

Hannes Mikula

List of Publications by Year in descending order

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66
papers

2,110
citations

257450

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h-index

243625

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g-index

80
all docs

80
docs citations

80
times ranked

2458
citing authors

#	ARTICLE	IF	CITATIONS
1	7 Tetrazine-Based Cycloadditions in Click Chemistry. , 2022, , .		1
2	Synergistic Experimental and Computational Investigation of the Bioorthogonal Reactivity of Substituted Aryltetrazines. <i>Bioconjugate Chemistry</i> , 2022, 33, 608-624.	3.6	10
3	Overcoming differential tumor penetration of BRAF inhibitors using computationally guided combination therapy. <i>Science Advances</i> , 2022, 8, eabl6339.	10.3	6
4	Uncovering the Key Role of Distortion in Bioorthogonal Tetrazine Tools That Defy the Reactivity/Stability Trade-Off. <i>Journal of the American Chemical Society</i> , 2022, 144, 8171-8177.	13.7	38
5	Spatiotemporal multiplexed immunofluorescence imaging of living cells and tissues with bioorthogonal cycling of fluorescent probes. <i>Nature Biotechnology</i> , 2022, 40, 1654-1662.	17.5	42
6	Direct Cu-mediated aromatic ¹⁸ F-labeling of highly reactive tetrazines for pretargeted bioorthogonal PET imaging. <i>Chemical Science</i> , 2021, 12, 11668-11675.	7.4	36
7	Lipophilicity and Click Reactivity Determine the Performance of Bioorthogonal Tetrazine Tools in Pretargeted <i>In Vivo</i> Chemistry. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 824-833.	4.9	45
8	Therapeutically reprogrammed nutrient signalling enhances nanoparticulate albumin bound drug uptake and efficacy in KRAS-mutant cancer. <i>Nature Nanotechnology</i> , 2021, 16, 830-839.	31.5	55
9	Development of the First Aliphatic ¹⁸ F-Labeled Tetrazine Suitable for Pretargeted PET Imaging—Expanding the Bioorthogonal Tool Box. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15297-15312.	6.4	25
10	<i>Trans</i> -Cyclooctene-Functionalized PeptoBrushes with Improved Reaction Kinetics of the Tetrazine Ligation for Pretargeted Nuclear Imaging. <i>ACS Nano</i> , 2020, 14, 568-584.	14.6	50
11	Improved Cyclohexanone Vapor Detection via Gravimetric Sensing. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 1253-1263.	2.5	1
12	A Cleavable C ₂ -Symmetric <i>trans</i> -Cyclooctene Enables Fast and Complete Bioorthogonal Disassembly of Molecular Probes. <i>Journal of the American Chemical Society</i> , 2020, 142, 19132-19141.	13.7	35
13	Fate of free and modified <i>Alternaria</i> mycotoxins during the production of apple concentrates. <i>Food Control</i> , 2020, 118, 107388.	5.5	15
14	Tetrazine- and <i>trans</i> -cyclooctene-functionalised polypept(o)ides for fast bioorthogonal tetrazine ligation. <i>Polymer Chemistry</i> , 2020, 11, 4396-4407.	3.9	25
15	Live Monitoring of Strain-Promoted Azide Alkyne Cycloadditions in Complex Reaction Environments by Inline ATR-FTIR Spectroscopy. <i>Chemistry - A European Journal</i> , 2020, 26, 9851-9854.	3.3	5
16	A click-flipped enzyme substrate boosts the performance of the diagnostic screening for Hunter syndrome. <i>Chemical Science</i> , 2020, 11, 12671-12676.	7.4	1
17	HPMA-Based Nanoparticles for Fast, Bioorthogonal iEDDA Ligation. <i>Biomacromolecules</i> , 2019, 20, 3786-3797.	5.4	9
18	Secondary Orbital Interactions Enhance the Reactivity of Alkynes in Diels-Alder Cycloadditions. <i>Journal of the American Chemical Society</i> , 2019, 141, 2224-2227.	13.7	16

