

# Matthew S Sigman

## List of Publications by Year in descending order

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235  
papers

23,845  
citations

5248

83  
h-index

9073

144  
g-index

254  
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254  
docs citations

254  
times ranked

14601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Transition Metal (Pd,Ni,Fe)-Catalyzed Cross-Coupling Reactions Using Alkyl-organometallics as Reaction Partners. <i>Chemical Reviews</i> , 2011, 111, 1417-1492.	23.0	1,876
2	Schiff Base Catalysts for the Asymmetric Strecker Reaction Identified and Optimized from Parallel Synthetic Libraries. <i>Journal of the American Chemical Society</i> , 1998, 120, 4901-4902.	6.6	873
3	Exploiting non-covalent $\pi$ - $\pi$ interactions for catalyst design. <i>Nature</i> , 2017, 543, 637-646.	13.7	583
4	Ligand-Modulated Palladium-Catalyzed Aerobic Alcohol Oxidations. <i>Accounts of Chemical Research</i> , 2006, 39, 221-229.	7.6	558
5	Substrate channelling as an approach to cascade reactions. <i>Nature Chemistry</i> , 2016, 8, 299-309.	6.6	514
6	A General Catalyst for the Asymmetric Strecker Reaction. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1279-1281.	7.2	433
7	Enantioselective Heck Arylations of Acyclic Alkenyl Alcohols Using a Redox-Relay Strategy. <i>Science</i> , 2012, 338, 1455-1458.	6.0	403
8	Mechanistic approaches to palladium-catalyzed alkene difunctionalization reactions. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 4083.	1.5	394
9	Enantioselective construction of remote quaternary stereocentres. <i>Nature</i> , 2014, 508, 340-344.	13.7	393
10	Palladium-Catalyzed Enantioselective Oxidations of Alcohols Using Molecular Oxygen. <i>Journal of the American Chemical Society</i> , 2001, 123, 7475-7476.	6.6	342
11	Applications of <i>ortho</i> -Quinone Methide Intermediates in Catalysis and Asymmetric Synthesis. <i>Journal of Organic Chemistry</i> , 2011, 76, 9210-9215.	1.7	307
12	Enantioselective Addition of Hydrogen Cyanide to Imines Catalyzed by a Chiral (Salen)Al(III) Complex. <i>Journal of the American Chemical Society</i> , 1998, 120, 5315-5316.	6.6	299
13	A Well-Defined Complex for Palladium-Catalyzed Aerobic Oxidation of Alcohols: Design, Synthesis, and Mechanistic Considerations. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3810-3813.	7.2	284
14	The Development of Multidimensional Analysis Tools for Asymmetric Catalysis and Beyond. <i>Accounts of Chemical Research</i> , 2016, 49, 1292-1301.	7.6	279
15	A synthetic chemist's guide to electroanalytical tools for studying reaction mechanisms. <i>Chemical Science</i> , 2019, 10, 6404-6422.	3.7	255
16	Predictive and mechanistic multivariate linear regression models for reaction development. <i>Chemical Science</i> , 2018, 9, 2398-2412.	3.7	248
17	Elucidating the Significance of $\beta$ -Hydride Elimination and the Dynamic Role of Acid/Base Chemistry in a Palladium-Catalyzed Aerobic Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , 2004, 126, 9724-9734.	6.6	235
18	Palladium(II)-Catalyzed Enantioselective Aerobic Dialkoxylation of 2-Propenyl Phenols: A Pronounced Effect of Copper Additives on Enantioselectivity. <i>Journal of the American Chemical Society</i> , 2007, 129, 3076-3077.	6.6	232

