

Melanie S Sanford

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219
papers

33,095
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88
h-index

181
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279
ext. papers

35,687
ext. citations

10.8
avg, IF

8.03
L-index

#	Paper	IF	Citations
219	Palladium-catalyzed ligand-directed C-H functionalization reactions. <i>Chemical Reviews</i> , 2010 , 110, 1147-68	68.1	5150
218	Controlling site selectivity in palladium-catalyzed C-H bond functionalization. <i>Accounts of Chemical Research</i> , 2012 , 45, 936-46	24.3	1166
217	Mechanism and activity of ruthenium olefin metathesis catalysts. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6543-54	16.4	1000
216	A highly selective catalytic method for the oxidative functionalization of C-H bonds. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2300-1	16.4	910
215	Transition metal catalyzed oxidative functionalization of carbon-hydrogen bonds. <i>Tetrahedron</i> , 2006 , 62, 2439-2463	2.4	815
214	Oxidative C-H activation/C-C bond forming reactions: synthetic scope and mechanistic insights. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7330-1	16.4	688
213	High-valent organometallic copper and palladium in catalysis. <i>Nature</i> , 2012 , 484, 177-85	50.4	651
212	Palladium-catalyzed oxygenation of unactivated sp ³ C-H bonds. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9542-3	16.4	632
211	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, 9034-7	16.4	576
210	Room temperature palladium-catalyzed 2-arylation of indoles. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4972-3	16.4	570
209	Catalytic and highly regioselective cross-coupling of aromatic C-H substrates. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11904-5	16.4	532
208	Palladium-catalyzed fluorination of carbon-hydrogen bonds. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7134-5	16.4	532
207	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, 18566-9	16.4	513
206	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, 2546-58	16.4	491
205	Cascade catalysis for the homogeneous hydrogenation of CO ₂ to methanol. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18122-5	16.4	472
204	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, 11234-41	16.4	458
203	Oxone as an inexpensive, safe, and environmentally benign oxidant for C-H bond oxygenation. <i>Organic Letters</i> , 2006 , 8, 1141-4	6.2	382

202	New insights into the mechanism of ruthenium-catalyzed olefin metathesis reactions. <i>Journal of the American Chemical Society</i> , 2001 , 123, 749-50	16.4	374
201	A Versatile Precursor for the Synthesis of New Ruthenium Olefin Metathesis Catalysts. <i>Organometallics</i> , 2001 , 20, 5314-5318	3.8	340
200	Unusually stable palladium(IV) complexes: detailed mechanistic investigation of C-O bond-forming reductive elimination. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12790-1	16.4	333
199	Detailed study of C-O and C-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, 10974-83	16.4	320
198	Reactivity of Pd(II) complexes with electrophilic chlorinating reagents: isolation of Pd(IV) products and observation of C-Cl bond-forming reductive elimination. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15142-3	16.4	320
197	Reactions of hypervalent iodine reagents with palladium: mechanisms and applications in organic synthesis. <i>Inorganic Chemistry</i> , 2007 , 46, 1924-35	5.1	319
196	Tandem amine and ruthenium-catalyzed hydrogenation of CO ₂ to methanol. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1028-31	16.4	315
195	Insights into directing group ability in palladium-catalyzed C-H bond functionalization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13285-93	16.4	315
194	A simple catalytic method for the regioselective halogenation of arenes. <i>Organic Letters</i> , 2006 , 8, 2523-66.2		310
193	Highly regioselective catalytic oxidative coupling reactions: synthetic and mechanistic investigations. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14047-9	16.4	307
192	N-Acyloxyphthalimides as nitrogen radical precursors in the visible light photocatalyzed room temperature C-H amination of arenes and heteroarenes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5607-10	16.4	290
191	Synthesis, structure, and activity of enhanced initiators for olefin metathesis. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10103-9	16.4	286
190	Aryl-CF(3) bond-forming reductive elimination from palladium(IV). <i>Journal of the American Chemical Society</i> , 2010 , 132, 2878-9	16.4	273
189	Construction of tetrahydrofurans by PdII/PdIV-catalyzed aminooxygenation of alkenes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5737-40	16.4	266
188	Scope and selectivity in palladium-catalyzed directed C-H bond halogenation reactions. <i>Tetrahedron</i> , 2006 , 62, 11483-11498	2.4	265
187	Carbon-Hydrogen (C-H) Bond Activation at Pd: A Frontier in C-H Functionalization Catalysis. <i>Chemical Science</i> , 2015 , 6, 70-76	9.4	261
186	Synthesis and reactivity of a mono-sigma-aryl palladium(IV) fluoride complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3796-7	16.4	255
185	Silver-mediated trifluoromethylation of arenes using TMSCF ₃ . <i>Organic Letters</i> , 2011 , 13, 5464-7	6.2	247

