

# Tobias Ritter

## 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.

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	A Perspective on Late-Stage Aromatic C-H Bond Functionalization.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	16
94	F-Fluorination: Challenge and Opportunity for Organic Chemists. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 13873-13884	4.2	8
93	Nickel-Mediated Fluorination for Preparing Aryl Fluorides <b>2020</b> , 460-470		
92	Site-Selective Late-Stage Aromatic [ F]Fluorination via Aryl Sulfonium Salts. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1956-1960	16.4	45
91	Site-Selective Late-Stage Aromatic [ <sup>18</sup> F]Fluorination via Aryl Sulfonium Salts. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1972-1976	3.6	6
90	Photoredox catalysis with aryl sulfonium salts enables site-selective late-stage fluorination. <i>Nature Chemistry</i> , <b>2020</b> , 12, 56-62	17.6	82
89	Aromatic C-H amination in hexafluoroisopropanol. <i>Chemical Science</i> , <b>2019</b> , 10, 2424-2428	9.4	47
88	Aryl Sulfonium Salts for Site-Selective Late-Stage Trifluoromethylation. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14757-14761	3.6	26
87	Aryl Sulfonium Salts for Site-Selective Late-Stage Trifluoromethylation. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14615-14619	16.4	77
86	Late-Stage Aromatic C-H Oxygenation. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16026-16031	16.4	52
85	Carbon-Fluorine Reductive Elimination from Nickel(III) Complexes. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7070-7073	16.4	17
84	Carbon-Fluorine Reductive Elimination from Nickel(III) Complexes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6966-6969	16.4	43
83	Rh-Catalyzed Anti-Markovnikov Hydrocyanation of Terminal Alkynes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7184-7187	16.4	53
82	HDAC6 Brain Mapping with [ <sup>18</sup> F]Bavastat Enabled by a Ru-Mediated Deoxyfluorination. <i>ACS Central Science</i> , <b>2017</b> , 3, 1006-1014	16.8	41
81	F-Deoxyfluorination of Phenols via Ru II Complexes. <i>ACS Central Science</i> , <b>2017</b> , 3, 944-948	16.8	54
80	Facile C-F Bond Formation through a Concerted Nucleophilic Aromatic Substitution Mediated by the PhenoFluor Reagent. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 2822-2833	24.3	62
79	Bridging the gaps in F PET tracer development. <i>Nature Chemistry</i> , <b>2016</b> , 9, 1-3	17.6	60

78	C-H fluorination: U can fluorinate unactivated bonds. <i>Nature Chemistry</i> , <b>2016</b> , 8, 822-3	17.6	10
77	AlkylFluor: Deoxyfluorination of Alcohols. <i>Organic Letters</i> , <b>2016</b> , 18, 6102-6104	6.2	39
76	Noninvasive Assessment of Losartan-Induced Increase in Functional Microvasculature and Drug Delivery in Pancreatic Ductal Adenocarcinoma. <i>Translational Oncology</i> , <b>2016</b> , 9, 431-437	4.9	29
75	Charge-transfer-directed radical substitution enables para-selective C-H functionalization. <i>Nature Chemistry</i> , <b>2016</b> , 8, 810-5	17.6	146
74	A Transmetalation Reaction Enables the Synthesis of [F]5-Fluorouracil from [F]Fluoride for Human PET Imaging. <i>Organometallics</i> , <b>2016</b> , 35, 1008-1014	3.8	48
73	Concerted nucleophilic aromatic substitution with (19)F(-) and (18)F(-). <i>Nature</i> , <b>2016</b> , 534, 369-73	50.4	165
72	Synthesis of (18) F-Difluoromethylarenes from Aryl (Pseudo) Halides. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10786-90	16.4	28
71	Synthesis of 18F-Difluoromethylarenes from Aryl (Pseudo) Halides. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10944-10948	16.4	28
70	Fluorierung in späten Synthesestadien: extravagante Neuheit oder nützliches Hilfsmittel?. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3261-3267	3.6	46
69	Modular C-H functionalization cascade of aryl iodides. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3775-8	16.4	142
68	1,4-Functionalization of 1,3-dienes with low-valent iron catalysts. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 2330-43	24.3	108
67	Alkyl Aryl Ether Bond Formation with PhenoFluor. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5662-5	16.4	38
66	Selective Aromatic C-H Hydroxylation Enabled by $\pi$ -Coordination to Iridium(III). <i>Organometallics</i> , <b>2015</b> , 34, 4626-4631	3.8	13
65	Modern carbon-fluorine bond forming reactions for aryl fluoride synthesis. <i>Chemical Reviews</i> , <b>2015</b> , 115, 612-33	68.1	510
64	Alkyl Aryl Ether Bond Formation with PhenoFluor. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5754-5757	3.6	12
63	Late-stage fluorination: fancy novelty or useful tool?. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3216-21	16.4	183
62	Condensed-Phase, Halogen-Bonded CF3I and C2F5I Adducts for Perfluoroalkylation Reactions. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3783-3787	3.6	40
61	Condensed-phase, halogen-bonded CF3I and C2F5I adducts for perfluoroalkylation reactions. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3712-6	16.4	126