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19	Enantioselective Redox-Relay Oxidative Heck Arylations of Acyclic Alkenyl Alcohols using Boronic Acids. <i>Journal of the American Chemical Society</i> , 2013, 135, 6830-6833.	6.6	230
20	A Palladium-Catalyzed Three-Component Cross-Coupling of Conjugated Dienes or Terminal Alkenes with Vinyl Triflates and Boronic Acids. <i>Journal of the American Chemical Society</i> , 2011, 133, 5784-5787.	6.6	228
21	Multidimensional steric parameters in the analysis of asymmetric catalytic reactions. <i>Nature Chemistry</i> , 2012, 4, 366-374.	6.6	225
22	Synthesis and Preliminary Biological Studies of 3-Substituted Indoles Accessed by a Palladium-Catalyzed Enantioselective Alkene Difunctionalization Reaction. <i>Journal of the American Chemical Society</i> , 2010, 132, 7870-7871.	6.6	222
23	Nickel-Catalyzed Enantioselective Reductive Cross-Coupling of Styrenyl Aziridines. <i>Journal of the American Chemical Society</i> , 2017, 139, 5688-5691.	6.6	214
24	Recent Progress in Wacker Oxidations: Moving toward Molecular Oxygen as the Sole Oxidant. <i>Inorganic Chemistry</i> , 2007, 46, 1903-1909.	1.9	209
25	Mechanistic Questions about the Reaction of Molecular Oxygen with Palladium in Oxidase Catalysis. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6612-6615.	7.2	203
26	Holistic prediction of enantioselectivity in asymmetric catalysis. <i>Nature</i> , 2019, 571, 343-348.	13.7	190
27	Imparting Catalyst Control upon Classical Palladium-Catalyzed Alkenyl C-H Bond Functionalization Reactions. <i>Accounts of Chemical Research</i> , 2012, 45, 874-884.	7.6	189
28	Pursuit of Noncovalent Interactions for Strategic Site-Selective Catalysis. <i>Accounts of Chemical Research</i> , 2017, 50, 609-615.	7.6	188
29	Mechanism, Reactivity, and Selectivity in Palladium-Catalyzed Redox-Relay Heck Arylations of Alkenyl Alcohols. <i>Journal of the American Chemical Society</i> , 2014, 136, 1960-1967.	6.6	187
30	Three-Dimensional Correlation of Steric and Electronic Free Energy Relationships Guides Asymmetric Propargylation. <i>Science</i> , 2011, 333, 1875-1878.	6.0	185
31	A data-intensive approach to mechanistic elucidation applied to chiral anion catalysis. <i>Science</i> , 2015, 347, 737-743.	6.0	185
32	Parameterization of phosphine ligands reveals mechanistic pathways and predicts reaction outcomes. <i>Nature Chemistry</i> , 2016, 8, 610-617.	6.6	177
33	Palladium-Catalyzed Oxidative Intermolecular Difunctionalization of Terminal Alkenes with Organostannanes and Molecular Oxygen. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3146-3149.	7.2	173
34	Development and Comparison of the Substrate Scope of Pd-Catalysts for the Aerobic Oxidation of Alcohols. <i>Journal of Organic Chemistry</i> , 2005, 70, 3343-3352.	1.7	169
35	Palladium Catalysts for Aerobic Oxidative Kinetic Resolution of Secondary Alcohols Based on Mechanistic Insight. <i>Organic Letters</i> , 2003, 5, 63-65.	2.4	168
36	Physical Organic Approach to Persistent, Cyclable, Low-Potential Electrolytes for Flow Battery Applications. <i>Journal of the American Chemical Society</i> , 2017, 139, 2924-2927.	6.6	165

