Hartmuth C Kolb

List of Publications by Year in Descending Order

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	Diagnostic and prognostic performance to detect Alzheimer's disease and clinical progression of a novel assay for plasma p-tau217.. *Alzheimer's Research and Therapy*, **2022**, 14, 67	9	0
67	Evaluation of [F]-JNJ-64326067-AAA tau PET tracer in humans. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 3302-3313	7.3	3
66	Synthesis, radiosynthesis, in vitro and first in vivo evaluation of a new matrix metalloproteinase inhibitor based on -Fluorinated -sulfonylaminohydroxamic acid. *EJNMMI Radiopharmacy and Chemistry*, **2018**, 3, 10	5.8	5
65	Tau Positron Emission Tomography Imaging. *Cold Spring Harbor Perspectives in Biology*, **2017**, 9,	10.2	15
64	Radiolabeled hydroxamate-based matrix metalloproteinase inhibitors: How chemical modifications affect pharmacokinetics and metabolic stability. *Nuclear Medicine and Biology*, **2016**, 43, 424-37	2.1	8
63	Radiosynthesis of [18F]Flotegatide ([18F]RGD-K5) **2015**, 29-40		
62	Tau Positron Emission Tomography (PET) Imaging: Past, Present, and Future. *Journal of Medicinal Chemistry*, **2015**, 58, 4365-82	8.3	77
61	Noninvasive molecular imaging of apoptosis in a mouse model of anthracycline-induced cardiotoxicity. *Circulation: Cardiovascular Imaging*, **2015**, 8, e001952	3.9	28
60	Atherosclerotic plaque uptake of a novel integrin tracer -Flotegatide in a mouse model of atherosclerosis. *Journal of Nuclear Cardiology*, **2014**, 21, 553-62	2.1	29
59	Biodistribution and radiation dosimetry of the carbonic anhydrase IX imaging agent [(18) F]VM4-037 determined from PET/CT scans in healthy volunteers. *Molecular Imaging and Biology*, **2014**, 16, 739-46	3.8	20
58	The clinical importance of assessing tumor hypoxia: relationship of tumor hypoxia to prognosis and therapeutic opportunities. *Antioxidants and Redox Signaling*, **2014**, 21, 1516-54	8.4	219
57	Early clinical PET imaging results with the novel PHF-tau radioligand [F18]-T808. *Journal of Alzheimer's Disease*, **2014**, 38, 171-84	4.3	199
56	In vitro and in vivo evaluation of the caspase-3 substrate-based radiotracer [(18)F]-CP18 for PET imaging of apoptosis in tumors. *Molecular Imaging and Biology*, **2013**, 15, 748-57	3.8	23
55	Evaluation of [(18)F]-CP18 as a PET imaging tracer for apoptosis. *Molecular Imaging and Biology*, **2013**, 15, 739-47	3.8	38
54	Biodistribution and radiation dosimetry of 18F-CP-18, a potential apoptosis imaging agent, as determined from PET/CT scans in healthy volunteers. *Journal of Nuclear Medicine*, **2013**, 54, 2087-92	8.9	31
53	Early clinical PET imaging results with the novel PHF-tau radioligand [F-18]-T807. *Journal of Alzheimer's Disease*, **2013**, 34, 457-68	4.3	511
52	From in situ to in vivo: an in situ click-chemistry-derived carbonic anhydrase II imaging agent for positron emission tomography. *ChemMedChem*, **2013**, 8, 43-8	3.7	8

