

# Matthew Jacobson

## 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.

198  
papers

16,919  
citations

60  
h-index

127  
g-index

230  
ext. papers

20,149  
ext. citations

7.2  
avg. IF

6.43  
L-index

#	Paper	IF	Citations
198	Modulating environmental signals to reveal mechanisms and vulnerabilities of cancer persisters.. <i>Science Advances</i> , <b>2022</b> , 8, eabi7711	14.3	614
197	Gasdermin D pore structure reveals preferential release of mature interleukin-1. <i>Nature</i> , <b>2021</b> , 593, 607-614	61.4	92
196	Protomer alignment modulates specificity of RNA substrate recognition by Ire1. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
195	Biosynthetic Pathway Investigations of Neuroprotectin D1 (NPD1) and Protectin DX (PDX) by Human 12-Lipoxygenase, 15-Lipoxygenase-1, and 15-Lipoxygenase-2. <i>Biochemistry</i> , <b>2021</b> , 60, 1741-1754	3.2	3
194	Analogues of the Dopamine Metabolite 5,6-Dihydroxyindole Bind Directly to and Activate the Nuclear Receptor Nurr1. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 1159-1163	4.9	3
193	Synthesis and Screening of $\beta$ -Xylosides in Human Glioblastoma Cells. <i>Molecular Pharmaceutics</i> , <b>2021</b> , 18, 451-460	5.6	3
192	The Synthesis and Structural Requirements for Measuring Glucocorticoid Receptor Expression In Vivo with ( $\beta$ )-C-YJH08 PET. <i>Journal of Nuclear Medicine</i> , <b>2021</b> , 62, 723-731	8.9	1
191	Mutagenesis, Hydrogen-Deuterium Exchange, and Molecular Docking Investigations Establish the Dimeric Interface of Human Platelet-Type 12-Lipoxygenase. <i>Biochemistry</i> , <b>2021</b> , 60, 802-812	3.2	1
190	Matched Targeted Therapy for Pediatric Patients with Relapsed, Refractory, or High-Risk Leukemias: A Report from the LEAP Consortium. <i>Cancer Discovery</i> , <b>2021</b> , 11, 1424-1439	24.4	4
189	A Crowding Barrier to Protein Inhibition in Colloidal Aggregates. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 4109-4116	8.3	3
188	Kinetic and structural investigations of novel inhibitors of human epithelial 15-lipoxygenase-2. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 46, 116349	3.4	1
187	Docking and mutagenesis studies lead to improved inhibitor development of ML355 for human platelet 12-lipoxygenase. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 46, 116347	3.4	2
186	Curation of over 10 000 transcriptomic studies to enable data reuse. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2021</b> , 2021,	5	7
185	A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. <i>Nature</i> , <b>2020</b> , 583, 459-468	50.4	2142
184	Biosynthesis of the Maresin Intermediate, 13S,14S-Epoxy-DHA, by Human 15-Lipoxygenase and 12-Lipoxygenase and Its Regulation through Negative Allosteric Modulators. <i>Biochemistry</i> , <b>2020</b> , 59, 1832-1844	3.2	13
183	A SARS-CoV-2-Human Protein-Protein Interaction Map Reveals Drug Targets and Potential Drug-Repurposing <b>2020</b> ,		133
182	Role of Human 15-Lipoxygenase-2 in the Biosynthesis of the Lipoxin Intermediate, 5S,15S-diHpETE, Implicated with the Altered Positional Specificity of Human 15-Lipoxygenase-1. <i>Biochemistry</i> , <b>2020</b> , 59, 4118-4130	3.2	5

