## Vsevolod Katritch

## 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.

62 136 19,074 124 h-index g-index citations papers 21,476 6.44 136 19.1 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
124	Schizophrenia-associated SAP97 mutations increase glutamatergic synapse strength in the dentate gyrus and impair contextual episodic memory in rats <i>Nature Communications</i> , <b>2022</b> , 13, 798	17.4	1
123	Structural Characterization of KOR Inactive and Active States for 3D Pharmacology and Drug Discovery. <i>Handbook of Experimental Pharmacology</i> , <b>2022</b> , 271, 41-64	3.2	1
122	Synthon-based ligand discovery in virtual libraries of over 11 billion compounds <i>Nature</i> , <b>2021</b> ,	50.4	15
121	Ligand-Dependent Effects of Methionine-8 Oxidation in Parathyroid Hormone Peptide Analogues. <i>Endocrinology</i> , <b>2021</b> , 162,	4.8	3
120	Chiral Cyclic Aliphatic Linkers as Building Blocks for Selective Dopamine D or D Receptor Agonists. Journal of Medicinal Chemistry, <b>2021</b> , 64, 16088-16105	8.3	1
119	Structural insights on ligand recognition at the human leukotriene B4 receptor 1. <i>Nature Communications</i> , <b>2021</b> , 12, 2971	17.4	4
118	Novel Dual-Target Expioid Receptor and Dopamine D Receptor Ligands as Potential Nonaddictive Pharmacotherapeutics for Pain Management. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 7778-7808	8.3	8
117	Optical Control of Cannabinoid Receptor 2-Mediated Ca Release Enabled by Synthesis of Photoswitchable Probes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 736-743	16.4	10
116	Controlling opioid receptor functional selectivity by targeting distinct subpockets of the orthosteric site. <i>ELife</i> , <b>2021</b> , 10,	8.9	16
115	Biased Signaling Pathways in 🛭-Adrenergic Receptor Characterized by 19F-NMR <b>2021</b> , 179-183		
114	Structural basis of the activation of a metabotropic GABA receptor. <i>Nature</i> , <b>2020</b> , 584, 298-303	50.4	49
113	Biased Signaling of the G-Protein-Coupled Receptor AR Is Governed by Conformational Exchange Kinetics. <i>Structure</i> , <b>2020</b> , 28, 371-377.e3	5.2	18
112	Breaking the Enigma Code of Angiotensin II Type 2 Receptor Signaling. <i>Structure</i> , <b>2020</b> , 28, 390-392	5.2	4
111	Structure-based discovery of potent and selective melatonin receptor agonists. <i>ELife</i> , <b>2020</b> , 9,	8.9	19
110	Structure-Based Virtual Screening of Ultra-Large Library Yields Potent Antagonists for a Lipid GPCR. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	3
109	Harnessing Ion-Binding Sites for GPCR Pharmacology. <i>Pharmacological Reviews</i> , <b>2019</b> , 71, 571-595	22.5	49
108	Structural basis of ligand recognition at the human MT melatonin receptor. <i>Nature</i> , <b>2019</b> , 569, 284-288	50.4	98