51	[(18)F]T807, a novel tau positron emission tomography imaging agent for Alzheimer's disease. *Alzheimer's and Dementia*, **2013**, 9, 666-76	1.2	421
50	Batch-reactor microfluidic device: first human use of a microfluidically produced PET radiotracer. *Lab on A Chip*, **2013**, 13, 136-45	7.2	56
49	A highly selective and specific PET tracer for imaging of tau pathologies. *Journal of Alzheimer's Disease*, **2012**, 31, 601-12	4.3	143
48	Biodistribution and radiation dosimetry of the integrin marker 18F-RGD-K5 determined from whole-body PET/CT in monkeys and humans. *Journal of Nuclear Medicine*, **2012**, 53, 787-95	8.9	75
47	□F-HX4 hypoxia imaging with PET/CT in head and neck cancer: a comparison with □F-FMISO. *Nuclear Medicine Communications*, **2012**, 33, 1096-102	1.6	71
46	Flow optimization study of a batch microfluidics PET tracer synthesizing device. *Biomedical Microdevices*, **2011**, 13, 231-42	3.7	15
45	Preclinical evaluation and validation of [18F]HX4, a promising hypoxia marker for PET imaging. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 14620-5	11.5	109
44	Applications of click chemistry in radiopharmaceutical development. *Chimia*, **2010**, 64, 29-33	1.3	29
43	Design and optimization of coin-shaped microreactor chips for PET radiopharmaceutical synthesis. *Journal of Nuclear Medicine*, **2010**, 51, 282-7	8.9	79
42	Biodistribution and radiation dosimetry of the hypoxia marker 18F-HX4 in monkeys and humans determined by using whole-body PET/CT. *Nuclear Medicine Communications*, **2010**, 31, 1016-24	1.6	38
41	An integrated microfluidic device for large-scale in situ click chemistry screening. *Lab on A Chip*, **2009**, 9, 2281-5	7.2	80
40	The synthesis of azadirachtin: a potent insect antifeedant. *Chemistry - A European Journal*, **2008**, 14, 10683704	4.8	44
39	Inhibitors of HIV-1 protease by using in situ click chemistry. *Angewandte Chemie - International Edition*, **2006**, 45, 1435-9	16.4	424
38	Integrated microfluidics for parallel screening of an in situ click chemistry library. *Angewandte Chemie - International Edition*, **2006**, 45, 5276-81	16.4	139
37	Click Chemistry for Drug Discovery. *Methods and Principles in Medicinal Chemistry*, **2006**, 311-339	0.4	4
36	Inhibitors of HIV-1 Protease by Using In Situ Click Chemistry. *Angewandte Chemie*, **2006**, 118, 1463-1467	3.6	63
35	Integrated Microfluidics for Parallel Screening of an In Situ Click Chemistry Library. *Angewandte Chemie*, **2006**, 118, 5402-5407	3.6	35
34	In situ selection of lead compounds by click chemistry: target-guided optimization of acetylcholinesterase inhibitors. *Journal of the American Chemical Society*, **2005**, 127, 6686-92	16.4	290

33	Multistep synthesis of a radiolabeled imaging probe using integrated microfluidics. *Science*, **2005**, 310, 1793-6	33.3	428
32	Structural insights into conformational flexibility at the peripheral site and within the active center gorge of AChE. *Chemico-Biological Interactions*, **2005**, 157-158, 159-65	5	28
31	"On water": unique reactivity of organic compounds in aqueous suspension. *Angewandte Chemie - International Edition*, **2005**, 44, 3275-9	16.4	1306
30	In Situ Click Chemistry: Enzyme-Generated Inhibitors of Carbonic Anhydrase II. *Angewandte Chemie*, **2005**, 117, 118-122	3.6	43
29	Freeze-frame inhibitor captures acetylcholinesterase in a unique conformation. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 1449-54	11.5	265
28	In situ click chemistry: enzyme inhibitors made to their own specifications. *Journal of the American Chemical Society*, **2004**, 126, 12809-18	16.4	364
27	In situ click chemistry: enzyme-generated inhibitors of carbonic anhydrase II. *Angewandte Chemie - International Edition*, **2004**, 44, 116-20	16.4	191
26	The growing impact of click chemistry on drug discovery. *Drug Discovery Today*, **2003**, 8, 1128-37	8.8	2630
25	Novel syntheses of polysubstituted pyrroles and oxazoles by 1,3-dipolar cycloaddition reactions of benzotriazole-stabilized nitrile ylides. *Journal of Heterocyclic Chemistry*, **2002**, 39, 759-765	1.9	22
24	Click-Chemie: diverse chemische Funktionalität mit einer Handvoll guter Reaktionen. *Angewandte Chemie*, **2001**, 113, 2056-2075	3.6	1456
23	Click Chemistry: Diverse Chemical Function from a Few Good Reactions. *Angewandte Chemie - International Edition*, **2001**, 40, 2004-2021	16.4	10193
22	Click Chemistry: Diverse Chemical Function from a Few Good Reactions. *Angewandte Chemie - International Edition*, **2001**, 40, 2004-2021	16.4	1637
21	Exploration of beta-turn scaffolding motifs as components of sialyl Le(X) mimetics and their relevance to P-selectin. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 2803-8	2.9	14
20	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation. 4. Electronic Effects in Amine-Accelerated Osmylations. *Journal of the American Chemical Society*, **1997**, 119, 1840-1858	16.4	107
19	Design and synthesis of a macrocyclic E-Selectin antagonist. *Bioorganic and Medicinal Chemistry Letters*, **1997**, 7, 2629-2634	2.9	9
18	Design and synthesis of sialyl Lex mimetics based on carbocyclic scaffolds derived from (−)-quinic acid. *Bioorganic and Medicinal Chemistry Letters*, **1997**, 7, 2729-2734	2.9	21
17	Comparison of the Bioactive Conformations of Sialyl LewisX and a Potent Sialyl LewisX Mimic. *Angewandte Chemie International Edition in English*, **1997**, 36, 2603-2607		33
16	Vergleich der bioaktiven Konformationen von Sialyl-LewisX und einem potenten Sialyl-LewisX-Mimetikum. *Angewandte Chemie*, **1997**, 109, 2715-2719	3.6	10