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37	Advancing the Mechanistic Understanding of an Enantioselective Palladium-Catalyzed Alkene Difunctionalization Reaction. <i>Journal of the American Chemical Society</i> , 2010, 132, 17471-17482.	6.6	158
38	Enantioselective Dehydrogenative Heck Arylations of Trisubstituted Alkenes with Indoles to Construct Quaternary Stereocenters. <i>Journal of the American Chemical Society</i> , 2015, 137, 15668-15671.	6.6	158
39	Discovery of and Mechanistic Insight into a Ligand-Modulated Palladium-Catalyzed Wacker Oxidation of Styrenes Using TBHP. <i>Journal of the American Chemical Society</i> , 2005, 127, 2796-2797.	6.6	152
40	Palladium-Catalyzed Enantioselective Addition of Two Distinct Nucleophiles across Alkenes Capable of Quinone Methide Formation. <i>Journal of the American Chemical Society</i> , 2009, 131, 17074-17075.	6.6	151
41	Palladium-Catalyzed 1,4-Difunctionalization of Butadiene To Form Skipped Polyenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 4167-4170.	6.6	150
42	Analyzing Site Selectivity in Rh <sub>2</sub> (esp) <sub>2</sub> -Catalyzed Intermolecular C-H Amination Reactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 5783-5789.	6.6	141
43	Zebrafish screen identifies novel compound with selective toxicity against leukemia. <i>Blood</i> , 2012, 119, 5621-5631.	0.6	138
44	Operationally Simple and Highly ( <i>E</i> )-Styrenyl-Selective Heck Reactions of Electronically Nonbiased Olefins. <i>Journal of the American Chemical Society</i> , 2011, 133, 9692-9695.	6.6	137
45	A Highly Selective and General Palladium Catalyst for the Oxidative Heck Reaction of Electronically Nonbiased Olefins. <i>Journal of the American Chemical Society</i> , 2010, 132, 13981-13983.	6.6	136
46	High-Performance Oligomeric Catholytes for Effective Macromolecular Separation in Nonaqueous Redox Flow Batteries. <i>ACS Central Science</i> , 2018, 4, 189-196.	5.3	134
47	Enantiodivergent Pd-catalyzed C-C bond formation enabled through ligand parameterization. <i>Science</i> , 2018, 362, 670-674.	6.0	134
48	Oxygen-Induced Ligand Dehydrogenation of a Planar Bis- <sup>1</sup> / <sub>4</sub> -Chloronickel(I) Dimer Featuring an NHC Ligand. <i>Inorganic Chemistry</i> , 2005, 44, 3774-3776.	1.9	128
49	Interrogating selectivity in catalysis using molecular vibrations. <i>Nature</i> , 2014, 507, 210-214.	13.7	128
50	Using Mechanistic and Computational Studies To Explain Ligand Effects in the Palladium-Catalyzed Aerobic Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , 2005, 127, 8499-8507.	6.6	127
51	Palladium-Catalyzed Enantioselective Heck Alkenylation of Acyclic Alkenols Using a Redox-Relay Strategy. <i>Journal of the American Chemical Society</i> , 2015, 137, 3462-3465.	6.6	126
52	The renaissance of palladium(ii)-catalyzed oxidation chemistry. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2551.	1.5	123
53	Disparate Catalytic Scaffolds for Atroposelective Cyclodehydration. <i>Journal of the American Chemical Society</i> , 2019, 141, 6698-6705.	6.6	120
54	Dual Role of (â <sup>+</sup> )-Sparteine in the Palladium-Catalyzed Aerobic Oxidative Kinetic Resolution of Secondary Alcohols. <i>Journal of the American Chemical Society</i> , 2002, 124, 8202-8203.	6.6	118

