

Harel Weinstein

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

301
papers

17,175
citations

67
h-index

121
g-index

374
ext. papers

18,720
ext. citations

6
avg, IF

6.68
L-index

#	Paper	IF	Citations
301	Phosphatidylinositol Phosphates Modulate Interactions between the StarD4 Sterol Trafficking Protein and Lipid Membranes. <i>Journal of Biological Chemistry</i> , 2022 , 102058	5.4	1
300	Ca -dependent mechanism of membrane insertion and destabilization by the SARS-CoV-2 fusion peptide 2021 ,		1
299	Localization atomic force microscopy. <i>Nature</i> , 2021 , 594, 385-390	50.4	20
298	A Graphic Encoding Method for Quantitative Classification of Protein Structure and Representation of Conformational Changes. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , 18, 1336-1349	3	3
297	A lightweight method for evaluating in situ workflow efficiency. <i>Journal of Computational Science</i> , 2021 , 48, 101259	3.4	1
296	Elucidating the Mechanism of Membrane Destabilization by the Preferred Modes of Insertion of the Sars-Cov2 Fusion Peptide. <i>Biophysical Journal</i> , 2021 , 120, 110a	2.9	78
295	A Machine Learning Algorithm for the Detection of Function-Related Rare Events in MD Trajectories of Biomolecular Systems. <i>Biophysical Journal</i> , 2021 , 120, 301a	2.9	3
294	Ca-dependent mechanism of membrane insertion and destabilization by the SARS-CoV-2 fusion peptide. <i>Biophysical Journal</i> , 2021 , 120, 1105-1119	2.9	21
293	Use of paramagnetic F NMR to monitor domain movement in a glutamate transporter homolog. <i>Nature Chemical Biology</i> , 2020 , 16, 1006-1012	11.7	14
292	X-ray structure of LeuT in an inward-facing occluded conformation reveals mechanism of substrate release. <i>Nature Communications</i> , 2020 , 11, 1005	17.4	15
291	Substrate-selective protein ectodomain shedding by ADAM17 and iRhom2 depends on their jxtamembrane and transmembrane domains. <i>FASEB Journal</i> , 2020 , 34, 4956-4969	0.9	11
290	A Novel Metric to Evaluate In Situ Workflows. <i>Lecture Notes in Computer Science</i> , 2020 , 538-553	0.9	0
289	The Role of Direct Effects of Drugs of Abuse Binding to the hDAT Molecule in their Diverse Behavioral Phenotypes. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
288	Structural Basis of Lipid Scrambling and Ion Conduction by TMEM16 Scramblases. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
287	Membrane lipids are both the substrates and a mechanistically responsive environment of TMEM16 scramblase proteins. <i>Journal of Computational Chemistry</i> , 2020 , 41, 538-551	3.5	6
286	GPCRmd uncovers the dynamics of the 3D-GPCRome. <i>Nature Methods</i> , 2020 , 17, 777-787	21.6	34
285	A New Computational Method for Membrane Compressibility: Bilayer Mechanical Thickness Revisited. <i>Biophysical Journal</i> , 2019 , 116, 487-502	2.9	34

