

Tobias Ritter

List of Publications by Citations

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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.

95
papers

13,537
citations

52
h-index

116
g-index

120
ext. papers

15,011
ext. citations

12.8
avg, IF

7.12
L-index

#	Paper	IF	Citations
95	Introduction of fluorine and fluorine-containing functional groups. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8214-64	16.4	1777
94	Catalysis for fluorination and trifluoromethylation. <i>Nature</i> , 2011 , 473, 470-7	50.4	1654
93	Modern carbon-fluorine bond forming reactions for aryl fluoride synthesis. <i>Chemical Reviews</i> , 2015 , 115, 612-33	68.1	510
92	Einführung von Fluor und fluorhaltigen funktionellen Gruppen. <i>Angewandte Chemie</i> , 2013 , 125, 8372-8423	3.6	500
91	Bimetallic Pd(III) complexes in palladium-catalysed carbon-heteroatom bond formation. <i>Nature Chemistry</i> , 2009 , 1, 302-9	17.6	489
90	Bimetallic palladium catalysis: direct observation of Pd(III)-Pd(III) intermediates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17050-1	16.4	409
89	A fluoride-derived electrophilic late-stage fluorination reagent for PET imaging. <i>Science</i> , 2011 , 334, 639-43	32.3	348
88	Carbon-fluorine reductive elimination from a high-valent palladium fluoride. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10060-1	16.4	293
87	Bimetallic redox synergy in oxidative palladium catalysis. <i>Accounts of Chemical Research</i> , 2012 , 45, 840-50	4.3	285
86	Silver-catalyzed late-stage fluorination. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12150-4	16.4	278
85	A Standard System of Characterization for Olefin Metathesis Catalysts. <i>Organometallics</i> , 2006 , 25, 5740-5	3.45	268
84	Silver-mediated fluorination of functionalized aryl stannanes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1662-3	16.4	254
83	Fluorination of boronic acids mediated by silver(I) triflate. <i>Organic Letters</i> , 2009 , 11, 2860-3	6.2	247
82	Mechanism of C-F reductive elimination from palladium(IV) fluorides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3793-807	16.4	247
81	Palladium-mediated fluorination of arylboronic acids. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5993-6	16.4	241
80	Nickel-mediated oxidative fluorination for PET with aqueous [¹⁸ F] fluoride. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17456-8	16.4	238
79	Bimetallic reductive elimination from dinuclear Pd(III) complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14092-103	16.4	219

- 78 Iron-catalyzed 1,4-hydroboration of 1,3-dienes. *Journal of the American Chemical Society*, **2009**, 131, 12915-7 218
- 77 Deoxyfluorination of phenols. *Journal of the American Chemical Society*, **2011**, 133, 11482-4 16.4 194
- 76 Late-stage fluorination: fancy novelty or useful tool?. *Angewandte Chemie - International Edition*, **2015**, 54, 3216-21 16.4 183
- 75 A dinuclear palladium catalyst for hydroxylation of carbonyls with O₂. *Journal of the American Chemical Society*, **2011**, 133, 1760-2 16.4 180
- 74 On the mechanism of palladium-catalyzed aromatic C-H oxidation. *Journal of the American Chemical Society*, **2010**, 132, 14530-6 16.4 178
- 73 Silver-mediated trifluoromethoxylation of aryl stannanes and arylboronic acids. *Journal of the American Chemical Society*, **2011**, 133, 13308-10 16.4 167
- 72 Rate acceleration in olefin metathesis through a fluorine-ruthenium interaction. *Journal of the American Chemical Society*, **2006**, 128, 11768-9 16.4 166
- 71 Concerted nucleophilic aromatic substitution with (19)F(-) and (18)F(-). *Nature*, **2016**, 534, 369-73 50.4 165
- 70 Pd-catalyzed aryl C-H imidation with arene as the limiting reagent. *Journal of the American Chemical Society*, **2013**, 135, 13278-81 16.4 149
- 69 A strategy for the synthesis of well-defined iron catalysts and application to regioselective diene hydrosilylation. *Journal of the American Chemical Society*, **2010**, 132, 13214-6 16.4 149
- 68 Charge-transfer-directed radical substitution enables para-selective C-H functionalization. *Nature Chemistry*, **2016**, 8, 810-5 17.6 146
- 67 Ruthenium-catalyzed ring-closing metathesis to form tetrasubstituted olefins. *Organic Letters*, **2007**, 9, 1339-42 6.2 144
- 66 Late-Stage Fluorination: From Fundamentals to Application. *Organic Process Research and Development*, **2014**, 18, 474-480 3.9 143
- 65 Modular C-H functionalization cascade of aryl iodides. *Journal of the American Chemical Society*, **2015**, 137, 3775-8 16.4 142
- 64 Connecting binuclear Pd(III) and mononuclear Pd(IV) chemistry by Pd-Pd bond cleavage. *Journal of the American Chemical Society*, **2012**, 134, 12002-9 16.4 135
- 63 Palladium(III)-catalyzed fluorination of arylboronic acid derivatives. *Journal of the American Chemical Society*, **2013**, 135, 14012-5 16.4 129
- 62 Condensed-phase, halogen-bonded CF₃I and C₂F₅I adducts for perfluoroalkylation reactions. *Angewandte Chemie - International Edition*, **2015**, 54, 3712-6 16.4 126
- 61 Late-stage deoxyfluorination of alcohols with PhenoFluor. *Journal of the American Chemical Society*, **2013**, 135, 2470-3 16.4 117