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55	A Palladium-Catalyzed Three-Component-Coupling Strategy for the Differential Vicinal Diarylation of Terminal 1,3-Dienes. <i>Organic Letters</i> , 2014, 16, 4666-4669.	2.4	118
56	Design and Synthesis of Modular Oxazoline Ligands for the Enantioselective Chromium-Catalyzed Addition of Allyl Bromide to Ketones. <i>Journal of the American Chemical Society</i> , 2007, 129, 2752-2753.	6.6	117
57	Enantiodivergent Fluorination of Allylic Alcohols: Data Set Design Reveals Structural Interplay between Achiral Directing Group and Chiral Anion. <i>Journal of the American Chemical Society</i> , 2016, 138, 3863-3875.	6.6	116
58	Mechanistic Investigations of the Palladium-Catalyzed Aerobic Oxidative Kinetic Resolution of Secondary Alcohols Using (âˆ™)-Sparteine. <i>Journal of the American Chemical Society</i> , 2003, 125, 7005-7013.	6.6	115
59	A General and Efficient Catalyst System for a Wacker-Type Oxidation Using TBHP as the Terminal Oxidant: Application to Classically Challenging Substrates. <i>Journal of the American Chemical Society</i> , 2009, 131, 6076-6077.	6.6	115
60	Development and Analysis of a Pd(0)-Catalyzed Enantioselective 1,1-Diarylation of Acrylates Enabled by Chiral Anion Phase Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 15877-15880.	6.6	113
61	Discovery of a Practical Direct O <sub>2</sub> -Coupled Wacker Oxidation with Pd[(âˆ™)-sparteine]Cl <sub>2</sub> . <i>Organic Letters</i> , 2006, 8, 4117-4120.	2.4	111
62	Alkenyl Carbonyl Derivatives in Enantioselective Redox Relay Heck Reactions: Accessing Î±,Î²-Unsaturated Systems. <i>Journal of the American Chemical Society</i> , 2015, 137, 7290-7293.	6.6	111
63	Photophysics of 2'-Deoxyuridine (dU) Nucleosides Covalently Substituted with Either 1-Pyrenyl or 1-Pyrenoyl: Observation of Pyrene-to-Nucleoside Charge-Transfer Emission in 5-(1-Pyrenyl)-dU. <i>Journal of the American Chemical Society</i> , 1995, 117, 9119-9128.	6.6	110
64	Palladium-Catalyzed 1,1-Difunctionalization of Ethylene. <i>Journal of the American Chemical Society</i> , 2012, 134, 11372-11375.	6.6	110
65	Palladium-Catalyzed Hydroarylation of 1,3-Dienes with Boronic Esters via Reductive Formation of Îµ-Allyl Palladium Intermediates under Oxidative Conditions. <i>Journal of the American Chemical Society</i> , 2010, 132, 10209-10211.	6.6	108
66	Hybrid Enzymatic and Organic Electrocatalytic Cascade for the Complete Oxidation of Glycerol. <i>Journal of the American Chemical Society</i> , 2014, 136, 15917-15920.	6.6	104
67	Systematically Probing the Effect of Catalyst Acidity in a Hydrogen-Bond-Catalyzed Enantioselective Reaction. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4748-4750.	7.2	101
68	Mechanism-Based Design of a High-Potential Catholyte Enables a 3.2 V All-Organic Nonaqueous Redox Flow Battery. <i>Journal of the American Chemical Society</i> , 2019, 141, 15301-15306.	6.6	101
69	Comparing quantitative prediction methods for the discovery of small-molecule chiral catalysts. <i>Nature Reviews Chemistry</i> , 2018, 2, 290-305.	13.8	100
70	Palladium(II)-Catalyzed Aerobic Dialkoxylation of Styrenes: A Profound Influence of <i>ortho</i> -Phenol. <i>Journal of the American Chemical Society</i> , 2006, 128, 1460-1461.	6.6	98
71	On the Mechanism of the Palladium-Catalyzed <i>tert</i> -Butylhydroperoxide-Mediated Wacker-Type Oxidation of Alkenes Using Quinoline-2-Oxazoline Ligands. <i>Journal of the American Chemical Society</i> , 2011, 133, 8317-8325.	6.6	98
72	Pd(0)-Catalyzed 1,1-Diarylation of Ethylene and Allylic Carbonates. <i>Organic Letters</i> , 2013, 15, 5008-5011.	2.4	97