## (2018-2019)

107	XFEL structures of the human MT melatonin receptor reveal the basis of subtype selectivity. <i>Nature</i> , <b>2019</b> , 569, 289-292	50.4	77	
106	Computational design for thermostabilization of GPCRs. <i>Current Opinion in Structural Biology</i> , <b>2019</b> , 55, 25-33	8.1	7	
105	O-GlcNAc Engineering of GPCR Peptide-Agonists Improves Their Stability and in Vivo Activity.  Journal of the American Chemical Society, <b>2019</b> , 141, 14210-14219	16.4	19	
104	Structure-based mechanism of cysteinyl leukotriene receptor inhibition by antiasthmatic drugs.  Science Advances, <b>2019</b> , 5, eaax2518	14.3	41	
103	Elucidating the active Eppioid receptor crystal structure with peptide and small-molecule agonists. <i>Science Advances</i> , <b>2019</b> , 5, eaax9115	14.3	38	
102	Structural basis of ligand selectivity and disease mutations in cysteinyl leukotriene receptors.  Nature Communications, 2019, 10, 5573	17.4	31	
101	Exploring Pairwise Chemical Crosslinking To Study Peptide-Receptor Interactions. <i>ChemBioChem</i> , <b>2019</b> , 20, 683-692	3.8	5	
100	Crystal Structure of the Human Cannabinoid Receptor CB2. <i>Cell</i> , <b>2019</b> , 176, 459-467.e13	56.2	175	
99	Crystal structure of misoprostol bound to the labor inducer prostaglandin E receptor. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 11-17	11.7	23	
98	A Thieno[2,3- d]pyrimidine Scaffold Is a Novel Negative Allosteric Modulator of the Dopamine D Receptor. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 174-206	8.3	12	
97	5-HT Receptor Structures Reveal the Structural Basis of GPCR Polypharmacology. <i>Cell</i> , <b>2018</b> , 172, 719-7	396e214	4 123	
96	Structural Connection between Activation Microswitch and Allosteric Sodium Site in GPCR Signaling. <i>Structure</i> , <b>2018</b> , 26, 259-269.e5	5.2	77	
95	Intracellular Transfer of Na in an Active-State G-Protein-Coupled Receptor. Structure, <b>2018</b> , 26, 171-180	I. <b>§</b> 2	54	
94	Structure of the Nanobody-Stabilized Active State of the Kappa Opioid Receptor. <i>Cell</i> , <b>2018</b> , 172, 55-67	. <del>e</del> ;1652	205	
93	An Intellectual Disability-Related Missense Mutation in Rac1 Prevents LTP Induction. <i>Frontiers in Molecular Neuroscience</i> , <b>2018</b> , 11, 223	6.1	15	
92	Crystal structure of the Frizzled 4 receptor in a ligand-free state. <i>Nature</i> , <b>2018</b> , 560, 666-670	50.4	51	
91	Extrinsic Tryptophans as NMR Probes of Allosteric Coupling in Membrane Proteins: Application to the A Adenosine Receptor. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8228-8235	16.4	24	
90	Activation Stoichiometry and Pore Architecture of TRPA1 Probed with Channel Concatemers. <i>Scientific Reports</i> , <b>2018</b> , 8, 17104	4.9	8	

89	Computational design of thermostabilizing point mutations for G protein-coupled receptors. <i>ELife</i> , <b>2018</b> , 7,	8.9	40
88	Structure-Based Discovery of New Antagonist and Biased Agonist Chemotypes for the Kappa Opioid Receptor. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 3070-3081	8.3	35
87	Structural basis for selectivity and diversity in angiotensin II receptors. <i>Nature</i> , <b>2017</b> , 544, 327-332	50.4	128
86	An autism spectrum disorder-related de novo mutation hotspot discovered in the GEF1 domain of Trio. <i>Nature Communications</i> , <b>2017</b> , 8, 601	17.4	60
85	Structural insights into the extracellular recognition of the human serotonin 2B receptor by an antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 8223-8228	11.5	43
84	Dynamic Strategic Bond Analysis Yields a Ten-Step Synthesis of 20-nor-Salvinorin A, a Potent EDR Agonist. <i>ACS Central Science</i> , <b>2017</b> , 3, 1329-1336	16.8	23
83	Synthesis of Photoswitchable ETetrahydrocannabinol Derivatives Enables Optical Control of Cannabinoid Receptor 1 Signaling. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18206-18212	16.4	61
82	Structural insight into the activation of a class B G-protein-coupled receptor by peptide hormones in live human cells. <i>ELife</i> , <b>2017</b> , 6,	8.9	25
81	Native phasing of x-ray free-electron laser data for a G protein-coupled receptor. <i>Science Advances</i> , <b>2016</b> , 2, e1600292	14.3	85
80	Expression and purification of an engineered human endothelin receptor B in a monomeric form. <i>Doklady Biochemistry and Biophysics</i> , <b>2016</b> , 467, 157-61	0.8	
79	In vitro expression and analysis of the 826 human G protein-coupled receptors. <i>Protein and Cell</i> , <b>2016</b> , 7, 325-37	7.2	38
78	Single Amino Acid Variation Underlies Species-Specific Sensitivity to Amphibian Skin-Derived Opioid-like Peptides. <i>Chemistry and Biology</i> , <b>2015</b> , 22, 764-75		11
77	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. <i>Nature</i> , <b>2015</b> , 523, 561-7	50.4	572
76	Modeling ligand recognition at the P2Y12 receptor in light of X-ray structural information. <i>Journal of Computer-Aided Molecular Design</i> , <b>2015</b> , 29, 737-56	4.2	34
75	Structure of the Angiotensin receptor revealed by serial femtosecond crystallography. <i>Cell</i> , <b>2015</b> , 161, 833-44	56.2	262
74	Sodium ion binding pocket mutations and adenosine A2A receptor function. <i>Molecular Pharmacology</i> , <b>2015</b> , 87, 305-13	4.3	60
73	Two disparate ligand-binding sites in the human P2Y1 receptor. <i>Nature</i> , <b>2015</b> , 520, 317-21	50.4	239
72	Nucleotides Acting at P2Y Receptors: Connecting Structure and Function. <i>Molecular Pharmacology</i> , <b>2015</b> , 88, 220-30	4.3	74

