

Tobias Ritter

List of Publications by Year in descending order

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92
papers

16,148
citations

25014

57
h-index

38368

95
g-index

120
all docs

120
docs citations

120
times ranked

9458
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction of Fluorine and Fluorine-Containing Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8214-8264.	7.2	2,160
2	Catalysis for fluorination and trifluoromethylation. <i>Nature</i> , 2011, 473, 470-477.	13.7	1,894
3	Modern Carbon-Fluorine Bond Forming Reactions for Aryl Fluoride Synthesis. <i>Chemical Reviews</i> , 2015, 115, 612-633.	23.0	641
4	Bimetallic Pd(III) complexes in palladium-catalysed carbon-heteroatom bond formation. <i>Nature Chemistry</i> , 2009, 1, 302-309.	6.6	527
5	Bimetallic Palladium Catalysis: Direct Observation of Pd(III)-Pd(III) Intermediates. <i>Journal of the American Chemical Society</i> , 2009, 131, 17050-17051.	6.6	427
6	A Fluoride-Derived Electrophilic Late-Stage Fluorination Reagent for PET Imaging. <i>Science</i> , 2011, 334, 639-642.	6.0	384
7	Silver-Catalyzed Late-Stage Fluorination. <i>Journal of the American Chemical Society</i> , 2010, 132, 12150-12154.	6.6	314
8	Carbon-Fluorine Reductive Elimination from a High-Valent Palladium Fluoride. <i>Journal of the American Chemical Society</i> , 2008, 130, 10060-10061.	6.6	312
9	Bimetallic Redox Synergy in Oxidative Palladium Catalysis. <i>Accounts of Chemical Research</i> , 2012, 45, 840-850.	7.6	309
10	A Standard System of Characterization for Olefin Metathesis Catalysts. <i>Organometallics</i> , 2006, 25, 5740-5745.	1.1	293
11	Silver-Mediated Fluorination of Functionalized Aryl Stannanes. <i>Journal of the American Chemical Society</i> , 2009, 131, 1662-1663.	6.6	284
12	Fluorination of Boronic Acids Mediated by Silver(I) Triflate. <i>Organic Letters</i> , 2009, 11, 2860-2863.	2.4	277
13	Mechanism of C-F Reductive Elimination from Palladium(IV) Fluorides. <i>Journal of the American Chemical Society</i> , 2010, 132, 3793-3807.	6.6	273
14	Iron-Catalyzed 1,4-Hydroboration of 1,3-Dienes. <i>Journal of the American Chemical Society</i> , 2009, 131, 12915-12917.	6.6	263
15	Palladium-Mediated Fluorination of Arylboronic Acids. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5993-5996.	7.2	261
16	Nickel-Mediated Oxidative Fluorination for PET with Aqueous [¹⁸ F] Fluoride. <i>Journal of the American Chemical Society</i> , 2012, 134, 17456-17458.	6.6	260
17	Bimetallic Reductive Elimination from Dinuclear Pd(III) Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 14092-14103.	6.6	237
18	Deoxyfluorination of Phenols. <i>Journal of the American Chemical Society</i> , 2011, 133, 11482-11484.	6.6	234

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19	Concerted nucleophilic aromatic substitution with 19F ⁺ and 18F ⁺ . <i>Nature</i> , 2016, 534, 369-373.	13.7	225
20	Late-Stage Fluorination: Fancy Novelty or Useful Tool?. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3216-3221.	7.2	219
21	A Dinuclear Palladium Catalyst for α -Hydroxylation of Carbonyls with O ₂ . <i>Journal of the American Chemical Society</i> , 2011, 133, 1760-1762.	6.6	202
22	Photoredox catalysis with aryl sulfonium salts enables site-selective late-stage fluorination. <i>Nature Chemistry</i> , 2020, 12, 56-62.	6.6	194
23	On the Mechanism of Palladium-Catalyzed Aromatic C-H Oxidation. <i>Journal of the American Chemical Society</i> , 2010, 132, 14530-14536.	6.6	189
24	Silver-Mediated Trifluoromethoxylation of Aryl Stannanes and Arylboronic Acids. <i>Journal of the American Chemical Society</i> , 2011, 133, 13308-13310.	6.6	188
25	A Strategy for the Synthesis of Well-Defined Iron Catalysts and Application to Regioselective Diene Hydrosilylation. <i>Journal of the American Chemical Society</i> , 2010, 132, 13214-13216.	6.6	184
26	Rate Acceleration in Olefin Metathesis through a Fluorine-Ruthenium Interaction. <i>Journal of the American Chemical Society</i> , 2006, 128, 11768-11769.	6.6	181
27	Charge-transfer-directed radical substitution enables para-selective C-H functionalization. <i>Nature Chemistry</i> , 2016, 8, 810-815.	6.6	177
28	Pd-Catalyzed Aryl C-H Imination with Arene as the Limiting Reagent. <i>Journal of the American Chemical Society</i> , 2013, 135, 13278-13281.	6.6	169
29	Late-Stage Fluorination: From Fundamentals to Application. <i>Organic Process Research and Development</i> , 2014, 18, 474-480.	1.3	167
30	Aryl Sulfonium Salts for Site-Selective Late-Stage Trifluoromethylation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14615-14619.	7.2	166
31	Modular C-H Functionalization Cascade of Aryl Iodides. <i>Journal of the American Chemical Society</i> , 2015, 137, 3775-3778.	6.6	163
32	Ruthenium-Catalyzed Ring-Closing Metathesis to Form Tetrasubstituted Olefins. <i>Organic Letters</i> , 2007, 9, 1339-1342.	2.4	158
33	Late-Stage Deoxyfluorination of Alcohols with PhenoFluor. <i>Journal of the American Chemical Society</i> , 2013, 135, 2470-2473.	6.6	157
34	Condensed-Phase, Halogen-Bonded CF ₃ I and C ₂ F ₅ I Adducts for Perfluoroalkylation Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3712-3716.	7.2	157
35	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
36	Palladium(III)-Catalyzed Fluorination of Arylboronic Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2013, 135, 14012-14015.	6.6	141

