

Charles R Sanders

List of Publications by Year in descending order

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133
papers

7,030
citations

76294

40
h-index

66879

78
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147
all docs

147
docs citations

147
times ranked

5825
citing authors

#	ARTICLE	IF	CITATIONS
1	Compendium of causative genes and their encoded proteins for common monogenic disorders. <i>Protein Science</i> , 2022, 31, 75-91.	3.1	10
2	A Model for the Signal Initiation Complex Between Arrestin-3 and the Src Family Kinase Fgr. <i>Journal of Molecular Biology</i> , 2022, 434, 167400.	2.0	6
3	High-Content Imaging Platform to Discover Chemical Modulators of Plasma Membrane Rafts. <i>ACS Central Science</i> , 2022, 8, 370-378.	5.3	10
4	Verteporfin is a substrate-selective β -secretase inhibitor that binds the amyloid precursor protein transmembrane domain. <i>Journal of Biological Chemistry</i> , 2022, 298, 101792.	1.6	3
5	Predicting the functional impact of KCNQ1 variants with artificial neural networks. <i>PLoS Computational Biology</i> , 2022, 18, e1010038.	1.5	5
6	Investigating Structural Dynamics of KCNE3 in Different Membrane Environments Using Molecular Dynamics Simulations. <i>Membranes</i> , 2022, 12, 469.	1.4	3
7	Comparing the structural dynamics of the human KCNE3 in reconstituted micelle and lipid bilayered vesicle environments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183974.	1.4	5
8	Letter to the Editor: Distanced Inspiration from the Career of Stephen H. White. <i>Journal of Membrane Biology</i> , 2021, 254, 1-3.	1.0	0
9	Disease-linked supertrafficking of a potassium channel. <i>Journal of Biological Chemistry</i> , 2021, 296, 100423.	1.6	3
10	The C99 domain of the amyloid precursor protein resides in the disordered membrane phase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100652.	1.6	9
11	Disruption of the integrin-linked kinase (ILK) pseudokinase domain affects kidney development in mice. <i>Journal of Biological Chemistry</i> , 2021, 296, 100361.	1.6	5
12	Ion mobility-mass spectrometry reveals the role of peripheral myelin protein dimers in peripheral neuropathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
13	Structural determinants of cholesterol recognition in helical integral membrane proteins. <i>Biophysical Journal</i> , 2021, 120, 1592-1604.	0.2	12
14	Recombinant SARS-CoV-2 envelope protein traffics to the trans-Golgi network following amphipol-mediated delivery into human cells. <i>Journal of Biological Chemistry</i> , 2021, 297, 100940.	1.6	4
15	The transmembrane amyloid precursor C99 protein exhibits non-specific interaction with tau. <i>Biochemical and Biophysical Research Communications</i> , 2021, 576, 48-52.	1.0	2
16	Glycosylation limits forward trafficking of the tetraspan membrane protein PMP22. <i>Journal of Biological Chemistry</i> , 2021, 296, 100719.	1.6	12
17	Genetic intolerance analysis as a tool for protein science. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183058.	1.4	6
18	Collision-Induced Unfolding Differentiates Functional Variants of the KCNQ1 Voltage Sensor Domain. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2348-2355.	1.2	10

