

Melanie S Sanford

List of Publications by Year in descending order

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228
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#	ARTICLE	IF	CITATIONS
1	Palladium-Catalyzed Ligand-Directed C-H Functionalization Reactions. <i>Chemical Reviews</i> , 2010, 110, 1147-1169.	47.7	5,643
2	Controlling Site Selectivity in Palladium-Catalyzed C-H Bond Functionalization. <i>Accounts of Chemical Research</i> , 2012, 45, 936-946.	15.6	1,257
3	Mechanism and Activity of Ruthenium Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 6543-6554.	13.7	1,103
4	A Highly Selective Catalytic Method for the Oxidative Functionalization of C-H Bonds. <i>Journal of the American Chemical Society</i> , 2004, 126, 2300-2301.	13.7	982
5	Transition metal catalyzed oxidative functionalization of carbon-hydrogen bonds. <i>Tetrahedron</i> , 2006, 62, 2439-2463.	1.9	861
6	High-valent organometallic copper and palladium in catalysis. <i>Nature</i> , 2012, 484, 177-185.	27.8	740
7	Oxidative C-H Activation/C-C Bond Forming Reactions: A Synthetic Scope and Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 2005, 127, 7330-7331.	13.7	739
8	Palladium-Catalyzed Oxygenation of Unactivated sp ³ C-H Bonds. <i>Journal of the American Chemical Society</i> , 2004, 126, 9542-9543.	13.7	682
9	Merging Visible-Light Photocatalysis and Transition-Metal Catalysis in the Copper-Catalyzed Trifluoromethylation of Boronic Acids with CF ₃ I. <i>Journal of the American Chemical Society</i> , 2012, 134, 9034-9037.	13.7	624
10	Room Temperature Palladium-Catalyzed 2-Arylation of Indoles. <i>Journal of the American Chemical Society</i> , 2006, 128, 4972-4973.	13.7	607
11	Room-Temperature C-H Arylation: Merger of Pd-Catalyzed C-H Functionalization and Visible-Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 18566-18569.	13.7	597
12	Palladium-Catalyzed Fluorination of Carbon-Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2006, 128, 7134-7135.	13.7	580
13	Catalytic and Highly Regioselective Cross-Coupling of Aromatic C-H Substrates. <i>Journal of the American Chemical Society</i> , 2007, 129, 11904-11905.	13.7	558
14	Synthesis and Activity of Ruthenium Alkylidene Complexes Coordinated with Phosphine and N-Heterocyclic Carbene Ligands. <i>Journal of the American Chemical Society</i> , 2003, 125, 2546-2558.	13.7	530
15	Cascade Catalysis for the Homogeneous Hydrogenation of CO ₂ to Methanol. <i>Journal of the American Chemical Society</i> , 2011, 133, 18122-18125.	13.7	528
16	Synthetic and Mechanistic Studies of Pd-Catalyzed C-H Arylation with Diaryliodonium Salts: Evidence for a Bimetallic High Oxidation State Pd Intermediate. <i>Journal of the American Chemical Society</i> , 2009, 131, 11234-11241.	13.7	492
17	New Insights into the Mechanism of Ruthenium-Catalyzed Olefin Metathesis Reactions. <i>Journal of the American Chemical Society</i> , 2001, 123, 749-750.	13.7	415
18	Oxone as an Inexpensive, Safe, and Environmentally Benign Oxidant for C-H Bond Oxygenation. <i>Organic Letters</i> , 2006, 8, 1141-1144.	4.6	398

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19	A Versatile Precursor for the Synthesis of New Ruthenium Olefin Metathesis Catalysts. <i>Organometallics</i> , 2001, 20, 5314-5318.	2.3	390