60	1,4-Functionalization of 1,3-dienes with low-valent iron catalysts. <i>Accounts of Chemical Research</i> , 2015 , 48, 2330-43	24.3	108
59	Iron-catalyzed 1,4-addition of alpha-olefins to dienes. <i>Organic Letters</i> , 2009 , 11, 337-9	6.2	105
58	Synthesis and structure of solution-stable one-dimensional palladium wires. <i>Nature Chemistry</i> , 2011 , 3, 949-53	17.6	103
57	Rearrangement of N-Heterocyclic Carbenes Involving Heterocycle Cleavage. <i>Organometallics</i> , 2006 , 25, 4238-4239	3.8	93
56	Palladium(III) in Synthesis and Catalysis. <i>Topics in Organometallic Chemistry</i> , 2011 , 503, 129-156	0.6	84
55	Silver-mediated fluorination of aryl silanes. <i>Tetrahedron</i> , 2011 , 67, 4449-4454	2.4	83
54	Photoredox catalysis with aryl sulfonium salts enables site-selective late-stage fluorination. <i>Nature Chemistry</i> , 2020 , 12, 56-62	17.6	82
53	Iron-catalyzed polymerization of isoprene and other 1,3-dienes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11805-8	16.4	78
52	Aryl Sulfonium Salts for Site-Selective Late-Stage Trifluoromethylation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14615-14619	16.4	77
51	Application of palladium-mediated (¹⁸ F)-fluorination to PET radiotracer development: overcoming hurdles to translation. <i>PLoS ONE</i> , 2013 , 8, e59187	3.7	77
50	Synthesis of N-Heterocyclic Carbene-Containing Metal Complexes from 2-(Pentafluorophenyl)imidazolidines. <i>Organometallics</i> , 2007 , 26, 2122-2124	3.8	73
49	Facile C-F Bond Formation through a Concerted Nucleophilic Aromatic Substitution Mediated by the PhenoFluor Reagent. <i>Accounts of Chemical Research</i> , 2017 , 50, 2822-2833	24.3	62
48	Bridging the gaps in F PET tracer development. <i>Nature Chemistry</i> , 2016 , 9, 1-3	17.6	60
47	F-Deoxyfluorination of Phenols via Ru π -Complexes. <i>ACS Central Science</i> , 2017 , 3, 944-948	16.8	54
46	Rh-Catalyzed Anti-Markovnikov Hydrocyanation of Terminal Alkynes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7184-7187	16.4	53
45	C-F Bond Formation for the Synthesis of Aryl Fluorides. <i>Synthesis</i> , 2010 , 2010, 1804-1821	2.9	52
44	Late-Stage Aromatic C-H Oxygenation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16026-16031	16.4	52
43	PhenoFluorMix: practical chemoselective deoxyfluorination of phenols. <i>Organic Letters</i> , 2015 , 17, 544-7	6.2	51

42	Mechanism of Electrophilic Fluorination with Pd(IV): Fluoride Capture and Subsequent Oxidative Fluoride Transfer. <i>Chemical Science</i> , 2014 , 5,	9.4	49
41	Synthesis and imaging validation of [¹⁸ F]MDL100907 enabled by Ni-mediated fluorination. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 611-5	5.7	49
40	PhenoFluor: Practical Synthesis, New Formulation, and Deoxyfluorination of Heteroaromatics. <i>Organic Process Research and Development</i> , 2014 , 18, 1041-1044	3.9	49
39	A Transmetalation Reaction Enables the Synthesis of [¹⁸ F]5-Fluorouracil from [¹⁸ F]Fluoride for Human PET Imaging. <i>Organometallics</i> , 2016 , 35, 1008-1014	3.8	48
38	Aromatic C-H amination in hexafluoroisopropanol. <i>Chemical Science</i> , 2019 , 10, 2424-2428	9.4	47
37	Fluorierung in sp ² -Synthesestadien: extravagante Neuheit oder n ^u tzliches Hilfsmittel?. <i>Angewandte Chemie</i> , 2015 , 127, 3261-3267	3.6	46
36	Site-Selective Late-Stage Aromatic [¹⁸ F]Fluorination via Aryl Sulfonium Salts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1956-1960	16.4	45
35	Carbon-Fluorine Reductive Elimination from Nickel(III) Complexes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6966-6969	16.4	43
34	HDAC6 Brain Mapping with [¹⁸ F]Bavarostat Enabled by a Ru-Mediated Deoxyfluorination. <i>ACS Central Science</i> , 2017 , 3, 1006-1014	16.8	41
33	1,2-selective hydrosilylation of conjugated dienes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4857-60	16.4	40
32	Condensed-Phase, Halogen-Bonded CF ₃ I and C ₂ F ₅ I Adducts for Perfluoroalkylation Reactions. <i>Angewandte Chemie</i> , 2015 , 127, 3783-3787	3.6	40
31	Mild cleavage of aryl mesylates: methanesulfonate as potent protecting group for phenols. <i>Organic Letters</i> , 2004 , 6, 1513-4	6.2	40
30	AlkylFluor: Deoxyfluorination of Alcohols. <i>Organic Letters</i> , 2016 , 18, 6102-6104	6.2	39
29	Alkyl Aryl Ether Bond Formation with PhenoFluor. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5662-5	16.4	38
28	An in vitro assay for evaluation of small-molecule inhibitors of cholesterol absorption. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4653-6	16.4	34
27	A Transition State Analogue for the Oxidation of Binuclear Palladium(II) to Binuclear Palladium(III) Complexes. <i>Organometallics</i> , 2013 , 32, 2042-2045	3.8	33
26	Metal-Metal Bond-Containing Complexes as Catalysts for C-H Functionalization. <i>Progress in Inorganic Chemistry</i> , 2014 , 225-302		32
25	Noninvasive Assessment of Losartan-Induced Increase in Functional Microvasculature and Drug Delivery in Pancreatic Ductal Adenocarcinoma. <i>Translational Oncology</i> , 2016 , 9, 431-437	4.9	29