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19	Multifunctional Clickable Reagents for Rapid Bioorthogonal Astatination and Radio- α -Crosslinking. <i>ChemPlusChem</i> , 2019, 84, 774-774.	2.8	2
20	Cross-Isotopic Bioorthogonal Tools as Molecular Twins for Radiotheranostic Applications. <i>ChemBioChem</i> , 2019, 20, 1530-1535.	2.6	6
21	Multifunctional Clickable Reagents for Rapid Bioorthogonal Astatination and Radio- α -Crosslinking. <i>ChemPlusChem</i> , 2019, 84, 775-778.	2.8	10
22	2- <i>O</i> -Benzyloxycarbonyl protected glycosyl donors: a revival of carbonate-mediated anchimeric assistance for diastereoselective glycosylation. <i>Chemical Communications</i> , 2019, 55, 12543-12546.	4.1	9
23	Convenient Entry to ^{18}F -Labeled Amines through the Staudinger Reduction. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 1722-1725.	2.4	6
24	Chemoselectivity of Tertiary Azides in Strain-Promoted Alkyne-Azide Cycloadditions. <i>Chemistry - A European Journal</i> , 2019, 25, 754-758.	3.3	43
25	Chemical synthesis of culmorin metabolites and their biologic role in culmorin and acetyl-culmorin treated wheat cells. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 2043-2048.	2.8	18
26	Chemical Glucosylation of Labile Natural Products Using a (2-Nitrophenyl)acetyl-Protected Glucosyl Acetimidate Donor. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2701-2706.	2.4	1
27	Acylation-Mediated Kinetic Turn-On TM of 3-Amino-1,2,4,5-tetrazines. <i>Synlett</i> , 2018, 29, 1297-1302.	1.8	13
28	Unraveling Tetrazine-Triggered Bioorthogonal Elimination Enables Chemical Tools for Ultrafast Release and Universal Cleavage. <i>Journal of the American Chemical Society</i> , 2018, 140, 3603-3612.	13.7	128
29	An integrated in silico/in vitro approach to assess the xenoestrogenic potential of <i>Alternaria</i> mycotoxins and metabolites. <i>Food Chemistry</i> , 2018, 248, 253-261.	8.2	57
30	A computational model to predict the Diels-Alder reactivity of aryl/alkyl-substituted tetrazines. <i>Monatshefte für Chemie</i> , 2018, 149, 833-837.	1.8	14
31	Site occupancy calibration of taxane pharmacology in live cells and tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11406-E11414.	7.1	22
32	Rapid and Modular Assembly of Click Substrates To Assay Enzyme Activity in the Newborn Screening of Lysosomal Storage Disorders. <i>ACS Central Science</i> , 2018, 4, 1688-1696.	11.3	10
33	Modular Nanoparticulate Prodrug Design Enables Efficient Treatment of Solid Tumors Using Bioorthogonal Activation. <i>ACS Nano</i> , 2018, 12, 12814-12826.	14.6	72
34	(2-Benzyloxyphenyl)acetyl (BnPAC): A Participating Relay Protecting Group for Diastereoselective Glycosylation and the Synthesis of 1,2-trans Glycosyl Esters. <i>Synlett</i> , 2018, 29, 2265-2268.	1.8	5
35	Tracking emerging mycotoxins in food: development of an LC-MS/MS method for free and modified <i>Alternaria</i> toxins. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4481-4494.	3.7	93
36	Synthesis, characterization and printing application of alkylated indolo[3,2-b]carbazoles. <i>Synthetic Metals</i> , 2017, 228, 9-17.	3.9	16