20	Tandem Amine and Ruthenium-Catalyzed Hydrogenation of CO ₂ to Methanol. <i>Journal of the American Chemical Society</i> , 2015, 137, 1028-1031.	13.7	375
21	Unusually Stable Palladium(IV) Complexes: A Detailed Mechanistic Investigation of C ^{sp} O Bond-Forming Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2005, 127, 12790-12791.	13.7	353
22	Reactions of Hypervalent Iodine Reagents with Palladium: Mechanisms and Applications in Organic Synthesis. <i>Inorganic Chemistry</i> , 2007, 46, 1924-1935.	4.0	348
23	N-Acyloxypthalimides as Nitrogen Radical Precursors in the Visible Light Photocatalyzed Room Temperature C ^{sp} H Amination of Arenes and Heteroarenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 5607-5610.	13.7	346
24	Reactivity of Pd(II) Complexes with Electrophilic Chlorinating Reagents: Isolation of Pd(IV) Products and Observation of C ^{sp} Cl Bond-Forming Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2007, 129, 15142-15143.	13.7	342
25	A Simple Catalytic Method for the Regioselective Halogenation of Arenes. <i>Organic Letters</i> , 2006, 8, 2523-2526.	4.6	338
26	Detailed Study of C ^{sp} O and C ^{sp} C Bond-Forming Reductive Elimination from Stable C ₂ N ₂ O ₂ -Ligated Palladium(IV) Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 10974-10983.	13.7	333
27	Insights into Directing Group Ability in Palladium-Catalyzed C ^{sp} H Bond Functionalization. <i>Journal of the American Chemical Society</i> , 2008, 130, 13285-13293.	13.7	328
28	Highly Regioselective Catalytic Oxidative Coupling Reactions: Synthetic and Mechanistic Investigations. <i>Journal of the American Chemical Society</i> , 2006, 128, 14047-14049.	13.7	327
29	Synthesis, Structure, and Activity of Enhanced Initiators for Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2003, 125, 10103-10109.	13.7	305
30	Aryl ^{sp} CF ₃ Bond-Forming Reductive Elimination from Palladium(IV). <i>Journal of the American Chemical Society</i> , 2010, 132, 2878-2879.	13.7	290
31	Construction of Tetrahydrofurans by PdII/PdIV-Catalyzed Aminooxygenation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5737-5740.	13.8	288
32	Palladium-catalysed transannular C ^{sp} H functionalization of alicyclic amines. <i>Nature</i> , 2016, 531, 220-224.	27.8	287
33	Carbon ^{sp} hydrogen (C ^{sp} H) bond activation at Pd ^{IV} : a Frontier in C ^{sp} H functionalization catalysis. <i>Chemical Science</i> , 2015, 6, 70-76.	7.4	285
34	Scope and selectivity in palladium-catalyzed directed C ^{sp} H bond halogenation reactions. <i>Tetrahedron</i> , 2006, 62, 11483-11498.	1.9	282
35	Silver-Mediated Trifluoromethylation of Arenes Using TMSCF ₃ . <i>Organic Letters</i> , 2011, 13, 5464-5467.	4.6	282
36	Heterogenization of Homogeneous Catalysts in Metal-Organic Frameworks via Cation Exchange. <i>Journal of the American Chemical Society</i> , 2013, 135, 10586-10589.	13.7	277

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37	Synthesis and Reactivity of a Mono- <i>tf</i> -Aryl Palladium(IV) Fluoride Complex. Journal of the American Chemical Society, 2009, 131, 3796-3797.	13.7	276
38	Late-stage [¹⁸ F]fluorination: new solutions to old problems. Chemical Science, 2014, 5, 4545-4553.	7.4	266
39	Design, synthesis, and carbon-heteroatom coupling reactions of organometallic nickel(IV) complexes. Science, 2015, 347, 1218-1220.	12.6	248