24	Synthesis of (18) F-Difluoromethylarenes from Aryl (Pseudo) Halides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10786-90	16.4	28
23	Heterocyclic ring scaffolds as small-molecule cholesterol absorption inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 3514-23	3.9	27
22	1,2,4-oxadiazolidinones as configurationally stable chiral building blocks. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 936-8	16.4	27
21	Aryl Sulfonium Salts for Site-Selective Late-Stage Trifluoromethylation. <i>Angewandte Chemie</i> , 2019 , 131, 14757-14761	3.6	26
20	Carbon-fluorine bond formation. <i>Current Opinion in Drug Discovery & Development</i> , 2008 , 11, 803-19		26
19	Diastereoselective phenol para-alkylation: access to a cross-conjugated cyclohexadienone en route to resiniferatoxin. <i>Organic Letters</i> , 2004 , 6, 4371-4	6.2	25
18	The diazonamides: the plot thickens. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2489-95	16.4	22
17	Late-stage formation of carbon-fluorine bonds. <i>Chemical Record</i> , 2014 , 14, 482-91	6.6	21
16	Carbon-Fluorine Reductive Elimination from Nickel(III) Complexes. <i>Angewandte Chemie</i> , 2017 , 129, 7070-7073	3.6	17
15	One-dimensional palladium wires: influence of molecular changes on supramolecular structure. <i>Inorganic Chemistry</i> , 2013 , 52, 13295-7	5.1	16
14	A Perspective on Late-Stage Aromatic C-H Bond Functionalization.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	16
13	Selective Aromatic C-H Hydroxylation Enabled by π -Coordination to Iridium(III). <i>Organometallics</i> , 2015 , 34, 4626-4631	3.8	13
12	Alkyl Aryl Ether Bond Formation with PhenoFluor. <i>Angewandte Chemie</i> , 2015 , 127, 5754-5757	3.6	12
11	C-H fluorination: U can fluorinate unactivated bonds. <i>Nature Chemistry</i> , 2016 , 8, 822-3	17.6	10
10	Iron-Catalyzed Polymerization of Isoprene and Other 1,3-Dienes. <i>Angewandte Chemie</i> , 2012 , 124, 11975-11978	3.6	10
9	Synthesis of 18F-Difluoromethylarenes from Aryl (Pseudo) Halides. <i>Angewandte Chemie</i> , 2016 , 128, 10944-10948	3.6	9
8	F-Fluorination: Challenge and Opportunity for Organic Chemists. <i>Journal of Organic Chemistry</i> , 2021 , 86, 13873-13884	4.2	8
7	Site-Selective Late-Stage Aromatic [18F]Fluorination via Aryl Sulfonium Salts. <i>Angewandte Chemie</i> , 2020 , 132, 1972-1976	3.6	6

6	Transition Metal-Mediated and Metal-Catalyzed Carbon-Fluorine Bond Formation. <i>Topics in Organometallic Chemistry</i> , 2014 , 1-53	0.6	5
5	Transition-Metal-Mediated Fluorination of Arenes. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2011 , 69, 48-61	0.2	5
4	Transition-Metal-Mediated and Transition-Metal-Catalyzed Carbon-Fluorine Bond Formation	1-181	1
3	Nickel-Mediated Fluorination for Preparing Aryl Fluorides	2020 , 460-470	
2	Late-Stage Deoxyfluorination of Phenols with PhenoFluorMix	1-20	
1	PhenoFluor, PhenoFluorMix, and AlkylFluor	1-4	