

Melanie S Sanford

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2080357/publications.pdf>

Version: 2024-02-01

228
papers

37,713
citations

2963

93
h-index

2812

191
g-index

279
all docs

279
docs citations

279
times ranked

16903
citing authors

#	ARTICLE	IF	CITATIONS
1	Palladium-Catalyzed Ligand-Directed C-H Functionalization Reactions. <i>Chemical Reviews</i> , 2010, 110, 1147-1169.	23.0	5,643
2	Controlling Site Selectivity in Palladium-Catalyzed C-H Bond Functionalization. <i>Accounts of Chemical Research</i> , 2012, 45, 936-946.	7.6	1,257
3	Mechanism and Activity of Ruthenium Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 6543-6554.	6.6	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.	6.6	982
5	Transition metal catalyzed oxidative functionalization of carbon-hydrogen bonds. <i>Tetrahedron</i> , 2006, 62, 2439-2463.	1.0	861
6	High-valent organometallic copper and palladium in catalysis. <i>Nature</i> , 2012, 484, 177-185.	13.7	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.	6.6	739
8	Palladium-Catalyzed Oxygenation of Unactivated sp ³ C-H Bonds. <i>Journal of the American Chemical Society</i> , 2004, 126, 9542-9543.	6.6	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.	6.6	624
10	Room Temperature Palladium-Catalyzed 2-Arylation of Indoles. <i>Journal of the American Chemical Society</i> , 2006, 128, 4972-4973.	6.6	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.	6.6	597
12	Palladium-Catalyzed Fluorination of Carbon-Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2006, 128, 7134-7135.	6.6	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.	6.6	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.	6.6	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.	6.6	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.	6.6	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.	6.6	415
18	Oxone as an Inexpensive, Safe, and Environmentally Benign Oxidant for C-H Bond Oxygenation. <i>Organic Letters</i> , 2006, 8, 1141-1144.	2.4	398

#	ARTICLE	IF	CITATIONS
19	A Versatile Precursor for the Synthesis of New Ruthenium Olefin Metathesis Catalysts. <i>Organometallics</i> , 2001, 20, 5314-5318.	1.1	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.	6.6	375
21	Unusually Stable Palladium(IV) Complexes: A Detailed Mechanistic Investigation of C ^α -O Bond-Forming Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2005, 127, 12790-12791.	6.6	353
22	Reactions of Hypervalent Iodine Reagents with Palladium: Mechanisms and Applications in Organic Synthesis. <i>Inorganic Chemistry</i> , 2007, 46, 1924-1935.	1.9	348
23	<i>N</i> -Acyloxyphthalimides as Nitrogen Radical Precursors in the Visible Light Photocatalyzed Room Temperature C ^α -H Amination of Arenes and Heteroarenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 5607-5610.	6.6	346
24	Reactivity of Pd(II) Complexes with Electrophilic Chlorinating Reagents: Isolation of Pd(IV) Products and Observation of C ^α -Cl Bond-Forming Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2007, 129, 15142-15143.	6.6	342
25	A Simple Catalytic Method for the Regioselective Halogenation of Arenes. <i>Organic Letters</i> , 2006, 8, 2523-2526.	2.4	338
26	Detailed Study of C ^α -O and C ^α -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.	6.6	333
27	Insights into Directing Group Ability in Palladium-Catalyzed C ^α -H Bond Functionalization. <i>Journal of the American Chemical Society</i> , 2008, 130, 13285-13293.	6.6	328
28	Highly Regioselective Catalytic Oxidative Coupling Reactions: Synthetic and Mechanistic Investigations. <i>Journal of the American Chemical Society</i> , 2006, 128, 14047-14049.	6.6	327
29	Synthesis, Structure, and Activity of Enhanced Initiators for Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 2003, 125, 10103-10109.	6.6	305
30	Aryl ^α -CF ₃ Bond-Forming Reductive Elimination from Palladium(IV). <i>Journal of the American Chemical Society</i> , 2010, 132, 2878-2879.	6.6	290
31	Construction of Tetrahydrofurans by PdII/PdIV-Catalyzed Aminooxygenation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5737-5740.	7.2	288
32	Palladium-catalysed transannular C ^α -H functionalization of alicyclic amines. <i>Nature</i> , 2016, 531, 220-224.	13.7	287
33	Carbon ^α -hydrogen (C ^α -H) bond activation at Pd ^{IV} : a Frontier in C ^α -H functionalization catalysis. <i>Chemical Science</i> , 2015, 6, 70-76.	3.7	285
34	Scope and selectivity in palladium-catalyzed directed C ^α -H bond halogenation reactions. <i>Tetrahedron</i> , 2006, 62, 11483-11498.	1.0	282
35	Silver-Mediated Trifluoromethylation of Arenes Using TMSCF ₃ . <i>Organic Letters</i> , 2011, 13, 5464-5467.	2.4	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.	6.6	277