40	Aerobic Pd-Catalyzed sp ³ C-H Olefination: A Route to Both N-Heterocyclic Scaffolds and Alkenes. Journal of the American Chemical Society, 2011, 133, 6541-6544.	13.7	232
41	Mechanism of Benzoquinone-Promoted Palladium-Catalyzed Oxidative Cross-Coupling Reactions. Journal of the American Chemical Society, 2009, 131, 9651-9653.	13.7	226
42	Regioselectivity in Palladium-Catalyzed C-H Activation/Oxygenation Reactions. Organic Letters, 2005, 7, 4149-4152.	4.6	225
43	Oxidation of a Cyclometalated Pd(II) Dimer with CF_3 Formation and Reactivity of a Catalytically Competent Monomeric Pd(IV) Aquo Complex. Journal of the American Chemical Society, 2010, 132, 14682-14687.	13.7	225
44	Base-free nickel-catalysed decarbonylative Suzuki-Miyaura coupling of acid fluorides. Nature, 2018, 563, 100-104.	27.8	207
45	Catalytic CO ₂ Hydrogenation to Formate by a Ruthenium Pincer Complex. ACS Catalysis, 2013, 3, 2412-2416.	11.2	205
46	Practical Method for the Cu-Mediated Trifluoromethylation of Arylboronic Acids with CF ₃ Radicals Derived from NaSO ₂ CF ₃ and <i>tert</i> -Butyl Hydroperoxide (TBHP). Organic Letters, 2012, 14, 4979-4981.	4.6	202
47	Synthesis of [¹⁸ F]Arenes via the Copper-Mediated [¹⁸ F]Fluorination of Boronic Acids. Organic Letters, 2015, 17, 5780-5783.	4.6	199
48	Copper-Catalyzed [¹⁸ F]Fluorination of (Mesityl)(aryl)iodonium Salts. Organic Letters, 2014, 16, 3224-3227.	4.6	197
49	Synthesis of Cyclopropanes via Pd(II/IV)-Catalyzed Reactions of Enynes. Journal of the American Chemical Society, 2007, 129, 5836-5837.	13.7	194
50	Mechanistic and Computational Studies of Oxidatively-Induced Aryl-CF ₃ Bond-Formation at Pd: Rational Design of Room Temperature Aryl Trifluoromethylation. Journal of the American Chemical Society, 2011, 133, 7577-7584.	13.7	192
51	Evolutionary Design of Low Molecular Weight Organic Anolyte Materials for Applications in Nonaqueous Redox Flow Batteries. Journal of the American Chemical Society, 2015, 137, 14465-14472.	13.7	191
52	Pd-Catalyzed C-H Fluorination with Nucleophilic Fluoride. Organic Letters, 2012, 14, 4094-4097.	4.6	190
53	Combining Transition Metal Catalysis with Radical Chemistry: Dramatic Acceleration of Palladium-Catalyzed C-H Arylation with Diaryliodonium Salts. Advanced Synthesis and Catalysis, 2012, 354, 3517-3522.	4.3	187
54	Cu(OTf) ₂ -Mediated Fluorination of Aryltrifluoroborates with Potassium Fluoride. Journal of the American Chemical Society, 2013, 135, 16292-16295.	13.7	187

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55	<i>O</i> -Acetyl Oximes as Transformable Directing Groups for Pd-Catalyzed C–H Bond Functionalization. <i>Organic Letters</i> , 2010, 12, 532-535.	4.6	180
56	Nucleophilic Deoxyfluorination of Phenols via Aryl Fluorosulfonate Intermediates. <i>Journal of the American Chemical Society</i> , 2017, 139, 1452-1455.	13.7	174
57	Catalyst-controlled selectivity in the C–H borylation of methane and ethane. <i>Science</i> , 2016, 351, 1421-1424.	12.6	170
58	Highly Dispersed Palladium(II) in a Defective Metal–Organic Framework: Application to C–H Activation and Functionalization. <i>Journal of the American Chemical Society</i> , 2011, 133, 20138-20141.	13.7	166
59	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.	13.7	165