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73	Univariate classification of phosphine ligation state and reactivity in cross-coupling catalysis. <i>Science</i> , 2021, 374, 301-308.	6.0	97
74	A Comprehensive Discovery Platform for Organophosphorus Ligands for Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 1205-1217.	6.6	97
75	Palladium-Catalyzed Reductive Coupling of Styrenes and Organostannanes under Aerobic Conditions. <i>Journal of the American Chemical Society</i> , 2007, 129, 14193-14195.	6.6	96
76	Transition-Metal-Catalyzed Laboratory-Scale Carbon-Carbon Bond-Forming Reactions of Ethylene. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11206-11220.	7.2	96
77	Investigating the Nature of Palladium Chain-Walking in the Enantioselective Redox-Relay Heck Reaction of Alkenyl Alcohols. <i>Journal of Organic Chemistry</i> , 2014, 79, 11841-11850.	1.7	95
78	Design of Hydrogen Bond Catalysts Based on a Modular Oxazoline Template: Application to an Enantioselective Hetero Diels-Alder Reaction. <i>Organic Letters</i> , 2005, 7, 5473-5475.	2.4	94
79	Palladium-Catalyzed Allylic Cross-Coupling Reactions of Primary and Secondary Homoallylic Electrophiles. <i>Journal of the American Chemical Society</i> , 2012, 134, 11408-11411.	6.6	94
80	Palladium-Catalyzed Enantioselective Redox-Relay Heck Arylation of 1,1-Disubstituted Homoallylic Alcohols. <i>Journal of the American Chemical Society</i> , 2016, 138, 11461-11464.	6.6	94
81	Data-science driven autonomous process optimization. <i>Communications Chemistry</i> , 2021, 4, .	2.0	94
82	Scope of Enantioselective Palladium(II)-Catalyzed Aerobic Alcohol Oxidations with ( $\delta^+$ )-Sparteine. <i>Journal of Organic Chemistry</i> , 2003, 68, 4600-4603.	1.7	91
83	Predicting Electrocatalytic Properties: Modeling Structure-Activity Relationships of Nitroxyl Radicals. <i>Journal of the American Chemical Society</i> , 2015, 137, 16179-16186.	6.6	91
84	Synthesis of Highly Functionalized Tri- and Tetrasubstituted Alkenes via Pd-Catalyzed 1,2-Hydrovinylation of Terminal 1,3-Dienes. <i>Journal of the American Chemical Society</i> , 2015, 137, 608-611.	6.6	91
85	Palladium(II)-Catalyzed Aerobic Hydroalkoxylation of Styrenes Containing a Phenol. <i>Journal of the American Chemical Society</i> , 2006, 128, 2794-2795.	6.6	90
86	Palladium(II)-Catalyzed Enantio- and Diastereoselective Synthesis of Pyrrolidine Derivatives. <i>Organic Letters</i> , 2012, 14, 4074-4077.	2.4	90
87	Unusual Reactivity of Molecular Oxygen with $\eta^5$ -Allylnickel(N-heterocyclic carbene) Chloride Complexes. <i>Journal of the American Chemical Society</i> , 2003, 125, 872-873.	6.6	88
88	Enantioselective Palladium-Catalyzed Alkenylation of Trisubstituted Alkenols To Form Allylic Quaternary Centers. <i>Journal of the American Chemical Society</i> , 2016, 138, 14226-14229.	6.6	88
89	Quantitatively Correlating the Effect of Ligand-Substituent Size in Asymmetric Catalysis Using Linear Free Energy Relationships. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 771-774.	7.2	87
90	Parametrization of Non-covalent Interactions for Transition State Interrogation Applied to Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 6803-6806.	6.6	87

