

Melanie S Sanford

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219
papers

33,095
citations

88
h-index

181
g-index

279
ext. papers

35,687
ext. citations

10.8
avg, IF

8.03
L-index

#	Paper	IF	Citations
219	Robert H. Grubbs (1942-2021).. <i>Science</i> , 2022 , 375, 499	33.3	
218	A Nonaqueous Redox-Matched Flow Battery with Charge Storage in Insoluble Polymer Beads.. <i>Chemistry - A European Journal</i> , 2022 , e202200149	4.8	1
217	Targeted Optimization of Phenoxazine Redox Center for Nonaqueous Redox Flow Batteries 2022 , 4, 733-739		3
216	Development of High Energy Density Diaminocyclopropenium-Phenothiazine Hybrid Catholytes for Non-Aqueous Redox Flow Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 27245	3.6	0
215	Decarbonylative Fluoroalkylation at Palladium(II): From Fundamental Organometallic Studies to Catalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18617-18625	16.4	3
214	Palladium-Mediated C-H Functionalization of Alicyclic Amines. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11227-11230	16.4	8
213	Palladium-Mediated C-H Functionalization of Alicyclic Amines. <i>Angewandte Chemie</i> , 2021 , 133, 11327-11330	16.4	8
212	Sequential Ir/Cu-Mediated Method for the α -Selective C-H Radiofluorination of (Hetero)Arenes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6915-6921	16.4	9
211	Tetramethylammonium Fluoride Alcohol Adducts for SAr Fluorination. <i>Organic Letters</i> , 2021 , 23, 4493-4498	6.2	4
210	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	3.8	2
209	SAr and C-H Amination of Electron Rich Arenes with Pyridine as a Nucleophile Using Photoredox Catalysis. <i>Organic Letters</i> , 2021 , 23, 5213-5217	6.2	3
208	Isolable Pyridinium Trifluoromethoxide Salt for Nucleophilic Trifluoromethoxylation. <i>Organic Letters</i> , 2021 , 23, 5138-5142	6.2	8
207	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	16.4	6
206	SAr Radiofluorination with In Situ Generated [F]Tetramethylammonium Fluoride. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14121-14130	4.2	4
205	Copper-Mediated Late-stage Radiofluorination: Five Years of Impact on Pre-clinical and Clinical PET Imaging. <i>Clinical and Translational Imaging</i> , 2020 , 8, 167-206	2	27
204	Nickel-Catalyzed Decarbonylative Amination of Carboxylic Acid Esters. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5918-5923	16.4	24
203	C-H Amination of Arenes with Hydroxylamine. <i>Organic Letters</i> , 2020 , 22, 2931-2934	6.2	14

202	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	4.8	23
201	NHC-Copper Mediated Ligand-Directed Radiofluorination of Aryl Halides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7362-7367	16.4	11
200	Synthesis of high-molar-activity [F]6-fluoro-L-DOPA suitable for human use via Cu-mediated fluorination of a BPin precursor. <i>Nature Protocols</i> , 2020 , 15, 1742-1759	18.8	19
199	Fluorine-18 Radiochemistry 2020 , 251-289		0
198	Celebrating Women in Organic Chemistry. <i>Organic Process Research and Development</i> , 2020 , 24, 111-114	3.9	1
197	Oxidatively Induced Aryl-C-F3 Coupling at Diphosphine Nickel Complexes. <i>Organometallics</i> , 2020 , 39, 3-7	3.8	7
196	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	16.4	14
195	A spot test for determination of residual TBA levels in F-radiotracers for human use using Dragendorff reagent. <i>Analytical Methods</i> , 2020 , 12, 5004-5009	3.2	4
194	Nickel-Catalyzed Decarbonylative Synthesis of Fluoroalkyl Thioethers. <i>ACS Catalysis</i> , 2020 , 10, 8315-8320	3.1	24
193	Development of SAr Nucleophilic Fluorination: A Fruitful Academia-Industry Collaboration. <i>Accounts of Chemical Research</i> , 2020 , 53, 2372-2383	24.3	13
192	Deoxyfluorination of (Hetero)aryl Aldehydes Using Tetramethylammonium Fluoride and Perfluorobutanesulfonyl Fluoride or Trifluoromethanesulfonic Anhydride. <i>Israel Journal of Chemistry</i> , 2020 , 60, 398-401	3.4	3
191	An organic super-electron-donor as a high energy density negative electrolyte for nonaqueous flow batteries. <i>Chemical Communications</i> , 2019 , 55, 11037-11040	5.8	23
190	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
189	One-pot synthesis of high molar activity 6-[F]fluoro-L-DOPA by Cu-mediated fluorination of a BPin precursor. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 8701-8705	3.9	29
188	Access to 3D Alicyclic Amine-Containing Fragments through Transannular C-H Arylation. <i>Synlett</i> , 2019 , 30, 417-422	2.2	9
187	Connecting Organometallic Ni(III) and Ni(IV): Reactions of Carbon-Centered Radicals with High-Valent Organonickel Complexes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8914-8920	16.4	25
186	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	3.6	3
185	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	16.4	32