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37	1,4-Functionalization of 1,3-Dienes With Low-Valent Iron Catalysts. <i>Accounts of Chemical Research</i> , 2015, 48, 2330-2343.	7.6	136
38	A Perspective on Late-Stage Aromatic C-H Bond Functionalization. <i>Journal of the American Chemical Society</i> , 2022, 144, 2399-2414.	6.6	136
39	Iron-Catalyzed 1,4-Addition of α -Olefins to Dienes. <i>Organic Letters</i> , 2009, 11, 337-339.	2.4	119
40	Synthesis and structure of solution-stable one-dimensional palladium wires. <i>Nature Chemistry</i> , 2011, 3, 949-953.	6.6	115
41	Rearrangement of N-Heterocyclic Carbenes Involving Heterocycle Cleavage. <i>Organometallics</i> , 2006, 25, 4238-4239.	1.1	100
42	Iron-Catalyzed Polymerization of Isoprene and Other 1,3-Dienes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11805-11808.	7.2	100
43	Silver-mediated fluorination of aryl silanes. <i>Tetrahedron</i> , 2011, 67, 4449-4454.	1.0	97
44	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.	7.6	90
45	Palladium(III) in Synthesis and Catalysis. <i>Topics in Organometallic Chemistry</i> , 2011, 503, 129-156.	0.7	89
46	Application of Palladium-Mediated ¹⁸ F-Fluorination to PET Radiotracer Development: Overcoming Hurdles to Translation. <i>PLoS ONE</i> , 2013, 8, e59187.	1.1	87
47	Site-Selective Late-Stage Aromatic [¹⁸ F]Fluorination via Aryl Sulfonium Salts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1956-1960.	7.2	86
48	Synthesis of N-Heterocyclic Carbene-Containing Metal Complexes from 2-(Pentafluorophenyl)imidazolidines. <i>Organometallics</i> , 2007, 26, 2122-2124.	1.1	83
49	PhenoFluorMix: Practical Chemoselective Deoxyfluorination of Phenols. <i>Organic Letters</i> , 2015, 17, 544-547.	2.4	83
50	Late-Stage Aromatic C-H Oxygenation. <i>Journal of the American Chemical Society</i> , 2018, 140, 16026-16031.	6.6	78
51	Aromatic C-H amination in hexafluoroisopropanol. <i>Chemical Science</i> , 2019, 10, 2424-2428.	3.7	78
52	AlkylFluor: Deoxyfluorination of Alcohols. <i>Organic Letters</i> , 2016, 18, 6102-6104.	2.4	76
53	¹⁸ F-Deoxyfluorination of Phenols via Ru η^5 -Complexes. <i>ACS Central Science</i> , 2017, 3, 944-948.	5.3	74
54	Rh-Catalyzed Anti-Markovnikov Hydrocyanation of Terminal Alkynes. <i>Journal of the American Chemical Society</i> , 2017, 139, 7184-7187.	6.6	72