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91	Mechanistic Investigations of the Pd(0)-Catalyzed Enantioselective 1,1-Diarylation of Benzyl Acrylates. <i>Journal of the American Chemical Society</i> , 2017, 139, 12688-12695.	6.6	85
92	Examination of the Role of Taft-Type Steric Parameters in Asymmetric Catalysis. <i>Journal of Organic Chemistry</i> , 2009, 74, 7633-7643.	1.7	84
93	Asymmetric palladium-catalyzed hydroarylation of styrenes and dienes. <i>Tetrahedron</i> , 2011, 67, 4435-4441.	1.0	84
94	Stereochemical Diversity in Chiral Ligand Design: Discovery and Optimization of Catalysts for the Enantioselective Addition of Allylic Halides to Aldehydes. <i>Organic Letters</i> , 2005, 7, 1837-1839.	2.4	83
95	Parameterization of Acyclic Diaminocarbene Ligands Applied to a Gold(I)-Catalyzed Enantioselective Tandem Rearrangement/Cyclization. <i>Journal of the American Chemical Society</i> , 2017, 139, 12943-12946.	6.6	82
96	Cobalt-Catalyzed Cyclotrimerization of Alkynes in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1998, 120, 5130-5131.	6.6	81
97	Pd <sup>II</sup> -Catalyzed Oxidative 1,1-Diarylation of Terminal Olefins. <i>Organic Letters</i> , 2010, 12, 2848-2851.	2.4	79
98	Predicting and optimizing asymmetric catalyst performance using the principles of experimental design and steric parameters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2179-2183.	3.3	79
99	Using Physical Organic Parameters To Correlate Asymmetric Catalyst Performance. <i>Journal of Organic Chemistry</i> , 2013, 78, 2813-2818.	1.7	77
100	Palladium-Catalyzed Aerobic Oxidative Kinetic Resolution of Alcohols with an Achiral Exogenous Base. <i>Journal of Organic Chemistry</i> , 2003, 68, 7535-7537.	1.7	76
101	Quantitatively Analyzing Metathesis Catalyst Activity and Structural Features in Silica-Supported Tungsten Imido-Alkylidene Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6699-6704.	6.6	76
102	Developing a Modern Approach To Account for Steric Effects in Hammett-Type Correlations. <i>Journal of the American Chemical Society</i> , 2016, 138, 13424-13430.	6.6	76
103	The development and mechanistic investigation of a palladium-catalyzed 1,3-arylfluorination of chromenes. <i>Chemical Science</i> , 2017, 8, 2890-2897.	3.7	76
104	Developing Comprehensive Computational Parameter Sets To Describe the Performance of Pyridine-Oxazoline and Related Ligands. <i>ACS Catalysis</i> , 2017, 7, 4144-4151.	5.5	76
105	Carbon Atom Insertion into Pyrroles and Indoles Promoted by Chlorodiazirines. <i>Journal of the American Chemical Society</i> , 2021, 143, 11337-11344.	6.6	76
106	Enantioselective construction of remote tertiary carbon-fluorine bonds. <i>Nature Chemistry</i> , 2019, 11, 710-715.	6.6	75
107	Prediction of Catalyst and Substrate Performance in the Enantioselective Propargylation of Aliphatic Ketones by a Multidimensional Model of Steric Effects. <i>Journal of the American Chemical Society</i> , 2013, 135, 2482-2485.	6.6	74
108	Ruthenium-Catalyzed C-H Hydroxylation in Aqueous Acid Enables Selective Functionalization of Amine Derivatives. <i>Journal of the American Chemical Society</i> , 2017, 139, 9503-9506.	6.6	71



