

# Daniel M Ratner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7788026/publications.pdf>

Version: 2024-02-01

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	Silicon Photonic Biosensors Using Label-Free Detection. <i>Sensors</i> , 2018, 18, 3519.	3.8	237
2	Oligosaccharide and Glycoprotein Microarrays as Tools in HIV Glycobiology. <i>Chemistry and Biology</i> , 2004, 11, 875-881.	6.0	231
3	Sub-wavelength grating for enhanced ring resonator biosensor. <i>Optics Express</i> , 2016, 24, 15672.	3.4	187
4	Tools for Glycomics: Mapping Interactions of Carbohydrates in Biological Systems. <i>ChemBioChem</i> , 2004, 5, 1375-1383.	2.6	183
5	Probing Protein-Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides. <i>ChemBioChem</i> , 2004, 5, 379-383.	2.6	166
6	Structures of the Complexes of a Potent Anti-HIV Protein Cyanovirin-N and High Mannose Oligosaccharides. <i>Journal of Biological Chemistry</i> , 2002, 277, 34336-34342.	3.4	161
7	Silicon photonic micro-disk resonators for label-free biosensing. <i>Optics Express</i> , 2013, 21, 7994.	3.4	130
8	XPS and SPR Analysis of Glycoarray Surface Density. <i>Langmuir</i> , 2009, 25, 2181-2187.	3.5	102
9	Suggestive Evidence for Darwinian Selection against Asparagine-Linked Glycans of <i>Plasmodium falciparum</i> and <i>Toxoplasma gondii</i> . <i>Eukaryotic Cell</i> , 2010, 9, 228-241.	3.4	95
10	Multisite and Multivalent Binding between Cyanovirin-N and Branched Oligomannosides. <i>Chemistry and Biology</i> , 2002, 9, 1109-1118.	6.0	91
11	Performance of ultra-thin SOI-based resonators for sensing applications. <i>Optics Express</i> , 2014, 22, 14166.	3.4	91
12	Optimized sensitivity of Silicon-on-Insulator (SOI) strip waveguide resonator sensor. <i>Biomedical Optics Express</i> , 2017, 8, 500.	2.9	76
13	Multiplexed inkjet functionalization of silicon photonic biosensors. <i>Lab on A Chip</i> , 2011, 11, 1372.	6.0	75
14	Enhanced Sensitivity of Subwavelength Multibox Waveguide Microring Resonator Label-Free Biosensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-11.	2.9	75
15	Biofunctional Paper via the Covalent Modification of Cellulose. <i>Langmuir</i> , 2012, 28, 11265-11273.	3.5	72
16	Carbohydrate-Mediated Targeting of Antigen to Dendritic Cells Leads to Enhanced Presentation of Antigen to T Cells. <i>ChemBioChem</i> , 2008, 9, 294-303.	2.6	70
17	In vivo targeting of alveolar macrophages via RAFT-based glycopolymers. <i>Biomaterials</i> , 2012, 33, 6889-6897.	11.4	67
18	Changes in the N-Glycome, Glycoproteins with Asn-Linked Glycans, of <i>Giardia lamblia</i> with Differentiation from Trophozoites to Cysts. <i>Eukaryotic Cell</i> , 2008, 7, 1930-1940.	3.4	66

#	ARTICLE	IF	CITATIONS
19	Identifying human milk glycans that inhibit norovirus binding using surface plasmon resonance. <i>Glycobiology</i> , 2013, 23, 1491-1498.	2.5	63
20	Automated Synthesis of a Protected N-Linked Glycoprotein Core Pentasaccharide. <i>Organic Letters</i> , 2003, 5, 4717-4720.	4.6	61
21	Encoded Fiber-Optic Microsphere Arrays for Probing Protein-Carbohydrate Interactions. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5317-5320.	13.8	58
22	A silicon photonic biosensor using phase-shifted Bragg gratings in slot waveguide. <i>Journal of Biophotonics</i> , 2013, 6, 821-828.	2.3	51
23	Unique Posttranslational Modifications of Chitin-Binding Lectins of <i>Entamoeba invadens</i> Cyst Walls. <i>Eukaryotic Cell</i> , 2006, 5, 836-848.	3.4	50
24	An Organophosphonate Strategy for Functionalizing Silicon Photonic Biosensors. <i>Langmuir</i> , 2012, 28, 3338-3344.	3.5	50
25	The Novel Fold of Scytovirin Reveals a New Twist For Antiviral Entry Inhibitors. <i>Journal of Molecular Biology</i> , 2007, 369, 451-461.	4.2	49
26	Macrophage-targeted drugamers with enzyme-cleavable linkers deliver high intracellular drug dosing and sustained drug pharmacokinetics against alveolar pulmonary infections. <i>Journal of Controlled Release</i> , 2018, 287, 1-11.	9.9	48
27	Polymer-augmented liposomes enhancing antibiotic delivery against intracellular infections. <i>Biomaterials Science</i> , 2018, 6, 1976-1985.	5.4	47
28	Oligosaccharide Preferences of $\beta$ 1,4-Galactosyltransferase-I: Crystal Structures of Met340His Mutant of Human $\beta$ 1,4-Galactosyltransferase-I with a Pentasaccharide and Trisaccharides of the N-Glycan Moiety. <i>Journal of Molecular Biology</i> , 2005, 353, 53-67.	4.2	46
29	Carbohydrate Microarrays as Tools in HIV Glycobiology. <i>Current Pharmaceutical Design</i> , 2007, 13, 173-183.	1.9	45
30	RAFT polymerization of ciprofloxacin prodrug monomers for the controlled intracellular delivery of antibiotics. <i>Polymer Chemistry</i> , 2016, 7, 826-837.	3.9	45
31	Zwitterionic polymer-modified silicon microring resonators for label-free biosensing in undiluted human plasma. <i>Biosensors and Bioelectronics</i> , 2013, 42, 100-105.	10.1	44
32	<i>Giardia</i> Cyst Wall Protein 1 Is a Lectin That Binds to Curled Fibrils of the GalNAc Homopolymer. <i>PLoS Pathogens</i> , 2010, 6, e1001059.	4.7	43
33	A Versatile Method for Functionalizing Surfaces with Bioactive Glycans. <i>Bioconjugate Chemistry</i> , 2011, 22, 50-57.	3.6	43
34	Glycan targeted polymeric antibiotic prodrugs for alveolar macrophage infections. <i>Biomaterials</i> , 2019, 195, 38-50.	11.4	38
35	Label-free biosensing with a multi-box sub-wavelength phase-shifted Bragg grating waveguide. <i>Biomedical Optics Express</i> , 2019, 10, 4825.	2.9	34
36	Solution Structure of a Circular-permuted Variant of the Potent HIV-inactivating Protein Cyanovirin-N: Structural Basis for Protein Stability and Oligosaccharide Interaction. <i>Journal of Molecular Biology</i> , 2003, 325, 211-223.	4.2	32