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19	Direct relationship between increased expression and mistrafficking of the Charcot-Marie-Tooth-associated protein PMP22. <i>Journal of Biological Chemistry</i> , 2020, 295, 11963-11970.	1.6	17
20	Structures Illuminate Cardiac Ion Channel Functions in Health and in Long QT Syndrome. <i>Frontiers in Pharmacology</i> , 2020, 11, 550.	1.6	23
21	Peripheral myelin protein 22 preferentially partitions into ordered phase membrane domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14168-14177.	3.3	29
22	Bicelles Rich in both Sphingolipids and Cholesterol and Their Use in Studies of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2020, 142, 12715-12729.	6.6	29
23	Structure and physiological function of the human KCNQ1 channel voltage sensor intermediate state. <i>ELife</i> , 2020, 9, .	2.8	36
24	Allosteric mechanism for KCNE1 modulation of KCNQ1 potassium channel activation. <i>ELife</i> , 2020, 9, .	2.8	19
25	Life During Wartime: A Personal Recollection of the Circa 1990 Prestegard Lab and Its Contributions to Membrane Biophysics. <i>Journal of Membrane Biology</i> , 2019, 252, 541-548.	1.0	2
26	Peripheral myelin protein 22 modulates store-operated calcium channel activity, providing insights into Charcot-Marie-Tooth disease etiology. <i>Journal of Biological Chemistry</i> , 2019, 294, 12054-12065.	1.6	15
27	A unified structural model of the mammalian translocator protein (TSPO). <i>Journal of Biomolecular NMR</i> , 2019, 73, 347-364.	1.6	12
28	The vexing complexity of the amyloidogenic pathway. <i>Protein Science</i> , 2019, 28, 1177-1193.	3.1	25
29	Reciprocal modulation between amyloid precursor protein and synaptic membrane cholesterol revealed by live cell imaging. <i>Neurobiology of Disease</i> , 2019, 127, 449-461.	2.1	18
30	Protein structure aids predicting functional perturbation of missense variants in SCN5A and KCNQ1. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 206-214.	1.9	19
31	NMR resonance assignments and secondary structure of a mutant form of the human KCNE1 channel accessory protein that exhibits KCNE3-like function. <i>Biomolecular NMR Assignments</i> , 2019, 13, 143-147.	0.4	2
32	Folding and Misfolding of Human Membrane Proteins in Health and Disease: From Single Molecules to Cellular Proteostasis. <i>Chemical Reviews</i> , 2019, 119, 5537-5606.	23.0	184
33	Probing the Dynamics and Structural Topology of the Reconstituted Human KCNQ1 Voltage Sensor Domain (Q1-VSD) in Lipid Bilayers Using Electron Paramagnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2019, 58, 965-973.	1.2	15
34	Upgraded molecular models of the human KCNQ1 potassium channel. <i>PLoS ONE</i> , 2019, 14, e0220415.	1.1	26
35	Bexarotene Binds to the Amyloid Precursor Protein Transmembrane Domain, Alters Its α -Helical Conformation, and Inhibits β -Secretase Nonselectively in Liposomes. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1702-1713.	1.7	11
36	Mechanisms of KCNQ1 channel dysfunction in long QT syndrome involving voltage sensor domain mutations. <i>Science Advances</i> , 2018, 4, eaar2631.	4.7	64