181	15-Lipoxygenase-1 biosynthesis of 7S,14S-diHDHA implicates 15-lipoxygenase-2 in biosynthesis of resolvin D5. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 1087-1103	6.3	14
180	Synthetic group A streptogramin antibiotics that overcome Vat resistance. <i>Nature</i> , <b>2020</b> , 586, 145-150	50.4	27
179	Progranulin Stimulates the In Vitro Maturation of Pro-Cathepsin D at Acidic pH. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 1038-1047	6.5	27
178	Multi-Granulin Domain Peptides Bind to Pro-Cathepsin D and Stimulate Its Enzymatic Activity More Effectively Than Progranulin in Vitro. <i>Biochemistry</i> , <b>2019</b> , 58, 2670-2674	3.2	17
177	Tau repeat regions contain conserved histidine residues that modulate microtubule-binding in response to changes in pH. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 8779-8790	5.4	8
176	Crosstalk between RNA Pol II C-Terminal Domain Acetylation and Phosphorylation via RPRD Proteins. <i>Molecular Cell</i> , <b>2019</b> , 74, 1164-1174.e4	17.6	12
175	Covalent Modification and Regulation of the Nuclear Receptor Nurr1 by a Dopamine Metabolite. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 674-685.e6	8.2	23
174	Structure-based identification of novel CK2 inhibitors with a linear 2-propenone scaffold as anti-cancer agents. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 512, 208-212	3.4	3
173	Conformational Dynamics of the HIV-Vif Protein Complex. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1432-1445	2.9	4
172	Age- and stress-associated <i>C. elegans</i> granulins impair lysosomal function and induce a compensatory HLH-30/TFEB transcriptional response. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008295	6	11
171	ATP-Competitive Inhibitors Midostaurin and Avapritinib Have Distinct Resistance Profiles in Exon 17-Mutant KIT. <i>Cancer Research</i> , <b>2019</b> , 79, 4283-4292	10.1	13
170	VariCarta: A Comprehensive Database of Harmonized Genomic Variants Found in Autism Spectrum Disorder Sequencing Studies. <i>Autism Research</i> , <b>2019</b> , 12, 1728-1736	5.1	11
169	Probing the Electrostatic and Steric Requirements for Substrate Binding in Human Platelet-Type 12-Lipoxygenase. <i>Biochemistry</i> , <b>2019</b> , 58, 848-857	3.2	9
168	Structure-based Discovery of Novel CK2 $\beta$ -Binding Cyclic Peptides with Anti-cancer Activity. <i>Molecular Informatics</i> , <b>2019</b> , 38, e1800089	3.8	3
167	A recurrent kinase domain mutation in PRKCA defines chordoid glioma of the third ventricle. <i>Nature Communications</i> , <b>2018</b> , 9, 810	17.4	42
166	High-throughput screen for inhibitors of protein-protein interactions in a reconstituted heat shock protein 70 (Hsp70) complex. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 4014-4025	5.4	24
165	Inhibitor binding mode and allosteric regulation of Na-glucose symporters. <i>Nature Communications</i> , <b>2018</b> , 9, 5245	17.4	19
164	Prediction of enzymatic pathways by integrative pathway mapping. <i>ELife</i> , <b>2018</b> , 7,	8.9	22