## (2013-2015)

71	The Importance of Ligand-Receptor Conformational Pairs in Stabilization: Spotlight on the N/OFQ G Protein-Coupled Receptor. <i>Structure</i> , <b>2015</b> , 23, 2291-2299	5.2	53
70	Single-molecule view of basal activity and activation mechanisms of the G protein-coupled receptor BAR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14254-	9 <sup>11.5</sup>	65
69	Design, synthesis, pharmacological characterization of a fluorescent agonist of the P2YIreceptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 4733-4739	2.9	14
68	Structural Basis for Ligand Recognition and Functional Selectivity at Angiotensin Receptor. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 29127-39	5.4	111
67	Generic GPCR residue numbers - aligning topology maps while minding the gaps. <i>Trends in Pharmacological Sciences</i> , <b>2015</b> , 36, 22-31	13.2	259
66	Structural basis for bifunctional peptide recognition at human Eppioid receptor. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 265-8	17.6	133
65	Structure of a class C GPCR metabotropic glutamate receptor 1 bound to an allosteric modulator. <i>Science</i> , <b>2014</b> , 344, 58-64	33.3	406
64	Lipidic cubic phase injector facilitates membrane protein serial femtosecond crystallography. <i>Nature Communications</i> , <b>2014</b> , 5, 3309	17.4	416
63	Structure of the human P2Y12 receptor in complex with an antithrombotic drug. <i>Nature</i> , <b>2014</b> , 509, 115	5 <b>-§</b> 0.4	272
62	Allosteric sodium in class A GPCR signaling. <i>Trends in Biochemical Sciences</i> , <b>2014</b> , 39, 233-44	10.3	314
61	Molecular control of Eppioid receptor signalling. <i>Nature</i> , <b>2014</b> , 506, 191-6	50.4	355
60	Structural basis for Smoothened receptor modulation and chemoresistance to anticancer drugs. <i>Nature Communications</i> , <b>2014</b> , 5, 4355	17.4	175
59	Advances in GPCR modeling evaluated by the GPCR Dock 2013 assessment: meeting new challenges. <i>Structure</i> , <b>2014</b> , 22, 1120-1139	5.2	136
58	Agonist-bound structure of the human P2Y12 receptor. <i>Nature</i> , <b>2014</b> , 509, 119-22	50.4	222
57	Exploring a 2-naphthoic acid template for the structure-based design of P2Y14 receptor antagonist molecular probes. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 2833-42	4.9	30
56	Structure of the human glucagon class B G-protein-coupled receptor. <i>Nature</i> , <b>2013</b> , 499, 444-9	50.4	312
55	The role of a sodium ion binding site in the allosteric modulation of the A(2A) adenosine G protein-coupled receptor. <i>Structure</i> , <b>2013</b> , 21, 2175-85	5.2	98
54	Chemotype-selective modes of action of Eppioid receptor agonists. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 34470-83	5.4	45