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109	Exploiting and Understanding the Selectivity of Ru-N-Heterocyclic Carbene Metathesis Catalysts for the Ethenolysis of Cyclic Olefins to $\hat{1}\pm, \hat{1}\%$ -Dienes. <i>Journal of the American Chemical Society</i> , 2017, 139, 13117-13125.	6.6	70
110	Catalytic Iron-Mediated [4 + 1] Cycloaddition of Diallenes with Carbon Monoxide. <i>Journal of the American Chemical Society</i> , 1996, 118, 11783-11788.	6.6	69
111	Palladium-Catalyzed Enantioselective Relay Heck Arylation of Enelactams: Accessing $\hat{1}\pm, \hat{1}^2$ -Unsaturated $\hat{1}$ -Lactams. <i>Journal of the American Chemical Society</i> , 2018, 140, 6527-6530.	6.6	69
112	Synthesis and preliminary biological study of bisindolylmethanes accessed by an acid-catalyzed hydroarylation of vinyl indoles. <i>Tetrahedron</i> , 2012, 68, 5203-5208.	1.0	68
113	Predictive Multivariate Linear Regression Analysis Guides Successful Catalytic Enantioselective Minisci Reactions of Diazines. <i>Journal of the American Chemical Society</i> , 2019, 141, 19178-19185.	6.6	68
114	Modular Synthesis of Amine-Functionalized Oxazolines. <i>Organic Letters</i> , 2002, 4, 3399-3401.	2.4	67
115	Wacker-Type Oxidation of Internal Alkenes using Pd(Quinox) and TBHP. <i>Journal of Organic Chemistry</i> , 2013, 78, 1682-1686.	1.7	67
116	Catalytic iron-mediated carbon-oxygen and carbon-carbon bond formation in [4 + 1] assembly of alkylidenebutenolides. <i>Journal of the American Chemical Society</i> , 1993, 115, 7545-7546.	6.6	65
117	Palladium-Catalyzed Enantioselective Redox-Relay Heck Alkynylation of Alkenols To Access Propargylic Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6651-6654.	7.2	65
118	Cobalt-electrocatalytic HAT for functionalization of unsaturated C=C bonds. <i>Nature</i> , 2022, 605, 687-695.	13.7	65
119	Designer substrate library for quantitative, predictive modeling of reaction performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14698-14703.	3.3	64
120	Development and investigation of a site selective palladium-catalyzed 1,4-difunctionalization of isoprene using pyridine-oxazoline ligands. <i>Chemical Science</i> , 2015, 6, 1355-1361.	3.7	63
121	Uncovering Subtle Ligand Effects of Phosphines Using Gold(I) Catalysis. <i>ACS Catalysis</i> , 2017, 7, 3973-3978.	5.5	63
122	Developing a Predictive Solubility Model for Monomeric and Oligomeric Cyclopropenium-Based Flow Battery Catholytes. <i>Journal of the American Chemical Society</i> , 2019, 141, 10171-10176.	6.6	63
123	Catalytic Carbonyl-Olefin Metathesis of Aliphatic Ketones: Iron(III) Homo-Dimers as Lewis Acidic Superelectrophiles. <i>Journal of the American Chemical Society</i> , 2019, 141, 1690-1700.	6.6	63
124	Conformational Dynamics in Asymmetric Catalysis: Is Catalyst Flexibility a Design Element?. <i>Synthesis</i> , 2019, 51, 1021-1036.	1.2	62
125	<i>N</i> -Ammonium Ylide Mediators for Electrochemical C-H Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 7859-7867.	6.6	62
126	TEMPO-Modified Linear Poly(ethylenimine) for Immobilization-Enhanced Electrocatalytic Oxidation of Alcohols. <i>ACS Catalysis</i> , 2015, 5, 5519-5524.	5.5	61



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127	Evaluation of Catalyst Acidity and Substrate Electronic Effects in a Hydrogen Bond-Catalyzed Enantioselective Reaction. <i>Journal of Organic Chemistry</i> , 2010, 75, 7194-7201.	1.7	60
128	Organometallic nonlinear optical polymers. 3. Copolymerization of bridged bis(ferrocenyl) and bis(cyanoacetate) monomers via the Knoevenagel condensation. <i>Macromolecules</i> , 1992, 25, 6055-6058.	2.2	59
129	Origin of Enantioselection in Chiral Alcohol Oxidation Catalyzed by Pd[( $\Delta$ )-sparteine]Cl <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2005, 127, 14817-14824.	6.6	59
130	Experimental and Computational Study of a Direct O <sub>2</sub> -Coupled Wacker Oxidation: Water Dependence in the Absence of Cu Salts. <i>Journal of the American Chemical Society</i> , 2010, 132, 11872-11874.	6.6	58
131	Investigating the Role of Ligand Electronics on Stabilizing Electrocatalytically Relevant Low-Valent Co(I) Intermediates. <i>Journal of the American Chemical Society</i> , 2019, 141, 1382-1392.	6.6	58
132	The Evolution of Data-Driven Modeling in Organic Chemistry. <i>ACS Central Science</i> , 2021, 7, 1622-1637.	5.3	58
133	Palladium-Catalyzed Hydrofunctionalization of Vinyl Phenol Derivatives with Heteroaromatics. <i>Organic Letters</i> , 2011, 13, 2774-2777.	2.4	57
134	Parameterization and Analysis of Peptide-Based Catalysts for the Atroposelective Bromination of 3-Arylquinazolin-4(3 <i>H</i> )-ones. <i>Journal of the American Chemical Society</i> , 2018, 140, 868-871.	6.6	57
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