60	Chelating N-Heterocyclic Carbene Alkoxide as a Supporting Ligand for Pd ^{II/IV} C–H Bond Functionalization Catalysis. <i>Journal of the American Chemical Society</i> , 2009, 131, 13912-13913.	13.7	162
61	Remarkably High Reactivity of Pd(OAc) ₂ /Pyridine Catalysts: Nondirected C ₁₂ H Oxygenation of Arenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9409-9412.	13.8	162
62	Cu-Catalyzed Fluorination of Diaryliodonium Salts with KF. <i>Organic Letters</i> , 2013, 15, 5134-5137.	4.6	162
63	Controlling Site Selectivity in Pd-Catalyzed Oxidative Cross-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 4455-4464.	13.7	160
64	Pyridine Ligands as Promoters in Pd ^{II/0} -Catalyzed C–H Olefination Reactions. <i>Organic Letters</i> , 2012, 14, 1760-1763.	4.6	159
65	Oxidatively Intercepting Heck Intermediates: Pd-Catalyzed 1,2- and 1,1-Arylhalogenation of Alkenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 2150-2151.	13.7	158
66	Mild Palladium-Catalyzed C–H Alkylation Using Potassium Alkyltrifluoroborates in Combination with MnF ₃ . <i>Organic Letters</i> , 2013, 15, 2302-2305.	4.6	157
67	Nitrate as a redox co-catalyst for the aerobic Pd-catalyzed oxidation of unactivated sp ³ -C–H bonds. <i>Chemical Science</i> , 2012, 3, 3192.	7.4	156
68	Mild Copper-Mediated Fluorination of Aryl Stannanes and Aryl Trifluoroborates. <i>Journal of the American Chemical Society</i> , 2013, 135, 4648-4651.	13.7	155
69	Copper-Mediated Radiofluorination of Arylstannanes with [¹⁸ F]KF. <i>Organic Letters</i> , 2016, 18, 5440-5443.	4.6	151
70	Role of Silver Salts in Palladium-Catalyzed Arene and Heteroarene C–H Functionalization Reactions. <i>Organometallics</i> , 2017, 36, 165-171.	2.3	151
71	Connecting Binuclear Pd(III) and Mononuclear Pd(IV) Chemistry by Pd–Pd Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2012, 134, 12002-12009.	13.7	148
72	Catalyst Control of Site Selectivity in the Pd ^{II/IV} -Catalyzed Direct Arylation of Naphthalene. <i>ACS Catalysis</i> , 2011, 1, 170-174.	11.2	143

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73	Palladium-Catalyzed C–H Bond Acetoxylation via Electrochemical Oxidation. <i>Organic Letters</i> , 2018, 20, 204-207.	4.6	142
74	Carbon(sp ³)–Fluorine Bond-Forming Reductive Elimination from Palladium(IV) Complexes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3414-3417.	13.8	139
75	Mechanism of the Palladium-Catalyzed Arene C–H Acetoxylation: A Comparison of Catalysts and Ligand Effects. <i>Journal of the American Chemical Society</i> , 2015, 137, 3109-3118.	13.7	138
76	High-Performance Oligomeric Catholytes for Effective Macromolecular Separation in Nonaqueous Redox Flow Batteries. <i>ACS Central Science</i> , 2018, 4, 189-196.	11.3	134
77	Palladium-Catalyzed C–H Perfluoroalkylation of Arenes. <i>Organic Letters</i> , 2011, 13, 2548-2551.	4.6	130
78	Synthesis and Reactivity of Neutral and Cationic Ruthenium(II) Tris(pyrazolyl)borate Alkylidenes. <i>Organometallics</i> , 1998, 17, 5384-5389.	2.3	129
79	Oxidatively Induced Reductive Elimination from (^t Bu) ₂ bpyPd(Me) ₂ : Palladium(IV) Intermediates in a One-Electron Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 15618-15620.	13.7	128
80	Platinum-Catalyzed, Terminal-Selective C(sp ³)–H Oxidation of Aliphatic Amines. <i>Journal of the American Chemical Society</i> , 2015, 137, 12796-12799.	13.7	128