163	Exploration of Benzothiazole Rhodacyanines as Allosteric Inhibitors of Protein-Protein Interactions with Heat Shock Protein 70 (Hsp70). <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 6163-6177	8.3	54
162	Structure-Activity Relationship and Molecular Mechanics Reveal the Importance of Ring Entropy in the Biosynthesis and Activity of a Natural Product. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2541-2544	16.4	36
161	Discovery of GBT440, an Orally Bioavailable R-State Stabilizer of Sick Cell Hemoglobin. <i>ACS Medicinal Chemistry Letters</i> , <b>2017</b> , 8, 321-326	4.3	76
160	Synthesis of the Ca-mobilizing messengers NAADP and cADPR by intracellular CD38 enzyme in the mouse heart: Role in $\beta$ -adrenoceptor signaling. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 13243-13257	5.4	35
159	Evolutionarily Conserved Roles for Blood-Brain Barrier Xenobiotic Transporters in Endogenous Steroid Partitioning and Behavior. <i>Cell Reports</i> , <b>2017</b> , 21, 1304-1316	10.6	35
158	Development of 5N-Bicalutamide, a High-Affinity Reversible Covalent Antiandrogen. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 2934-2939	4.9	4
157	Discovery of Potent and Orally Bioavailable Macrocyclic Peptide-Peptoid Hybrid CXCR7 Modulators. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 9653-9663	8.3	41
156	Cancer-associated arginine-to-histidine mutations confer a gain in pH sensing to mutant proteins. <i>Science Signaling</i> , <b>2017</b> , 10,	8.8	28
155	Prominent features of the amino acid mutation landscape in cancer. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183273	3.7	16
154	Assignment of function to a domain of unknown function: DUF1537 is a new kinase family in catabolic pathways for acid sugars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E4161-9	11.5	35
153	Dihedral Angle-Based Sampling of Natural Product Polyketide Conformations: Application to Permeability Prediction. <i>Journal of Chemical Information and Modeling</i> , <b>2016</b> , 56, 2194-2206	6.1	10
152	A potent and selective inhibitor targeting human and murine 12/15-LOX. <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 1183-90	3.4	13
151	Non-degradative Ubiquitination of Protein Kinases. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004898	5	23
150	Defining the Product Chemical Space of Monoterpenoid Synthases. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1005053	5	15
149	Structure-Bioactivity Relationship for Benzimidazole Thiophene Inhibitors of Polo-Like Kinase 1 (PLK1), a Potential Drug Target in <i>Schistosoma mansoni</i> . <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0004356	4.8	40
148	Disulfide-Trapping Identifies a New, Effective Chemical Probe for Activating the Nuclear Receptor Human LRH-1 (NR5A2). <i>PLoS ONE</i> , <b>2016</b> , 11, e0159316	3.7	9
147	Simple Predictive Models of Passive Membrane Permeability Incorporating Size-Dependent Membrane-Water Partition. <i>Journal of Chemical Information and Modeling</i> , <b>2016</b> , 56, 924-9	6.1	31
146	GluA1 signal peptide determines the spatial assembly of heteromeric AMPA receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E5645-54	11.5	10

145	Human 15-LOX-1 active site mutations alter inhibitor binding and decrease potency. <i>Bioorganic and Medicinal Chemistry</i> , <b>2016</b> , 24, 5380-5387	3.4	3
144	Exhaustive Conformational Sampling of Complex Fused Ring Macrocycles Using Inverse Kinematics. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 4674-87	6.4	39
143	Computational-guided discovery and characterization of a sesquiterpene synthase from <i>Streptomyces clavuligerus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5661-6	11.5	36
142	A Fragment-Based Ligand Screen Against Part of a Large Protein Machine: The ND1 Domains of the AAA+ ATPase p97/VCP. <i>Journal of Biomolecular Screening</i> , <b>2015</b> , 20, 788-800		11
141	Synthesis and enzymatic studies of bisubstrate analogues for farnesyl diphosphate synthase. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 3902-13	4.2	2
140	Beyond cyclosporine A: conformation-dependent passive membrane permeabilities of cyclic peptide natural products. <i>Future Medicinal Chemistry</i> , <b>2015</b> , 7, 2121-30	4.1	100
139	Probing the Physicochemical Boundaries of Cell Permeability and Oral Bioavailability in Lipophilic Macrocycles Inspired by Natural Products. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 4581-9	8.3	91
138	Peptide to Peptoid Substitutions Increase Cell Permeability in Cyclic Hexapeptides. <i>Organic Letters</i> , <b>2015</b> , 17, 2928-31	6.2	59
137	Cell-permeable cyclic peptides from synthetic libraries inspired by natural products. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 715-21	16.4	152
136	Experimental strategies for functional annotation and metabolism discovery: targeted screening of solute binding proteins and unbiased panning of metabolomes. <i>Biochemistry</i> , <b>2015</b> , 54, 909-31	3.2	65
135	A unique cis-3-hydroxy-l-proline dehydratase in the enolase superfamily. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1388-91	16.4	13
134	Novel compounds lowering the cellular isoform of the human prion protein in cultured human cells. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 1960-72	3.4	16
133	Design of reversible, cysteine-targeted Michael acceptors guided by kinetic and computational analysis. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12624-30	16.4	154
132	Leveraging structure for enzyme function prediction: methods, opportunities, and challenges. <i>Trends in Biochemical Sciences</i> , <b>2014</b> , 39, 363-71	10.3	26
131	A comparative Brownian dynamics investigation between small linear and circular DNA: Scaling of diffusion coefficient with size and topology of DNA. <i>Chemical Physics Letters</i> , <b>2014</b> , 591, 253-258	2.5	4
130	Evolution of enzymatic activities in the enolase superfamily: galactarate dehydratase III from <i>Agrobacterium tumefaciens</i> C58. <i>Biochemistry</i> , <b>2014</b> , 53, 4192-203	3.2	15
129	Prediction of substrates for glutathione transferases by covalent docking. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 1687-99	6.1	15
128	A structure-based model for predicting serum albumin binding. <i>PLoS ONE</i> , <b>2014</b> , 9, e93323	3.7	49