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37	Membrane properties that shape the evolution of membrane enzymes. <i>Current Opinion in Structural Biology</i> , 2018, 51, 80-91.	2.6	17
38	High-Throughput Functional Evaluation of <i>KCNQ1</i> Decrypts Variants of Unknown Significance. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e002345.	1.6	85
39	LCP1 preferentially binds clasped β_2 integrin and attenuates leukocyte adhesion under flow. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	16
40	De novo designed transmembrane peptides activating the β_1 integrin. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 181-190.	1.0	14
41	Structural and biochemical differences between the Notch and the amyloid precursor protein transmembrane domains. <i>Science Advances</i> , 2017, 3, e1602794.	4.7	38
42	Dodecyl- β -melibioside Detergent Micelles as a Medium for Membrane Proteins. <i>Biochemistry</i> , 2017, 56, 5481-5484.	1.2	16
43	Predicting the Functional Impact of <i>KCNQ1</i> Variants of Unknown Significance. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	40
44	Talin regulates integrin β_1 dependent and independent cell functions in ureteric bud development. <i>Development (Cambridge)</i> , 2017, 144, 4148-4158.	1.2	8
45	Structural Dynamics of 15-Lipoxygenase-2 via Hydrogen-Deuterium Exchange. <i>Biochemistry</i> , 2017, 56, 5065-5074.	1.2	18
46	Peripheral myelin protein 22 alters membrane architecture. <i>Science Advances</i> , 2017, 3, e1700220.	4.7	49
47	Backbone Hydrogen Bond Strengths Can Vary Widely in Transmembrane Helices. <i>Journal of the American Chemical Society</i> , 2017, 139, 10742-10749.	6.6	36
48	Regulation of <i>KCNQ/Kv7</i> family voltage-gated K ⁺ channels by lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 586-597.	1.4	36
49	Structural basis for <i>KCNE3</i> modulation of potassium recycling in epithelia. <i>Science Advances</i> , 2016, 2, e1501228.	4.7	45
50	Transthyretin Suppresses Amyloid- β Secretion by Interfering with Processing of the Amyloid- β Protein Precursor. <i>Journal of Alzheimer's Disease</i> , 2016, 52, 1263-1275.	1.2	18
51	Documentation of an Imperative To Improve Methods for Predicting Membrane Protein Stability. <i>Biochemistry</i> , 2016, 55, 5002-5009.	1.2	46
52	A pH-Mediated Topological Switch within the N-Terminal Domain of Human Caveolin-3. <i>Biophysical Journal</i> , 2016, 110, 2475-2485.	0.2	9
53	Structural and Molecular Determinants of Membrane Binding by the HIV-1 Matrix Protein. <i>Journal of Molecular Biology</i> , 2016, 428, 1637-1655.	2.0	82
54	Topologically Diverse Human Membrane Proteins Partition to Liquid-Disordered Domains in Phase-Separated Lipid Vesicles. <i>Biochemistry</i> , 2016, 55, 985-988.	1.2	19

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55	Implications of the differing roles of the \hat{I}^{21} and \hat{I}^{23} transmembrane and cytoplasmic domains for integrin function. <i>ELife</i> , 2016, 5, .	2.8	29
56	How \hat{I}^3 -secretase hits a moving target. <i>ELife</i> , 2016, 5, .	2.8	7
57	Perplexing new insight into the dynamics of the EmrE transporter. <i>Journal of General Physiology</i> , 2015, 146, 441-444.	0.9	3
58	Influence of Arrestin on the Photodecay of Bovine Rhodopsin. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13555-13560.	7.2	8
59	Development of electron spin echo envelope modulation spectroscopy to probe the secondary structure of recombinant membrane proteins in a lipid bilayer. <i>Protein Science</i> , 2015, 24, 1707-1713.	3.1	13
60	Influence of Pathogenic Mutations on the Energetics of Translocon-Mediated Bilayer Integration of Transmembrane Helices. <i>Journal of Membrane Biology</i> , 2015, 248, 371-381.	1.0	23
61	Notch Transmembrane Domain: Secondary Structure and Topology. <i>Biochemistry</i> , 2015, 54, 3565-3568.	1.2	22
62	The safety dance: biophysics of membrane protein folding and misfolding in a cellular context. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 1-34.	2.4	41
63	Conformational Stability and Pathogenic Misfolding of the Integral Membrane Protein PMP22. <i>Journal of the American Chemical Society</i> , 2015, 137, 8758-8768.	6.6	54
64	Biophysical characterization of interactions between the C-termini of peripheral nerve claudins and the PDZ1 domain of zonula occludens. <i>Biochemical and Biophysical Research Communications</i> , 2015, 459, 87-93.	1.0	1
65	Personalized Biochemistry and Biophysics. <i>Biochemistry</i> , 2015, 54, 2551-2559.	1.2	31
66	Probing Structural Dynamics and Topology of the KCNE1 Membrane Protein in Lipid Bilayers via Site-Directed Spin Labeling and Electron Paramagnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2015, 54, 6402-6412.	1.2	26
67	Cholesterol as a co-solvent and a ligand for membrane proteins. <i>Protein Science</i> , 2014, 23, 1-22.	3.1	117
68	Impact of Bilayer Lipid Composition on the Structure and Topology of the Transmembrane Amyloid Precursor C99 Protein. <i>Journal of the American Chemical Society</i> , 2014, 136, 4093-4096.	6.6	51
69	The Homology Model of PMP22 Suggests Mutations Resulting in Peripheral Neuropathy Disrupt Transmembrane Helix Packing. <i>Biochemistry</i> , 2014, 53, 6139-6141.	1.2	21
70	Structural Investigation of the Transmembrane Domain of KCNE1 in Proteoliposomes. <i>Biochemistry</i> , 2014, 53, 6392-6401.	1.2	42
71	Purification and Structural Study of the Voltage-Sensor Domain of the Human KCNQ1 Potassium Ion Channel. <i>Biochemistry</i> , 2014, 53, 2032-2042.	1.2	34
72	Competition Between Homodimerization and Cholesterol Binding to the C99 Domain of the Amyloid Precursor Protein. <i>Biochemistry</i> , 2013, 52, 5051-5064.	1.2	108