#	ARTICLE	IF	CITATIONS
37	Synthesis and Reactivity of a Mono- <i>o</i> -Aryl Palladium(IV) Fluoride Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 3796-3797.	6.6	276
38	Late-stage [¹⁸ F]fluorination: new solutions to old problems. <i>Chemical Science</i> , 2014, 5, 4545-4553.	3.7	266
39	Design, synthesis, and carbon-heteroatom coupling reactions of organometallic nickel(IV) complexes. <i>Science</i> , 2015, 347, 1218-1220.	6.0	248
40	Aerobic Pd-Catalyzed sp^3 C-H Olefination: A Route to Both N-Heterocyclic Scaffolds and Alkenes. <i>Journal of the American Chemical Society</i> , 2011, 133, 6541-6544.	6.6	232
41	Mechanism of Benzoquinone-Promoted Palladium-Catalyzed Oxidative Cross-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 9651-9653.	6.6	226
42	Regioselectivity in Palladium-Catalyzed C-H Activation/Oxygenation Reactions. <i>Organic Letters</i> , 2005, 7, 4149-4152.	2.4	225
43	Oxidation of a Cyclometalated Pd(II) Dimer with CF_3 Formation and Reactivity of a Catalytically Competent Monomeric Pd(IV) Aquo Complex. <i>Journal of the American Chemical Society</i> , 2010, 132, 14682-14687.	6.6	225
44	Base-free nickel-catalysed decarbonylative Suzuki-Miyaura coupling of acid fluorides. <i>Nature</i> , 2018, 563, 100-104.	13.7	207
45	Catalytic CO_2 Hydrogenation to Formate by a Ruthenium Pincer Complex. <i>ACS Catalysis</i> , 2013, 3, 2412-2416.	5.5	205
46	Practical Method for the Cu-Mediated Trifluoromethylation of Arylboronic Acids with CF_3 Radicals Derived from NaSO_2CF_3 and <i>tert</i> -Butyl Hydroperoxide (TBHP). <i>Organic Letters</i> , 2012, 14, 4979-4981.	2.4	202
47	Synthesis of [¹⁸ F]Arenes via the Copper-Mediated [¹⁸ F]Fluorination of Boronic Acids. <i>Organic Letters</i> , 2015, 17, 5780-5783.	2.4	199
48	Copper-Catalyzed [¹⁸ F]Fluorination of (Mesityl)(aryl)iodonium Salts. <i>Organic Letters</i> , 2014, 16, 3224-3227.	2.4	197
49	Synthesis of Cyclopropanes via Pd(II/IV)-Catalyzed Reactions of Enynes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5836-5837.	6.6	194
50	Mechanistic and Computational Studies of Oxidatively-Induced Aryl CF_3 Bond-Formation at Pd: Rational Design of Room Temperature Aryl Trifluoromethylation. <i>Journal of the American Chemical Society</i> , 2011, 133, 7577-7584.	6.6	192
51	Evolutionary Design of Low Molecular Weight Organic Anolyte Materials for Applications in Nonaqueous Redox Flow Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 14465-14472.	6.6	191
52	Pd-Catalyzed C-H Fluorination with Nucleophilic Fluoride. <i>Organic Letters</i> , 2012, 14, 4094-4097.	2.4	190
53	Combining Transition Metal Catalysis with Radical Chemistry: Dramatic Acceleration of Palladium-Catalyzed C-H Arylation with Diaryliodonium Salts. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3517-3522.	2.1	187
54	Cu(OTf) ₂ -Mediated Fluorination of Aryltrifluoroborates with Potassium Fluoride. <i>Journal of the American Chemical Society</i> , 2013, 135, 16292-16295.	6.6	187