127	The free energy profile of tubulin straight-bent conformational changes, with implications for microtubule assembly and drug discovery. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003464	5	27
126	Correction to Design of Reversible, Cysteine-Targeted Michael Acceptors Guided by Kinetic and Computational Analysis <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17690-17690	16.4	1
125	Prediction and biochemical demonstration of a catabolic pathway for the osmoprotectant proline betaine. <i>MBio</i> , <b>2014</b> , 5, e00933-13	7.8	14
124	Predicting the functions and specificity of triterpenoid synthases: a mechanism-based multi-intermediate docking approach. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003874	5	19
123	A high throughput screen identifies potent and selective inhibitors to human epithelial 15-lipoxygenase-2. <i>PLoS ONE</i> , <b>2014</b> , 9, e104094	3.7	14
122	A new coarse-grained model for E. coli cytoplasm: accurate calculation of the diffusion coefficient of proteins and observation of anomalous diffusion. <i>PLoS ONE</i> , <b>2014</b> , 9, e106466	3.7	27
121	Prediction and characterization of enzymatic activities guided by sequence similarity and genome neighborhood networks. <i>ELife</i> , <b>2014</b> , 3,	8.9	64
120	Predicting enzyme-substrate specificity with QM/MM methods: a case study of the stereospecificity of (D)-glucarate dehydratase. <i>Biochemistry</i> , <b>2013</b> , 52, 5511-3	3.2	6
119	Design of a phosphorylatable PDZ domain with peptide-specific affinity changes. <i>Structure</i> , <b>2013</b> , 21, 54-64	5.2	14
118	A cysteine protease inhibitor rescues mice from a lethal <i>Cryptosporidium parvum</i> infection. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2013</b> , 57, 6063-73	5.9	40
117	pH sensing by FAK-His58 regulates focal adhesion remodeling. <i>Journal of Cell Biology</i> , <b>2013</b> , 202, 849-59	7.3	59
116	SIRT5 regulates the mitochondrial lysine succinylome and metabolic networks. <i>Cell Metabolism</i> , <b>2013</b> , 18, 920-33	24.6	399
115	Discovery of new enzymes and metabolic pathways by using structure and genome context. <i>Nature</i> , <b>2013</b> , 502, 698-702	50.4	99
114	Active site conformational dynamics are coupled to catalysis in the mRNA decapping enzyme Dcp2. <i>Structure</i> , <b>2013</b> , 21, 1571-80	5.2	18
113	Pharmacokinetics and metabolism of 2-aminothiazoles with antiprion activity in mice. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 932-50	4.5	28
112	Predicting efflux ratios and blood-brain barrier penetration from chemical structure: combining passive permeability with active efflux by P-glycoprotein. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 361-7	5.7	22
111	2-Aminothiazoles with improved pharmacotherapeutic properties for treatment of prion disease. <i>ChemMedChem</i> , <b>2013</b> , 8, 847-57	3.7	20
110	Considering protonation as a posttranslational modification regulating protein structure and function. <i>Annual Review of Biophysics</i> , <b>2013</b> , 42, 289-314	21.1	93