53	Structure-based ligand discovery targeting orthosteric and allosteric pockets of dopamine receptors. <i>Molecular Pharmacology</i> , <b>2013</b> , 84, 794-807	4.3	69
52	Genetically encoded chemical probes in cells reveal the binding path of urocortin-I to CRF class B GPCR. <i>Cell</i> , <b>2013</b> , 155, 1258-69	56.2	131
51	Serial femtosecond crystallography of G protein-coupled receptors. <i>Science</i> , <b>2013</b> , 342, 1521-4	33.3	367
50	The GPCR Network: a large-scale collaboration to determine human GPCR structure and function. <i>Nature Reviews Drug Discovery</i> , <b>2013</b> , 12, 25-34	64.1	207
49	Structure-function of the G protein-coupled receptor superfamily. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2013</b> , 53, 531-56	17.9	758
48	Structural features for functional selectivity at serotonin receptors. <i>Science</i> , <b>2013</b> , 340, 615-9	33.3	492
47	Structural basis for molecular recognition at serotonin receptors. <i>Science</i> , <b>2013</b> , 340, 610-4	33.3	370
46	Structure of the human smoothened receptor bound to an antitumour agent. <i>Nature</i> , <b>2013</b> , 497, 338-43	<b>3</b> 50.4	375
45	Fusion partner toolchest for the stabilization and crystallization of G protein-coupled receptors. <i>Structure</i> , <b>2012</b> , 20, 967-76	5.2	272
44	Structural basis for allosteric regulation of GPCRs by sodium ions. <i>Science</i> , <b>2012</b> , 337, 232-6	33.3	714
43	Diversity and modularity of G protein-coupled receptor structures. <i>Trends in Pharmacological Sciences</i> , <b>2012</b> , 33, 17-27	13.2	348
42	Biased signaling pathways in <b>2</b> -adrenergic receptor characterized by 19F-NMR. <i>Science</i> , <b>2012</b> , 335, 1106	- <b>39</b> .3	523
41	Structure of the nociceptin/orphanin FQ receptor in complex with a peptide mimetic. <i>Nature</i> , <b>2012</b> , 485, 395-9	50.4	383
40	Structure of the human Eppioid receptor in complex with JDTic. <i>Nature</i> , <b>2012</b> , 485, 327-32	50.4	695
39	Optimization of adenosine 5Fcarboxamide derivatives as adenosine receptor agonists using structure-based ligand design and fragment screening. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 4297-3	0 <mark>8</mark> 3	55
38	Evaluation of molecular modeling of agonist binding in light of the crystallographic structure of an agonist-bound AA adenosine receptor. <i>Journal of Medicinal Chemistry</i> , <b>2012</b> , 55, 538-52	8.3	36
37	Ligand-guided receptor optimization. <i>Methods in Molecular Biology</i> , <b>2012</b> , 857, 189-205	1.4	34
36	Crystal structure-based virtual screening for fragment-like ligands of the human histamine H(1) receptor. <i>Journal of Medicinal Chemistry</i> , <b>2011</b> , 54, 8195-206	8.3	171