#	ARTICLE	IF	CITATIONS
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.	2.4	180
56	Nucleophilic Deoxyfluorination of Phenols via Aryl Fluorosulfonate Intermediates. <i>Journal of the American Chemical Society</i> , 2017, 139, 1452-1455.	6.6	174
57	Catalyst-controlled selectivity in the C-H borylation of methane and ethane. <i>Science</i> , 2016, 351, 1421-1424.	6.0	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.	6.6	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.	6.6	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.	6.6	162
61	Remarkably High Reactivity of Pd(OAc) ₂ /Pyridine Catalysts: Nondirected C-H Oxygenation of Arenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9409-9412.	7.2	162
62	Cu-Catalyzed Fluorination of Diaryliodonium Salts with KF. <i>Organic Letters</i> , 2013, 15, 5134-5137.	2.4	162
63	Controlling Site Selectivity in Pd-Catalyzed Oxidative Cross-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 4455-4464.	6.6	160
64	Pyridine Ligands as Promoters in Pd ^{II/0} -Catalyzed C-H Olefination Reactions. <i>Organic Letters</i> , 2012, 14, 1760-1763.	2.4	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.	6.6	158
66	Mild Palladium-Catalyzed C-H Alkylation Using Potassium Alkyltrifluoroborates in Combination with MnF ₃ . <i>Organic Letters</i> , 2013, 15, 2302-2305.	2.4	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.	3.7	156
68	Mild Copper-Mediated Fluorination of Aryl Stannanes and Aryl Trifluoroborates. <i>Journal of the American Chemical Society</i> , 2013, 135, 4648-4651.	6.6	155
69	Copper-Mediated Radiofluorination of Arylstannanes with [¹⁸ F]KF. <i>Organic Letters</i> , 2016, 18, 5440-5443.	2.4	151
70	Role of Silver Salts in Palladium-Catalyzed Arene and Heteroarene C-H Functionalization Reactions. <i>Organometallics</i> , 2017, 36, 165-171.	1.1	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.	6.6	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.	5.5	143

#	ARTICLE	IF	CITATIONS
73	Palladium-Catalyzed C-H Bond Acetoxylation via Electrochemical Oxidation. <i>Organic Letters</i> , 2018, 20, 204-207.	2.4	142
74	Carbon(sp ³)-Fluorine Bond-Forming Reductive Elimination from Palladium(IV) Complexes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3414-3417.	7.2	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.	6.6	138
76	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
77	Palladium-Catalyzed C-H Perfluoroalkylation of Arenes. <i>Organic Letters</i> , 2011, 13, 2548-2551.	2.4	130
78	Synthesis and Reactivity of Neutral and Cationic Ruthenium(II) Tris(pyrazolyl)borate Alkylidenes. <i>Organometallics</i> , 1998, 17, 5384-5389.	1.1	129
79	Oxidatively Induced Reductive Elimination from (<i>tert</i> -Bu) ₂ Pd(Me) ₂ : Palladium(IV) Intermediates in a One-Electron Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 15618-15620.	6.6	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.	6.6	128
81	C-H Bond Activation at Palladium(IV) Centers. <i>Journal of the American Chemical Society</i> , 2011, 133, 18022-18025.	6.6	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.	6.6	126
83	Carbon-Nitrogen Bond-Forming Reactions of Palladacycles with Hypervalent Iodine Reagents. <i>Organometallics</i> , 2007, 26, 1365-1370.	1.1	124
84	Iron-Catalyzed Hydrogenation of Amides to Alcohols and Amines. <i>ACS Catalysis</i> , 2016, 6, 6377-6383.	5.5	121
85	Platinum-Catalyzed C-H Arylation of Simple Arenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 15710-15713.	6.6	117
86	Mechanistic Comparison between Pd-Catalyzed Ligand-Directed C-H Chlorination and C-H Acetoxylation. <i>Organic Letters</i> , 2009, 11, 4584-4587.	2.4	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.	6.6	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.	6.6	113
89	Palladium- and Nickel-Catalyzed Decarbonylative C-S Coupling to Convert Thioesters to Thioethers. <i>Organic Letters</i> , 2018, 20, 44-47.	2.4	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.	1.1	106

#	ARTICLE	IF	CITATIONS
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.	7.2	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.	6.6	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.	6.6	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.	6.6	99
95	Palladium-Catalyzed C-H Arylation of 2,5-Substituted Pyrroles. <i>Organic Letters</i> , 2011, 13, 288-291.	2.4	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.	6.6	94
97	Cyclopropenium Salts as Cyclable, High-Potential Catholytes in Nonaqueous Media. <i>Advanced Energy Materials</i> , 2017, 7, 1602027.	10.2	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.	6.6	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.	6.6	92
100	Cu-Mediated C-H ¹⁸ F-Fluorination of Electron-Rich (Hetero)arenes. <i>Organic Letters</i> , 2017, 19, 3939-3942.	2.4	87
101	Platinum Model Studies for Palladium-Catalyzed Oxidative Functionalization of C-H Bonds. <i>Organometallics</i> , 2005, 24, 482-485.	1.1	86
102	Oxidatively Induced Carbon-Halogen Bond-Forming Reactions at Nickel. <i>Organometallics</i> , 2009, 28, 6142-6144.	1.1	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.	3.7	84
104	Acyl Azolium Fluorides for Room Temperature Nucleophilic Aromatic Fluorination of Chloro- and Nitroarenes. <i>Organic Letters</i> , 2015, 17, 1866-1869.	2.4	83
105	Nickel(IV)-Catalyzed C-H Trifluoromethylation of (Hetero)arenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 12872-12879.	6.6	82
106	Pd-Catalyzed Decarbonylative Cross-Couplings of Aryl Chlorides. <i>Organic Letters</i> , 2017, 19, 4142-4145.	2.4	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.	6.6	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.	2.4	75