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	16.4	14
183	Ring opening of epoxides with [F]FeF species to produce [F]fluorohydrin PET imaging agents. <i>Chemical Communications</i> , 2019 , 55, 6361-6364	5.8	7
182	C-H F-fluorination of 8-methylquinolines with Ag[F]F. <i>Chemical Communications</i> , 2019 , 55, 2976-2979	5.8	12
181	Aryl-Fluoride Bond-Forming Reductive Elimination from Nickel(IV) Centers. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13261-13267	16.4	22
180	Synthesis of [F]- α -fluoro- β -unsaturated esters and ketones via vinylogous F-fluorination of β -diazoacetates with [F]AgF. <i>Synthesis</i> , 2019 , 51, 4401-4407	2.9	7
179	Nickel(IV)-Catalyzed C-H Trifluoromethylation of (Hetero)arenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12872-12879	16.4	38
178	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
177	Catalytically Relevant Intermediates in the Ni-Catalyzed C(sp)-H and C(sp)-H Functionalization of Aminoquinoline Substrates. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17382-17387	16.4	17
176	Room Temperature Deoxyfluorination of Benzaldehydes and β -Ketoesters with Sulfuryl Fluoride and Tetramethylammonium Fluoride. <i>Organic Letters</i> , 2019 , 21, 1350-1353	6.2	25
175	Palladium-Catalyzed Difluoromethylation of Aryl Chlorides and Bromides with TMSCFH. <i>Journal of Organic Chemistry</i> , 2019 , 84, 3735-3740	4.2	25
174	Nickel(II/IV) Manifold Enables Room-Temperature C(sp)-H Functionalization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19513-19520	16.4	14
173	Copper-Mediated Aminoquinoline-Directed Radiofluorination of Aromatic C-H Bonds with K F. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3119-3122	16.4	25
172	Aryl-CF ₃ Coupling from Phosphinoferrrocene-Ligated Palladium(II) Complexes. <i>Organometallics</i> , 2019 , 38, 519-526	3.8	16
171	Copper-Mediated Aminoquinoline-Directed Radiofluorination of Aromatic C-H Bonds with K ¹⁸ F. <i>Angewandte Chemie</i> , 2019 , 131, 3151-3154	3.6	8
170	Model Complexes for the Palladium-Catalyzed Transannular C-H Functionalization of Alicyclic Amines. <i>Organometallics</i> , 2019 , 38, 138-142	3.8	8
169	Copper(II)-Mediated [C]Cyanation of Arylboronic Acids and Arylstannanes. <i>Organic Letters</i> , 2018 , 20, 1530-1533	6.2	26
168	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
167	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