184	Heterogenization of homogeneous catalysts in metal-organic frameworks via cation exchange. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10586-9	16.4	240
183	Palladium-catalysed transannular C-H functionalization of alicyclic amines. <i>Nature</i> , 2016 , 531, 220-224	50.4	235
182	Late-stage [F]Fluorination: New Solutions to Old Problems. <i>Chemical Science</i> , 2014 , 5, 4545-4553	9.4	235
181	Regioselectivity in palladium-catalyzed C-H activation/oxygenation reactions. <i>Organic Letters</i> , 2005 , 7, 4149-52	6.2	218
180	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, 6541-4	16.4	214
179	Mechanism of benzoquinone-promoted palladium-catalyzed oxidative cross-coupling reactions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9651-3	16.4	214
178	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, 14682-7	16.4	213
177	Practical method for the Cu-mediated trifluoromethylation of arylboronic acids with CF ₃ radicals derived from NaSO ₂ CF ₃ and tert-butyl hydroperoxide (TBHP). <i>Organic Letters</i> , 2012 , 14, 4979-81	6.2	190
176	Design, synthesis, and carbon-heteroatom coupling reactions of organometallic nickel(IV) complexes. <i>Science</i> , 2015 , 347, 1218-20	33.3	188
175	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, 7577-84	16.4	178
174	Catalytic CO ₂ Hydrogenation to Formate by a Ruthenium Pincer Complex. <i>ACS Catalysis</i> , 2013 , 3, 2412-2416	13.6	176
173	Synthesis of cyclopropanes via Pd(II/IV)-catalyzed reactions of enynes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5836-7	16.4	175
172	Pd-catalyzed C-H fluorination with nucleophilic fluoride. <i>Organic Letters</i> , 2012 , 14, 4094-7	6.2	171
171	Copper-catalyzed [18F]fluorination of (mesityl)(aryl)iodonium salts. <i>Organic Letters</i> , 2014 , 16, 3224-7	6.2	166
170	Synthesis of [18F]Arenes via the Copper-Mediated [18F]Fluorination of Boronic Acids. <i>Organic Letters</i> , 2015 , 17, 5780-3	6.2	166
169	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	5.6	165
168	O-acetyl oximes as transformable directing groups for Pd-catalyzed C-H bond functionalization. <i>Organic Letters</i> , 2010 , 12, 532-5	6.2	165
167	Cu(OTf) ₂ -mediated fluorination of aryltrifluoroborates with potassium fluoride. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16292-5	16.4	160