60	PhenoFluorMix: practical chemoselective deoxyfluorination of phenols. <i>Organic Letters</i> , <b>2015</b> , 17, 544-7	6.2	51
59	1,2-selective hydrosilylation of conjugated dienes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4857-60	16.4	40
58	Mechanism of Electrophilic Fluorination with Pd(IV): Fluoride Capture and Subsequent Oxidative Fluoride Transfer. <i>Chemical Science</i> , <b>2014</b> , 5,	9.4	49
57	Synthesis and imaging validation of [ <sup>18</sup> F]MDL100907 enabled by Ni-mediated fluorination. <i>ACS Chemical Neuroscience</i> , <b>2014</b> , 5, 611-5	5.7	49
56	PhenoFluor: Practical Synthesis, New Formulation, and Deoxyfluorination of Heteroaromatics. <i>Organic Process Research and Development</i> , <b>2014</b> , 18, 1041-1044	3.9	49
55	Metal-Metal Bond-Containing Complexes as Catalysts for C-H Functionalization. <i>Progress in Inorganic Chemistry</i> , <b>2014</b> , 225-302		32
54	Late-Stage Fluorination: From Fundamentals to Application. <i>Organic Process Research and Development</i> , <b>2014</b> , 18, 474-480	3.9	143
53	Late-stage formation of carbon-fluorine bonds. <i>Chemical Record</i> , <b>2014</b> , 14, 482-91	6.6	21
52	Transition Metal-Mediated and Metal-Catalyzed Carbon-Fluorine Bond Formation. <i>Topics in Organometallic Chemistry</i> , <b>2014</b> , 1-53	0.6	5
51	Introduction of fluorine and fluorine-containing functional groups. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8214-64	16.4	1777
50	Pd-catalyzed aryl C-H imidation with arene as the limiting reagent. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13278-81	16.4	149
49	Late-stage deoxyfluorination of alcohols with PhenoFluor. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2470-3	16.4	117
48	Einführung von Fluor und fluorhaltigen funktionellen Gruppen. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8372-8423	3.6	500
47	One-dimensional palladium wires: influence of molecular changes on supramolecular structure. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 13295-7	5.1	16
46	Palladium(III)-catalyzed fluorination of arylboronic acid derivatives. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14012-5	16.4	129
45	A Transition State Analogue for the Oxidation of Binuclear Palladium(II) to Binuclear Palladium(III) Complexes. <i>Organometallics</i> , <b>2013</b> , 32, 2042-2045	3.8	33
44	Application of palladium-mediated ( <sup>18</sup> F)-fluorination to PET radiotracer development: overcoming hurdles to translation. <i>PLoS ONE</i> , <b>2013</b> , 8, e59187	3.7	77
43	Iron-catalyzed polymerization of isoprene and other 1,3-dienes. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11805-8	16.4	78

42	Iron-Catalyzed Polymerization of Isoprene and Other 1,3-Dienes. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11975-11978	10
41	Nickel-mediated oxidative fluorination for PET with aqueous [ <sup>18</sup> F] fluoride. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 17456-8	16.4 238
40	Connecting binuclear Pd(III) and mononuclear Pd(IV) chemistry by Pd-Pd bond cleavage. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12002-9	16.4 135
39	Bimetallic redox synergy in oxidative palladium catalysis. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 840-504.3	285
38	Silver-mediated trifluoromethoxylation of aryl stannanes and arylboronic acids. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13308-10	16.4 167
37	Synthesis and structure of solution-stable one-dimensional palladium wires. <i>Nature Chemistry</i> , <b>2011</b> , 3, 949-53	17.6 103
36	A dinuclear palladium catalyst for hydroxylation of carbonyls with O <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1760-2	16.4 180
35	Deoxyfluorination of phenols. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11482-4	16.4 194
34	A fluoride-derived electrophilic late-stage fluorination reagent for PET imaging. <i>Science</i> , <b>2011</b> , 334, 639-43.3	348
33	Catalysis for fluorination and trifluoromethylation. <i>Nature</i> , <b>2011</b> , 473, 470-7	50.4 1654
32	Palladium(III) in Synthesis and Catalysis. <i>Topics in Organometallic Chemistry</i> , <b>2011</b> , 503, 129-156	0.6 84
31	Silver-mediated fluorination of aryl silanes. <i>Tetrahedron</i> , <b>2011</b> , 67, 4449-4454	2.4 83
30	Transition-Metal-Mediated Fluorination of Arenes. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , <b>2011</b> , 69, 48-61	0.2 5
29	C-F Bond Formation for the Synthesis of Aryl Fluorides. <i>Synthesis</i> , <b>2010</b> , 2010, 1804-1821	2.9 52
28	Bimetallic reductive elimination from dinuclear Pd(III) complexes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14092-103	16.4 219
27	On the mechanism of palladium-catalyzed aromatic C-H oxidation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14530-6	16.4 178
26	A strategy for the synthesis of well-defined iron catalysts and application to regioselective diene hydrosilylation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13214-6	16.4 149
25	Silver-catalyzed late-stage fluorination. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12150-4	16.4 278