15	Development of Tools for the Design of Selectin Antagonists. *Chemistry - A European Journal*, **1997**, 3, 1571-1578	4.8	85
14	Comparing two models for the selectivity in the asymmetric dihydroxylation reaction (AD). *Tetrahedron Letters*, **1994**, 35, 7315-7318	2	37
13	Catalytic Asymmetric Dihydroxylation. *Chemical Reviews*, **1994**, 94, 2483-2547	68.1	3173
12	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation. 2. A Qualitative Molecular Mechanics Approach. *Journal of the American Chemical Society*, **1994**, 116, 8470-8478	16.4	93
11	Toward an Understanding of the High Enantioselectivity in the Osmium-Catalyzed Asymmetric Dihydroxylation (AD). 1. Kinetics. *Journal of the American Chemical Society*, **1994**, 116, 1278-1291	16.4	183
10	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. *Organometallics*, **1994**, 13, 344-347	3.8	63
9	Improved enantioselectivity in asymmetric dihydroxylations of terminal olefins using pyrimidine ligands. *Journal of Organic Chemistry*, **1993**, 58, 3785-3786	4.2	201
8	On "The origin of high enantioselectivity in the dihydroxylation of olefins using osmium tetraoxide and cinchona alkaloid catalysts". *Journal of the American Chemical Society*, **1993**, 115, 12226-12227	16.4	37
7	Chemistry of insect antifeedants from Azadirachta indica(part 13): on the use of the intramolecular Diels□Alder reaction for the construction of trans-fused hydrobenzofuran fragments for azadirachtin synthesis. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 2763-2777		6
6	Chemistry of insect antifeedants from Azadirachta indica(part 12): use of silicon as a control element in the synthesis of a highly functionalized decalin fragment of azadirachtin. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 2735		46
5	Chemistry of insect antifeedants from Azadirachta indica (Part 10): synthesis of a highly functionalised decalin fragment of azadirachtin.. *Tetrahedron Letters*, **1991**, 32, 6187-6190	2	24
4	Total synthesis of the anthelmintic macrolide avermectin B1a. *Journal of the Chemical Society Perkin Transactions 1*, **1991**, 667-692		92
3	Synthesis of a C16□C28 spiroacetal fragment of avermectin B1a and reassignment of some 1H and 13C resonances of avermectin B1a. *Tetrahedron Letters*, **1990**, 31, 3445-3448	2	16
2	Asymmetric Dihydroxylation275-307		17
1	Asymmetric Dihydroxylation219-242		18