166	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, 14465-72	16.4	154
165	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, 20138-41	16.4	151
164	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, 13912-3	16.4	150
163	Controlling site selectivity in Pd-catalyzed oxidative cross-coupling reactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4455-64	16.4	147
162	Pyridine ligands as promoters in Pd(II/0)-catalyzed C-H olefination reactions. <i>Organic Letters</i> , 2012 , 14, 1760-3	6.2	146
161	Remarkably high reactivity of Pd(OAc) ₂ /pyridine catalysts: nondirected C-H oxygenation of arenes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9409-12	16.4	144
160	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, 3192-3195	9.4	142
159	Mild palladium-catalyzed C-H alkylation using potassium alkyltrifluoroborates in combination with MnF ₃ . <i>Organic Letters</i> , 2013 , 15, 2302-5	6.2	142
158	Oxidatively intercepting Heck intermediates: Pd-catalyzed 1,2- and 1,1-arylation of alkenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2150-1	16.4	141
157	Base-free nickel-catalyzed decarbonylative Suzuki-Miyaura coupling of acid fluorides. <i>Nature</i> , 2018 , 563, 100-104	50.4	141
156	Cu-catalyzed fluorination of diaryliodonium salts with KF. <i>Organic Letters</i> , 2013 , 15, 5134-7	6.2	135
155	Connecting binuclear Pd(III) and mononuclear Pd(IV) chemistry by Pd-Pd bond cleavage. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12002-9	16.4	135
154	Catalyst Control of Site Selectivity in the Pd(II/IV)-Catalyzed Direct Arylation of Naphthalene. <i>ACS Catalysis</i> , 2011 , 1, 170-174	13.1	131
153	Nucleophilic Deoxyfluorination of Phenols via Aryl Fluorosulfonate Intermediates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1452-1455	16.4	130
152	Catalyst-controlled selectivity in the C-H borylation of methane and ethane. <i>Science</i> , 2016 , 351, 1421-4	33.3	127
151	Mild copper-mediated fluorination of aryl stannanes and aryl trifluoroborates. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4648-51	16.4	126
150	Carbon(sp ³)-fluorine bond-forming reductive elimination from palladium(IV) complexes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3414-7	16.4	121
149	Carbon-Nitrogen Bond-Forming Reactions of Palladacycles with Hypervalent Iodine Reagents. <i>Organometallics</i> , 2007 , 26, 1365-1370	3.8	120

148	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	16.4	118
147	C-H bond activation at palladium(IV) centers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18022-18025	16.4	118
146	Palladium-catalyzed C-H perfluoroalkylation of arenes. <i>Organic Letters</i> , 2011 , 13, 2548-51	6.2	118
145	Oxidatively induced reductive elimination from ((t)Bu ₂ bpy)Pd(Me) ₂ : palladium(IV) intermediates in a one-electron oxidation reaction. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15618-20	16.4	118
144	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, 3109-18	16.4	117
143	Synthesis and Reactivity of Neutral and Cationic Ruthenium(II) Tris(pyrazolyl)borate Alkylidenes. <i>Organometallics</i> , 1998 , 17, 5384-5389	3.8	117
142	Platinum-Catalyzed, Terminal-Selective C(sp ³)-H Oxidation of Aliphatic Amines. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12796-9	16.4	116
141	Copper-Mediated Radiofluorination of Arylstannanes with [F]KF. <i>Organic Letters</i> , 2016 , 18, 5440-5443	6.2	114
140	Palladium-Catalyzed C-H Bond Acetoxylation via Electrochemical Oxidation. <i>Organic Letters</i> , 2018 , 20, 204-207	6.2	109
139	Mechanistic comparison between Pd-catalyzed ligand-directed C-H chlorination and C-H acetoxylation. <i>Organic Letters</i> , 2009 , 11, 4584-7	6.2	109
138	Platinum-catalyzed C-H arylation of simple arenes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15710-3	16.4	104
137	A detailed study of acetate-assisted C-H activation at palladium(IV) centers. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6618-25	16.4	104
136	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, 8034-7	16.4	103
135	Iron-Catalyzed Hydrogenation of Amides to Alcohols and Amines. <i>ACS Catalysis</i> , 2016 , 6, 6377-6383	13.1	101
134	Role of a Noninnocent Pincer Ligand in the Activation of CO ₂ at (PNN)Ru(H)(CO). <i>Organometallics</i> , 2012 , 31, 4643-4645	3.8	99
133	Role of Silver Salts in Palladium-Catalyzed Arene and Heteroarene C-H Functionalization Reactions. <i>Organometallics</i> , 2017 , 36, 165-171	3.8	98
132	Palladium-catalyzed oxidative arylhalogenation of alkenes: synthetic scope and mechanistic insights. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8419-27	16.4	89
131	Platinum and palladium complexes containing cationic ligands as catalysts for arene H/D exchange and oxidation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5884-6	16.4	88