109	Structure-guided discovery of the metabolite carboxy-SAM that modulates tRNA function. <i>Nature</i> , <b>2013</b> , 498, 123-6	50.4	62
108	Antiprion compounds that reduce PrP(Sc) levels in dividing and stationary-phase cells. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 7999-8012	3.4	14
107	Substrate and inhibitor-induced dimerization and cooperativity in caspase-1 but not caspase-3. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 9971-9981	5.4	30
106	Prediction of function for the polyprenyl transferase subgroup in the isoprenoid synthase superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E1196-202	11.5	55
105	Biaryl amides and hydrazones as therapeutics for prion disease in transgenic mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2013</b> , 347, 325-38	4.7	34
104	Chemical-biological characterization of a cruzain inhibitor reveals a second target and a mammalian off-target. <i>Beilstein Journal of Organic Chemistry</i> , <b>2013</b> , 9, 15-25	2.5	31
103	In silico prediction of brain exposure: drug free fraction, unbound brain to plasma concentration ratio and equilibrium half-life. <i>Current Topics in Medicinal Chemistry</i> , <b>2013</b> , 13, 813-20	3	21
102	Optimizing PK properties of cyclic peptides: the effect of side chain substitutions on permeability and clearance(). <i>MedChemComm</i> , <b>2012</b> , 3, 1282-1289	5	102
101	Computer-aided antibody design. <i>Protein Engineering, Design and Selection</i> , <b>2012</b> , 25, 507-21	1.9	173
100	Homology models guide discovery of diverse enzyme specificities among dipeptide epimerases in the enolase superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 4122-7	11.5	48
99	Predicting and improving the membrane permeability of peptidic small molecules. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 3163-9	8.3	83
98	Comparing Conformational Ensembles Using the Kullback-Leibler Divergence Expansion. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 2115-2126	6.4	58
97	Testing physical models of passive membrane permeation. <i>Journal of Chemical Information and Modeling</i> , <b>2012</b> , 52, 1621-36	6.1	76
96	Investigation of the proteolytic functions of an expanded cercarial elastase gene family in <i>Schistosoma mansoni</i> . <i>PLoS Neglected Tropical Diseases</i> , <b>2012</b> , 6, e1589	4.8	29
95	Multisite phosphorylation disrupts arginine-glutamate salt bridge networks required for binding of cytoplasmic linker-associated protein 2 (CLASP2) to end-binding protein 1 (EB1). <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 17050-17064	5.4	59
94	Divergent evolution in enolase superfamily: strategies for assigning functions. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 29-34	5.4	106
93	A molecular mechanics approach to modeling protein-ligand interactions: relative binding affinities in congeneric series. <i>Journal of Chemical Information and Modeling</i> , <b>2011</b> , 51, 2082-9	6.1	39
92	Dysregulated pH: a perfect storm for cancer progression. <i>Nature Reviews Cancer</i> , <b>2011</b> , 11, 671-7	31.3	1283

