

# Michael D Best

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Liposome triggered content release through molecular recognition of inositol trisphosphate. <i>Chemical Communications</i> , 2022, 58, 4520-4523.  | 2.2 | 2         |
| 2  | ATP-Responsive Liposomes via Screening of Lipid Switches Designed to Undergo Conformational Changes upon Binding Phosphorylated Metabolites. <i>Journal of the American Chemical Society</i> , 2022, 144, 3746-3756. | 6.6 | 12        |
| 3  | Cyclic Disulfide Liposomes for Membrane Functionalization and Cellular Delivery. <i>Chemistry - A European Journal</i> , 2022, 28, .   | 1.7 | 4         |
| 4  | Cover Feature: Cyclic Disulfide Liposomes for Membrane Functionalization and Cellular Delivery ( <i>Chem. Eur. J.</i> 45/2022). <i>Chemistry - A European Journal</i> , 2022, 28, .                                  | 1.7 | 0         |
| 5  | Surface-enhanced hyper-Raman scattering of Rhodamine 6G isotopologues: Assignment of lower vibrational frequencies. <i>Journal of Chemical Physics</i> , 2021, 154, 034703.  | 1.2 | 2         |
| 6  | Advances in the Formulation and Assembly of Non-Cationic Lipid Nanoparticles for the Medical Application of Gene Therapeutics. <i>Nanomaterials</i> , 2021, 11, 825.   | 1.9 | 7         |
| 7  | Demolish and Rebuild: Controlling Lipid Self-Assembly toward Triggered Release and Artificial Cells. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12918-12933.  | 1.2 | 4         |
| 8  | Atomic view of an amyloid dodecamer exhibiting selective cellular toxic vulnerability in acute brain slices. <i>Protein Science</i> , 2021, , .  | 3.1 | 8         |
| 9  | Zinc Triggered Release of Encapsulated Cargo from Liposomes via a Synthetic Lipid Switch. <i>Bioconjugate Chemistry</i> , 2021, 32, 2485-2496.   | 1.8 | 8         |
| 10 | Metabolic labeling of glycerophospholipids via clickable analogs derivatized at the lipid headgroup. <i>Chemistry and Physics of Lipids</i> , 2020, 232, 104971.   | 1.5 | 20        |
| 11 | Strategies for altering lipid self-assembly to trigger liposome cargo release. <i>Chemistry and Physics of Lipids</i> , 2020, 232, 104966.   | 1.5 | 18        |
| 12 | Reactive Oxygen Species-Responsive Liposomes via Boronate-Caged Phosphatidylethanolamine. <i>Bioconjugate Chemistry</i> , 2020, 31, 2220-2230.   | 1.8 | 18        |
| 13 | Calcium-responsive liposomes: Toward ion-mediated targeted drug delivery. <i>Methods in Enzymology</i> , 2020, 640, 105-129.   | 0.4 | 3         |
| 14 | A General Approach to Enzyme-Responsive Liposomes. <i>Chemistry - A European Journal</i> , 2020, 26, 8597-8607.  | 1.7 | 25        |
| 15 | Lipid Switches: Stimuli-Responsive Liposomes through Conformational Isomerism Driven by Molecular Recognition. <i>Chemistry - A European Journal</i> , 2019, 25, 20-25.  | 1.7 | 24        |
| 16 | Labeling of Phosphatidylinositol Lipid Products in Cells through Metabolic Engineering by Using a Clickable myo-inositol Probe. <i>ChemBioChem</i> , 2019, 20, 172-180.  | 1.3 | 24        |
| 17 | Cell mimetic liposomal nanocarriers for tailored delivery of vascular therapeutics. <i>Chemistry and Physics of Lipids</i> , 2019, 218, 149-157.   | 1.5 | 10        |
| 18 | Calcium-Responsive Liposomes via a Synthetic Lipid Switch. <i>Chemistry - A European Journal</i> , 2018, 24, 3599-3607.  | 1.7 | 22        |