130	Palladium-catalyzed C-H arylation of 2,5-substituted pyrroles. <i>Organic Letters</i> , 2011 , 13, 288-91	6.2	86
129	Carbon-Carbon Bond-Forming Reductive Elimination from Isolated Nickel(III) Complexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16105-16111	16.4	85
128	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, 12771-5	16.4	84
127	High-Performance Oligomeric Catholytes for Effective Macromolecular Separation in Nonaqueous Redox Flow Batteries. <i>ACS Central Science</i> , 2018 , 4, 189-196	16.8	82
126	Platinum Model Studies for Palladium-Catalyzed Oxidative Functionalization of C≡C Bonds. <i>Organometallics</i> , 2005 , 24, 482-485	3.8	82
125	On the role of anionic ligands in the site-selectivity of oxidative C≡C functionalization reactions of arenes. <i>Chemical Science</i> , 2013 , 4, 2767	9.4	81
124	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, 4097-100	16.4	79
123	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	16.4	78
122	Palladium- and Nickel-Catalyzed Decarbonylative C-S Coupling to Convert Thioesters to Thioethers. <i>Organic Letters</i> , 2018 , 20, 44-47	6.2	77
121	Oxidatively Induced Carbon-Halogen Bond-Forming Reactions at Nickel. <i>Organometallics</i> , 2009 , 28, 6142-6144	5.844	74
120	Cu-Mediated C-H F-Fluorination of Electron-Rich (Hetero)arenes. <i>Organic Letters</i> , 2017 , 19, 3939-3942	6.2	69
119	Pd-Catalyzed Decarbonylative Cross-Couplings of Aryl Chlorides. <i>Organic Letters</i> , 2017 , 19, 4142-4145	6.2	67
118	Cyclopropenium Salts as Cyclable, High-Potential Catholytes in Nonaqueous Media. <i>Advanced Energy Materials</i> , 2017 , 7, 1602027	21.8	67
117	Carbon-Heteroatom Bond-Forming Reductive Elimination from Palladium(IV) Complexes. <i>Topics in Organometallic Chemistry</i> , 2011 , 61-84	0.6	66
116	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, 6049-60	16.4	66
115	Steric control of site selectivity in the Pd-catalyzed C-H acetoxylation of simple arenes. <i>Organic Letters</i> , 2013 , 15, 5428-31	6.2	65
114	Mechanism and Scope of Nickel-Catalyzed Decarbonylative Borylation of Carboxylic Acid Fluorides. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17322-17330	16.4	63
113	Acyl azolium fluorides for room temperature nucleophilic aromatic fluorination of chloro- and nitroarenes. <i>Organic Letters</i> , 2015 , 17, 1866-9	6.2	61

112	Investigations into Transition Metal Catalyzed Arene Trifluoromethylation Reactions. <i>Synlett</i> , 2012 , 23, 2005-2013	2.2	61
111	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		60
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	3.8	59
109	Chelate-Directed Oxidative Functionalization of Carbon-Hydrogen Bonds: Synthetic Applications and Mechanistic Insights. <i>Topics in Organometallic Chemistry</i> , 2007 , 85-116	0.6	59
108	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	16.4	58
107	Reactions of Platinum(II) Complexes with Chloride-Based Oxidants: Routes to Pt(III) and Pt(IV) Products. <i>Organometallics</i> , 2008 , 27, 1683-1689	3.8	57
106	Palladium Catalysts Containing Pyridinium-Substituted Pyridine Ligands for the C-H Oxygenation of Benzene with K ₂ S ₂ O ₈ . <i>ACS Catalysis</i> , 2013 , 3, 700-703	13.1	56
105	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	13.1	56
104	Mechanistic Investigations of Cu-Catalyzed Fluorination of Diaryliodonium Salts: Elaborating the Cu/Cu Manifold in Copper Catalysis. <i>Organometallics</i> , 2014 , 33, 5525-5534	3.8	55
103	Palladium (II/IV) catalyzed cyclopropanation reactions: scope and mechanism. <i>Tetrahedron</i> , 2009 , 65, 3211-3221	2.4	55
102	Anti-Markovnikov hydrofunctionalization of olefins mediated by rhodium-porphyrin complexes. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 588-90	16.4	55
101	Remote C(sp)-H Oxygenation of Protonated Aliphatic Amines with Potassium Persulfate. <i>Organic Letters</i> , 2017 , 19, 572-575	6.2	53
100	Anhydrous Tetramethylammonium Fluoride for Room-Temperature S(N)Ar Fluorination. <i>Journal of Organic Chemistry</i> , 2015 , 80, 12137-45	4.2	53
99	Asymmetric chiral ligand-directed alkene dioxygenation. <i>Organic Letters</i> , 2013 , 15, 46-9	6.2	52
98	Oxidatively Induced C-H Activation at High Valent Nickel. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6058-6061	16.4	51
97	Second-Generation Palladium Catalyst System for Transannular C-H Functionalization of Azabicycloalkanes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5599-5606	16.4	50
96	Synthesis, Reactivity, and Catalytic Applications of Isolable (NHC)Cu(CHF ₂) Complexes. <i>Organometallics</i> , 2017 , 36, 1220-1223	3.8	49
95	Transition-metal-free acid-mediated synthesis of aryl sulfides from thiols and thioethers. <i>Journal of Organic Chemistry</i> , 2014 , 79, 2263-7	4.2	48

