Daniel M Ratner

List of Publications by Year
in descending order

57 papers	3,370 citations	109321 35 h-index	149698 56 g-index
59 all docs	59 docs citations	59 times ranked	4056 citing authors

#	Article	IF	Citations
1	A nanofiber based antiviral (TAF) prodrug delivery system. Materials Science and Engineering C, 2022, 133, 112626.	7.3	1
2	A macrophage-targeted platform for extending drug dosing with polymer prodrugs for pulmonary infection prophylaxis. Journal of Controlled Release, 2021, 330, 284-292.	9.9	10
3	Mannose Conjugated Polymer Targeting P.Âaeruginosa Biofilms. ACS Infectious Diseases, 2020, 6, 2866-2871.	3.8	9
4	Glycan targeted polymeric antibiotic prodrugs for alveolar macrophage infections. Biomaterials, 2019, 195, 38-50.	11.4	38
5	Enhanced Sensitivity of Subwavelength Multibox Waveguide Microring Resonator Label-Free Biosensors. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-11.	2.9	75
6	Label-free biosensing with a multi-box sub-wavelength phase-shifted Bragg grating waveguide. Biomedical Optics Express, 2019, 10, 4825.	2.9	34
7	System-Level Integrated Active Silicon Photonic Biosensor for Detecting Small Molecule Interactions. , 2018, , .		0
8	Silicon Photonic Biosensors Using Label-Free Detection. Sensors, 2018, 18, 3519.	3.8	237
9	Polymer-augmented liposomes enhancing antibiotic delivery against intracellular infections. Biomaterials Science, 2018, 6, 1976-1985.	5.4	47
10	System-level integration of active silicon photonic biosensors using Fan-Out Wafer-Level-Packaging for low cost and multiplexed point-of-care diagnostic testing. Sensors and Actuators B: Chemical, 2018, 273, 1610-1617.	7.8	27
11	Macrophage-targeted drugamers with enzyme-cleavable linkers deliver high intracellular drug dosing and sustained drug pharmacokinetics against alveolar pulmonary infections. Journal of Controlled Release, 2018, 287, 1-11.	9.9	48
12	Synthetic Macromolecular Antibiotic Platform for Inhalable Therapy against Aerosolized Intracellular Alveolar Infections. Molecular Pharmaceutics, 2017, 14, 1988-1997.	4.6	20
13	Optimized sensitivity of Silicon-on-Insulator (SOI) strip waveguide resonator sensor. Biomedical Optics Express, 2017, 8, 500.	2.9	76
14	Sub-wavelength grating for enhanced ring resonator biosensor. Optics Express, 2016, 24, 15672.	3.4	187
15	Nanostructured glycopolymer augmented liposomes to elucidate carbohydrate-mediated targeting. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2031-2041.	3.3	25
16	Synthesis of zwitterionic, hydrophobic, and amphiphilic polymers via RAFT polymerization induced self-assembly (PISA) in acetic acid. Polymer Chemistry, 2016, 7, 6133-6143.	3.9	19
17	RAFT polymerization of ciprofloxacin prodrug monomers for the controlled intracellular delivery of antibiotics. Polymer Chemistry, 2016, 7, 826-837.	3.9	45
18	Anti-Retroviral Lectins Have Modest Effects on Adherence of Trichomonas vaginalis to Epithelial Cells In Vitro and on Recovery of Tritrichomonas foetus in a Mouse Vaginal Model. PLoS ONE, 2015, 10, e0135340.	2.5	24

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19	Performance of ultra-thin SOI-based resonators for sensing applications. Optics Express, 2014, 22, 14166.	3.4	91
20	Phage Lambda Capsids as Tunable Display Nanoparticles. Biomacromolecules, 2014, 15, 4410-4419.	5.4	18
21	Molecular factors in dendritic cell responses to adsorbed glycoconjugates. Biomaterials, 2014, 35, 5862-5874.	11.4	12
22	Serologic and Phenotypic Analysis of Blood Types Via Silicon Nanophotonics. Blood, 2014, 124, 1565-1565.	1.4	2
23	Identifying human milk glycans that inhibit norovirus binding using surface plasmon resonance. Glycobiology, 2013, 23, 1491-1498.	2.5	63
24	Zwitterionic polymer-modified silicon microring resonators for label-free biosensing in undiluted humanplasma. Biosensors and Bioelectronics, 2013, 42, 100-105.	10.1	44
25	Polymerâ€“trimannoside conjugates via a combination of RAFT and thiolâ€“ene chemistry. Polymer Chemistry, 2013, 4, 1153-1160.	3.9	21
26	Conformationally Constrained Functional Peptide Monolayers for the Controlled Display of Bioactive Carbohydrate Ligands. Langmuir, 2013, 29, 8187-8192.	3.5	17
27	A silicon photonic biosensor using phaseâ€shifted Bragg gratings in slot waveguide. Journal of Biophotonics, 2013, 6, 821-828.	2.3	51
28	Silicon photonic micro-disk resonators for label-free biosensing. Optics Express, 2013, 21, 7994.	3.4	130
29	An Organophosphonate Strategy for Functionalizing Silicon Photonic Biosensors. Langmuir, 2012, 28, 3338-3344.	3.5	50
30	Biofunctional Paper via the Covalent Modification of Cellulose. Langmuir, 2012, 28, 11265-11273.	3.5	72
31	Nanoscale Clustering of Carbohydrate Thiols in Mixed Self-Assembled Monolayers on Gold. Langmuir, 2012, 28, 6950-6959.	3.5	24
32	In vivo targeting of alveolar macrophages via RAFT-based glycopolymers. Biomaterials, 2012, 33, 6889-6897.	11.4	67
33	Microelectrode array biosensor for studying carbohydrate-mediated interactions. Biosensors and Bioelectronics, 2012, 34, 253-260.	10.1	2
34	A Versatile Method for Functionalizing Surfaces with Bioactive Glycans. Bioconjugate Chemistry, 2011, 22, 50-57.	3.6	43
35	Multiplexed inkjet functionalization of silicon photonic biosensors. Lab on A Chip, 2011, 11, 1372.	6.0	75
36	Probing orientation of immobilized humanized antiâ€lysozyme variable fragment by timeâ€ofâ€flight secondaryâ€ion mass spectrometry. Journal of Biomedical Materials Research - Part A, 2011, 97A, 1-7.	4.0	25