#	ARTICLE	IF	CITATIONS
37	Unique Asn-linked Oligosaccharides of the Human Pathogen <i>Entamoeba histolytica</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 18355-18364.	3.4	29
38	System-level integration of active silicon photonic biosensors using Fan-Out Wafer-Level-Packaging for low cost and multiplexed point-of-care diagnostic testing. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1610-1617.	7.8	27
39	Probing orientation of immobilized humanized anti-lysozyme variable fragment by time-of-flight secondary-ion mass spectrometry. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 97A, 1-7.	4.0	25
40	Nanostructured glycopolymer augmented liposomes to elucidate carbohydrate-mediated targeting. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 2031-2041.	3.3	25
41	Nanoscale Clustering of Carbohydrate Thiols in Mixed Self-Assembled Monolayers on Gold. <i>Langmuir</i> , 2012, 28, 6950-6959.	3.5	24
42	Anti-Retroviral Lectins Have Modest Effects on Adherence of <i>Trichomonas vaginalis</i> to Epithelial Cells In Vitro and on Recovery of <i>Trichomonas foetus</i> in a Mouse Vaginal Model. <i>PLoS ONE</i> , 2015, 10, e0135340.	2.5	24
43	Sequence and structure evolved separately in a ribosomal ubiquitin variant. <i>EMBO Journal</i> , 2007, 26, 3474-3483.	7.8	21
44	Polymer-trimannoside conjugates via a combination of RAFT and thiol-ene chemistry. <i>Polymer Chemistry</i> , 2013, 4, 1153-1160.	3.9	21
45	Synthetic Macromolecular Antibiotic Platform for Inhalable Therapy against Aerosolized Intracellular Alveolar Infections. <i>Molecular Pharmaceutics</i> , 2017, 14, 1988-1997.	4.6	20
46	Synthesis of zwitterionic, hydrophobic, and amphiphilic polymers via RAFT polymerization induced self-assembly (PISA) in acetic acid. <i>Polymer Chemistry</i> , 2016, 7, 6133-6143.	3.9	19
47	Phage Lambda Capsids as Tunable Display Nanoparticles. <i>Biomacromolecules</i> , 2014, 15, 4410-4419.	5.4	18
48	Conformationally Constrained Functional Peptide Monolayers for the Controlled Display of Bioactive Carbohydrate Ligands. <i>Langmuir</i> , 2013, 29, 8187-8192.	3.5	17
49	Molecular factors in dendritic cell responses to adsorbed glycoconjugates. <i>Biomaterials</i> , 2014, 35, 5862-5874.	11.4	12
50	A macrophage-targeted platform for extending drug dosing with polymer prodrugs for pulmonary infection prophylaxis. <i>Journal of Controlled Release</i> , 2021, 330, 284-292.	9.9	10
51	Mannose Conjugated Polymer Targeting <i>P. Aeruginosa</i> Biofilms. <i>ACS Infectious Diseases</i> , 2020, 6, 2866-2871.	3.8	9
52	The Antiretroviral Lectin Cyanovirin-N Targets Well-Known and Novel Targets on the Surface of <i>Entamoeba histolytica</i> Trophozoites. <i>Eukaryotic Cell</i> , 2010, 9, 1661-1668.	3.4	7
53	Microelectrode array biosensor for studying carbohydrate-mediated interactions. <i>Biosensors and Bioelectronics</i> , 2012, 34, 253-260.	10.1	2
54	Serologic and Phenotypic Analysis of Blood Types Via Silicon Nanophotonics. <i>Blood</i> , 2014, 124, 1565-1565.	1.4	2

#	ARTICLE	IF	CITATIONS
55	A nanofiber based antiviral (TAF) prodrug delivery system. Materials Science and Engineering C, 2022, 133, 112626.	7.3	1
56	System-Level Integrated Active Silicon Photonic Biosensor for Detecting Small Molecule Interactions. , 2018, , .		0
57	The synthesis of novel N-glycans in Entamoeba histolytica and the quality control, secretion and cell surface arrangement of glycoproteins. FASEB Journal, 2006, 20, A514.	0.5	0