94	Evaluation of Tris-Bipyridine Chromium Complexes for Flow Battery Applications: Impact of Bipyridine Ligand Structure on Solubility and Electrochemistry. <i>Inorganic Chemistry</i> , 2015 , 54, 10214-23	5.1	47
93	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. <i>Organometallics</i> , 2015 , 32, 544-555	3.8	47
92	Synthesis and Reactivity of Ni(II)(Phpy) ₂ (Phpy = 2-Phenylpyridine). <i>Organometallics</i> , 2010 , 29, 5446-5449	3.8	47
91	Palladium-catalyzed 1,1-aryloxygenation of terminal olefins. <i>Organic Letters</i> , 2011 , 13, 1076-9	6.2	47
90	Experimental and Computational Studies of High-Valent Nickel and Palladium Complexes. <i>Organometallics</i> , 2017 , 36, 4382-4393	3.8	46
89	Multielectron Cycling of a Low-Potential Anolyte in Alkali Metal Electrolytes for Nonaqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2430-2435	20.1	46
88	Quantitative Assay for the Direct Comparison of Platinum Catalysts in Benzene H/D Exchange. <i>Organometallics</i> , 2009 , 28, 5316-5322	3.8	45
87	Development of Customized [F]Fluoride Elution Techniques for the Enhancement of Copper-Mediated Late-Stage Radiofluorination. <i>Scientific Reports</i> , 2017 , 7, 233	4.9	44
86	Iron-Catalyzed Oxyfunctionalization of Aliphatic Amines at Remote Benzylic C-H Sites. <i>Organic Letters</i> , 2016 , 18, 4258-61	6.2	43
85	Participation of Carbonyl Oxygen in Carbon-Carboxylate Bond-Forming Reductive Elimination from Palladium. <i>Organometallics</i> , 2011 , 30, 6143-6149	3.8	43
84	Stoichiometric and Catalytic Aryl-Perfluoroalkyl Coupling at Tri-tert-butylphosphine Palladium(II) Complexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11662-11665	16.4	42
83	Synthesis and reactivity of palladium(II) fluoride complexes containing nitrogen-donor ligands. <i>Dalton Transactions</i> , 2010 , 632-40	4.3	42
82	Reversible carbon-carbon bond formation between carbonyl compounds and a ruthenium pincer complex. <i>Chemical Communications</i> , 2013 , 49, 7147-9	5.8	40
81	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	13.1	39
80	Nickel(IV)-Catalyzed C-H Trifluoromethylation of (Hetero)arenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12872-12879	16.4	38
79	Remarkably High Reactivity of Pd(OAc) ₂ /Pyridine Catalysts: Nondirected C-H Oxygenation of Arenes. <i>Angewandte Chemie</i> , 2011 , 123, 9581-9584	3.6	38
78	Base-Free Iridium-Catalyzed Hydrogenation of Esters and Lactones. <i>ACS Catalysis</i> , 2016 , 6, 3113-3117	13.1	34
77	Multiple Approaches to the In Situ Generation of Anhydrous Tetraalkylammonium Fluoride Salts for SAr Fluorination Reactions. <i>Journal of Organic Chemistry</i> , 2017 , 82, 5020-5026	4.2	33

- 76 Formation of ethane from mono-methyl palladium(II) complexes. *Journal of the American Chemical Society*, **2014**, 136, 8237-42 16.4 33
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