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37	The Antiretroviral Lectin Cyanovirin-N Targets Well-Known and Novel Targets on the Surface of Entamoeba histolytica Trophozoites. Eukaryotic Cell, 2010, 9, 1661-1668.	3.4	7
38	Giardia Cyst Wall Protein 1 Is a Lectin That Binds to Curled Fibrils of the GalNAc Homopolymer. PLoS Pathogens, 2010, 6, e1001059.	4.7	43
39	Suggestive Evidence for Darwinian Selection against Asparagine-Linked Glycans of Plasmodium falciparum and Toxoplasma gondii. Eukaryotic Cell, 2010, 9, 228-241.	3.4	95
40	XPS and SPR Analysis of Glycoarray Surface Density. Langmuir, 2009, 25, 2181-2187.	3.5	102
41	Carbohydrateâ€Mediated Targeting of Antigen to Dendritic Cells Leads to Enhanced Presentation of Antigen to T Cells. ChemBioChem, 2008, 9, 294-303.	2.6	70
42	Unique Asn-linked Oligosaccharides of the Human Pathogen Entamoeba histolytica. Journal of Biological Chemistry, 2008, 283, 18355-18364.	3.4	29
43	Changes in the N -Glycome, Glycoproteins with Asn-Linked Glycans, of Giardia lamblia with Differentiation from Trophozoites to Cysts. Eukaryotic Cell, 2008, 7, 1930-1940.	3.4	66
44	Carbohydrate Microarrays as Tools in HIV Glycobiology. Current Pharmaceutical Design, 2007, 13, 173-183.	1.9	45
45	The Novel Fold of Scytovirin Reveals a New Twist For Antiviral Entry Inhibitors. Journal of Molecular Biology, 2007, 369, 451-461.	4.2	49
46	Sequence and structure evolved separately in a ribosomal ubiquitin variant. EMBO Journal, 2007, 26, 3474-3483.	7.8	21
47	Unique Posttranslational Modifications of Chitin-Binding Lectins of Entamoeba invadens Cyst Walls. Eukaryotic Cell, 2006, 5, 836-848.	3.4	50
48	The synthesis of novel Nâ€glycans in Entamoeba histolytica and the quality control, secretion and cell surface arrangement of glycoproteins. FASEB Journal, 2006, 20, A514.	0.5	0
49	Oligosaccharide Preferences of Î²1,4-Galactosyltransferase-I: Crystal Structures of Met340His Mutant of Human Î²1,4-Galactosyltransferase-I with a Pentasaccharide and Trisaccharides of the N-Glycan Moiety. Journal of Molecular Biology, 2005, 353, 53-67.	4.2	46
50	Probing Proteinâ€“Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides. ChemBioChem, 2004, 5, 379-383.	2.6	166
51	Tools for Glycomics: Mapping Interactions of Carbohydrates in Biological Systems. ChemBioChem, 2004, 5, 1375-1383.	2.6	183
52	Oligosaccharide and Glycoprotein Microarrays as Tools in HIV Glycobiology. Chemistry and Biology, 2004, 11, 875-881.	6.0	231
53	Encoded Fiber-Optic Microsphere Arrays for Probing Proteinâ€“Carbohydrate Interactions. Angewandte Chemie - International Edition, 2003, 42, 5317-5320.	13.8	58
54	Automated Synthesis of a ProtectedN-Linked Glycoprotein Core Pentasaccharide. Organic Letters, 2003, 5, 4717-4720.	4.6	61

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55	Solution Structure of a Circular-permuted Variant of the Potent HIV-inactivating Protein Cyanovirin-N: Structural Basis for Protein Stability and Oligosaccharide Interaction. Journal of Molecular Biology, 2003, 325, 211-223.	4.2	32
56	Structures of the Complexes of a Potent Anti-HIV Protein Cyanovirin-N and High Mannose Oligosaccharides. Journal of Biological Chemistry, 2002, 277, 34336-34342.	3.4	161
57	Multisite and Multivalent Binding between Cyanovirin-N and Branched Oligomannosides. Chemistry and Biology, 2002, 9, 1109-1118.	6.0	91