81	C–H Bond Activation at Palladium(IV) Centers. <i>Journal of the American Chemical Society</i> , 2011, 133, 18022-18025.	13.7	127
82	Oxidation of Ni(II) to Ni(IV) with Aryl Electrophiles Enables Ni-Mediated Aryl–CF ₃ Coupling. <i>Journal of the American Chemical Society</i> , 2015, 137, 8034-8037.	13.7	126
83	Carbon–Nitrogen Bond-Forming Reactions of Palladacycles with Hypervalent Iodine Reagents. <i>Organometallics</i> , 2007, 26, 1365-1370.	2.3	124
84	Iron-Catalyzed Hydrogenation of Amides to Alcohols and Amines. <i>ACS Catalysis</i> , 2016, 6, 6377-6383.	11.2	121
85	Platinum-Catalyzed C–H Arylation of Simple Arenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 15710-15713.	13.7	117
86	Mechanistic Comparison between Pd-Catalyzed Ligand-Directed C–H Chlorination and C–H Acetoxylation. <i>Organic Letters</i> , 2009, 11, 4584-4587.	4.6	115
87	A Detailed Study of Acetate-Assisted C–H Activation at Palladium(IV) Centers. <i>Journal of the American Chemical Society</i> , 2013, 135, 6618-6625.	13.7	115
88	Carbon–Carbon Bond-Forming Reductive Elimination from Isolated Nickel(III) Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 16105-16111.	13.7	113
89	Palladium- and Nickel-Catalyzed Decarbonylative C–S Coupling to Convert Thioesters to Thioethers. <i>Organic Letters</i> , 2018, 20, 44-47.	4.6	113
90	Role of a Noninnocent Pincer Ligand in the Activation of CO ₂ at (PNN)Ru(H)(CO). <i>Organometallics</i> , 2012, 31, 4643-4645.	2.3	106

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91	Platinum and Palladium Complexes Containing Cationic Ligands as Catalysts for Arene H/D Exchange and Oxidation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5884-5886.	13.8	104
92	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.	13.7	101
93	Palladium-Catalyzed Oxidative Arylhalogenation of Alkenes: Synthetic Scope and Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 2010, 132, 8419-8427.	13.7	99
94	Mechanism-Based Development of a Low-Potential, Soluble, and Cyclable Multielectron Anolyte for Nonaqueous Redox Flow Batteries. <i>Journal of the American Chemical Society</i> , 2016, 138, 15378-15384.	13.7	99
95	Palladium-Catalyzed C-H Arylation of 2,5-Substituted Pyrroles. <i>Organic Letters</i> , 2011, 13, 288-291.	4.6	94
96	C(sp ³)-O Bond-Forming Reductive Elimination from Pd ^{IV} with Diverse Oxygen Nucleophiles. <i>Journal of the American Chemical Society</i> , 2014, 136, 12771-12775.	13.7	94
97	Cyclopropenium Salts as Cyclable, High-Potential Catholytes in Nonaqueous Media. <i>Advanced Energy Materials</i> , 2017, 7, 1602027.	19.5	94
98	Mechanism and Scope of Nickel-Catalyzed Decarbonylative Borylation of Carboxylic Acid Fluorides. <i>Journal of the American Chemical Society</i> , 2019, 141, 17322-17330.	13.7	94
99	Competition between sp ³ -C-N vs sp ³ -C-F Reductive Elimination from Pd ^{IV} Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 4097-4100.	13.7	92
100	Cu-Mediated C-H ¹⁸ F-Fluorination of Electron-Rich (Hetero)arenes. <i>Organic Letters</i> , 2017, 19, 3939-3942.	4.6	87
101	Platinum Model Studies for Palladium-Catalyzed Oxidative Functionalization of C-H Bonds. <i>Organometallics</i> , 2005, 24, 482-485.	2.3	86