284	A Machine Learning Approach for the Discovery of Ligand-Specific Functional Mechanisms of GPCRs. <i>Molecules</i> , 2019 , 24,	4.8	19
283	Gramicidin Increases Lipid Flip-Flop in Symmetric and Asymmetric Lipid Vesicles. <i>Biophysical Journal</i> , 2019 , 116, 860-873	2.9	31
282	Channelrhodopsin-2 Function is Modulated by Residual Hydrophobic Mismatch with the Surrounding Lipid Environment. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2674	2.6	1
281	Dynamic modulation of the lipid translocation groove generates a conductive ion channel in Ca-bound nhTMEM16. <i>Nature Communications</i> , 2019 , 10, 4972	17.4	10
280	The allosteric mechanism of substrate-specific transport in SLC6 is mediated by a volumetric sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15947-15956	11.5	16
279	A partially-open inward-facing intermediate conformation of LeuT is associated with Na release and substrate transport. <i>Nature Communications</i> , 2018 , 9, 230	17.4	28
278	Mechanisms of Lipid Scrambling by the G Protein-Coupled Receptor Opsin. <i>Structure</i> , 2018 , 26, 356-367.	9.3	35
277	How structural elements evolving from bacterial to human SLC6 transporters enabled new functional properties. <i>BMC Biology</i> , 2018 , 16, 31	7.3	25
276	Gating mechanism of the extracellular entry to the lipid pathway in a TMEM16 scramblase. <i>Nature Communications</i> , 2018 , 9, 3251	17.4	51
275	The LeuT-fold neurotransmitter:sodium symporter MhsT has two substrate sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7924-E7931	11.5	14
274	Thermodynamic Coupling Function Analysis of Allosteric Mechanisms in the Human Dopamine Transporter. <i>Biophysical Journal</i> , 2018 , 114, 10-14	2.9	11
273	Graphic Encoding of Macromolecules for Efficient High-Throughput Analysis 2018 ,		3
272	Accurate In Silico Modeling of Asymmetric Bilayers Based on Biophysical Principles. <i>Biophysical Journal</i> , 2018 , 115, 1638-1643	2.9	26
271	An Amphipathic Helix Directs Cellular Membrane Curvature Sensing and Function of the BAR Domain Protein PICK1. <i>Cell Reports</i> , 2018 , 23, 2056-2069	10.6	21
270	Structural modeling defines transmembrane residues in ADAM17 that are crucial for Rhbdf2-ADAM17-dependent proteolysis. <i>Journal of Cell Science</i> , 2017 , 130, 868-878	5.3	25
269	A Markov State-based Quantitative Kinetic Model of Sodium Release from the Dopamine Transporter. <i>Scientific Reports</i> , 2017 , 7, 40076	4.9	46
268	Single-molecule analysis of ligand efficacy in β AR-G-protein activation. <i>Nature</i> , 2017 , 547, 68-73	50.4	164
267	The role of transmembrane segment 5 (TM5) in Na ² release and the conformational transition of neurotransmitter:sodium symporters toward the inward-open state. <i>Journal of Biological Chemistry</i> , 2017 , 292, 7372-7384	5.4	17

