide catalysts for enantioselective intramolecular hydroamination/cyclization. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 14768-83	16.4	275
698	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> , <b>2008</b> , 130, 9679-94	16.4	267
697	Efficient squaraine-based solution processable bulk-heterojunction solar cells. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17640-1	16.4	261
696	New Type of 2D Perovskites with Alternating Cations in the Interlayer Space, (C(NH))(CHNH)PbI <sub>3</sub> : Structure, Properties, and Photovoltaic Performance. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16297-16309	16.4	251
695	Cationic Metallocene Polymerization Catalysts Based on Tetrakis(pentafluorophenyl)borate and Its Derivatives. Probing the Limits of Anion Noncoordination via a Synthetic, Solution Dynamic, Structural, and Catalytic Olefin Polymerization Study. <i>Organometallics</i> , <b>1997</b> , 16, 842-857	3.8	249

694	Synthesis, Characterization, Optical Spectroscopic, Electronic Structure, and Second-Order Nonlinear Optical (NLO) Properties of a Novel Class of Donor-Acceptor Bis(salicylaldiminato)nickel(II) Schiff Base NLO Chromophores. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 9550-9557	16.4	248
693	Singlet exciton fission in polycrystalline thin films of a slip-stacked perylenediimide. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14701-12	16.4	246
692	Hybrid, Gate-Tunable, van der Waals p-n Heterojunctions from Pentacene and MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2016</b> , 16, 497-503	11.5	240
691	Bithiopheneimide-dithienosilole/dithienogermole copolymers for efficient solar cells: information from structure-property-device performance correlations and comparison to thieno[3,4-c]pyrrole-4,6-dione analogues. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18427-39	16.4	239
690	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> , <b>2016</b> , 138, 1240-51	16.4	237
689	Sigma-pi 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> , <b>2005</b> , 102, 4678-82	11.5	234
688	Electrically conductive metallomacrocyclic assemblies. <i>Science</i> , <b>1985</b> , 227, 881-9	33.3	232
687	Understanding Film Formation Morphology and Orientation in High Member 2D Ruddlesden-Popper Perovskites for High-Efficiency Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1700979	21.8	231
686	Ultralarge hyperpolarizability twisted pi-electron system electro-optic chromophores: 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> , <b>2007</b> , 129, 3267-86	16.4	230
685	Efficiency Enhancement in Organic Photovoltaic Cells: Consequences of Optimizing Series Resistance. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 97-104	15.6	229
684	Cyanonaphthalene Diimide Semiconductors for Air-Stable, Flexible, and Optically Transparent n-Channel Field-Effect Transistors. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2703-2705	9.6	228
683	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> , <b>2019</b> , 141, 3274-3287	16.4	226
682	Unequal partnership: asymmetric roles of polymeric donor and fullerene acceptor in generating free charge. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2876-84	16.4	222
681	Sterically Encumbered (Perfluoroaryl) Borane and Aluminate Cocatalysts for Tuning Cation-Anion Ion Pair Structure and Reactivity in Metallocene Polymerization Processes. A Synthetic, Structural, and Polymerization Study. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6287-6305	16.4	218
680	Organolanthanide-Catalyzed Intramolecular Hydroamination/Cyclization of Aminoalkynes. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 9295-9306	16.4	215
679	Thieno[3,4-c]pyrrole-4,6-dione-based polymer semiconductors: toward high-performance, air-stable organic thin-film transistors. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13685-97	16.4	213
678	Metal-free tetrathienoacene sensitizers for high-performance dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4414-23	16.4	210
677	Morphology-Performance Relationships in High-Efficiency All-Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300785	21.8	210

- 676 High-performance solution-processed amorphous zinc-indium-tin oxide thin-film transistors. *Journal of the American Chemical Society*, **2010**, 132, 10352-64 16.4 210
- 675 In Situ Characterization of Lifetime and Morphology in Operating Bulk Heterojunction Organic Photovoltaic Devices by Impedance Spectroscopy. *Advanced Energy Materials*, **2012**, 2, 120-128 21.8 207
