

Mark Nitz

List of Publications by Year in descending order

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81
papers

2,926
citations

172207

29
h-index

189595

50
g-index

96
all docs

96
docs citations

96
times ranked

3811
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly multiparametric analysis by mass cytometry. <i>Journal of Immunological Methods</i> , 2010, 361, 1-20.	0.6	328
2	Polymer-Based Elemental Tags for Sensitive Bioassays. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6111-6114.	7.2	247
3	Study of Cell Antigens and Intracellular DNA by Identification of Element-Containing Labels and Metallointercalators Using Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 2539-2547.	3.2	128
4	Development of analytical methods for multiplex bio-assay with inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 463.	1.6	115
5	Synthesis of a Functional Metal-Chelating Polymer and Steps toward Quantitative Mass Cytometry Bioassays. <i>Analytical Chemistry</i> , 2010, 82, 8961-8969.	3.2	105
6	Flow cytometer with mass spectrometer detection for massively multiplexed single-cell biomarker assay. <i>Pure and Applied Chemistry</i> , 2008, 80, 2627-2641.	0.9	97
7	Cell-type-specific signaling networks in heterocellular organoids. <i>Nature Methods</i> , 2020, 17, 335-342.	9.0	75
8	Pattern-Based Recognition of Heparin Contaminants by an Array of Self-Assembling Fluorescent Receptors. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1995-1997.	7.2	66
9	The Structure- and Metal-dependent Activity of Escherichia coli PgaB Provides Insight into the Partial De-N-acetylation of Poly- β -1,6-N-acetyl-d-glucosamine. <i>Journal of Biological Chemistry</i> , 2012, 287, 31126-31137.	1.6	65
10	Synthesis of scyllo-inositol derivatives and their effects on amyloid beta peptide aggregation. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7177-7184.	1.4	64
11	Designing Fluorescent Sensors of Heparin. <i>ChemBioChem</i> , 2007, 8, 391-394.	1.3	63
12	PgaB orthologues contain a glycoside hydrolase domain that cleaves deacetylated poly- β (1,6)-N-acetylglucosamine and can disrupt bacterial biofilms. <i>PLoS Pathogens</i> , 2018, 14, e1006998.	2.1	59
13	Protecting Group Free Glycosidations Using <i>p</i> -Toluenesulfonylhydrazide Donors. <i>Organic Letters</i> , 2008, 10, 3461-3463.	2.4	56
14	Small molecule β -amyloid inhibitors that stabilize protofibrillar structures <i>in vitro</i> improve cognition and pathology in a mouse model of Alzheimer's disease. <i>European Journal of Neuroscience</i> , 2010, 31, 203-213.	1.2	53
15	Characterization of the Poly- β -1,6- N-Acetylglucosamine Polysaccharide Component of Burkholderia Biofilms. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8303-8309.	1.4	50
16	Modification and periplasmic translocation of the biofilm exopolysaccharide poly- β -1,6- N-acetyl- <i>D</i> -glucosamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11013-11018.	3.3	48
17	Improving Lanthanide Nanocrystal Colloidal Stability in Competitive Aqueous Buffer Solutions using Multivalent PEG-Phosphonate Ligands. <i>Langmuir</i> , 2012, 28, 12861-12870.	1.6	44
18	Modulation of amyloid β aggregation and toxicity by inosose stereoisomers. <i>FEBS Journal</i> , 2008, 275, 1663-1674.	2.2	43