266	Combined in vitro and in silico approaches to the assessment of stimulant properties of novel psychoactive substances - The case of the benzofuran 5-MAPB. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017 , 75, 1-9	5.5	16
265	Evolutionary Divergence of the C-terminal Domain of Complexin Accounts for Functional Disparities between Vertebrate and Invertebrate Complexins. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 146	6.1	13
264	Conformational Dynamics on the Extracellular Side of LeuT Controlled by Na ⁺ and K ⁺ Ions and the Protonation State of Glu290. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19786-99	5.4	16
263	Augmenting drug-carrier compatibility improves tumour nanotherapy efficacy. <i>Nature Communications</i> , 2016 , 7, 11221	17.4	96
262	The Allosteric Landscape: Quantifying Thermodynamic Couplings in Biomolecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 5758-5767	6.4	20
261	Role of Annular Lipids in the Functional Properties of Leucine Transporter LeuT Proteomicelles. <i>Biochemistry</i> , 2016 , 55, 850-9	3.2	10
260	Computational approaches to detect allosteric pathways in transmembrane molecular machines. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 1652-62	3.8	38
259	Allosteric Mechanisms of Molecular Machines at the Membrane: Transport by Sodium-Coupled Symporters. <i>Chemical Reviews</i> , 2016 , 116, 6552-87	68.1	59
258	A GIPC1-Palmitate Switch Modulates Dopamine Drd3 Receptor Trafficking and Signaling. <i>Molecular and Cellular Biology</i> , 2016 , 36, 1019-31	4.8	8
257	A mechanistic role of Helix 8 in GPCRs: Computational modeling of the dopamine D2 receptor interaction with the GIPC1-PDZ-domain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 976-83 ⁸	3.8	31
256	AIM for Allosterity: Using the Ising Model to Understand Information Processing and Transmission in Allosteric Biomolecular Systems. <i>Entropy</i> , 2015 , 17, 2895-2918	2.8	13
255	Structure of Dimeric and Tetrameric Complexes of the BAR Domain Protein PICK1 Determined by Small-Angle X-Ray Scattering. <i>Structure</i> , 2015 , 23, 1258-1270	5.2	24
254	Functional mechanisms of neurotransmitter transporters regulated by lipid-protein interactions of their terminal loops. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 1765-74	3.8	22
253	Substrate-induced unlocking of the inner gate determines the catalytic efficiency of a neurotransmitter:sodium symporter. <i>Journal of Biological Chemistry</i> , 2015 , 290, 26725-38	5.4	28
252	Spontaneous inward opening of the dopamine transporter is triggered by PIP2-regulated dynamics of the N-terminus. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 1825-37	5.7	75
251	Mechanism of the Association between Na ⁺ Binding and Conformations at the Intracellular Gate in Neurotransmitter:Sodium Symporters. <i>Journal of Biological Chemistry</i> , 2015 , 290, 13992-4003	5.4	41
250	Computational Modeling of the N-Terminus of the Human Dopamine Transporter (hDAT). <i>Biophysical Journal</i> , 2015 , 108, 252a	2.9	2
249	Computational modeling of the N-terminus of the human dopamine transporter and its interaction with PIP2 -containing membranes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015 , 83, 952-69	4.2	39

248	Transport domain unlocking sets the uptake rate of an aspartate transporter. <i>Nature</i> , 2015 , 518, 68-73	50.4	120
247	The second sodium site in the dopamine transporter controls cation permeation and is regulated by chloride. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25764-73	5.4	30
246	A functional selectivity mechanism at the serotonin-2A GPCR involves ligand-dependent conformations of intracellular loop 2. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16044-54	16.4	55
245	Protein and lipid interactions driving molecular mechanisms of in meso crystallization. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3271-84	16.4	15
244	Not just an oil slick: how the energetics of protein-membrane interactions impacts the function and organization of transmembrane proteins. <i>Biophysical Journal</i> , 2014 , 106, 2305-16	2.9	46
243	PIP2 regulates psychostimulant behaviors through its interaction with a membrane protein. <i>Nature Chemical Biology</i> , 2014 , 10, 582-589	11.7	83
242	Conformational dynamics of ligand-dependent alternating access in LeuT. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 472-9	17.6	102
241	NbIT--a new information theory-based analysis of allosteric mechanisms reveals residues that underlie function in the leucine transporter LeuT. <i>PLoS Computational Biology</i> , 2014 , 10, e1003603	5	68
240	ESCRT-II/Vps25 constrains digit number by endosome-mediated selective modulation of FGF-SHH signaling. <i>Cell Reports</i> , 2014 , 9, 674-87	10.6	8
239	Conformational changes in dopamine transporter intracellular regions upon cocaine binding and dopamine translocation. <i>Neurochemistry International</i> , 2014 , 73, 4-15	4.4	10
238	Missense dopamine transporter mutations associate with adult parkinsonism and ADHD. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3107-20	15.9	80
237	How the dynamic properties and functional mechanisms of GPCRs are modulated by their coupling to the membrane environment. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 796, 55-74	3.6	21
236	Membrane driven spatial organization of GPCRs. <i>Scientific Reports</i> , 2013 , 3, 2909	4.9	86
235	The membrane protein LeuT in micellar systems: aggregation dynamics and detergent binding to the S2 site. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14266-75	16.4	29
234	The cost of living in the membrane: a case study of hydrophobic mismatch for the multi-segment protein LeuT. <i>Chemistry and Physics of Lipids</i> , 2013 , 169, 27-38	3.7	38
233	Chloride binding site of neurotransmitter sodium symporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8489-94	11.5	65
232	Turkey must end violent response to protests. <i>Science</i> , 2013 , 341, 236	33.3	2
231	Experimental conditions can obscure the second high-affinity site in LeuT. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 207-11	17.6	82