- 674 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. *Journal of the American Chemical Society*, **2012**, 134, 386-97 16.4 207
- 673 Bithiophene-imide-based polymeric semiconductors for field-effect transistors: synthesis, structure-property correlations, charge carrier polarity, and device stability. *Journal of the American Chemical Society*, **2011**, 133, 1405-18 16.4 206
- 672 Nuclearity and cooperativity effects in binuclear catalysts and cocatalysts for olefin polymerization. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 15295-302 11.5 204
- 671 Design strategies for the molecular level synthesis of supported catalysts. *Accounts of Chemical Research*, **2012**, 45, 206-14 24.3 200
- 670 Constrained Geometry Di-alkyl Catalysts. Efficient Syntheses, C-H Bond Activation Chemistry, Monomer-Dimer Equilibration, and Olefin Polymerization Catalysis. *Organometallics*, **1997**, 16, 3649-3657 3.8 200
- 669 Electronic Structure and Quadratic Hyperpolarizabilities in Organotransition-Metal Chromophores Having Weakly Coupled  $\pi$ -Networks. Unusual Mechanisms for Second-Order Response. *Journal of the American Chemical Society*, **1994**, 116, 10089-10102 16.4 194
- 668 Organolanthanide-Catalyzed Intra- and Intermolecular Tandem C-H and C-C Bond-Forming Processes of Aminodialkenes, Aminodialkynes, Aminoalkenynes, and Aminoalkynes. New Regiospecific Approaches to Pyrrolizidine, Indolizidine, Pyrrole, and Pyrazine Skeletons. *Journal of the American Chemical Society*, **1998**, 120, 1757-1771 16.4 193
- 667 Effects of Arylene Diimide Thin Film Growth Conditions on n-Channel OFET Performance. *Advanced Functional Materials*, **2008**, 18, 1329-1339 15.6 191
- 666 Diverse Mechanistic Pathways and Selectivities in Organo-f-Element-Catalyzed Hydroamination. Intermolecular Organolanthanide-Catalyzed Alkyne and Alkene Hydroamination. *Organometallics*, **1996**, 15, 3770-3772 3.8 191
- 665 Low-frequency electronic noise in single-layer MoS<sub>2</sub> transistors. *Nano Letters*, **2013**, 13, 4351-5 11.5 188
- 664 Mild amidation of aldehydes with amines mediated by lanthanide catalysts. *Organic Letters*, **2008**, 10, 317-9 6.2 188
- 663 Rational Design of Molecules with Large Hyperpolarizabilities. Electric Field, Solvent Polarity, and Bond Length Alternation Effects on Merocyanine Dye Linear and Nonlinear Optical Properties. *The Journal of Physical Chemistry*, **1996**, 100, 9714-9725 187
- 662 Versatile pathways for in situ polyolefin functionalization with heteroatoms: catalytic chain transfer. *Angewandte Chemie - International Edition*, **2008**, 47, 2006-25 16.4 185
- 661 Mechanistic investigation of intramolecular aminoalkene and aminoalkyne hydroamination/cyclization catalyzed by highly electrophilic, tetravalent constrained geometry 4d and 5f complexes. Evidence for an M-N sigma-bonded insertive pathway. *Journal of the American Chemical Society*, **2007**, 129, 6149-67 16.4 184
- 660 Organo-f-element catalysts for efficient and highly selective hydroalkoxylation and hydrothiolation. *Dalton Transactions*, **2010**, 39, 6576-88 4.3 182
- 659 Multinuclear group 4 catalysis: olefin polymerization pathways modified by strong metal-metal cooperative effects. *Accounts of Chemical Research*, **2014**, 47, 2545-57 24.3 175



658	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> , <b>2010</b> , 132, 4074-5	16.4	175
657	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> , <b>2012</b> , 134, 10966-73	16.4	174
656	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> , <b>2010</b> , 22, 5154-5164	9.6	172
655	Interfaces between Molecular and Polymeric "Metals" Electrically Conductive, Structure-Enforced Assemblies of Metallomacrocycles. <i>Angewandte Chemie International Edition in English</i> , <b>1990</b> , 29, 857-879		171
654	High performance solution-processed indium oxide thin-film transistors. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12580-1	16.4	166
653	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> , <b>1996</b> , 118, 12451-12452	16.4	166
652	Enhanced Efficiency of Hot-Cast Large-Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601660	21.8	164
651	Dialkoxybithiazole: a new building block for head-to-head polymer semiconductors. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1986-96	16.4	164
650	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> , <b>2003</b> , 125, 15878-92	16.4	164