91	On-resin N-methylation of cyclic peptides for discovery of orally bioavailable scaffolds. <i>Nature Chemical Biology</i> , <b>2011</b> , 7, 810-7	11.7	264
90	Effects of somatic mutations on CDR loop flexibility during affinity maturation. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79, 821-9	4.2	33
89	Assessment of protein structure refinement in CASP9. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79 Suppl 10, 74-90	4.2	79
88	Assessing protein loop flexibility by hierarchical Monte Carlo sampling. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 1564-1574	6.4	22
87	The Enzyme Function Initiative. <i>Biochemistry</i> , <b>2011</b> , 50, 9950-62	3.2	140
86	Turning a protein kinase on or off from a single allosteric site via disulfide trapping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 6056-61	11.5	108
85	Phosphorylation of the Arp2 subunit relieves auto-inhibitory interactions for Arp2/3 complex activation. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002226	5	14
84	A new view of the bacterial cytosol environment. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002066	5	34
83	Predicting binding to p-glycoprotein by flexible receptor docking. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002083	5	78
82	Structural characterization of CYP51 from <i>Trypanosoma cruzi</i> and <i>Trypanosoma brucei</i> bound to the antifungal drugs posaconazole and fluconazole. <i>PLoS Neglected Tropical Diseases</i> , <b>2010</b> , 4, e651	4.8	92
81	Modeling conformational ensembles of slow functional motions in Pin1-WW. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1001015	5	60
80	A nonazole CYP51 inhibitor cures Chagas' disease in a mouse model of acute infection. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2010</b> , 54, 2480-8	5.9	55
79	Studying enzyme-substrate specificity in silico: a case study of the <i>Escherichia coli</i> glycolysis pathway. <i>Biochemistry</i> , <b>2010</b> , 49, 4003-5	3.2	17
78	Transcriptional control of a plant stem cell niche. <i>Developmental Cell</i> , <b>2010</b> , 18, 849-61	10.2	190
77	Conformation switching of clathrin light chain regulates clathrin lattice assembly. <i>Developmental Cell</i> , <b>2010</b> , 18, 841-8	10.2	56
76	SIRT3 deacetylates mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase 2 and regulates ketone body production. <i>Cell Metabolism</i> , <b>2010</b> , 12, 654-61	24.6	357
75	Antibodies as a model system for comparative model refinement. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 2490-505	4.2	15
74	Binding-site assessment by virtual fragment screening. <i>PLoS ONE</i> , <b>2010</b> , 5, e10109	3.7	48



73	Computational studies of protein regulation by post-translational phosphorylation. <i>Current Opinion in Structural Biology</i> , <b>2009</b> , 19, 156-63	8.1	64
72	Target selection and annotation for the structural genomics of the amidohydrolase and enolase superfamilies. <i>Journal of Structural and Functional Genomics</i> , <b>2009</b> , 10, 107-25		24
71	Automated site preparation in physics-based rescoring of receptor ligand complexes. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 77, 52-61	4.2	17
70	Assessment of the protein-structure refinement category in CASP8. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 77 Suppl 9, 66-80	4.2	64
69	Improving the species cross-reactivity of an antibody using computational design. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 3744-7	2.9	40
68	Monte Carlo Sampling with Hierarchical Move Sets: POSH Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 1968-84	6.4	9
67	The molecular basis of species-specific ligand activation of trace amine-associated receptor 1 (TAAR(1)). <i>ACS Chemical Biology</i> , <b>2009</b> , 4, 209-20	4.9	34
66	Computation-facilitated assignment of the function in the enolase superfamily: a regiochemically distinct galactarate dehydratase from <i>Oceanobacillus iheyensis</i> . <i>Biochemistry</i> , <b>2009</b> , 48, 11546-58	3.2	31
65	Quantifying Correlations Between Allosteric Sites in Thermodynamic Ensembles. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 2486-2502	6.4	172
64	Energy-based analysis and prediction of the orientation between light- and heavy-chain antibody variable domains. <i>Journal of Molecular Biology</i> , <b>2009</b> , 388, 941-53	6.5	37
63	The role of homology models in assigning enzyme function. <i>FASEB Journal</i> , <b>2009</b> , 23, 204.2	0.9	
62	Discovery of a dipeptide epimerase enzymatic function guided by homology modeling and virtual screening. <i>Structure</i> , <b>2008</b> , 16, 1668-77	5.2	49
61	Rescoring docking hit lists for model cavity sites: predictions and experimental testing. <i>Journal of Molecular Biology</i> , <b>2008</b> , 377, 914-34	6.5	149
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- 1 C. elegans granulins promote an age-associated decline in protein homeostasis via lysosomal protease inhibition

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