230	Interaction with the Membrane Uncovers Essential Differences Between Highly Homologous GPCRs. <i>Biophysical Journal</i> , 2012 , 102, 514a	2.9	2
229	Why GPCRs behave differently in cubic and lamellar lipidic mesophases. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15858-68	16.4	44
228	Phosphatidylinositol 4,5-biphosphate (PIP(2)) lipids regulate the phosphorylation of syntaxin N-terminus by modulating both its position and local structure. <i>Biochemistry</i> , 2012 , 51, 7685-98	3.2	21
227	Structural intermediates in a model of the substrate translocation path of the bacterial glutamate transporter homologue GltPh. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5372-83	3.4	40
226	Ion-controlled conformational dynamics in the outward-open transition from an occluded state of LeuT. <i>Biophysical Journal</i> , 2012 , 103, 878-88	2.9	77
225	9.12 Interactions of the Cell Membrane with Integral Proteins 2012 , 229-242		2
224	Structural Intermediates in a Model of the Substrate Translocation Path in the Bacterial Glutamate Transporter Homologue GltPh. <i>Biophysical Journal</i> , 2012 , 102, 519a	2.9	2
223	In support of the BMRB. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 854-60	17.6	5
222	9.1 Theoretical Biophysics: A Cornerstone of Understanding in Modern Biology and Biomedicine 2012 , 1		
221	Ligand-dependent conformations and dynamics of the serotonin 5-HT(2A) receptor determine its activation and membrane-driven oligomerization properties. <i>PLoS Computational Biology</i> , 2012 , 8, e1002473	5.5	84
220	Steric hindrance mutagenesis in the conserved extracellular vestibule impedes allosteric binding of antidepressants to the serotonin transporter. <i>Journal of Biological Chemistry</i> , 2012 , 287, 39316-26	5.4	74
219	Pharmacologically Distinct Ligands Induce Different States of 5-HT2AR and Trigger Different Membrane Remodeling: Implications For GPCR Oligomerization. <i>Biophysical Journal</i> , 2011 , 100, 254a	2.9	4
218	Quantitative modeling of membrane deformations by multihelical membrane proteins: application to G-protein coupled receptors. <i>Biophysical Journal</i> , 2011 , 101, 2092-101	2.9	76
217	The correlation between multidomain enzymes and multiple activation mechanisms--the case of phospholipase C β and its membrane interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 2940-7	3.8	7
216	PDZ binding to the BAR domain of PICK1 is elucidated by coarse-grained molecular dynamics. <i>Journal of Molecular Biology</i> , 2011 , 405, 298-314	6.5	34
215	The binding sites for benzotropines and dopamine in the dopamine transporter overlap. <i>Neuropharmacology</i> , 2011 , 60, 182-90	5.5	49
214	Substrate-modulated gating dynamics in a Na ⁺ -coupled neurotransmitter transporter homologue. <i>Nature</i> , 2011 , 474, 109-13	50.4	244
213	A dynamic model of membrane-bound phospholipase C β activation by G β subunits. <i>Molecular Pharmacology</i> , 2011 , 80, 434-45	4.3	18

