

# Rich Olson

## List of Publications by Year in descending order

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30  
papers

2,304  
citations

623188

14  
h-index

580395

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of glutamate receptor desensitization. <i>Nature</i> , 2002, 417, 245-253.	13.7	650
2	Structural basis for modulation and agonist specificity of HCN pacemaker channels. <i>Nature</i> , 2003, 425, 200-205.	13.7	540
3	Crystal structure of staphylococcal LukF delineates conformational changes accompanying formation of a transmembrane channel. <i>Nature Structural Biology</i> , 1999, 6, 134-140.	9.7	220
4	STATs Dimerize in the Absence of Phosphorylation. <i>Journal of Biological Chemistry</i> , 2003, 278, 34133-34140.	1.6	182
5	Mechanisms for ligand binding to GluR0 ion channels: crystal structures of the glutamate and serine complexes and a closed apo state. <i>Journal of Molecular Biology</i> , 2001, 311, 815-836.	2.0	141
6	Crystal Structure of the <i>Vibrio cholerae</i> Cytolysin (VCC) Pro-toxin and its Assembly into a Heptameric Transmembrane Pore. <i>Journal of Molecular Biology</i> , 2005, 350, 997-1016.	2.0	122
7	Crystal structure of the <i>Vibrio cholerae</i> cytolysin heptamer reveals common features among disparate pore-forming toxins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7385-7390.	3.3	117
8	Structure of a Pheromone Receptor-Associated MHC Molecule with an Open and Empty Groove. <i>PLoS Biology</i> , 2005, 3, e257.	2.6	43
9	<i>Vibrio cholerae</i> cytolysin is composed of an alpha-hemolysin-like core. <i>Protein Science</i> , 2003, 12, 379-383.	3.1	42
10	<i>Vibrio cholerae</i> Cytolysin Recognizes the Heptasaccharide Core of Complex N-Glycans with Nanomolar Affinity. <i>Journal of Molecular Biology</i> , 2013, 425, 944-957.	2.0	38
11	Glycan Specificity of the <i>Vibrio vulnificus</i> Hemolysin Lectin Outlines Evolutionary History of Membrane Targeting by a Toxin Family. <i>Journal of Molecular Biology</i> , 2014, 426, 2800-2812.	2.0	31
12	The Crystal Structure of CHIR-AB1: A Primordial Avian Classical Fc Receptor. <i>Journal of Molecular Biology</i> , 2008, 381, 1012-1024.	2.0	30
13	MHC homologs in the nervous system – they haven't lost their groove. <i>Current Opinion in Neurobiology</i> , 2006, 16, 351-357.	2.0	26
14	Searching for the Secret of Stickiness: How Biofilms Adhere to Surfaces. <i>Frontiers in Microbiology</i> , 2021, 12, 686793.	1.5	24
15	Three-dimensional structure of the detergent-solubilized <i>Vibrio cholerae</i> cytolysin (VCC) heptamer by electron cryomicroscopy. <i>Journal of Structural Biology</i> , 2010, 169, 6-13.	1.3	14
16	Social evolution of shared biofilm matrix components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	14
17	The 1.9 Å... crystal structure of the extracellular matrix protein Bap1 from <i>Vibrio cholerae</i> provides insights into bacterial biofilm adhesion. <i>Journal of Biological Chemistry</i> , 2019, 294, 14499-14511.	1.6	13
18	The Relationship between Glycan Binding and Direct Membrane Interactions in <i>Vibrio cholerae</i> Cytolysin, a Channel-forming Toxin. <i>Journal of Biological Chemistry</i> , 2015, 290, 28402-28415.	1.6	11

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19	Structural basis of mammalian glycan targeting by <i>Vibrio cholerae</i> cytotoxin and biofilm proteins. <i>PLoS Pathogens</i> , 2018, 14, e1006841.	2.1	11
20	NMR structure of the <i>Bacillus cereus</i> hemolysin II C-terminal domain reveals a novel fold. <i>Scientific Reports</i> , 2017, 7, 3277.	1.6	10
21	NMR assignments for the cis and trans forms of the hemolysin II C-terminal domain. <i>Biomolecular NMR Assignments</i> , 2014, 8, 419-423.	0.4	8
22	Conserved SecA Signal Peptide-Binding Site Revealed by Engineered Protein Chimeras and Förster Resonance Energy Transfer. <i>Biochemistry</i> , 2016, 55, 1291-1300.	1.2	7
23	Protein yoga: Conformational versatility of the Hemolysin II C-terminal domain detailed by NMR structures for multiple states. <i>Protein Science</i> , 2021, 30, 990-1005.	3.1	7
24	Determination of the Carbohydrate-Binding Specificity of Lectin-Like Domains in <i>Vibrio Cholerae</i> Cytotoxin. <i>Biophysical Journal</i> , 2012, 102, 461a-462a.	0.2	2
25	Structure and Glycan-Binding Properties of the <i>Vibrio Vulnificus</i> Hemolysin B-Trefoil Lectin. <i>Biophysical Journal</i> , 2014, 106, 87a.	0.2	1
26	High-Resolution Structure of the <i>Vibrio Cholerae</i> Cytotoxin Heptamer. <i>Biophysical Journal</i> , 2011, 100, 382a.	0.2	0
27	Crystal Structure of the <i>VIBRIO Cholerae</i> Cytotoxin Heptameric Pore. <i>Biophysical Journal</i> , 2011, 100, 8a.	0.2	0
28	Understanding the Carbohydrate Specificity of <i>Vibrio Cholerae</i> Cytotoxin. <i>Biophysical Journal</i> , 2013, 104, 240a.	0.2	0
29	Identification and Characterization of the Glycan Binding Site of <i>Vibrio Cholerae</i> Cytotoxin. <i>Biophysical Journal</i> , 2013, 104, 238a.	0.2	0
30	Key Residues in <i>Vibrio Cholerae</i> Cytotoxin Involved in Membrane Binding. <i>Biophysical Journal</i> , 2015, 108, 81a-82a.	0.2	0