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|----|---|-----|-----------|
| 19 | Boronic acid liposomes for cellular delivery and content release driven by carbohydrate binding. <i>Chemical Communications</i> , 2018, 54, 6169-6172.  | 2.2 | 24        |
| 20 | Artificial Membrane Fusion Triggered by Strain-Promoted Alkyne–Azide Cycloaddition. <i>Bioconjugate Chemistry</i> , 2017, 28, 923-932.  | 1.8 | 20        |
| 21 | Improving the efficacy of liposome-mediated vascular gene therapy via lipid surface modifications. <i>Journal of Surgical Research</i> , 2017, 219, 136-144.  | 0.8 | 30        |
| 22 | A Boronic Acid Assay for the Detection of Mucin-1 Glycoprotein from Cancer Cells. <i>ChemBioChem</i> , 2017, 18, 1578-1582.   | 1.3 | 4         |
| 23 | Design, Synthesis, and Evaluation of Novel Auxin Mimic Herbicides. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3533-3537.   | 2.4 | 14        |
| 24 | A Clickable and Photocleavable Lipid Analogue for Cell Membrane Delivery and Release. <i>Bioconjugate Chemistry</i> , 2015, 26, 1021-1031.  | 1.8 | 21        |
| 25 | Cytochrome P450 Inhibitors Reduce Creeping Bentgrass ( <i>Agrostis stolonifera</i> ) Tolerance to Topramezone. <i>PLoS ONE</i> , 2015, 10, e0130947.  | 1.1 | 17        |
| 26 | Plasmonics for Surface Enhanced Raman Scattering: Nanoantennas for Single Molecules. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 152-162.   | 1.9 | 48        |
| 27 | Global approaches for the elucidation of phosphoinositide-binding proteins. <i>Chemistry and Physics of Lipids</i> , 2014, 182, 19-28.  | 1.5 | 13        |
| 28 | Triggered Liposomal Release through a Synthetic Phosphatidylcholine Analogue Bearing a Photocleavable Moiety Embedded within the $\alpha$ Acyl Chain. <i>Chemistry - A European Journal</i> , 2014, 20, 3350-3357.                        | 1.7 | 38        |
| 29 | Surface-Enhanced Hyper-Raman Scattering from Single Molecules. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3420-3423.   | 2.1 | 30        |
| 30 | Combined photoelectron, collision-induced dissociation, and computational studies of parent and fragment anions of N-paranitrophenylsulfonylalanine and N-paranitrophenylalanine. <i>Journal of Chemical Physics</i> , 2013, 139, 224308. | 1.2 | 0         |
| 31 | Single-Molecule Surface-Enhanced Raman Scattering: Can STEM/EELS Image Electromagnetic Hot Spots?. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2303-2309.   | 2.1 | 62        |
| 32 | Membrane labeling and immobilization via copper-free click chemistry. <i>Chemical Communications</i> , 2012, 48, 1431-1433.   | 2.2 | 24        |
| 33 | Microarray analysis of Akt PH domain binding employing synthetic biotinylated analogs of all seven phosphoinositide headgroup isomers. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 207-215.                                       | 1.5 | 11        |
| 34 | Chloride binding by a polyimidazolium macrocycle detected via fluorescence, NMR, and X-ray crystallography. <i>Tetrahedron</i> , 2012, 68, 1669-1673.   | 1.0 | 11        |
| 35 | Chemical approaches to the investigation of protein–membrane binding interactions using synthetic lipid probes. <i>FASEB Journal</i> , 2012, 26, 595.1.   | 0.2 | 0         |
| 36 | Phosphatidylinositol 3,4,5-Trisphosphate Activity Probes for the Labeling and Proteomic Characterization of Protein Binding Partners. <i>Biochemistry</i> , 2011, 50, 11143-11161.  | 1.2 | 45        |

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|----|---|-----|-----------|
| 37 | Exploiting Bioorthogonal Chemistry to Elucidate Protein-Lipid Binding Interactions and Other Biological Roles of Phospholipids. <i>Accounts of Chemical Research</i> , 2011, 44, 686-698.   | 7.6 | 74        |
| 38 | Fluorescent bis-cyclen tweezer receptors for inositol (1,4,5)-trisphosphate. <i>Tetrahedron</i> , 2011, 67, 3803-3808.  | 1.0 | 18        |
| 39 | Reeling in the Catch: Advancing Cleavable Linkers for Proteomics. <i>Chemistry and Biology</i> , 2010, 17, 1166-1168.   | 6.2 | 3         |
| 40 | Inositol polyphosphates, diphosphoinositol polyphosphates and phosphatidylinositol polyphosphate lipids: Structure, synthesis, and development of probes for studying biological activity. <i>Natural Product Reports</i> , 2010, 27, 1403. | 5.2 | 87        |
| 41 | Synthesis of Modular Headgroup Conjugates Corresponding to All Seven Phosphatidylinositol Polyphosphate Isomers for Convenient Probe Generation. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 4170-4179.                      | 1.2 | 17        |
| 42 | Modular synthesis of bis(monoacylglycero)phosphate for convenient access to analogues bearing hydrocarbon and perdeuterated acyl chains of varying length. <i>Tetrahedron</i> , 2009, 65, 6844-6849.  | 1.0 | 6         |
| 43 | Click Chemistry and Bioorthogonal Reactions: Unprecedented Selectivity in the Labeling of Biological Molecules. <i>Biochemistry</i> , 2009, 48, 6571-6584.  | 1.2 | 563       |
| 44 | Microplate-Based Analysis of Protein-Membrane Binding Interactions via Immobilization of Whole Liposomes Containing a Biotinylated Anchor. <i>Bioconjugate Chemistry</i> , 2009, 20, 376-383.   | 1.8 | 30        |
| 45 | Microplate-Based Characterization of Protein-Phosphoinositide Binding Interactions Using a Synthetic Biotinylated Headgroup Analogue. <i>Bioconjugate Chemistry</i> , 2009, 20, 310-316.  | 1.8 | 20        |
| 46 | Modular synthesis of biologically active phosphatidic acid probes using click chemistry. <i>Molecular BioSystems</i> , 2009, 5, 962.  | 2.9 | 22        |
| 47 | Synthesis and Convenient Functionalization of Azide-Labeled Diacylglycerol Analogues for Modular Access to Biologically Active Lipid Probes. <i>Bioconjugate Chemistry</i> , 2008, 19, 1855-1863.   | 1.8 | 33        |
| 48 | Carbohydrate microarray for profiling the antibodies interacting with Globo H tumor antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15-20.                                     | 3.3 | 214       |
| 49 | Covalent Display of Oligosaccharide Arrays in Microtiter Plates. <i>Journal of the American Chemical Society</i> , 2004, 126, 8640-8641.  | 6.6 | 178       |
| 50 | Abiotic guanidinium containing receptors for anionic species. <i>Coordination Chemistry Reviews</i> , 2003, 240, 3-15.  | 9.5 | 351       |
| 51 | Reactive Oxygen Species (ROS) Activated Liposomal Cell Delivery using a Boronate-Caged Guanidine Lipid. <i>Chemistry - A European Journal</i> , 0, , .  | 1.7 | 5         |