212	The substrate-driven transition to an inward-facing conformation in the functional mechanism of the dopamine transporter. <i>PLoS ONE</i> , 2011 , 6, e16350	3.7	99
211	Ion/substrate-dependent conformational dynamics of a bacterial homolog of neurotransmitter:sodium symporters. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 822-9	17.6	157
210	Single-molecule dynamics of gating in a neurotransmitter transporter homologue. <i>Nature</i> , 2010 , 465, 188-93	50.4	213
209	Substrate-dependent proton antiport in neurotransmitter:sodium symporters. <i>Nature Chemical Biology</i> , 2010 , 6, 109-16	11.7	48
208	Identification of a small-molecule inhibitor of the PICK1 PDZ domain that inhibits hippocampal LTP and LTD. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4138-41	11.5	86
207	Conformational rearrangements to the intracellular open states of the LeuT and ApcT transporters are modulated by common mechanisms. <i>Biophysical Journal</i> , 2010 , 99, L103-5	2.9	41
206	Cholesterol modulates the membrane effects and spatial organization of membrane-penetrating ligands for G-protein coupled receptors. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12046-57	3.4	30
205	Structure-activity relationships of a small-molecule inhibitor of the PDZ domain of PICK1. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 4281-8	3.9	28
204	Probing the structural determinants for the function of intracellular loop 2 in structurally cognate G-protein-coupled receptors. <i>Biochemistry</i> , 2010 , 49, 10691-701	3.2	16
203	TRAC: A Platform for Structure-Function Studies of NSS-Proteins Integrates Information from Bioinformatics and Biomedical Literature 2010 ,		1
202	Structural Basis of Dopamine Receptor Activation 2010 , 47-73		3
201	Ligand selectivity of D2 dopamine receptors is modulated by changes in local dynamics produced by sodium binding. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 328, 40-54	4.7	29
200	Binding of an octylglucoside detergent molecule in the second substrate (S2) site of LeuT establishes an inhibitor-bound conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5563-8	11.5	160
199	A juxtamembrane mutation in the N terminus of the dopamine transporter induces preference for an inward-facing conformation. <i>Molecular Pharmacology</i> , 2009 , 75, 514-24	4.3	56
198	Structural and dynamic effects of cholesterol at preferred sites of interaction with rhodopsin identified from microsecond length molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 76, 403-17	4.2	100
197	Models for molecular mechanisms in drug receptor interactions. Serotonin and 5-hydroxyindole complexes with imidazolium cation. <i>International Journal of Quantum Chemistry</i> , 2009 , 12, 253-268	2.1	
196	Theoretical models for molecular mechanisms in biological systems: Tryptamine congeners acting on an LSD serotonin receptor. <i>International Journal of Quantum Chemistry</i> , 2009 , 14, 449-461	2.1	
195	The solvent effect in enzyme substrate interactions: Models of carboxypeptidase. <i>International Journal of Quantum Chemistry</i> , 2009 , 22, 355-365	2.1	