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73	The Backbone Dynamics of the Amyloid Precursor Protein Transmembrane Helix Provides a Rationale for the Sequential Cleavage Mechanism of β -Secretase. <i>Journal of the American Chemical Society</i> , 2013, 135, 1317-1329.	6.6	71
74	Reversible Folding of Human Peripheral Myelin Protein 22, a Tetraspan Membrane Protein. <i>Biochemistry</i> , 2013, 52, 3229-3241.	1.2	36
75	An Allosteric Mechanism for Drug Block of the Human Cardiac Potassium Channel KCNQ1. <i>Molecular Pharmacology</i> , 2013, 83, 481-489.	1.0	14
76	β 1 Integrin NPXY Motifs Regulate Kidney Collecting-Duct Development and Maintenance by Induced-Fit Interactions with Cytosolic Proteins. <i>Molecular and Cellular Biology</i> , 2012, 32, 4080-4091.	1.1	11
77	Enhancing Integrin β 1 Inserted (I) Domain Affinity to Ligand Potentiates Integrin β 1 β 1-mediated Down-regulation of Collagen Synthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 35139-35152.	1.6	22
78	Bicelles at Low Concentrations. <i>Molecular Pharmaceutics</i> , 2012, 9, 752-761.	2.3	46
79	The Amyloid Precursor Protein Has a Flexible Transmembrane Domain and Binds Cholesterol. <i>Science</i> , 2012, 336, 1168-1171.	6.0	438
80	Prokaryotic Diacylglycerol Kinase and Undecaprenol Kinase. <i>Annual Review of Biophysics</i> , 2012, 41, 81-101.	4.5	63
81	NSAID-Based β -Secretase Modulators Do Not Bind to the Amyloid- β Polypeptide. <i>Biochemistry</i> , 2011, 50, 10328-10342.	1.2	21
82	Reconstitution of KCNE1 into Lipid Bilayers: Comparing the Structural, Dynamic, and Activity Differences in Micelle and Vesicle Environments. <i>Biochemistry</i> , 2011, 50, 10851-10859.	1.2	31
83	Tolerance to Changes in Membrane Lipid Composition as a Selected Trait of Membrane Proteins. <i>Biochemistry</i> , 2011, 50, 7858-7867.	1.2	75
84	Solution NMR Approaches for Establishing Specificity of Weak Heterodimerization of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 20571-20580.	6.6	23
85	Structural Basis for the Trembler-J Phenotype of Charcot-Marie-Tooth Disease. <i>Structure</i> , 2011, 19, 1160-1169.	1.6	41
86	Working model for the structural basis for KCNE1 modulation of the KCNQ1 potassium channel. <i>Current Opinion in Structural Biology</i> , 2011, 21, 283-291.	2.6	28
87	KCNQ1/KCNE1 assembly, co-translation not required. <i>Channels</i> , 2010, 4, 108-114.	1.5	18
88	Functional Delivery of a Membrane Protein into Oocyte Membranes Using Bicelles. <i>Biochemistry</i> , 2010, 49, 653-655.	1.2	36
89	Lysophospholipid Micelles Sustain the Stability and Catalytic Activity of Diacylglycerol Kinase in the Absence of Lipids. <i>Biochemistry</i> , 2010, 49, 7089-7099.	1.2	38
90	Direct binding of cholesterol to the amyloid precursor protein: An important interaction in lipid- β -Alzheimer's disease relationships?. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 975-982.	1.2	146