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55	Bridging the gaps in ¹⁸ F PET tracer development. <i>Nature Chemistry</i> , 2017, 9, 1-3.	6.6	71
56	Carbon-Fluorine Bond Formation for the Synthesis of Aryl Fluorides. <i>Synthesis</i> , 2010, 2010, 1804-1821.	1.2	63
57	HDAC6 Brain Mapping with [¹⁸ F]Bavostat Enabled by a Ru-Mediated Deoxyfluorination. <i>ACS Central Science</i> , 2017, 3, 1006-1014.	5.3	60
58	PhenoFluor: Practical Synthesis, New Formulation, and Deoxyfluorination of Heteroaromatics. <i>Organic Process Research and Development</i> , 2014, 18, 1041-1044.	1.3	59
59	1,2-Selective Hydrosilylation of Conjugated Dienes. <i>Journal of the American Chemical Society</i> , 2014, 136, 4857-4860.	6.6	58
60	Synthesis and Imaging Validation of [¹⁸ F]MDL100907 Enabled by Ni-Mediated Fluorination. <i>ACS Chemical Neuroscience</i> , 2014, 5, 611-615.	1.7	57
61	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.	1.1	57
62	Carbon-Fluorine Reductive Elimination from Nickel(III) Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6966-6969.	7.2	54
63	Mechanism of electrophilic fluorination with Pd(IV): fluoride capture and subsequent oxidative fluoride transfer. <i>Chemical Science</i> , 2014, 5, 169-179.	3.7	53
64	¹⁸ F-Fluorination: Challenge and Opportunity for Organic Chemists. <i>Journal of Organic Chemistry</i> , 2021, 86, 13873-13884.	1.7	51
65	Alkyl Aryl Ether Bond Formation with PhenoFluor. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5662-5665.	7.2	50
66	Mild Cleavage of Aryl Mesylates: Methanesulfonate as Potent Protecting Group for Phenols. <i>Organic Letters</i> , 2004, 6, 1513-1514.	2.4	48
67	Aryl Sulfonium Salts for Site-Selective Late-Stage Trifluoromethylation. <i>Angewandte Chemie</i> , 2019, 131, 14757-14761.	1.6	45
68	Noninvasive Assessment of Losartan-Induced Increase in Functional Microvasculature and Drug Delivery in Pancreatic Ductal Adenocarcinoma. <i>Translational Oncology</i> , 2016, 9, 431-437.	1.7	42
69	An In Vitro Assay for Evaluation of Small-Molecule Inhibitors of Cholesterol Absorption. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4653-4656.	7.2	38
70	Synthesis of ¹⁸ F- ¹⁸ F- ¹⁸ Fdifluoromethylarenes from Aryl (Pseudo) Halides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10786-10790.	7.2	38
71	A Transition State Analogue for the Oxidation of Binuclear Palladium(II) to Binuclear Palladium(III) Complexes. <i>Organometallics</i> , 2013, 32, 2042-2045.	1.1	35
72	The Diazonamides: The Plot Thickens. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2489-2495.	7.2	31

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73	1,2,4-Oxadiazolidinones as Configurationally Stable Chiral Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 936-938.	7.2	31
74	Heterocyclic ring scaffolds as small-molecule cholesterol absorption inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3514.	1.5	29
75	Diastereoselective Phenolpara-Alkylation: Access to a Cross-Conjugated Cyclohexadienone en Route to Resiniferatoxin. <i>Organic Letters</i> , 2004, 6, 4371-4374.	2.4	28
76	Late-Stage Formation of Carbon-Fluorine Bonds. <i>Chemical Record</i> , 2014, 14, 482-491.	2.9	28
77	Carbon-fluorine bond formation. <i>Current Opinion in Drug Discovery & Development</i> , 2008, 11, 803-19.	1.9	27
78	One-Dimensional Palladium Wires: Influence of Molecular Changes on Supramolecular Structure. <i>Inorganic Chemistry</i> , 2013, 52, 13295-13297.	1.9	19
79	Carbon-Fluorine Reductive Elimination from Nickel(III) Complexes. <i>Angewandte Chemie</i> , 2017, 129, 7070-7073.	1.6	19
80	Selective Aromatic C-H Hydroxylation Enabled by π -Coordination to Iridium(III). <i>Organometallics</i> , 2015, 34, 4626-4631.	1.1	15
81	Site-Selective Late-Stage Aromatic [^{18}F]Fluorination via Aryl Sulfonium Salts. <i>Angewandte Chemie</i> , 2020, 132, 1972-1976.	1.6	12
82	Synthesis of ^{18}F -labeled difluoromethylarenes from Aryl (Pseudo) Halides. <i>Angewandte Chemie</i> , 2016, 128, 10944-10948.	1.6	11
83	U can fluorinate unactivated bonds. <i>Nature Chemistry</i> , 2016, 8, 822-823.	6.6	10
84	Transition Metal-Mediated and Metal-Catalyzed Carbon-Fluorine Bond Formation. <i>Topics in Organometallic Chemistry</i> , 2014, , 1-53.	0.7	8
85	Transition-Metal-Mediated Fluorination of Arenes. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2011, 69, 48-61.	0.0	6
86	Palladium-Mediated Fluorination for Preparing Aryl Fluorides. , 2018, , 1-17.		1
87	Mild Cleavage of Aryl Mesylates: Methanesulfonate as Potent Protecting Group for Phenols.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
88	1,2,4-Oxadiazolidinones as Configurationally Stable Chiral Building Blocks.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
89	Late-Stage Fluorination. , 0, , .		0
90	Nickel-Mediated Fluorination for Preparing Aryl Fluorides. , 2018, , 1-11.		0

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91	Nickel-Mediated Fluorination for Preparing Aryl Fluorides. , 2020, , 460-470.		0
92	Palladium-Mediated Fluorination for Preparing Aryl Fluorides. , 2020, , 497-513.		0