#	ARTICLE	IF	CITATIONS
109	Carbon-Heteroatom Bond-Forming Reductive Elimination from Palladium(IV) Complexes. <i>Topics in Organometallic Chemistry</i> , 2011, , 61-84.	0.7	74
110	Complexes Containing Redox Noninnocent Ligands for Symmetric, Multielectron Transfer Nonaqueous Redox Flow Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15882-15889.	1.5	74
111	Multielectron Cycling of a Low-Potential Analyte in Alkali Metal Electrolytes for Nonaqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2430-2435.	8.8	72
112	Investigations into Transition-Metal-Catalyzed Arene Trifluoromethylation Reactions. <i>Synlett</i> , 2012, 23, 2005-2013.	1.0	71
113	Second-Generation Palladium Catalyst System for Transannular C-H Functionalization of Azabicycloalkanes. <i>Journal of the American Chemical Society</i> , 2018, 140, 5599-5606.	6.6	70
114	Equity and Inclusion in the Chemical Sciences Requires Actions not Just Words. <i>ACS Central Science</i> , 2020, 6, 1010-1011.	5.3	69
115	Synthesis, Reactivity, and Catalytic Applications of Isolable (NHC)Cu(CHF ₂) Complexes. <i>Organometallics</i> , 2017, 36, 1220-1223.	1.1	68
116	Reactions of Platinum(II) Complexes with Chloride-Based Oxidants: Routes to Pt(III) and Pt(IV) Products. <i>Organometallics</i> , 2008, 27, 1683-1689.	1.1	67
117	Rhodium Hydrogenation Catalysts Supported in Metal Organic Frameworks: Influence of the Framework on Catalytic Activity and Selectivity. <i>ACS Catalysis</i> , 2016, 6, 3569-3574.	5.5	65
118	Application of recyclable, polymer-immobilized iodine(III) oxidants in catalytic C-H bond functionalization. <i>Journal of Molecular Catalysis A</i> , 2006, 251, 108-113.	4.8	63
119	Remote C(sp ³)-H Oxygenation of Protonated Aliphatic Amines with Potassium Persulfate. <i>Organic Letters</i> , 2017, 19, 572-575.	2.4	63
120	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
121	Palladium-Catalyzed 1,1-Aryloxygenation of Terminal Olefins. <i>Organic Letters</i> , 2011, 13, 1076-1079.	2.4	62
122	Anhydrous Tetramethylammonium Fluoride for Room-Temperature S _N Ar Fluorination. <i>Journal of Organic Chemistry</i> , 2015, 80, 12137-12145.	1.7	62
123	Oxidatively Induced C-H Activation at High Valent Nickel. <i>Journal of the American Chemical Society</i> , 2017, 139, 6058-6061.	6.6	62
124	Chelate-Directed Oxidative Functionalization of Carbon-Hydrogen Bonds: Synthetic Applications and Mechanistic Insights. <i>Topics in Organometallic Chemistry</i> , 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. <i>Organometallics</i> , 2014, 33, 5525-5534.	1.1	60
126	Transition-Metal-Free Acid-Mediated Synthesis of Aryl Sulfides from Thiols and Thioethers. <i>Journal of Organic Chemistry</i> , 2014, 79, 2263-2267.	1.7	60