102	Oxidatively Induced Carbon-Halogen Bond-Forming Reactions at Nickel. <i>Organometallics</i> , 2009, 28, 6142-6144.	2.3	84
103	On the role of anionic ligands in the site-selectivity of oxidative C-H functionalization reactions of arenes. <i>Chemical Science</i> , 2013, 4, 2767.	7.4	84
104	Acyl Azolium Fluorides for Room Temperature Nucleophilic Aromatic Fluorination of Chloro- and Nitroarenes. <i>Organic Letters</i> , 2015, 17, 1866-1869.	4.6	83
105	Nickel(IV)-Catalyzed C-H Trifluoromethylation of (Hetero)arenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 12872-12879.	13.7	82
106	Pd-Catalyzed Decarbonylative Cross-Couplings of Aryl Chlorides. <i>Organic Letters</i> , 2017, 19, 4142-4145.	4.6	80
107	Experimental and Computational Assessment of Reactivity and Mechanism in C(sp ³)-N Bond-Forming Reductive Elimination from Palladium(IV). <i>Journal of the American Chemical Society</i> , 2016, 138, 6049-6060.	13.7	79
108	Steric Control of Site Selectivity in the Pd-Catalyzed C-H Acetoxylation of Simple Arenes. <i>Organic Letters</i> , 2013, 15, 5428-5431.	4.6	75

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109	Carbon–Heteroatom Bond-Forming Reductive Elimination from Palladium(IV) Complexes. Topics in Organometallic Chemistry, 2011, , 61-84.	0.7	74
110	Complexes Containing Redox Noninnocent Ligands for Symmetric, Multielectron Transfer Nonaqueous Redox Flow Batteries. Journal of Physical Chemistry C, 2015, 119, 15882-15889.	3.1	74
111	Multielectron Cycling of a Low-Potential Anolyte in Alkali Metal Electrolytes for Nonaqueous Redox Flow Batteries. ACS Energy Letters, 2017, 2, 2430-2435.	17.4	72
112	Investigations into Transition-Metal-Catalyzed Arene Trifluoromethylation Reactions. Synlett, 2012, 23, 2005-2013.	1.8	71
113	Second-Generation Palladium Catalyst System for Transannular C–H Functionalization of Azabicycloalkanes. Journal of the American Chemical Society, 2018, 140, 5599-5606.	13.7	70
114	Equity and Inclusion in the Chemical Sciences Requires Actions not Just Words. ACS Central Science, 2020, 6, 1010-1011.	11.3	69
115	Synthesis, Reactivity, and Catalytic Applications of Isolable (NHC)Cu(CHF ₂) Complexes. Organometallics, 2017, 36, 1220-1223.	2.3	68
116	Reactions of Platinum(II) Complexes with Chloride-Based Oxidants: Routes to Pt(III) and Pt(IV) Products. Organometallics, 2008, 27, 1683-1689.	2.3	67
117	Rhodium Hydrogenation Catalysts Supported in Metal Organic Frameworks: Influence of the Framework on Catalytic Activity and Selectivity. ACS Catalysis, 2016, 6, 3569-3574.	11.2	65
118	Application of recyclable, polymer-immobilized iodine(III) oxidants in catalytic C–H bond functionalization. Journal of Molecular Catalysis A, 2006, 251, 108-113.	4.8	63
119	Remote C(sp ³)–H Oxygenation of Protonated Aliphatic Amines with Potassium Persulfate. Organic Letters, 2017, 19, 572-575.	4.6	63
120	Developing a Predictive Solubility Model for Monomeric and Oligomeric Cyclopropenium-Based Flow Battery Catholytes. Journal of the American Chemical Society, 2019, 141, 10171-10176.	13.7	63
121	Palladium-Catalyzed 1,1-Aryloxygenation of Terminal Olefins. Organic Letters, 2011, 13, 1076-1079.	4.6	62
122	Anhydrous Tetramethylammonium Fluoride for Room-Temperature S _N Ar Fluorination. Journal of Organic Chemistry, 2015, 80, 12137-12145.	3.2	62