194	Theoretical studies on the activation mechanism of the histamine H2-receptor: The guanidine substitution and its role in the partial agonism of N(alpha)-guanylhistamine. <i>International Journal of Quantum Chemistry</i> , 2009 , 24, 293-300	2.1	1
193	Molecular determinants for recognition of phencyclidine derivatives at muscarinic cholinergic receptors. <i>International Journal of Quantum Chemistry</i> , 2009 , 24, 309-320	2.1	
192	Theoretical studies of the activation mechanism of histamine H2-receptors: Dimaprit and the receptor model. <i>International Journal of Quantum Chemistry</i> , 2009 , 36, 281-290	2.1	
191	Some new quantum chemical procedures for the analysis of drug-receptor interactions. <i>International Journal of Quantum Chemistry</i> , 2009 , 9, 59-69	2.1	
190	Reactivity characteristics of large molecules and their biological activity: Indolealkylamines on the LSD/serotonin receptor. <i>International Journal of Quantum Chemistry</i> , 2009 , 10, 135-150	2.1	
189	Allosteric communication between protomers of dopamine class A GPCR dimers modulates activation. <i>Nature Chemical Biology</i> , 2009 , 5, 688-95	11.7	294
188	Towards a quantitative representation of the cell signaling mechanisms of hallucinogens: measurement and mathematical modeling of 5-HT1A and 5-HT2A receptor-mediated ERK1/2 activation. <i>Neuropharmacology</i> , 2009 , 56 Suppl 1, 213-25	5.5	19
187	Modeling membrane deformations and lipid demixing upon protein-membrane interaction: the BAR dimer adsorption. <i>Biophysical Journal</i> , 2009 , 97, 1626-35	2.9	55
186	Probing the Dynamic Structure and Function of Intracellular Loop 2 in Structurally Cognate GPCRs. <i>Biophysical Journal</i> , 2009 , 96, 429a-430a	2.9	1
185	The binding sites for cocaine and dopamine in the dopamine transporter overlap. <i>Nature Neuroscience</i> , 2008 , 11, 780-9	25.5	260
184	Mutations affecting the oligomerization interface of G-protein-coupled receptors revealed by a novel de novo protein design framework. <i>Biophysical Journal</i> , 2008 , 94, 2470-81	2.9	22
183	Protein diffusion on charged membranes: a dynamic mean-field model describes time evolution and lipid reorganization. <i>Biophysical Journal</i> , 2008 , 94, 2580-97	2.9	49
182	The mechanism of a neurotransmitter:sodium symporter--inward release of Na ⁺ and substrate is triggered by substrate in a second binding site. <i>Molecular Cell</i> , 2008 , 30, 667-77	17.6	308
181	Active state-like conformational elements in the beta2-AR and a photoactivated intermediate of rhodopsin identified by dynamic properties of GPCRs. <i>Biochemistry</i> , 2008 , 47, 7317-21	3.2	18
180	Effects of tobacco smoke on gene expression and cellular pathways in a cellular model of oral leukoplakia. <i>Cancer Prevention Research</i> , 2008 , 1, 100-11	3.2	47
179	An intracellular interaction network regulates conformational transitions in the dopamine transporter. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17691-701	5.4	108
178	Identification of GATC- and CCGG-recognizing Type II REases and their putative specificity-determining positions using Scan2S--a novel motif scan algorithm with optional secondary structure constraints. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 631-40	4.2	2
177	Membrane localization is critical for activation of the PICK1 BAR domain. <i>Traffic</i> , 2008 , 9, 1327-43	5.7	41

176	Hallucinogen Actions on 5-HT Receptors Reveal Distinct Mechanisms of Activation and Signaling by G Protein-Coupled Receptors 2008 , 265-286		
175	Sodium-induced allosteric changes in D2 dopamine receptor local dynamics modulate ligand selectivity. <i>FASEB Journal</i> , 2008 , 22, 727.4	0.9	
174	Topology of Type II REases revisited; structural classes and the common conserved core. <i>Nucleic Acids Research</i> , 2007 , 35, 2227-37	20.1	32
173	Functional selectivity and classical concepts of quantitative pharmacology. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 320, 1-13	4.7	870
172	Toward realistic modeling of dynamic processes in cell signaling: quantification of macromolecular crowding effects. <i>Journal of Chemical Physics</i> , 2007 , 127, 155105	3.9	55
171	State-dependent conformations of the translocation pathway in the tyrosine transporter Tyt1, a novel neurotransmitter:sodium symporter from <i>Fusobacterium nucleatum</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 26444-54	5.4	77
170	A comprehensive structure-based alignment of prokaryotic and eukaryotic neurotransmitter/Na ⁺ symporters (NSS) aids in the use of the LeuT structure to probe NSS structure and function. <i>Molecular Pharmacology</i> , 2006 , 70, 1630-42	4.3	232
169	Trefoil factor family-1 mutations enhance gastric cancer cell invasion through distinct signaling pathways. <i>Gastroenterology</i> , 2006 , 130, 1696-706	13.3	33
168	Thermodynamic basis for promiscuity and selectivity in protein-protein interactions: PDZ domains, a case study. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12766-77	16.4	96
167	Ab initio computational modeling of loops in G-protein-coupled receptors: lessons from the crystal structure of rhodopsin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 64, 673-90	4.2	35
166	Dynamic models of G-protein coupled receptor dimers: indications of asymmetry in the rhodopsin dimer from molecular dynamics simulations in a POPC bilayer. <i>Journal of Computer-Aided Molecular Design</i> , 2006 , 20, 405-16	4.2	59
165	Modeling activated states of GPCRs: the rhodopsin template. <i>Journal of Computer-Aided Molecular Design</i> , 2006 , 20, 437-48	4.2	62
164	Hallucinogen actions on 5-HT receptors reveal distinct mechanisms of activation and signaling by G protein-coupled receptors. <i>AAPS Journal</i> , 2006 , 7, E871-84	3.7	27
163	Transmembrane five effects on functional selectivity at the dopamine D2L receptor. <i>FASEB Journal</i> , 2006 , 20, A246	0.9	
162	A flexible docking procedure for the exploration of peptide binding selectivity to known structures and homology models of PDZ domains. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14072-9	16.4	63
161	Oligomerization Domains of G Protein-Coupled Receptors 2005 , 243-265		4
160	A pincer-like configuration of TM2 in the human dopamine transporter is responsible for indirect effects on cocaine binding. <i>Neuropharmacology</i> , 2005 , 49, 780-90	5.5	36
159	PDZBase: a protein-protein interaction database for PDZ-domains. <i>Bioinformatics</i> , 2005 , 21, 827-8	7.2	160