#	ARTICLE	IF	CITATIONS
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.	5.5	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.	6.6	59
129	Anti-Markovnikov Hydrofunctionalization of Olefins Mediated by Rhodium-Porphyrin Complexes. Angewandte Chemie - International Edition, 2004, 43, 588-590.	7.2	58
130	Palladium (II/IV) catalyzed cyclopropanation reactions: scope and mechanism. Tetrahedron, 2009, 65, 3211-3221.	1.0	58
131	Asymmetric Chiral Ligand-Directed Alkene Dioxygenation. Organic Letters, 2013, 15, 46-49.	2.4	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.	1.9	56
133	Experimental and Computational Studies of High-Valent Nickel and Palladium Complexes. Organometallics, 2017, 36, 4382-4393.	1.1	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.	1.1	52
135	Synthesis and Reactivity of $Ni^{II}(Phpy)_2$ (Phpy = 2-Phenylpyridine). Organometallics, 2010, 29, 5446-5449.	1.1	51
136	Development of Customized [18F]Fluoride Elution Techniques for the Enhancement of Copper-Mediated Late-Stage Radiofluorination. Scientific Reports, 2017, 7, 233.	1.6	51
137	Nickel-Catalyzed Decarbonylative Amination of Carboxylic Acid Esters. Journal of the American Chemical Society, 2020, 142, 5918-5923.	6.6	50
138	Reversible carbon-carbon bond formation between carbonyl compounds and a ruthenium pincer complex. Chemical Communications, 2013, 49, 7147.	2.2	49
139	Iron-Catalyzed Oxyfunctionalization of Aliphatic Amines at Remote Benzylic C-H Sites. Organic Letters, 2016, 18, 4258-4261.	2.4	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.	1.7	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.	6.6	49
142	Quantitative Assay for the Direct Comparison of Platinum Catalysts in Benzene H/D Exchange. Organometallics, 2009, 28, 5316-5322.	1.1	48
143	Synthesis and reactivity of palladium(II) fluoride complexes containing nitrogen-donor ligands. Dalton Transactions, 2010, 39, 632-640.	1.6	48
144	Nickel-Catalyzed Decarbonylative Synthesis of Fluoroalkyl Thioethers. ACS Catalysis, 2020, 10, 8315-8320.	5.5	46

#	ARTICLE	IF	CITATIONS
145	Realization of an Asymmetric Non-Aqueous Redox Flow Battery through Molecular Design to Minimize Active Species Crossover and Decomposition. <i>Chemistry - A European Journal</i> , 2020, 26, 5369-5373.	1.7	46
146	Participation of Carbonyl Oxygen in Carbon-Carboxylate Bond-Forming Reductive Elimination from Palladium. <i>Organometallics</i> , 2011, 30, 6143-6149.	1.1	44
147	Moving Metal-Mediated ¹⁸ F-Fluorination from Concept to Clinic. <i>ACS Central Science</i> , 2016, 2, 128-130.	5.3	44
148	Low-Potential Pyridinium Anolyte for Aqueous Redox Flow Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24376-24380.	1.5	44
149	Copper-mediated late-stage radiofluorination: five years of impact on preclinical and clinical PET imaging. <i>Clinical and Translational Imaging</i> , 2020, 8, 167-206.	1.1	44
150	Mild Fluorination of Chloropyridines with in Situ Generated Anhydrous Tetrabutylammonium Fluoride. <i>Journal of Organic Chemistry</i> , 2014, 79, 5827-5833.	1.7	43
151	Development of S _N Ar Nucleophilic Fluorination: A Fruitful Academia-Industry Collaboration. <i>Accounts of Chemical Research</i> , 2020, 53, 2372-2383.	7.6	43
152	Effect of Solvent and Ancillary Ligands on the Catalytic H/D Exchange Reactivity of Cp*Ir ^{III} (L) Complexes. <i>ACS Catalysis</i> , 2013, 3, 2304-2310.	5.5	42
153	Base-Free Iridium-Catalyzed Hydrogenation of Esters and Lactones. <i>ACS Catalysis</i> , 2016, 6, 3113-3117.	5.5	42
154	Copper-Mediated Aminoquinoline-Directed Radiofluorination of Aromatic C-H Bonds with ¹⁸ F. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3119-3122.	7.2	40
155	Equity and Inclusion in the Chemical Sciences Requires Actions not Just Words. <i>Journal of the American Chemical Society</i> , 2020, 142, 11317-11318.	6.6	40
156	Catalytic Cycle for Palladium-Catalyzed Decarbonylative Trifluoromethylation using Trifluoroacetic Esters as the CF ₃ Source. <i>Organometallics</i> , 2014, 33, 2653-2660.	1.1	39
157	Room Temperature Deoxyfluorination of Benzaldehydes and α -Ketoesters with Sulfuryl Fluoride and Tetramethylammonium Fluoride. <i>Organic Letters</i> , 2019, 21, 1350-1353.	2.4	39
158	Synthesis of Fluoroalkyl Palladium and Nickel Complexes via Decarbonylation of Acylmetal Species. <i>Organometallics</i> , 2014, 33, 3831-3839.	1.1	37
159	Aryl-C Fluoride Bond-Forming Reductive Elimination from Nickel(IV) Centers. <i>Journal of the American Chemical Society</i> , 2019, 141, 13261-13267.	6.6	37
160	One-pot synthesis of high molar activity 6-[¹⁸ F]fluoro-l-DOPA by Cu-mediated fluorination of a BPin precursor. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8701-8705.	1.5	37
161	Palladium-Catalyzed Difluoromethylation of Aryl Chlorides and Bromides with TMSCF ₂ H. <i>Journal of Organic Chemistry</i> , 2019, 84, 3735-3740.	1.7	37
162	Bis(diisopropylamino)cyclopropenium-arene Cations as High Oxidation Potential and High Stability Catholytes for Non-aqueous Redox Flow Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 17564-17571.	6.6	37