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37	Synthesis of Isotope-Labeled Deoxynivalenol-15-O-Glycosides. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 7012-7018.	2.4	2
38	Front Cover: Synthesis of Isotope-Labeled Deoxynivalenol-15-O-Glycosides (<i>Eur. J. Org. Chem.</i> 47/2017). <i>European Journal of Organic Chemistry</i> , 2017, 2017, 7005-7005.	2.4	1
39	Nano-palladium is a cellular catalyst for in vivo chemistry. <i>Nature Communications</i> , 2017, 8, 15906.	12.8	210
40	[¹⁸ F]Fluoroalkyl azides for rapid radiolabeling and (Re)investigation of their potential towards in vivo click chemistry. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5976-5982.	2.8	13
41	Impact of phase I metabolism on uptake, oxidative stress and genotoxicity of the emerging mycotoxin alternariol and its monomethyl ether in esophageal cells. <i>Archives of Toxicology</i> , 2017, 91, 1213-1226.	4.2	27
42	Design and Development of Fluorescent Vemurafenib Analogs for <i>In Vivo</i> Imaging. <i>Theranostics</i> , 2017, 7, 1257-1265.	10.0	16
43	Validated UPLC-MS/MS Methods To Quantitate Free and Conjugated <i>Alternaria</i> Toxins in Commercially Available Tomato Products and Fruit and Vegetable Juices in Belgium. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 5101-5109.	5.2	95
44	Fluorescent vinblastine probes for live cell imaging. <i>Chemical Communications</i> , 2016, 52, 9953-9956.	4.1	10
45	Design, Synthesis, and Evaluation of a Low-Molecular-Weight ¹¹ C-Labeled Tetrazine for Pretargeted PET Imaging Applying Bioorthogonal in Vivo Click Chemistry. <i>Bioconjugate Chemistry</i> , 2016, 27, 1707-1712.	3.6	73
46	Efficient low-cost preparation of <i>trans</i> -cyclooctenes using a simplified flow setup for photoisomerization. <i>Monatshefte für Chemie</i> , 2016, 147, 579-585.	1.8	17
47	Optimized Near-IR Fluorescent Agents for in Vivo Imaging of Btk Expression. <i>Bioconjugate Chemistry</i> , 2015, 26, 1513-1518.	3.6	46
48	Synthesis of zearalenone-16- ¹² D-glucoside and zearalenone-16-sulfate: A tale of protecting resorcylic acid lactones for regiocontrolled conjugation. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1129-1134.	2.2	15
49	Methylthiodeoxynivalenol (MTD): insight into the chemistry, structure and toxicity of thia-Michael adducts of trichothecenes. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5144.	2.8	20
50	Development of a ¹⁸ F-Labeled Tetrazine with Favorable Pharmacokinetics for Bioorthogonal PET Imaging. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9655-9659.	13.8	108
51	Isolation and Structure Elucidation of Pentahydroxyscirpene, a Trichothecene Fusarium Mycotoxin. <i>Journal of Natural Products</i> , 2014, 77, 188-192.	3.0	10
52	DFT study of the Lewis acid mediated synthesis of 3-acyltetramic acids. <i>Journal of Molecular Modeling</i> , 2014, 20, 2181.	1.8	1
53	Stereoselective Luche Reduction of Deoxynivalenol and Three of Its Acetylated Derivatives at C8. <i>Toxins</i> , 2014, 6, 325-336.	3.4	11
54	Development and validation of an ultra-high-performance liquid chromatography tandem mass spectrometric method for the simultaneous determination of free and conjugated <i>Alternaria</i> toxins in cereal-based foodstuffs. <i>Journal of Chromatography A</i> , 2014, 1372, 91-101.	3.7	75

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55	Sulfation of deoxynivalenol, its acetylated derivatives, and T2-toxin. <i>Tetrahedron</i> , 2014, 70, 5260-5266.	1.9	16
56	Simultaneous preparation of $\hat{1}\pm/\hat{1}^2$ -zearalenol glucosides and glucuronides. <i>Carbohydrate Research</i> , 2013, 373, 59-63.	2.3	22
57	Improved and large-scale synthesis of different protected d-glucuronals. <i>Carbohydrate Research</i> , 2013, 370, 19-23.	2.3	6
58	Total synthesis of masked <i>Alternaria</i> mycotoxins' sulfates and glucosides of alternariol (AOH) and alternariol-9-methyl ether (AME). <i>Tetrahedron</i> , 2013, 69, 10322-10330.	1.9	36
59	Practical and Efficient Large-Scale Preparation of Dimethyldioxirane. <i>Organic Process Research and Development</i> , 2013, 17, 313-316.	2.7	53
60	Zearalenone Mimics: Synthesis of (E)-6-(1-Alkenyl)-substituted $\hat{1}^2$ -Resorcylic Acid Esters. <i>Synthetic Communications</i> , 2013, 43, 1939-1946.	2.1	7
61	Structure and tautomerism of tenuazonic acid ' A synergetic computational and spectroscopic approach. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 308-317.	12.4	25
62	Sulfation of $\hat{1}^2$ -resorcylic acid esters' first synthesis of zearalenone-14-sulfate. <i>Tetrahedron Letters</i> , 2013, 54, 3290-3293.	1.4	15
63	Gentiobiosylation of $\hat{1}^2$ -Resorcylic Acid Esters and Lactones: First Synthesis and Characterization of Zearalenone-14- $\hat{1}^2$,d-Gentiobioside. <i>Synlett</i> , 2013, 24, 1830-1834.	1.8	5
64	Fast and reproducible chemical synthesis of zearalenone-14- $\hat{1}^2$,D-glucuronide. <i>World Mycotoxin Journal</i> , 2012, 5, 289-296.	1.4	28
65	Development and validation of a rapid multi'biomarker liquid chromatography/tandem mass spectrometry method to assess human exposure to mycotoxins. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1533-1540.	1.5	121
66	Glucuronidation of zearalenone, zearanol and four metabolites <i>in vitro</i> : Formation of glucuronides by various microsomes and human UDP-glucuronosyltransferase isoforms. <i>Molecular Nutrition and Food Research</i> , 2010, 54, 1468-1476.	3.3	67