123	Oxidatively Induced C–H Activation at High Valent Nickel. Journal of the American Chemical Society, 2017, 139, 6058-6061.	13.7	62
124	Chelate-Directed Oxidative Functionalization of Carbon–Hydrogen Bonds: Synthetic Applications and Mechanistic Insights. Topics in Organometallic Chemistry, 2007, , 85-116.	0.7	61
125	Mechanistic Investigations of Cu-Catalyzed Fluorination of Diaryliodonium Salts: Elaborating the Cu ^I /Cu ^{III} Manifold in Copper Catalysis. Organometallics, 2014, 33, 5525-5534.	2.3	60
126	Transition-Metal-Free Acid-Mediated Synthesis of Aryl Sulfides from Thiols and Thioethers. Journal of Organic Chemistry, 2014, 79, 2263-2267.	3.2	60

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127	Palladium Catalysts Containing Pyridinium-Substituted Pyridine Ligands for the C–H Oxygenation of Benzene with $K_2S_2O_8$. ACS Catalysis, 2013, 3, 700-703.	11.2	59
128	Stoichiometric and Catalytic Aryl–Perfluoroalkyl Coupling at Tri- <i>tert</i> -butylphosphine Palladium(II) Complexes. Journal of the American Chemical Society, 2017, 139, 11662-11665.	13.7	59
129	Anti-Markovnikov Hydrofunctionalization of Olefins Mediated by Rhodium–Porphyrin Complexes. Angewandte Chemie - International Edition, 2004, 43, 588-590.	13.8	58
130	Palladium (II/IV) catalyzed cyclopropanation reactions: scope and mechanism. Tetrahedron, 2009, 65, 3211-3221.	1.9	58
131	Asymmetric Chiral Ligand-Directed Alkene Dioxygenation. Organic Letters, 2013, 15, 46-49.	4.6	57
132	Evaluation of Tris-Bipyridine Chromium Complexes for Flow Battery Applications: Impact of Bipyridine Ligand Structure on Solubility and Electrochemistry. Inorganic Chemistry, 2015, 54, 10214-10223.	4.0	56
133	Experimental and Computational Studies of High-Valent Nickel and Palladium Complexes. Organometallics, 2017, 36, 4382-4393.	2.3	55
134	Mechanism of Pd-Catalyzed Ar–Ar Bond Formation Involving Ligand-Directed C–H Arylation and Diaryliodonium Oxidants: Computational Studies of Orthopalladation at Binuclear Pd(II) Centers, Oxidation To Form Binuclear Palladium(III) Species, and Ar–Ar Reductive Coupling. Organometallics, 2013, 32, 544-555.	2.3	52
135	Synthesis and Reactivity of $Ni^{II}(Phpy)_2$ (Phpy = 2-Phenylpyridine). Organometallics, 2010, 29, 5446-5449.	2.3	51
136	Development of Customized [18F]Fluoride Elution Techniques for the Enhancement of Copper-Mediated Late-Stage Radiofluorination. Scientific Reports, 2017, 7, 233.	3.3	51
137	Nickel-Catalyzed Decarbonylative Amination of Carboxylic Acid Esters. Journal of the American Chemical Society, 2020, 142, 5918-5923.	13.7	50
138	Reversible carbon–carbon bond formation between carbonyl compounds and a ruthenium pincer complex. Chemical Communications, 2013, 49, 7147.	4.1	49
139	Iron-Catalyzed Oxyfunctionalization of Aliphatic Amines at Remote Benzylic C–H Sites. Organic Letters, 2016, 18, 4258-4261.	4.6	49
140	Multiple Approaches to the In Situ Generation of Anhydrous Tetraalkylammonium Fluoride Salts for S_NAr Fluorination Reactions. Journal of Organic Chemistry, 2017, 82, 5020-5026.	3.2	49
141	Connecting Organometallic Ni(III) and Ni(IV): Reactions of Carbon-Centered Radicals with High-Valent Organonickel Complexes. Journal of the American Chemical Society, 2019, 141, 8914-8920.	13.7	49
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