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91	Distinct subdomains of the KCNQ1 S6 segment determine channel modulation by different KCNE subunits. <i>Journal of General Physiology</i> , 2009, 134, 207-217.	0.9	20
92	Solution Nuclear Magnetic Resonance Structure of Membrane-Integral Diacylglycerol Kinase. <i>Science</i> , 2009, 324, 1726-1729.	6.0	205
93	A unified hydrophobicity scale for multispan membrane proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 76, 13-29.	1.5	51
94	Recent advances in the application of solution NMR spectroscopy to multi-span integral membrane proteins. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2009, 55, 335-360.	3.9	140
95	Bolaamphiphile-Class Surfactants Can Stabilize and Support the Function of Solubilized Integral Membrane Proteins. <i>Biochemistry</i> , 2009, 48, 11606-11608.	1.2	25
96	Nonspecificity of Binding of \hat{I}^3 -Secretase Modulators to the Amyloid Precursor Protein. <i>Biochemistry</i> , 2009, 48, 11837-11839.	1.2	41
97	NMR based structure and enzymatic insight into diacylglycerol kinase, an alpha-helical membrane protein. <i>FASEB Journal</i> , 2009, 23, LB223.	0.2	0
98	Development and Application of Bicelles for Use in Biological NMR and Other Biophysical Studies. , 2008, , 233-239.		5
99	Cross-talk between integrins $\hat{I}^{\pm 1}$ and $\hat{I}^{\pm 2}$ in renal epithelial cells. <i>Experimental Cell Research</i> , 2008, 314, 3593-3604.	1.2	29
100	Structural Studies of the Transmembrane C-Terminal Domain of the Amyloid Precursor Protein (APP): Does APP Function as a Cholesterol Sensor?. <i>Biochemistry</i> , 2008, 47, 9428-9446.	1.2	159
101	Structure of KCNE1 and Implications for How It Modulates the KCNQ1 Potassium Channel. <i>Biochemistry</i> , 2008, 47, 7999-8006.	1.2	183
102	The Peripheral Neuropathy-Linked Trembler and Trembler-J Mutant Forms of Peripheral Myelin Protein 22 Are Folding-Destabilized. <i>Biochemistry</i> , 2008, 47, 10620-10629.	1.2	29
103	Visiting order on membrane proteins by using nanotechnology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6502-6503.	3.3	4
104	Purification and Initiation of Structural Characterization of Human Peripheral Myelin Protein 22, an Integral Membrane Protein Linked to Peripheral Neuropathies. <i>Biochemistry</i> , 2007, 46, 11185-11195.	1.2	21
105	Preparation, Functional Characterization, and NMR Studies of Human KCNE1, a Voltage-Gated Potassium Channel Accessory Subunit Associated with Deafness and Long QT Syndrome. <i>Biochemistry</i> , 2007, 46, 11459-11472.	1.2	61
106	Structural Models for the KCNQ1 Voltage-Gated Potassium Channel. <i>Biochemistry</i> , 2007, 46, 14141-14152.	1.2	90
107	A Structure for Little Orphan Diacylglycerol Kinase. <i>FASEB Journal</i> , 2007, 21, A148.	0.2	0
108	Irreversible Misfolding of Diacylglycerol Kinase Is Independent of Aggregation and Occurs Prior to Trimerization and Membrane Association. <i>Biochemistry</i> , 2006, 45, 10072-10084.	1.2	18