166	Palladium-Catalyzed C-H Bond Acetoxylation via Electrochemical Oxidation. <i>Organic Letters</i> , 2018 , 20, 204-207	6.2	109
165	Palladium- and Nickel-Catalyzed Decarbonylative C-S Coupling to Convert Thioesters to Thioethers. <i>Organic Letters</i> , 2018 , 20, 44-47	6.2	77
164	Automated synthesis of PET radiotracers by copper-mediated 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	1.9	26
163	Radiosynthesis of [¹⁸ F]LY2795050 for Preclinical and Clinical PET Imaging Using Cu(II)-Mediated Cyanation. <i>ACS Medicinal Chemistry Letters</i> , 2018 , 9, 1274-1279	4.3	9
162	Base-free nickel-catalysed decarbonylative Suzuki-Miyaura coupling of acid fluorides. <i>Nature</i> , 2018 , 563, 100-104	50.4	141
161	Improved Synthesis of [CpRRhCl ₂] ₂ Complexes. <i>Organometallics</i> , 2018 , 37, 3240-3242	3.8	13
160	Reactions of Arylsulfonate Electrophiles with NMeF: Mechanistic Insight, Reactivity, and Scope. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11178-11190	4.2	25
159	Role of Silver Salts in Palladium-Catalyzed Arene and Heteroarene C-H Functionalization Reactions. <i>Organometallics</i> , 2017 , 36, 165-171	3.8	98
158	Nucleophilic Deoxyfluorination of Phenols via Aryl Fluorosulfonate Intermediates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1452-1455	16.4	130
157	Remote C(sp ³)-H Oxygenation of Protonated Aliphatic Amines with Potassium Persulfate. <i>Organic Letters</i> , 2017 , 19, 572-575	6.2	53
156	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
155	Computational study of C(sp ³)-O bond formation at a Pd centre. <i>Dalton Transactions</i> , 2017 , 46, 3742-3748	4.3	20
154	Development of Customized [¹⁸ F]Fluoride Elution Techniques for the Enhancement of Copper-Mediated Late-Stage Radiofluorination. <i>Scientific Reports</i> , 2017 , 7, 233	4.9	44
153	Oxidatively Induced C-H Activation at High Valent Nickel. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6058-6061	16.4	51
152	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
151	Synthesis, Reactivity, and Catalytic Applications of Isolable (NHC)Cu(CHF ₂) Complexes. <i>Organometallics</i> , 2017 , 36, 1220-1223	3.8	49
150	An Organometallic Ni(IV) Complex That Participates in Competing Transmetalation and C(sp ²)-C Bond-Forming Reductive Elimination Reactions. <i>Organometallics</i> , 2017 , 36, 247-250	3.8	31
149	Low-Potential Pyridinium Anolyte for Aqueous Redox Flow Batteries. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24376-24380	3.8	24

