Michael D Best

List of Publications by Year
in descending order

51 papers	2,245 citations	331538 21 h-index	214721 47 g-index
56 all docs	56 docs citations	56 times ranked	3303 citing authors

#	Article	IF	Citations
1	Click Chemistry and Bioorthogonal Reactions: Unprecedented Selectivity in the Labeling of Biological Molecules. Biochemistry, 2009, 48, 6571-6584.	1.2	563
2	Abiotic guanidinium containing receptors for anionic species. Coordination Chemistry Reviews, 2003, 240, 3-15.	9.5	351
3	Carbohydrate microarray for profiling the antibodies interacting with Globo H tumor antigen. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15-20.	3.3	214
4	Covalent Display of Oligosaccharide Arrays in Microtiter Plates. Journal of the American Chemical Society, 2004, 126, 8640-8641.	6.6	178
5	Inositol polyphosphates, diphosphoinositol polyphosphates and phosphatidylinositol polyphosphate lipids: Structure, synthesis, and development of probes for studying biological activity. Natural Product Reports, 2010, 27, 1403.	5.2	87
6	Exploiting Bioorthogonal Chemistry to Elucidate Proteinâ€“Lipid Binding Interactions and Other Biological Roles of Phospholipids. Accounts of Chemical Research, 2011, 44, 686-698.	7.6	74
7	Single-Molecule Surface-Enhanced Raman Scattering: Can STEM/EELS Image Electromagnetic Hot Spots?. Journal of Physical Chemistry Letters, 2012, 3, 2303-2309.	2.1	62
8	Plasmonics for Surface Enhanced Raman Scattering: Nanoantennas for Single Molecules. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 152-162.	1.9	48
9	Phosphatidylinositol 3,4,5-Trisphosphate Activity Probes for the Labeling and Proteomic Characterization of Protein Binding Partners. Biochemistry, 2011, 50, 11143-11161.	1.2	45
10	Triggered Liposomal Release through a Synthetic Phosphatidylcholine Analogue Bearing a Photocleavable Moiety Embedded within the snâ€2 Acyl Chain. Chemistry - A European Journal, 2014, 20, 3350-3357.	1.7	38
11	Synthesis and Convenient Functionalization of Azide-Labeled Diacylglycerol Analogues for Modular Access to Biologically Active Lipid Probes. Bioconjugate Chemistry, 2008, 19, 1855-1863.	1.8	33
12	Microplate-Based Analysis of Proteinâˆ'Membrane Binding Interactions via Immobilization of Whole Liposomes Containing a Biotinylated Anchor. Bioconjugate Chemistry, 2009, 20, 376-383.	1.8	30
13	Surface-Enhanced Hyper-Raman Scattering from Single Molecules. Journal of Physical Chemistry Letters, 2013, 4, 3420-3423.	2.1	30
14	Improving the efficacy of liposome-mediated vascular gene therapy via lipid surface modifications. Journal of Surgical Research, 2017, 219, 136-144.	0.8	30
15	A General Approach to Enzymeâ€Responsive Liposomes. Chemistry - A European Journal, 2020, 26, 8597-8607.	1.7	25
16	Membrane labeling and immobilization viacopper-free click chemistry. Chemical Communications, 2012, 48, 1431-1433.	2.2	24
17	Boronic acid liposomes for cellular delivery and content release driven by carbohydrate binding. Chemical Communications, 2018, 54, 6169-6172.	2.2	24
18	Lipid Switches: Stimuliâ€Responsive Liposomes through Conformational Isomerism Driven by Molecular Recognition. Chemistry - A European Journal, 2019, 25, 20-25.	1.7	24

