

Hartmuth C Kolb

List of Publications by Year in descending order

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63
papers

30,314
citations

76326

40
h-index

106344

65
g-index

70
all docs

70
docs citations

70
times ranked

26727
citing authors

#	ARTICLE	IF	CITATIONS
1	Click Chemistry: Diverse Chemical Function from a Few Good Reactions. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2004-2021.	13.8	11,576
2	Catalytic Asymmetric Dihydroxylation. <i>Chemical Reviews</i> , 1994, 94, 2483-2547.	47.7	3,603
3	The growing impact of click chemistry on drug discovery. <i>Drug Discovery Today</i> , 2003, 8, 1128-1137.	6.4	2,880
4	Click Chemistry: Diverse Chemical Function from a Few Good Reactions. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2004-2021.	13.8	2,174
5	“On Water” Unique Reactivity of Organic Compounds in Aqueous Suspension. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3275-3279.	13.8	1,477
6	Early Clinical PET Imaging Results with the Novel PHF-Tau Radioligand [F-18]-T807. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 457-468.	2.6	598
7	[¹⁸ F]T807, a novel tau positron emission tomography imaging agent for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2013, 9, 666-676.	0.8	515
8	Multistep Synthesis of a Radiolabeled Imaging Probe Using Integrated Microfluidics. <i>Science</i> , 2005, 310, 1793-1796.	12.6	485
9	Inhibitors of HIV-1 Protease by Using In Situ Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1435-1439.	13.8	469
10	Early Clinical PET Imaging Results with the Novel PHF-Tau Radioligand [F18]-T808. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 171-184.	2.6	418
11	In Situ Click Chemistry: Enzyme Inhibitors Made to Their Own Specifications. <i>Journal of the American Chemical Society</i> , 2004, 126, 12809-12818.	13.7	395
12	The Clinical Importance of Assessing Tumor Hypoxia: Relationship of Tumor Hypoxia to Prognosis and Therapeutic Opportunities. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1516-1554.	5.4	323
13	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, 6686-6692.	13.7	318
14	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, 1449-1454.	7.1	297
15	Improved enantioselectivity in asymmetric dihydroxylations of terminal olefins using pyrimidine ligands. <i>Journal of Organic Chemistry</i> , 1993, 58, 3785-3786.	3.2	238
16	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.	13.7	220
17	In Situ Click Chemistry: Enzyme-Generated Inhibitors of Carbonic Anhydrase II. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 116-120.	13.8	216
18	A Highly Selective and Specific PET Tracer for Imaging of Tau Pathologies. <i>Journal of Alzheimer's Disease</i> , 2012, 31, 601-612.	2.6	164

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19	Integrated Microfluidics for Parallel Screening of an In Situ Click Chemistry Library. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5276-5281.	13.8	147
20	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.	13.7	128
21	Preclinical evaluation and validation of [¹⁸ F]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, 14620-14625.	7.1	121
22	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.	13.7	115
23	Total synthesis of the anthelmintic macrolide avermectin B1a. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 667-692.	0.9	106
24	Development of Tools for the Design of Selectin Antagonists. <i>Chemistry - A European Journal</i> , 1997, 3, 1571-1578.	3.3	96
25	An integrated microfluidic device for large-scale in situ click chemistry screening. <i>Lab on A Chip</i> , 2009, 9, 2281.	6.0	91
26	Biodistribution and Radiation Dosimetry of the Integrin Marker ¹⁸ F-RGD-K5 Determined from Whole-Body PET/CT in Monkeys and Humans. <i>Journal of Nuclear Medicine</i> , 2012, 53, 787-795.	5.0	89
27	Tau Positron Emission Tomography (PET) Imaging: Past, Present, and Future. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4365-4382.	6.4	88
28	Design and Optimization of Coin-Shaped Microreactor Chips for PET Radiopharmaceutical Synthesis. <i>Journal of Nuclear Medicine</i> , 2010, 51, 282-287.	5.0	86
29	¹⁸ F-HX4 hypoxia imaging with PET/CT in head and neck cancer. <i>Nuclear Medicine Communications</i> , 2012, 33, 1096-1102.	1.1	83
30	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.	2.3	75
31	Batch-reactor microfluidic device: first human use of a microfluidically produced PET radiotracer. <i>Lab on A Chip</i> , 2013, 13, 136-145.	6.0	65
32	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.	0.9	61
33	The Synthesis of Azadirachtin: A Potent Insect Antifeedant. <i>Chemistry - A European Journal</i> , 2008, 14, 10683-10704.	3.3	57
34	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.	13.7	54
35	In Situ Click Chemistry: Enzyme-Generated Inhibitors of Carbonic Anhydrase II. <i>Angewandte Chemie</i> , 2005, 117, 118-122.	2.0	48
36	Comparing two models for the selectivity in the asymmetric dihydroxylation reaction (AD). <i>Tetrahedron Letters</i> , 1994, 35, 7315-7318.	1.4	47