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109	Post-integration Misassembly of Membrane Proteins and Disease. , 2006, , 81-94.		0
110	Solution NMR of membrane proteins: practice and challenges. Magnetic Resonance in Chemistry, 2006, 44, S24-S40.	1.1	210
111	Phenotology of disease-linked proteins. Human Mutation, 2005, 25, 90-97.	1.1	11
112	Disease-Related Misassembly of Membrane Proteins. Annual Review of Biophysics and Biomolecular Structure, 2004, 33, 25-51.	18.3	228
113	French Swimwear for Membrane Proteins. ChemBioChem, 2004, 5, 423-426.	1.3	77
114	Destabilizing Mutations Promote Membrane Protein Misfolding. Biochemistry, 2004, 43, 19-25.	1.2	45
115	A Critical Residue in the Folding Pathway of an Integral Membrane Protein. Biochemistry, 2002, 41, 9021-9025.	1.2	18
116	Amphipols Can Support the Activity of a Membrane Enzyme. Journal of the American Chemical Society, 2002, 124, 11594-11595.	6.6	69
117	Kinetic Study of Folding and Misfolding of Diacylglycerol Kinase in Model Membranes. Biochemistry, 2001, 40, 8971-8980.	1.2	57
118	Use of amphipathic polymers to deliver a membrane protein to lipid bilayers. FEBS Letters, 2001, 501, 115-120.	1.3	62
119	Mutations of Peripheral Myelin Protein 22 Result in Defective Trafficking through Mechanisms Which May Be Common to Diseases Involving Tetraspan Membrane Proteins. Biochemistry, 2001, 40, 9453-9459.	1.2	67
120	Conformationally Specific Misfolding of an Integral Membrane Protein. Biochemistry, 2001, 40, 5111-5118.	1.2	24
121	Functionality of a Membrane Protein in Bicelles. Analytical Biochemistry, 2000, 284, 327-333.	1.1	94
122	Misfolding of membrane proteins in health and disease: the lady or the tiger?. Current Opinion in Structural Biology, 2000, 10, 438-442.	2.6	96
123	Thiol modification of diacylglycerol kinase: dependence upon site membrane disposition and reagent hydrophobicity. FEBS Letters, 2000, 472, 225-229.	1.3	13
124	Reconstitutive Refolding of Diacylglycerol Kinase, an Integral Membrane Protein. Biochemistry, 1999, 38, 16373-16382.	1.2	82
125	On choosing a detergent for solution NMR studies of membrane proteins. Journal of Biomolecular NMR, 1998, 11, 381-386.	1.6	107
126	Bicelles: a model membrane system for all seasons?. Structure, 1998, 6, 1227-1234.	1.6	324

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127	Reconstitution of Membrane Proteins into Lipid-Rich Bilayered Mixed Micelles for NMR Studies. <i>Biochemistry</i> , 1995, 34, 4030-4040.	1.2	332
128	Magnetically-oriented phospholipid micelles as a tool for the study of membrane-associated molecules. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1994, 26, 421-444.	3.9	383
129	Characterization of magnetically orientable bilayers in mixtures of dihexanoylphosphatidylcholine and dimyristoylphosphatidylcholine by solid-state NMR. <i>Biochemistry</i> , 1992, 31, 8898-8905.	1.2	466
130	Headgroup orientations of alkyl glycosides at a lipid bilayer interface. <i>Journal of the American Chemical Society</i> , 1992, 114, 7096-7107.	6.6	31
131	Orientation and dynamics of .beta.-dodecyl glucopyranoside in phospholipid bilayers by oriented sample NMR and order matrix analysis. <i>Journal of the American Chemical Society</i> , 1991, 113, 1987-1996.	6.6	53
132	Mechanism of adenylate kinase. Is there a relationship between local substrate dynamics, and local binding energy, and the catalytic mechanism?. <i>Biochemistry</i> , 1989, 28, 9028-9043.	1.2	42
133	Mechanism of adenylate kinase. 3. Use of deuterium NMR to show lack of correlation between local substrate dynamics and local binding energy. <i>Journal of the American Chemical Society</i> , 1988, 110, 3323-3324.	6.6	5