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19	Stability studies of hydrazide and hydroxylamine-based glycoconjugates in aqueous solution. <i>Carbohydrate Research</i> , 2009, 344, 278-284.	1.1	43
20	Quantification of Surface Ligands on NaYF ₄ Nanoparticles by Three Independent Analytical Techniques. <i>Chemistry of Materials</i> , 2015, 27, 4899-4910.	3.2	39
21	Identification of Hypoxic Cells Using an Organotellurium Tag Compatible with Mass Cytometry. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11473-11477.	7.2	37
22	Organotellurium scaffolds for mass cytometry reagent development. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7027-7033.	1.5	36
23	Ega3 from the fungal pathogen <i>Aspergillus fumigatus</i> is an endo- α -1,4-galactosaminidase that disrupts microbial biofilms. <i>Journal of Biological Chemistry</i> , 2019, 294, 13833-13849.	1.6	35
24	Efficient synthesis and protein conjugation of β -(1 \rightarrow 6)-d-N-acetylglucosamine oligosaccharides from the polysaccharide intercellular adhesin. <i>Carbohydrate Research</i> , 2009, 344, 570-575.	1.1	34
25	Sodium/myo-Inositol Transporters: Substrate Transport Requirements and Regional Brain Expression in the TgCRND8 Mouse Model of Amyloid Pathology. <i>PLoS ONE</i> , 2011, 6, e24032.	1.1	34
26	Lanthanide nanoparticles for high sensitivity multiparameter single cell analysis. <i>Chemical Science</i> , 2019, 10, 2965-2974.	3.7	34
27	Development of inductively coupled plasma-mass spectrometry-based protease assays. <i>Analytical Biochemistry</i> , 2010, 398, 93-98.	1.1	33
28	Functional PEG-PAMAM-Tetraphosphonate Capped NaLnF ₄ Nanoparticles and their Colloidal Stability in Phosphate Buffer. <i>Langmuir</i> , 2014, 30, 6980-6989.	1.6	33
29	Functional Characterization of <i>Staphylococcus epidermidis</i> IcaB, a De-N-acetylase Important for Biofilm Formation. <i>Biochemistry</i> , 2013, 52, 5463-5471.	1.2	32
30	Isotopologous Organotellurium Probes Reveal Dynamic Hypoxia In Vivo with Cellular Resolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13159-13163.	7.2	32
31	Protecting-Group-Free Synthesis of Glycosyl Phosphates. <i>Organic Letters</i> , 2012, 14, 4226-4229.	2.4	31
32	The Protein BpsB Is a Poly- β -1,6-N-acetyl-d-glucosamine Deacetylase Required for Biofilm Formation in <i>Bordetella bronchiseptica</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 22827-22840.	1.6	31
33	Development of mass cytometry methods for bacterial discrimination. <i>Analytical Biochemistry</i> , 2011, 419, 1-8.	1.1	30
34	Peptide-glycosaminoglycan cluster formation involving cell penetrating peptides. <i>Biopolymers</i> , 2011, 95, 722-731.	1.2	30
35	ICP-MS-Based Multiplex Profiling of Glycoproteins Using Lectins Conjugated to Lanthanide-Chelating Polymers. <i>Journal of Proteome Research</i> , 2009, 8, 443-449.	1.8	29
36	Importance of the spatial display of charged residues in heparin-peptide interactions. <i>Biopolymers</i> , 2010, 93, 290-298.	1.2	29

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37	Multiplexed protease assays using element-tagged substrates. <i>Analytical Biochemistry</i> , 2011, 408, 157-159.	1.1	28
38	Use of <i>N,O</i> -Dimethylhydroxylamine As an Anomeric Protecting Group in Carbohydrate Synthesis. <i>Journal of Organic Chemistry</i> , 2011, 76, 1918-1921.	1.7	26
39	Allosteric modulation of the adenosine A2A receptor by cholesterol. <i>ELife</i> , 2022, 11, .	2.8	25
40	Structural Basis for the De-N-acetylation of Poly- β -1,6-N-acetyl-d-glucosamine in Gram-positive Bacteria. <i>Journal of Biological Chemistry</i> , 2014, 289, 35907-35917.	1.6	24
41	Multiplexed single-cell analysis of organoid signaling networks. <i>Nature Protocols</i> , 2021, 16, 4897-4918.	5.5	23
42	Remarkably stable inclusion complexes with heptakis-[6-deoxy-6-(2-aminoethylsulfanyl)]- β -cyclodextrin. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 4622.	1.5	22
43	Synthesis and evaluation of inhibitors of <i>E. coli</i> PgaB, a polysaccharide de-N-acetylase involved in biofilm formation. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7103.	1.5	22
44	A High-Sensitivity Lanthanide Nanoparticle Reporter for Mass Cytometry: Tests on Microgels as a Proxy for Cells. <i>Langmuir</i> , 2014, 30, 3142-3153.	1.6	22
45	Tellurium-based mass cytometry barcode for live and fixed cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 685-694.	1.1	22
46	TePhe, a tellurium-containing phenylalanine mimic, allows monitoring of protein synthesis in vivo with mass cytometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8155-8160.	3.3	22
47	A β -galactosidase probe for the detection of cellular senescence by mass cytometry. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6388-6392.	1.5	21
48	The synthesis and photophysical properties of halide sensitive acridinium dyes. <i>Dyes and Pigments</i> , 2009, 81, 161-165.	2.0	17
49	Synthesis and preliminary biological evaluations of [18F]-1-deoxy-1-fluoro-scylo-inositol. <i>Chemical Communications</i> , 2009, , 5527.	2.2	17
50	Protecting-group-free O-glycosidation using p-toluenesulfonylhydrazide and glycosyl chloride donors. <i>Carbohydrate Research</i> , 2014, 386, 73-77.	1.1	16
51	Evaluation of a Ruthenium coordination complex as photosensitizer for PDT of bladder cancer: Cellular response, tissue selectivity and in vivo response. <i>Translational Biophotonics</i> , 2020, 2, e201900032.	1.4	16
52	In Vivo Uptake of β -Amyloid by Non-Plaque Associated Microglia. <i>Current Alzheimer Research</i> , 2012, 9, 890-901.	0.7	15
53	Combining <i>in situ</i> proteolysis and mass spectrometry to crystallize <i>Escherichia coli</i> PgaB. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 842-845.	0.7	14
54	DNA directed damage using a brominated DAPI derivative. <i>Chemical Communications</i> , 2019, 55, 9971-9974.	2.2	13

