

Hartmuth C Kolb

List of Publications by Citations

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68 papers	26,179 citations	38 h-index	70 g-index
70 ext. papers	27,776 ext. citations	8.3 avg, IF	6.94 L-index

#	Paper	IF	Citations
68	Click Chemistry: Diverse Chemical Function from a Few Good Reactions. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2004-2021	16.4	10193
67	Catalytic Asymmetric Dihydroxylation. <i>Chemical Reviews</i> , 1994 , 94, 2483-2547	68.1	3173
66	The growing impact of click chemistry on drug discovery. <i>Drug Discovery Today</i> , 2003 , 8, 1128-37	8.8	2630
65	Click Chemistry: Diverse Chemical Function from a Few Good Reactions. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2004-2021	16.4	1637
64	Click-Chemie: diverse chemische Funktionalit� mit einer Handvoll guter Reaktionen. <i>Angewandte Chemie</i> , 2001 , 113, 2056-2075	3.6	1456
63	"On water": unique reactivity of organic compounds in aqueous suspension. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3275-9	16.4	1306
62	Early clinical PET imaging results with the novel PHF-tau radioligand [F-18]-T807. <i>Journal of Alzheimer's Disease</i> , 2013 , 34, 457-68	4.3	511
61	Multistep synthesis of a radiolabeled imaging probe using integrated microfluidics. <i>Science</i> , 2005 , 310, 1793-6	33.3	428
60	Inhibitors of HIV-1 protease by using in situ click chemistry. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1435-9	16.4	424
59	[(18)F]T807, a novel tau positron emission tomography imaging agent for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2013 , 9, 666-76	1.2	421
58	In situ click chemistry: enzyme inhibitors made to their own specifications. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12809-18	16.4	364
57	In situ selection of lead compounds by click chemistry: target-guided optimization of acetylcholinesterase inhibitors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6686-92	16.4	290
56	Freeze-frame inhibitor captures acetylcholinesterase in a unique conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1449-54	11.5	265
55	The clinical importance of assessing tumor hypoxia: relationship of tumor hypoxia to prognosis and therapeutic opportunities. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 1516-54	8.4	219
54	Improved enantioselectivity in asymmetric dihydroxylations of terminal olefins using pyrimidine ligands. <i>Journal of Organic Chemistry</i> , 1993 , 58, 3785-3786	4.2	201
53	Early clinical PET imaging results with the novel PHF-tau radioligand [F18]-T808. <i>Journal of Alzheimer's Disease</i> , 2014 , 38, 171-84	4.3	199
52	In situ click chemistry: enzyme-generated inhibitors of carbonic anhydrase II. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 116-20	16.4	191

51	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation (AD). 1. Kinetics. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1278-1291	16.4	183
50	A highly selective and specific PET tracer for imaging of tau pathologies. <i>Journal of Alzheimer's Disease</i> , 2012 , 31, 601-12	4.3	143
49	Integrated microfluidics for parallel screening of an in situ click chemistry library. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5276-81	16.4	139
48	Preclinical evaluation and validation of [18F]HX4, a promising hypoxia marker for PET imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14620-5	11.5	109
47	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation. 4. Electronic Effects in Amine-Accelerated Osmylations. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1840-1858	16.4	107
46	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation. 2. A Qualitative Molecular Mechanics Approach. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8470-8478	16.4	93
45	Total synthesis of the anthelmintic macrolide avermectin B1a. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991 , 667-692		92
44	Development of Tools for the Design of Selectin Antagonists. <i>Chemistry - A European Journal</i> , 1997 , 3, 1571-1578	4.8	85
43	An integrated microfluidic device for large-scale in situ click chemistry screening. <i>Lab on A Chip</i> , 2009 , 9, 2281-5	7.2	80
42	Design and optimization of coin-shaped microreactor chips for PET radiopharmaceutical synthesis. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 282-7	8.9	79
41	Tau Positron Emission Tomography (PET) Imaging: Past, Present, and Future. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 4365-82	8.3	77
40	Biodistribution and radiation dosimetry of the integrin marker 18F-RGD-K5 determined from whole-body PET/CT in monkeys and humans. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 787-95	8.9	75
39	[18F]-HX4 hypoxia imaging with PET/CT in head and neck cancer: a comparison with [18F]-FMISO. <i>Nuclear Medicine Communications</i> , 2012 , 33, 1096-102	1.6	71
38	Inhibitors of HIV-1 Protease by Using In Situ Click Chemistry. <i>Angewandte Chemie</i> , 2006 , 118, 1463-1467	3.6	63
37	Calculations on the reaction of ruthenium tetroxide with olefins using density functional theory (DFT). Implications for the possibility of intermediates in osmium-catalyzed asymmetric dihydroxylation. <i>Organometallics</i> , 1994 , 13, 344-347	3.8	63
36	Batch-reactor microfluidic device: first human use of a microfluidically produced PET radiotracer. <i>Lab on A Chip</i> , 2013 , 13, 136-45	7.2	56
35	Chemistry of insect antifeedants from <i>Azadirachta indica</i> (part 12): use of silicon as a control element in the synthesis of a highly functionalized decalin fragment of azadirachtin. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1992 , 2735		46
34	The synthesis of azadirachtin: a potent insect antifeedant. <i>Chemistry - A European Journal</i> , 2008 , 14, 10683-704	13.8	44

