

Mathai Mammen

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

7,611
citations

279798

23
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

7464
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyvalent Interactions in Biological Systems: Implications for Design and Use of Multivalent Ligands and Inhibitors. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2754-2794.	13.8	3,628
2	Noncovalent Synthesis: Using Physical-Organic Chemistry To Make Aggregates. <i>Accounts of Chemical Research</i> , 1995, 28, 37-44.	15.6	1,035
3	Estimating the Entropic Cost of Self-Assembly of Multiparticle Hydrogen-Bonded Aggregates Based on the Cyanuric Acid-Melamine Lattice. <i>Journal of Organic Chemistry</i> , 1998, 63, 3821-3830.	3.2	403
4	Effective Inhibitors of Hemagglutination by Influenza Virus Synthesized from Polymers Having Active Ester Groups. Insight into Mechanism of Inhibition. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 4179-4190.	6.4	364
5	Polyacrylamides Bearing Pendant α -Sialoside Groups Strongly Inhibit Agglutination of Erythrocytes by Influenza Virus: The Strong Inhibition Reflects Enhanced Binding through Cooperative Polyvalent Interactions. <i>Journal of the American Chemical Society</i> , 1996, 118, 3789-3800.	13.7	329
6	Generation and In Situ Evaluation of Libraries of Poly(acrylic acid) Presenting Sialosides as Side Chains as Polyvalent Inhibitors of Influenza-Mediated Hemagglutination. <i>Journal of the American Chemical Society</i> , 1997, 119, 4103-4111.	13.7	206
7	Telavancin Disrupts the Functional Integrity of the Bacterial Membrane through Targeted Interaction with the Cell Wall Precursor Lipid II. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 3375-3383.	3.2	149
8	Using a Convenient, Quantitative Model for Torsional Entropy To Establish Qualitative Trends for Molecular Processes That Restrict Conformational Freedom. <i>Journal of Organic Chemistry</i> , 1998, 63, 3168-3175.	3.2	127
9	A Novel Multivalent Ligand That Bridges the Allosteric and Orthosteric Binding Sites of the M2 Muscarinic Receptor. <i>Molecular Pharmacology</i> , 2007, 72, 291-302.	2.3	86
10	Determination of the Binding of Ligands Containing the N-2,4-dinitrophenyl Group to Bivalent Monoclonal Rat Anti-DNP Antibody Using Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1995, 67, 3526-3535.	6.5	85
11	Predicting the Relative Stabilities of Multiparticle Hydrogen-Bonded Aggregates Based on the Number of Hydrogen Bonds and the Number of Particles and Measuring These Stabilities with Titrations Using Dimethyl Sulfoxide. <i>Journal of the American Chemical Society</i> , 1996, 118, 12614-12623.	13.7	82
12	Monomeric inhibitors of influenza neuraminidase enhance the hemagglutination inhibition activities of polyacrylamides presenting multiple C-sialoside groups. <i>Chemistry and Biology</i> , 1996, 3, 97-104.	6.0	78
13	Polyvalent Interactions in Biological Systems: Implications for Design and Use of Multivalent Ligands and Inhibitors. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2754-2794.	13.8	74
14	Characterization of Hydrogen-Bonded Aggregates in Chloroform by Electrospray Ionization Mass Spectrometry. <i>Journal of Organic Chemistry</i> , 1996, 61, 2204-2206.	3.2	56
15	Optically controlled collisions of biological objects to evaluate potent polyvalent inhibitors of virus-cell adhesion. <i>Chemistry and Biology</i> , 1996, 3, 757-763.	6.0	55
16	Representing Primary Electrophoretic Data in the $1/\text{Time}$ Domain: A Comparison to Representations in the Time Domain. <i>Analytical Chemistry</i> , 1997, 69, 2165-2170.	6.5	47
17	Design and synthesis of hydrogen-bonded aggregates. Theory and computation applied to three systems based on the cyanuric acid-melamine lattice. <i>Tetrahedron</i> , 1995, 51, 607-619.	1.9	46
18	THR-198321 Is a Bifunctional Muscarinic Receptor Antagonist and β_2 -Adrenoceptor Agonist (MABA) That Binds in a Bimodal and Multivalent Manner. <i>Molecular Pharmacology</i> , 2011, 79, 389-399.	2.3	39

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19	Specificity of Induction of the <i>vanA</i> and <i>vanB</i> Operons in Vancomycin-Resistant Enterococci by Telavancin. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2814-2818.	3.2	33
20	Discovery of muscarinic acetylcholine receptor antagonist and beta 2 adrenoceptor agonist (MABA) dual pharmacology molecules. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1354-1358.	2.2	30
21	Detection of hydrogen-bonded supramolecular complexes using electrospray ionization from chloroform. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 312-316.	1.5	28
22	Treating Electrostatic Shielding at the Surface of Silica as Discrete Siloxide-Cation Interactions. <i>Journal of the American Chemical Society</i> , 1997, 119, 3469-3476.	13.7	23
23	Antimuscarinics for the treatment of overactive bladder: current options and emerging therapies. <i>Current Opinion in Investigational Drugs</i> , 2004, 5, 40-9.	2.3	21
24	Polyvalent Interactions in Biological Systems: Implications for Design and Use of Multivalent Ligands and Inhibitors. , 1998, 37, 2754.		10
25	Dual-pharmacology bronchodilators for the treatment of COPD. <i>Progress in Respiratory Research</i> , 2010, , 39-45.	0.1	7
26	Polyvalent Interactions in Biological Systems: Implications for Design and Use of Multivalent Ligands and Inhibitors. , 1998, 37, 2754.		6
27	Polyvalente Wechselwirkungen in biologischen Systemen: Auswirkungen auf das Design und die Verwendung multivalenter Liganden und Inhibitoren. <i>Angewandte Chemie</i> , 1998, 110, 2908-2953.	2.0	2
28	<title>Optically controlled collisions of biological objects</title>. , 1998, , .		0