#	ARTICLE	IF	CITATIONS
163	An Organometallic Ni ^{IV} Complex That Participates in Competing Transmetalation and C(sp ²)–O Bond-Forming Reductive Elimination Reactions. <i>Organometallics</i> , 2017, 36, 247-250.	1.1	36
164	Automated synthesis of PET radiotracers by copper-mediated ¹⁸ F-fluorination of organoborons: Importance of the order of addition and competing protodeborylation. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018, 61, 228-236.	0.5	36
165	Formation of Ethane from Mono-Methyl Palladium(II) Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 8237-8242.	6.6	35
166	Copper(II)-Mediated [¹¹ C]Cyanation of Arylboronic Acids and Arylstannanes. <i>Organic Letters</i> , 2018, 20, 1530-1533.	2.4	35
167	Modulating Sterics in Trimethylplatinum(IV) Diimine Complexes To Achieve C–C Bond-Forming Reductive Elimination. <i>Organometallics</i> , 2011, 30, 3704-3707.	1.1	34
168	Catalytically Relevant Intermediates in the Ni-Catalyzed C(sp ²)–H and C(sp ³)–H Functionalization of Aminoquinoline Substrates. <i>Journal of the American Chemical Society</i> , 2019, 141, 17382-17387.	6.6	34
169	NHC-Copper Mediated Ligand-Directed Radiofluorination of Aryl Halides. <i>Journal of the American Chemical Society</i> , 2020, 142, 7362-7367.	6.6	33
170	C–H Amination of Arenes with Hydroxylamine. <i>Organic Letters</i> , 2020, 22, 2931-2934.	2.4	32
171	Facial Tridentate Ligands for Stabilizing Palladium(IV) Complexes. <i>Organometallics</i> , 2011, 30, 6617-6627.	1.1	31
172	Reactions of Arylsulfonate Electrophiles with NMe ₄ ⁺ F ⁻ : Mechanistic Insight, Reactivity, and Scope. <i>Journal of Organic Chemistry</i> , 2018, 83, 11178-11190.	1.7	31
173	An organic super-electron-donor as a high energy density negative electrolyte for nonaqueous flow batteries. <i>Chemical Communications</i> , 2019, 55, 11037-11040.	2.2	31
174	Aryl–CF ₃ Coupling from Phosphinoferrocene-Ligated Palladium(II) Complexes. <i>Organometallics</i> , 2019, 38, 519-526.	1.1	29
175	Simultaneously Enhancing the Redox Potential and Stability of Multi-Redox Organic Catholytes by Incorporating Cyclopropenium Substituents. <i>Journal of the American Chemical Society</i> , 2021, 143, 13450-13459.	6.6	29
176	Synthesis of high-molar-activity [18F]6-fluoro-l-DOPA suitable for human use via Cu-mediated fluorination of a BPin precursor. <i>Nature Protocols</i> , 2020, 15, 1742-1759.	5.5	26
177	Computational and Experimental Studies of Methyl Group Exchange between Palladium(II) Centers. <i>Organometallics</i> , 2010, 29, 1522-1525.	1.1	25
178	Computational study of C(sp ³)–O bond formation at a Pd ^{IV} centre. <i>Dalton Transactions</i> , 2017, 46, 3742-3748.	1.6	25
179	Nickel(II/IV) Manifold Enables Room-Temperature C(sp ³)–H Functionalization. <i>Journal of the American Chemical Society</i> , 2019, 141, 19513-19520.	6.6	25
180	Decarbonylative Fluoroalkylation at Palladium(II): From Fundamental Organometallic Studies to Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 18617-18625.	6.6	25