- 148 Experimental and Computational Studies of High-Valent Nickel and Palladium Complexes. *Organometallics*, **2017**, 36, 4382-4393 3.8 46
- 147 Multielectron Cycling of a Low-Potential Anolyte in Alkali Metal Electrolytes for Nonaqueous Redox Flow Batteries. *ACS Energy Letters*, **2017**, 2, 2430-2435 20.1 46
- 146 Pd-Catalyzed Decarbonylative Cross-Couplings of Aryl Chlorides. *Organic Letters*, **2017**, 19, 4142-4145 6.2 67
- 145 Stoichiometric and Catalytic Aryl-Perfluoroalkyl Coupling at Tri-tert-butylphosphine Palladium(II) Complexes. *Journal of the American Chemical Society*, **2017**, 139, 11662-11665 16.4 42
- 144 Cu-Mediated C-H F-Fluorination of Electron-Rich (Hetero)arenes. *Organic Letters*, **2017**, 19, 3939-3942 6.2 69
- 143 Cyclopropenium Salts as Cyclable, High-Potential Catholytes in Nonaqueous Media. *Advanced Energy Materials*, **2017**, 7, 1602027 21.8 67
- 142 Iron-Catalyzed Hydrogenation of Amides to Alcohols and Amines. *ACS Catalysis*, **2016**, 6, 6377-6383 13.1 101
- 141 Iron-Catalyzed Oxyfunctionalization of Aliphatic Amines at Remote Benzylic C-H Sites. *Organic Letters*, **2016**, 18, 4258-61 6.2 43
- 140 Mechanism-Based Development of a Low-Potential, Soluble, and Cyclable Multielectron Anolyte for Nonaqueous Redox Flow Batteries. *Journal of the American Chemical Society*, **2016**, 138, 15378-15384 16.4 78
- 139 Catalyst-controlled selectivity in the C-H borylation of methane and ethane. *Science*, **2016**, 351, 1421-4 33.3 127
- 138 Palladium-catalysed transannular C-H functionalization of alicyclic amines. *Nature*, **2016**, 531, 220-224 50.4 235
- 137 Carbon-Carbon Bond-Forming Reductive Elimination from Isolated Nickel(III) Complexes. *Journal of the American Chemical Society*, **2016**, 138, 16105-16111 16.4 85
- 136 Base-Free Iridium-Catalyzed Hydrogenation of Esters and Lactones. *ACS Catalysis*, **2016**, 6, 3113-3117 13.1 34
- 135 Rhodium Hydrogenation Catalysts Supported in Metal Organic Frameworks: Influence of the Framework on Catalytic Activity and Selectivity. *ACS Catalysis*, **2016**, 6, 3569-3574 13.1 56
- 134 Experimental and Computational Assessment of Reactivity and Mechanism in C(sp³)-N Bond-Forming Reductive Elimination from Palladium(IV). *Journal of the American Chemical Society*, **2016**, 138, 6049-60 16.4 66
- 133 Copper-Mediated Radiofluorination of Arylstannanes with [F]KF. *Organic Letters*, **2016**, 18, 5440-5443 6.2 114
- 132 Copper-Mediated Functionalization of Aryl Trifluoroborates. *Synlett*, **2016**, 27, 2279-2284 2.2 10
- 131 Mechanism of the palladium-catalyzed arene C-H acetoxylation: a comparison of catalysts and ligand effects. *Journal of the American Chemical Society*, **2015**, 137, 3109-18 16.4 117

130	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
129	Computational Study of Intramolecular Arene Palladation at a Palladium(IV) Center. <i>Organometallics</i> , 2015 , 34, 1085-1090	3.8	23
128	Acyl azolium fluorides for room temperature nucleophilic aromatic fluorination of chloro- and nitroarenes. <i>Organic Letters</i> , 2015 , 17, 1866-9	6.2	61
127	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
126	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
125	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
124	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
123	[¹⁸ F]Fluorination of (Mesityl)(Aryl)Iodonium Salts 2015 , 129-137		1
122	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
121	Anhydrous Tetramethylammonium Fluoride for Room-Temperature S(N)Ar Fluorination. <i>Journal of Organic Chemistry</i> , 2015 , 80, 12137-45	4.2	53
120	Synthesis of [¹⁸ F]Arenes via the Copper-Mediated [¹⁸ F]Fluorination of Boronic Acids. <i>Organic Letters</i> , 2015 , 17, 5780-3	6.2	166
119	Design, synthesis, and carbon-heteroatom coupling reactions of organometallic nickel(IV) complexes. <i>Science</i> , 2015 , 347, 1218-20	33.3	188
118	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
117	Competition between sp ² -C-N vs sp ² -C-F reductive elimination from Pd(IV) complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4097-100	16.4	79
116	Mild fluorination of chloropyridines with in situ generated anhydrous tetrabutylammonium fluoride. <i>Journal of Organic Chemistry</i> , 2014 , 79, 5827-33	4.2	32
115	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
114	Developing Efficient Nucleophilic Fluorination Methods and Application to Substituted Picolinate Esters. <i>Organic Process Research and Development</i> , 2014 , 18, 1045-1054	3.9	13
113	Late-stage [¹⁸ F]Fluorination: New Solutions to Old Problems. <i>Chemical Science</i> , 2014 , 5, 4545-4553	9.4	235