649	Solution-processed carbon nanotube thin-film complementary static random access memory. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 944-8	28.7	163
648	Constrained Geometry Organolanthanide Catalysts. Synthesis, Structural Characterization, and Enhanced Aminoalkene Hydroamination/Cyclization Activity. <i>Organometallics</i> , <b>1999</b> , 18, 2568-2570	3.8	160
647	Highly Electrophilic Olefin Polymerization Catalysts. Quantitative Reaction Coordinates for Fluoroarylborane/Alumoxane Methide Abstraction and Ion-Pair Reorganization in Group 4 Metallocene and "Constrained Geometry" Catalysts. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1772-1784	16.4	159
646	Universality of non-Ohmic shunt leakage in thin-film solar cells. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 124509	2.5	158
645	Organolanthanide-Catalyzed Intramolecular Hydroamination/Cyclization of Aminoallenes. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 4871-4872	16.4	157
644	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> , <b>1996</b> , 118, 8034-8042	16.4	156
643	Organolanthanide-catalyzed hydroboration of olefins. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 9220-9221	16.4	155
642	NOE and PGSE NMR spectroscopic studies of solution structure and aggregation in metallocenium ion-pairs. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 1448-64	16.4	153
641	Catalyst/cocatalyst nuclearity effects in single-site polymerization. Enhanced polyethylene branching and alpha-olefin comonomer enchainment in polymerizations mediated by binuclear catalysts and cocatalysts via a new enchainment pathway. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12725-41	16.4	153

640	Oxygen "getter" effects on microstructure and carrier transport in low temperature combustion-processed a-InXZnO (X = Ga, Sc, Y, La) transistors. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10729-41	16.4	152
639	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> , <b>2019</b> , 116, 58-66	11.5	152
638	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> , <b>2015</b> , 112, 3217-22	11.5	151
637	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> , <b>2007</b> , 129, 4253-71	16.4	151
636	Ring-fusion as a perylenediimide dimer design concept for high-performance non-fullerene organic photovoltaic acceptors. <i>Chemical Science</i> , <b>2016</b> , 7, 3543-3555	9.4	149
635	Atom-efficient regioselective 1,2-dearomatization of functionalized pyridines by an earth-abundant organolanthanide catalyst. <i>Nature Chemistry</i> , <b>2014</b> , 6, 1100-7	17.6	146
634	Graphene Oxide Interlayers for Robust, High-Efficiency Organic Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 3006-3012	6.4	145
633	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> , <b>2010</b> , 132, 6108-23	16.4	145
632	Bithiophene imide and benzodithiophene copolymers for efficient inverted polymer solar cells. <i>Advanced Materials</i> , <b>2012</b> , 24, 2242-8	24	142
631	Widening the Roof Synthesis and Characterization of New Chiral C1-Symmetric Octahydrofluorenyl Organolanthanide Catalysts and Their Implementation in the Stereoselective Cyclizations of Aminoalkenes and Phosphinoalkenes. <i>Organometallics</i> , <b>2002</b> , 21, 283-292	3.8	142
630	Dopant-Free Hole Transporting Polymers for High Efficiency, Environmentally Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600502	21.8	141
629	Effective, selective hydroalkoxylation/cyclization of alkynyl and allenyl alcohols mediated by lanthanide catalysts. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7244-5	16.4	140
628	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> , <b>2004</b> , 126, 4605-25	16.4	140
627	A Novel Phenolate Constrained Geometry Catalyst System. Efficient Synthesis, Structural Characterization, and Olefin Polymerization Catalysis. <i>Organometallics</i> , <b>1997</b> , 16, 5958-5963	3.8	139
626	Bimetallic catalysis for styrene homopolymerization and ethylene-styrene copolymerization. Exceptional comonomer selectivity and insertion regiochemistry. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 6542-3	16.4	139
625	Intramolecular hydroalkoxylation/cyclization of alkynyl alcohols mediated by lanthanide catalysts. Scope and reaction mechanism. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 263-76	16.4	136
624	Epitaxial growth of BaTiO <sub>3</sub> thin films by organometallic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 41-43	3.4	134
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