- 24 Mechanism of C-F reductive elimination from palladium(IV) fluorides. *Journal of the American Chemical Society*, **2010**, 132, 3793-807 16.4 247
- 23 Bimetallic Pd(III) complexes in palladium-catalysed carbon-fluoroatom bond formation. *Nature Chemistry*, **2009**, 1, 302-9 17.6 489
- 22 Bimetallic palladium catalysis: direct observation of Pd(III)-Pd(III) intermediates. *Journal of the American Chemical Society*, **2009**, 131, 17050-1 16.4 409
- 21 Iron-catalyzed 1,4-addition of alpha-olefins to dienes. *Organic Letters*, **2009**, 11, 337-9 6.2 105
- 20 Iron-catalyzed 1,4-hydroboration of 1,3-dienes. *Journal of the American Chemical Society*, **2009**, 131, 12915-7 16.4 218
- 19 Fluorination of boronic acids mediated by silver(I) triflate. *Organic Letters*, **2009**, 11, 2860-3 6.2 247
- 18 Silver-mediated fluorination of functionalized aryl stannanes. *Journal of the American Chemical Society*, **2009**, 131, 1662-3 16.4 254
- 17 Carbon-fluorine reductive elimination from a high-valent palladium fluoride. *Journal of the American Chemical Society*, **2008**, 130, 10060-1 16.4 293
- 16 Palladium-mediated fluorination of arylboronic acids. *Angewandte Chemie - International Edition*, **2008**, 47, 5993-6 16.4 241
- 15 Carbon-fluorine bond formation. *Current Opinion in Drug Discovery & Development*, **2008**, 11, 803-19 26
- 14 Ruthenium-catalyzed ring-closing metathesis to form tetrasubstituted olefins. *Organic Letters*, **2007**, 9, 1339-42 6.2 144
- 13 Synthesis of N-Heterocyclic Carbene-Containing Metal Complexes from 2-(Pentafluorophenyl)imidazolidines. *Organometallics*, **2007**, 26, 2122-2124 3.8 73
- 12 A Standard System of Characterization for Olefin Metathesis Catalysts. *Organometallics*, **2006**, 25, 5740-5745 16.4 268
- 11 Rearrangement of N-Heterocyclic Carbenes Involving Heterocycle Cleavage. *Organometallics*, **2006**, 25, 4238-4239 3.8 93
- 10 Rate acceleration in olefin metathesis through a fluorine-ruthenium interaction. *Journal of the American Chemical Society*, **2006**, 128, 11768-9 16.4 166
- 9 Heterocyclic ring scaffolds as small-molecule cholesterol absorption inhibitors. *Organic and Biomolecular Chemistry*, **2005**, 3, 3514-23 3.9 27
- 8 1,2,4-oxadiazolidinones as configurationally stable chiral building blocks. *Angewandte Chemie - International Edition*, **2005**, 44, 936-8 16.4 27
- 7 Diastereoselective phenol para-alkylation: access to a cross-conjugated cyclohexadienone en route to resiniferatoxin. *Organic Letters*, **2004**, 6, 4371-4 6.2 25

6	An in vitro assay for evaluation of small-molecule inhibitors of cholesterol absorption. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4653-6	16.4	34
5	Mild cleavage of aryl mesylates: methanesulfonate as potent protecting group for phenols. <i>Organic Letters</i> , <b>2004</b> , 6, 1513-4	6.2	40
4	The diazonamides: the plot thickens. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 2489-95	16.4	22
3	Late-Stage Deoxyfluorination of Phenols with PhenoFluorMix1-20		
2	PhenoFluor, PhenoFluorMix, and AlkylFluor1-4		
1	Transition-Metal-Mediated and Transition-Metal-Catalyzed Carbon-Fluorine Bond Formation1-181		1