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37	Biodistribution and radiation dosimetry of the hypoxia marker ^{18}F -HX4 in monkeys and humans determined by using whole-body PET/CT. <i>Nuclear Medicine Communications</i> , 2010, 31, 1016-1024.	1.1	45
38	Evaluation of ^{18}F -CP18 as a PET Imaging Tracer for Apoptosis. <i>Molecular Imaging and Biology</i> , 2013, 15, 739-747.	2.6	44
39	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.	4.4	39
40	Biodistribution and Radiation Dosimetry of ^{18}F -CP-18, a Potential Apoptosis Imaging Agent, as Determined from PET/CT Scans in Healthy Volunteers. <i>Journal of Nuclear Medicine</i> , 2013, 54, 2087-2092.	5.0	39
41	Noninvasive Molecular Imaging of Apoptosis in a Mouse Model of Anthracycline-Induced Cardiotoxicity. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, e001952.	2.6	36
42	Applications of Click Chemistry in Radiopharmaceutical Development. <i>Chimia</i> , 2010, 64, 29.	0.6	34
43	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.	1.4	33
44	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, 553-562.	2.1	33
45	Click chemistry connections for functional discovery. , 2022, 1, 8-10.		32
46	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, 159-165.	4.0	30
47	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, 748-757.	2.6	27
48	Synthesis of a C16-C28 spiroacetal fragment of avermectin B1a and reassignment of some ^1H and ^{13}C resonances of avermectin B1a. <i>Tetrahedron Letters</i> , 1990, 31, 3445-3448.	1.4	25
49	Tau Positron Emission Tomography Imaging. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a023721.	5.5	24
50	Design and synthesis of sialyl Lex mimetics based on carbocyclic scaffolds derived from (α^+) quinic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 2729-2734.	2.2	23
51	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.	2.6	23
52	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, 739-746.	2.6	23
53	Exploration of β -turn scaffolding motifs as components of sialyl LeX mimetics and their relevance to P-selectin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 2803-2808.	2.2	18
54	Flow optimization study of a batch microfluidics PET tracer synthesizing device. <i>Biomedical Microdevices</i> , 2011, 13, 231-242.	2.8	18

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55	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.	6.2	18
56	Evaluation of [¹⁸ F]-JNJ-64326067-AAA tau PET tracer in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 3302-3313.	4.3	15
57	Vergleich der bioaktiven Konformationen von Sialyl-Lewis ^X und einem potenten Sialyl-Lewis ^X -Mimetikum. <i>Angewandte Chemie</i> , 1997, 109, 2715-2719.	2.0	14
58	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, 43-48.	3.2	13
59	Design and synthesis of a macrocyclic E-Selectin antagonist. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 2629-2634.	2.2	11
60	Radiolabeled hydroxamate-based matrix metalloproteinase inhibitors: How chemical modifications affect pharmacokinetics and metabolic stability. <i>Nuclear Medicine and Biology</i> , 2016, 43, 424-437.	0.6	9
61	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.	0.9	7
62	Synthesis, radiosynthesis, in vitro and first in vivo evaluation of a new matrix metalloproteinase inhibitor based on ¹³ C-fluorinated \pm -sulfonylamino hydroxamic acid. <i>EJNMMI Radiopharmacy and Chemistry</i> , 2018, 3, 10.	3.9	7
63	Novel Syntheses of Polysubstituted Pyrroles and Oxazoles by 1,3-Dipolar Cycloaddition Reactions of Benzotriazole-Stabilized Nitrile Ylides. <i>ChemInform</i> , 2002, 33, 103-103.	0.0	0