158	The study of G-protein coupled receptor oligomerization with computational modeling and bioinformatics. <i>FEBS Journal</i> , 2005 , 272, 2926-38	5.7	87
157	Epilogue: New Levels of Complexity in the Functional Roles of Modular Protein Interaction Domains: Switches and Sockets in the Circuit Diagrams of Cellular Systems Biology 2005 , 487-491		
156	Crosstalk in G protein-coupled receptors: changes at the transmembrane homodimer interface determine activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17495-500	11.5	252
155	Modeling membrane proteins based on low-resolution electron microscopy maps: a template for the TM domains of the oxalate transporter OxlT. <i>Protein Engineering, Design and Selection</i> , 2005 , 18, 119-25	1.0	14
154	Molecular determinants for the complex binding specificity of the PDZ domain in PICK1. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20539-48	5.4	61
153	Crooked tail (Cd) model of human folate-responsive neural tube defects is mutated in Wnt coreceptor lipoprotein receptor-related protein 6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12843-8	11.5	81
152	The structure and dynamics of GPCR oligomers: a new focus in models of cell-signaling mechanisms and drug design. <i>Current Opinion in Drug Discovery & Development</i> , 2005 , 8, 577-84		15
151	Mechanistic insights from a refined three-dimensional model of integrin alpha11bbeta3. <i>Journal of Biological Chemistry</i> , 2004 , 279, 24624-30	5.4	9
150	Certain 1,4-disubstituted aromatic piperidines and piperazines with extreme selectivity for the dopamine D4 receptor interact with a common receptor microdomain. <i>Molecular Pharmacology</i> , 2004 , 66, 1491-9	4.3	36
149	A knowledge-based scale for the analysis and prediction of buried and exposed faces of transmembrane domain proteins. <i>Bioinformatics</i> , 2004 , 20, 1822-35	7.2	66
148	Quantitative information management for the biochemical computation of cellular networks. <i>Science Signaling</i> , 2004 , 2004, pl11	8.8	26
147	Surface Tension Parameterization in Molecular Dynamics Simulations of a Phospholipid-bilayer Membrane: Calibration and Effects. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11802-11811	3.4	20
146	Molecular dynamics simulations of transducin: interdomain and front to back communication in activation and nucleotide exchange. <i>Journal of Molecular Biology</i> , 2004 , 338, 469-81	6.5	40
145	A Structural Context for Studying Neurotransmitter Transporter Function 2004 , 213-234		1
144	Functional Mechanisms of G Protein-Coupled Receptors in a Structural Context 2004 , 235-266		3
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