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55	An Inactive Dispersin B Probe for Monitoring PNAG Production in Biofilm Formation. ACS Chemical Biology, 2020, 15, 1204-1211.	1.6	13
56	Mono-acylation of a polyamine- β -cyclodextrin based on guest mediated acyl migration. Chemical Communications, 2011, 47, 8614.	2.2	11
57	Direct Staudinger-Phosponite Reaction Provides Methylphosphonamidates as Inhibitors of CE4 De-N-acetylases. ChemBioChem, 2015, 16, 1350-1356.	1.3	11
58	Synthesis of defined mono-de-N-acetylated β -(1 \rightarrow 6)-N-acetyl-d-glucosamine oligosaccharides to characterize PgaB hydrolase activity. Organic and Biomolecular Chemistry, 2019, 17, 9456-9466.	1.5	11
59	Heparin Dependent Coiled-Coil Formation. ChemBioChem, 2008, 9, 1545-1548.	1.3	10
60	β (1-42) Assembly in the Presence of <i>scyllo</i> -Inositol Derivatives: Identification of an Oxime Linkage as Important for the Development of Assembly Inhibitors. ACS Chemical Neuroscience, 2012, 3, 167-177.	1.7	10
61	Monosaccharide inhibitors targeting carbohydrate esterase family 4 de-N-acetylases. Bioorganic and Medicinal Chemistry, 2018, 26, 5631-5643.	1.4	10
62	PelX is a UDP-N-acetylglucosamine C4-epimerase involved in Pel polysaccharide-dependent biofilm formation. Journal of Biological Chemistry, 2020, 295, 11949-11962.	1.6	10
63	Isotopologous Organotellurium Probes Reveal Dynamic Hypoxia In Vivo with Cellular Resolution. Angewandte Chemie, 2016, 128, 13353-13357.	1.6	9
64	Synthesis of C6-substituted UDP-GlcNAc derivatives. Carbohydrate Research, 2020, 495, 108071.	1.1	9
65	A new ELISA assay demonstrates sex differences in the concentration of serum polysialic acid. Analytical Biochemistry, 2020, 600, 113743.	1.1	9
66	Chromogenic Carbamate and Acetal Substrates for Glycosaminidases. Journal of Carbohydrate Chemistry, 2011, 30, 549-558.	0.4	8
67	TBAF Effects 3,6-Anhydro Formation from 6-O-Tosyl Pyranosides. Organic Letters, 2020, 22, 1453-1457.	2.4	8
68	Synthesis of a core disaccharide from the Streptococcus pneumoniae type 23F capsular polysaccharide antigen. Carbohydrate Research, 2010, 345, 2282-2286.	1.1	7
69	Access to Versatile β -Cyclodextrin Scaffolds through Guest-Mediated Monoacylation. Chemistry - A European Journal, 2016, 22, 1062-1069.	1.7	6
70	Highly Functionalized β -Cyclodextrins by Solid-Supported Synthesis. Chemistry - A European Journal, 2018, 24, 4459-4467.	1.7	6
71	Applications of an inactive Dispersin B probe to monitor biofilm polysaccharide production. Methods in Enzymology, 2022, 665, 209-231.	0.4	6
72	Structural and functional analysis of de-N-acetylase PgaB from periodontopathogen <i>Aggregatibacter actinomycetemcomitans</i> . Molecular Oral Microbiology, 2017, 32, 324-340.	1.3	5

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73	Signal Amplification for Imaging Mass Cytometry. <i>Bioconjugate Chemistry</i> , 2019, 30, 2805-2810.	1.8	5
74	Methods for analyzing tellurium imaging mass cytometry data. <i>PLoS ONE</i> , 2019, 14, e0221714.	1.1	5
75	Intrinsic Turn-On Response of Thioflavin-T in Complexes. <i>Chemistry - A European Journal</i> , 2020, 26, 3479-3483.	1.7	5
76	Site specific protein O-glycosylation with bacterial toxins. <i>Chemical Communications</i> , 2016, 52, 13024-13026.	2.2	4
77	Efficacy of ruthenium coordination complex-based Rutherrin in a preclinical rat glioblastoma model. <i>Neuro-Oncology Advances</i> , 2019, 1, vdz006.	0.4	4
78	Validation of Tellurienylalanine as a Phenylalanine Isostere. <i>ChemBioChem</i> , 2020, 21, 1136-1139.	1.3	4
79	Termination of Poly-N-acetylglucosamine (PNAG) Polymerization with N-Acetylglucosamine Analogues. <i>ACS Chemical Biology</i> , 2022, 17, 3036-3046.	1.6	4
80	An Iodinated DAPI-Based Reagent for Mass Cytometry. <i>ChemBioChem</i> , 2021, 22, 532-538.	1.3	2
81	Incorporation of TePhe into Expressed Proteins is Minimally Perturbing. <i>ChemBioChem</i> , 2021, 22, 2449-2456.	1.3	1