33	In Situ Click Chemistry: Enzyme-Generated Inhibitors of Carbonic Anhydrase II. <i>Angewandte Chemie</i> , 2005 , 117, 118-122	3.6	43
32	Evaluation of [(18)F]-CP18 as a PET imaging tracer for apoptosis. <i>Molecular Imaging and Biology</i> , 2013 , 15, 739-47	3.8	38
31	Biodistribution and radiation dosimetry of the hypoxia marker 18F-HX4 in monkeys and humans determined by using whole-body PET/CT. <i>Nuclear Medicine Communications</i> , 2010 , 31, 1016-24	1.6	38
30	On "The origin of high enantioselectivity in the dihydroxylation of olefins using osmium tetroxide and cinchona alkaloid catalysts". <i>Journal of the American Chemical Society</i> , 1993 , 115, 12226-12227	16.4	37
29	Comparing two models for the selectivity in the asymmetric dihydroxylation reaction (AD). <i>Tetrahedron Letters</i> , 1994 , 35, 7315-7318	2	37
28	Integrated Microfluidics for Parallel Screening of an In Situ Click Chemistry Library. <i>Angewandte Chemie</i> , 2006 , 118, 5402-5407	3.6	35
27	Comparison of the Bioactive Conformations of Sialyl LewisX and a Potent Sialyl LewisX Mimic. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 2603-2607		33
26	Biodistribution and radiation dosimetry of 18F-CP-18, a potential apoptosis imaging agent, as determined from PET/CT scans in healthy volunteers. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 2087-92	8.9	31
25	Atherosclerotic plaque uptake of a novel integrin tracer ^{18}F -Flotegatide in a mouse model of atherosclerosis. <i>Journal of Nuclear Cardiology</i> , 2014 , 21, 553-62	2.1	29
24	Applications of click chemistry in radiopharmaceutical development. <i>Chimia</i> , 2010 , 64, 29-33	1.3	29
23	Noninvasive molecular imaging of apoptosis in a mouse model of anthracycline-induced cardiotoxicity. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8, e001952	3.9	28
22	Structural insights into conformational flexibility at the peripheral site and within the active center gorge of AChE. <i>Chemico-Biological Interactions</i> , 2005 , 157-158, 159-65	5	28
21	Chemistry of insect antifeedants from <i>Azadirachta indica</i> (Part 10): synthesis of a highly functionalised decalin fragment of azadirachtin.. <i>Tetrahedron Letters</i> , 1991 , 32, 6187-6190	2	24
20	In vitro and in vivo evaluation of the caspase-3 substrate-based radiotracer [(18)F]-CP18 for PET imaging of apoptosis in tumors. <i>Molecular Imaging and Biology</i> , 2013 , 15, 748-57	3.8	23
19	Novel syntheses of polysubstituted pyrroles and oxazoles by 1,3-dipolar cycloaddition reactions of benzotriazole-stabilized nitrile ylides. <i>Journal of Heterocyclic Chemistry</i> , 2002 , 39, 759-765	1.9	22
18	Design and synthesis of sialyl Lex mimetics based on carbocyclic scaffolds derived from (R)-quinic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997 , 7, 2729-2734	2.9	21
17	Biodistribution and radiation dosimetry of the carbonic anhydrase IX imaging agent [(18) F]VM4-037 determined from PET/CT scans in healthy volunteers. <i>Molecular Imaging and Biology</i> , 2014 , 16, 739-46	3.8	20
16	Asymmetric Dihydroxylation		18

15	Asymmetric Dihydroxylation275-307		17
14	Synthesis of a C16-28 spiroacetal fragment of avermectin B1a and reassignment of some 1H and 13C resonances of avermectin B1a. <i>Tetrahedron Letters</i> , 1990 , 31, 3445-3448	2	16
13	Tau Positron Emission Tomography Imaging. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017 , 9,	10.2	15
12	Flow optimization study of a batch microfluidics PET tracer synthesizing device. <i>Biomedical Microdevices</i> , 2011 , 13, 231-42	3.7	15
11	Exploration of beta-turn scaffolding motifs as components of sialyl Le(X) mimetics and their relevance to P-selectin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998 , 8, 2803-8	2.9	14
10	Vergleich der bioaktiven Konformationen von Sialyl-LewisX und einem potenten Sialyl-LewisX-Mimetikum. <i>Angewandte Chemie</i> , 1997 , 109, 2715-2719	3.6	10
9	Design and synthesis of a macrocyclic E-Selectin antagonist. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997 , 7, 2629-2634	2.9	9
8	Radiolabeled hydroxamate-based matrix metalloproteinase inhibitors: How chemical modifications affect pharmacokinetics and metabolic stability. <i>Nuclear Medicine and Biology</i> , 2016 , 43, 424-37	2.1	8
7	From in situ to in vivo: an in situ click-chemistry-derived carbonic anhydrase II imaging agent for positron emission tomography. <i>ChemMedChem</i> , 2013 , 8, 43-8	3.7	8
6	Chemistry of insect antifeedants from <i>Azadirachta indica</i> (part 13): on the use of the intramolecular Diels-Alder reaction for the construction of trans-fused hydrobenzofuran fragments for azadirachtin synthesis. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1992 , 2763-2777		6
5	Synthesis, radiosynthesis, in vitro and first in vivo evaluation of a new matrix metalloproteinase inhibitor based on 18F-fluorinated 2-sulfonylamino-hydroxamic acid. <i>EJNMMI Radiopharmacy and Chemistry</i> , 2018 , 3, 10	5.8	5
4	Click Chemistry for Drug Discovery. <i>Methods and Principles in Medicinal Chemistry</i> , 2006 , 311-339	0.4	4
3	Evaluation of [F]-JNJ-64326067-AAA tau PET tracer in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 3302-3313	7.3	3
2	Diagnostic and prognostic performance to detect Alzheimer's disease and clinical progression of a novel assay for plasma p-tau217.. <i>Alzheimer's Research and Therapy</i> , 2022 , 14, 67	9	0
1	Radiosynthesis of [18F]Flotegatide ([18F]RGD-K5) 2015 , 29-40		