#	ARTICLE	IF	CITATIONS
181	Computational Study of Intramolecular Arene Palladation at a Palladium(IV) Center. <i>Organometallics</i> , 2015, 34, 1085-1090.	1.1	23
182	Development of High Energy Density Diaminocyclopropenium-Phenothiazine Hybrid Catholytes for Non-Aqueous Redox Flow Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 27039-27045.	7.2	23
183	Platinum(II) Complexes Containing Quaternized Nitrogen Ligands: Synthesis, Stability, and Evaluation as Catalysts for Methane and Benzene H/D Exchange. <i>Organometallics</i> , 2010, 29, 257-262.	1.1	22
184	Impact of Oxidation State on Reactivity and Selectivity Differences between Nickel(III) and Nickel(IV) Alkyl Complexes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9104-9108.	7.2	22
185	Improved Synthesis of [Cp ^R RhCl ₂] ₂ Complexes. <i>Organometallics</i> , 2018, 37, 3240-3242.	1.1	21
186	Structure Activity Relationship Study of Diimine Pt ^{II} Catalysts for H/D Exchange. <i>Organometallics</i> , 2012, 31, 1761-1766.	1.1	20
187	C ¹⁸ F-fluorination of 8-methylquinolines with Ag[¹⁸ F]F. <i>Chemical Communications</i> , 2019, 55, 2976-2979.	2.2	20
188	Isolable Pyridinium Trifluoromethoxide Salt for Nucleophilic Trifluoromethoxylation. <i>Organic Letters</i> , 2021, 23, 5138-5142.	2.4	20
189	Palladium-Mediated C ¹³ -H Functionalization of Alicyclic Amines. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11227-11230.	7.2	18
190	Sequential Ir/Cu-Mediated Method for the <i>meta</i> -Selective C ¹⁸ H Radiofluorination of (Hetero)Arenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 6915-6921.	6.6	18
191	Tetramethylammonium Fluoride Alcohol Adducts for S _N Ar Fluorination. <i>Organic Letters</i> , 2021, 23, 4493-4498.	2.4	18
192	Access to 3D Alicyclic Amine-Containing Fragments through Transannular C ¹⁸ H Arylation. <i>Synlett</i> , 2019, 30, 417-422.	1.0	17
193	Developing Efficient Nucleophilic Fluorination Methods and Application to Substituted Picolinate Esters. <i>Organic Process Research and Development</i> , 2014, 18, 1045-1054.	1.3	16
194	Palladium-Catalyzed Ligand-Directed Oxidative Functionalization of Cyclopropanes. <i>Synthesis</i> , 2011, 2011, 2579-2589.	1.2	15
195	Model Complexes for the Palladium-Catalyzed Transannular C ¹⁸ H Functionalization of Alicyclic Amines. <i>Organometallics</i> , 2019, 38, 138-142.	1.1	15
196	Targeted Optimization of Phenoxazine Redox Center for Nonaqueous Redox Flow Batteries. , 2022, 4, 733-739.		15
197	Mechanistic studies of an unusual epoxide-forming elimination of a ¹² -hydroxyalkyl rhodium porphyrin. <i>Chemical Communications</i> , 2006, , 549-551.	2.2	14
198	Palladium-catalyzed C ¹⁸ H arylation using aryltrifluoroborates in conjunction with a Mn ^{III} oxidant under mild conditions. <i>Tetrahedron</i> , 2013, 69, 5580-5587.	1.0	14