112	Copper-catalyzed [18F]fluorination of (mesityl)(aryl)iodonium salts. <i>Organic Letters</i> , 2014 , 16, 3224-7	6.2	166
111	Synthesis of Fluoroalkyl Palladium and Nickel Complexes via Decarbonylation of Acylmetal Species. <i>Organometallics</i> , 2014 , 33, 3831-3839	3.8	28
110	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
109	Formation of ethane from mono-methyl palladium(II) complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8237-42	16.4	33
108	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
107	Catalytic Cycle for Palladium-Catalyzed Decarbonylative Trifluoromethylation using Trifluoroacetic Esters as the CF ₃ Source. <i>Organometallics</i> , 2014 , 33, 2653-2660	3.8	32
106	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
105	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
104	Reversible carbon-carbon bond formation between carbonyl compounds and a ruthenium pincer complex. <i>Chemical Communications</i> , 2013 , 49, 7147-9	5.8	40
103	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
102	Platinum-catalyzed C-H arylation of simple arenes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15710-3	16.4	104
101	Catalytic CO ₂ Hydrogenation to Formate by a Ruthenium Pincer Complex. <i>ACS Catalysis</i> , 2013 , 3, 2412-2416	16.4	176
100	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
99	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
98	Cu-catalyzed fluorination of diaryliodonium salts with KF. <i>Organic Letters</i> , 2013 , 15, 5134-7	6.2	135
97	Mechanism of Pd-Catalyzed Ar ² Ar Bond Formation Involving Ligand-Directed C ^{sp} 2 Arylation and Diaryliodonium Oxidants: Computational Studies of Orthopalladation at Binuclear Pd(II) Centers, Oxidation To Form Binuclear Palladium(III) Species, and Ar ² Ar Reductive Coupling. <i>Organometallics</i> , 2013 , 32, 544-555	3.8	47
96	Palladium Catalysts Containing Pyridinium-Substituted Pyridine Ligands for the C ^{sp} 2 Oxygenation of Benzene with K ₂ S ₂ O ₈ . <i>ACS Catalysis</i> , 2013 , 3, 700-703	13.1	56
95	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

94	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
93	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
92	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	9.4	81
91	Palladium-Catalyzed C-H Arylation Using Aryltrifluoroborates in Conjunction with a Mn Oxidant under Mild Conditions. <i>Tetrahedron</i> , 2013 , 69, 5580-5587	2.4	12
90	Asymmetric chiral ligand-directed alkene dioxygenation. <i>Organic Letters</i> , 2013 , 15, 46-9	6.2	52
89	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
88	Structure Activity Relationship Study of Diimine Pt(II) Catalysts for H/D Exchange. <i>Organometallics</i> , 2012 , 31, 1761-1766	3.8	19
87	Pd-catalyzed C-H fluorination with nucleophilic fluoride. <i>Organic Letters</i> , 2012 , 14, 4094-7	6.2	171
86	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
85	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
84	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
83	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
82	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
81	High-valent organometallic copper and palladium in catalysis. <i>Nature</i> , 2012 , 484, 177-85	50.4	651
80	Controlling site selectivity in palladium-catalyzed C-H bond functionalization. <i>Accounts of Chemical Research</i> , 2012 , 45, 936-46	24.3	1166
79	Pyridine ligands as promoters in Pd(II/0)-catalyzed C-H olefination reactions. <i>Organic Letters</i> , 2012 , 14, 1760-3	6.2	146
78	Carbon(sp ³)?Fluorine Bond-Forming Reductive Elimination from Palladium(IV) Complexes. <i>Angewandte Chemie</i> , 2012 , 124, 3470-3473	3.6	29
77	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

76	Rh(III) Pyridinium Substituted Bipyridine Complexes as Catalysts for Arene H/D Exchange. <i>Topics in Catalysis</i> , 2012 , 55, 565-570	2.3	12
75	Investigations into Transition Metal Catalyzed Arene Trifluoromethylation Reactions. <i>Synlett</i> , 2012 , 23, 2005-2013	2.2	61
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