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19	Labeling of Phosphatidylinositol Lipid Products in Cells through Metabolic Engineering by Using a Clickable myoâ€inositol Probe. ChemBioChem, 2019, 20, 172-180.	1.3	24
20	Modular synthesis of biologically active phosphatidic acid probes using click chemistry. Molecular BioSystems, 2009, 5, 962.	2.9	22
21	Calciumâ€Responsive Liposomes via a Synthetic Lipid Switch. Chemistry - A European Journal, 2018, 24, 3599-3607.	1.7	22
22	A Clickable and Photocleavable Lipid Analogue for Cell Membrane Delivery and Release. Bioconjugate Chemistry, 2015, 26, 1021-1031.	1.8	21
23	Microplate-Based Characterization of Protein-Phosphoinositide Binding Interactions Using a Synthetic Biotinylated Headgroup Analogue. Bioconjugate Chemistry, 2009, 20, 310-316.	1.8	20
24	Artificial Membrane Fusion Triggered by Strain-Promoted Alkyneâ€“Azide Cycloaddition. Bioconjugate Chemistry, 2017, 28, 923-932.	1.8	20
25	Metabolic labeling of glycerophospholipids via clickable analogs derivatized at the lipid headgroup. Chemistry and Physics of Lipids, 2020, 232, 104971.	1.5	20
26	Fluorescent bis-cyclen tweezer receptors for inositol (1,4,5)-trisphosphate. Tetrahedron, 2011, 67, 3803-3808.	1.0	18
27	Strategies for altering lipid self-assembly to trigger liposome cargo release. Chemistry and Physics of Lipids, 2020, 232, 104966.	1.5	18
28	Reactive Oxygen Species-Responsive Liposomes via Boronate-Caged Phosphatidylethanolamine. Bioconjugate Chemistry, 2020, 31, 2220-2230.	1.8	18
29	Synthesis of Modular Headgroup Conjugates Corresponding to All Seven Phosphatidylinositol Polyphosphate Isomers for Convenient Probe Generation. European Journal of Organic Chemistry, 2009, 2009, 4170-4179.	1.2	17
30	Cytochrome P450 Inhibitors Reduce Creeping Bentgrass (Agrostis stolonifera) Tolerance to Topramezone. PLoS ONE, 2015, 10, e0130947.	1.1	17
31	Design, Synthesis, and Evaluation of Novel Auxin Mimic Herbicides. Journal of Agricultural and Food Chemistry, 2016, 64, 3533-3537.	2.4	14
32	Global approaches for the elucidation of phosphoinositide-binding proteins. Chemistry and Physics of Lipids, 2014, 182, 19-28.	1.5	13
33	ATP-Responsive Liposomes via Screening of Lipid Switches Designed to Undergo Conformational Changes upon Binding Phosphorylated Metabolites. Journal of the American Chemical Society, 2022, 144, 3746-3756.	6.6	12
34	Microarray analysis of Akt PH domain binding employing synthetic biotinylated analogs of all seven phosphoinositide headgroup isomers. Chemistry and Physics of Lipids, 2012, 165, 207-215.	1.5	11
35	Chloride binding by a polyimidazolium macrocycle detected via fluorescence, NMR, and X-ray crystallography. Tetrahedron, 2012, 68, 1669-1673.	1.0	11
36	Cell mimetic liposomal nanocarriers for tailored delivery of vascular therapeutics. Chemistry and Physics of Lipids, 2019, 218, 149-157.	1.5	10

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37	Atomic view of an amyloid dodecamer exhibiting selective cellular toxic vulnerability in acute brain slices. Protein Science, 2021, , .	3.1	8
38	Zinc Triggered Release of Encapsulated Cargo from Liposomes via a Synthetic Lipid Switch. Bioconjugate Chemistry, 2021, 32, 2485-2496.	1.8	8
39	Advances in the Formulation and Assembly of Non-Cationic Lipid Nanoparticles for the Medical Application of Gene Therapeutics. Nanomaterials, 2021, 11, 825.	1.9	7
40	Modular synthesis of bis(monoacylglycero)phosphate for convenient access to analogues bearing hydrocarbon and perdeuterated acyl chains of varying length. Tetrahedron, 2009, 65, 6844-6849.	1.0	6
41	Reactive Oxygen Species (ROS) Activated Liposomal Cell Delivery using a Boronateâ€Caged Guanidine Lipid. Chemistry - A European Journal, 0, , .	1.7	5
42	A Boronic Acid Assay for the Detection of Mucinâ€1 Glycoprotein from Cancer Cells. ChemBioChem, 2017, 18, 1578-1582.	1.3	4
43	Demolish and Rebuild: Controlling Lipid Self-Assembly toward Triggered Release and Artificial Cells. Journal of Physical Chemistry B, 2021, 125, 12918-12933.	1.2	4
44	Cyclic Disulfide Liposomes for Membrane Functionalization and Cellular Delivery. Chemistry - A European Journal, 2022, 28, .	1.7	4
45	Reeling in the Catch: Advancing Cleavable Linkers for Proteomics. Chemistry and Biology, 2010, 17, 1166-1168.	6.2	3
46	Calcium-responsive liposomes: Toward ion-mediated targeted drug delivery. Methods in Enzymology, 2020, 640, 105-129.	0.4	3
47	Surface-enhanced hyper-Raman scattering of Rhodamine 6G isotopologues: Assignment of lower vibrational frequencies. Journal of Chemical Physics, 2021, 154, 034703.	1.2	2
48	Liposome triggered content release through molecular recognition of inositol trisphosphate. Chemical Communications, 2022, 58, 4520-4523.	2.2	2
49	Combined photoelectron, collision-induced dissociation, and computational studies of parent and fragment anions of N-paranitrophenylsulfonylalanine and N-paranitrophenylalanine. Journal of Chemical Physics, 2013, 139, 224308.	1.2	0
50	Chemical approaches to the investigation of proteinâ€membrane binding interactions using synthetic lipid probes. FASEB Journal, 2012, 26, 595.1.	0.2	0
51	Cover Feature: Cyclic Disulfide Liposomes for Membrane Functionalization and Cellular Delivery (Chem. Eur. J. 45/2022). Chemistry - A European Journal, 2022, 28, .	1.7	0