#	ARTICLE	IF	CITATIONS
199	Comparative Study of Organic Radical Cation Stability and Coulombic Efficiency for Nonaqueous Redox Flow Battery Applications. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14170-14179.	1.5	14
200	S _N Ar and C-H Amination of Electron Rich Arenes with Pyridine as a Nucleophile Using Photoredox Catalysis. <i>Organic Letters</i> , 2021, 23, 5213-5217.	2.4	14
201	Copper-Mediated Functionalization of Aryl Trifluoroborates. <i>Synlett</i> , 2016, 27, 2279-2284.	1.0	13
202	Rh(III) Pyridinium Substituted Bipyridine Complexes as Catalysts for Arene H/D Exchange. <i>Topics in Catalysis</i> , 2012, 55, 565-570.	1.3	12
203	Radiosynthesis of [¹¹ C]LY2795050 for Preclinical and Clinical PET Imaging Using Cu(II)-Mediated Cyanation. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1274-1279.	1.3	12
204	Ring opening of epoxides with [¹⁸ F]FeF species to produce [¹⁸ F]fluorohydrin PET imaging agents. <i>Chemical Communications</i> , 2019, 55, 6361-6364.	2.2	11
205	Oxidatively Induced Aryl-CF ₃ Coupling at Diphosphine Nickel Complexes. <i>Organometallics</i> , 2020, 39, 3-7.	1.1	11
206	Copper-Mediated Radiocyanation of Unprotected Amino Acids and Peptides. <i>Journal of the American Chemical Society</i> , 2022, 144, 7422-7429.	6.6	11
207	Synthesis of [¹⁸ F]- ^{1,2} -unsaturated Esters and Ketones via Vinylogous ¹⁸ F-Fluorination of ^{1,2} -Diazoacetates with [¹⁸ F]AgF. <i>Synthesis</i> , 2019, 51, 4401-4407.	1.2	10
208	Celebrating Women in Organic Chemistry. <i>Journal of Organic Chemistry</i> , 2020, 85, 1769-1772.	1.7	10
209	Copper-Mediated Aminoquinoline-Directed Radiofluorination of Aromatic C-H Bonds with K ¹⁸ F. <i>Angewandte Chemie</i> , 2019, 131, 3151-3154.	1.6	9
210	S _N Ar Radiofluorination with In Situ Generated [¹⁸ F]Tetramethylammonium Fluoride. <i>Journal of Organic Chemistry</i> , 2021, 86, 14121-14130.	1.7	9
211	A spot test for determination of residual TBA levels in ¹⁸ F-radiotracers for human use using Dragendorff reagent. <i>Analytical Methods</i> , 2020, 12, 5004-5009.	1.3	8
212	Deoxyfluorination of (Hetero)aryl Aldehydes Using Tetramethylammonium Fluoride and Perfluorobutanesulfonyl Fluoride or Trifluoromethanesulfonic Anhydride. <i>Israel Journal of Chemistry</i> , 2020, 60, 398-401.	1.0	7
213	A Nonaqueous Redox-Matched Flow Battery with Charge Storage in Insoluble Polymer Beads**. <i>Chemistry - A European Journal</i> , 2022, 28, e202200149.	1.7	7
214	Celebrating Women in Organic Chemistry. <i>Journal of the American Chemical Society</i> , 2020, 142, 3277-3280.	6.6	5
215	Impact of Oxidation State on Reactivity and Selectivity Differences between Nickel(III) and Nickel(IV) Alkyl Complexes. <i>Angewandte Chemie</i> , 2019, 131, 9202-9206.	1.6	4
216	Development of High Energy Density Diaminocyclopropenium-Phenothiazine Hybrid Catholytes for Non-Aqueous Redox Flow Batteries. <i>Angewandte Chemie</i> , 2021, 133, 27245-27251.	1.6	4

#	ARTICLE	IF	CITATIONS
217	Celebrating Women in Organic Chemistry. <i>Organic Letters</i> , 2020, 22, 1227-1230.	2.4	3
218	Remarkably High Reactivity of Pd(OAc) ₂ /Pyridine Catalysts: Nondirected C-H Oxygenation of Arenes (<i>Angew. Chem.</i> 40/2011). <i>Angewandte Chemie</i> , 2011, 123, 9680-9680.	1.6	2
219	Celebrating Women in Organic Chemistry. <i>Organic Process Research and Development</i> , 2020, 24, 111-114.	1.3	2
220	Back Cover: Remarkably High Reactivity of Pd(OAc) ₂ /Pyridine Catalysts: Nondirected C-H Oxygenation of Arenes (<i>Angew. Chem. Int. Ed.</i> 40/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9508-9508.	7.2	1
221	anti-Markovnikov Hydrofunctionalization of Olefins Mediated by Rhodium-Porphyrin Complexes.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
222	A Highly Selective Catalytic Method for the Oxidative Functionalization of C-H Bonds.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
223	Palladium-Catalyzed Oxygenation of Unactivated sp ³ C-H Bonds.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
224	Oxidative C-H Activation/C-C Bonding Forming Reactions: Synthetic Scope and Mechanistic Insights.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
225	Regioselectivity in Palladium-Catalyzed C-H Activation/Oxygenation Reactions.. <i>ChemInform</i> , 2006, 37, no.	0.1	0
226	Palladium-Mediated C-H Functionalization of Alicyclic Amines. <i>Angewandte Chemie</i> , 2021, 133, 11327-11330.	1.6	0
227	CONTROLLING SELECTIVITY AND REACTIVITY IN CATALYTIC C-H FUNCTIONALIZATION REACTIONS. , 2018, , .		0
228	Robert H. Grubbs (1942-2021). <i>Science</i> , 2022, 375, 499-499.	6.0	0