GPCR agonist binding revealed by modeling and crystallography. <i>Trends in Pharmacological Sciences</i> , <b>2011</b> , 32, 637-43	13.2	52
Structure based prediction of subtype-selectivity for adenosine receptor antagonists. <i>Neuropharmacology</i> , <b>2011</b> , 60, 108-15	5.5	71
Structure of an agonist-bound human A2A adenosine receptor. <i>Science</i> , <b>2011</b> , 332, 322-7	33.3	706
High resolution structure of the ba3 cytochrome c oxidase from Thermus thermophilus in a lipidic environment. <i>PLoS ONE</i> , <b>2011</b> , 6, e22348	3.7	94
Status of GPCR modeling and docking as reflected by community-wide GPCR Dock 2010 assessment. <i>Structure</i> , <b>2011</b> , 19, 1108-26	5.2	243
Ligand-dependent perturbation of the conformational ensemble for the GPCR I adrenergic receptor revealed by HDX. <i>Structure</i> , <b>2011</b> , 19, 1424-32	5.2	111
Structure of the human histamine H1 receptor complex with doxepin. <i>Nature</i> , <b>2011</b> , 475, 65-70	50.4	630
Ligand binding and subtype selectivity of the human A(2A) adenosine receptor: identification and characterization of essential amino acid residues. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 13032-44	5.4	77
SimiCon: a web tool for protein-ligand model comparison through calculation of equivalent atomic contacts. <i>Bioinformatics</i> , <b>2010</b> , 26, 2784-5	7.2	11
Structure of the human dopamine D3 receptor in complex with a D2/D3 selective antagonist. <i>Science</i> , <b>2010</b> , 330, 1091-5	33.3	938
Structures of the CXCR4 chemokine GPCR with small-molecule and cyclic peptide antagonists. <i>Science</i> , <b>2010</b> , 330, 1066-71	33.3	1432
Conserved binding mode of human beta2 adrenergic receptor inverse agonists and antagonist revealed by X-ray crystallography. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11443-5	16.4	297
Structure and Modeling of GPCRs: Implications for Drug Discovery <b>2010</b> , 385-433		2
Structure-based discovery of novel chemotypes for adenosine A(2A) receptor antagonists. <i>Journal of Medicinal Chemistry</i> , <b>2010</b> , 53, 1799-809	8.3	211
GPCR 3D homology models for ligand screening: lessons learned from blind predictions of adenosine A2a receptor complex. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 197-211	4.2	111
Analysis of full and partial agonists binding to beta2-adrenergic receptor suggests a role of transmembrane helix V in agonist-specific conformational changes. <i>Journal of Molecular Recognition</i> , <b>2009</b> , 22, 307-18	2.6	100
Identifying conformational changes of the beta(2) adrenoceptor that enable accurate prediction of ligand/receptor interactions and screening for GPCR modulators. <i>Journal of Computer-Aided Molecular Design</i> , <b>2009</b> , 23, 273-88	4.2	57
Community-wide assessment of GPCR structure modelling and ligand docking: GPCR Dock 2008.  Nature Reviews Drug Discovery, 2009, 8, 455-63	64.1	236
	Structure of an agonist-bound human A2A adenosine receptor. <i>Science</i> , 2011, 332, 322-7  High resolution structure of the ba3 cytochrome c oxidase from Thermus thermophilus in a lipidic environment. <i>PLoS ONE</i> , 2011, 6, e22348  Status of GPCR modeling and docking as reflected by community-wide GPCR Dock 2010 assessment. <i>Structure</i> , 2011, 19, 1108-26  Ligand-dependent perturbation of the conformational ensemble for the GPCR 2 adrenergic receptor revealed by HDX. <i>Structure</i> , 2011, 19, 1424-32  Structure of the human histamine H1 receptor complex with doxepin. <i>Nature</i> , 2011, 475, 65-70  Ligand binding and subtype selectivity of the human A(2A) adenosine receptor: identification and characterization of essential amino acid residues. <i>Journal of Biological Chemistry</i> , 2010, 285, 13032-44  SimiCon: a web tool for protein-ligand model comparison through calculation of equivalent atomic contacts. <i>Bioinformatics</i> , 2010, 26, 2784-5  Structure of the human dopamine D3 receptor in complex with a D2/D3 selective antagonist. <i>Science</i> , 2010, 330, 1091-5  Structures of the CXCR4 chemokine GPCR with small-molecule and cyclic peptide antagonists. <i>Science</i> , 2010, 330, 1066-71  Conserved binding mode of human beta2 adrenergic receptor inverse agonists and antagonist revealed by X-ray crystallography. <i>Journal of the American Chemical Society</i> , 2010, 132, 11443-5  Structure-based discovery of novel chemotypes for adenosine A(2A) receptor antagonists. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1799-809  GPCR 3D homology models for ligand screening: lessons learned from blind predictions of adenosine A2a receptor complex. <i>Proteins: Structure</i> , Function and Bioinformatics, 2010, 78, 197-211  Analysis of full and partial agonists binding to beta2-adrenergic receptor suggests a role of transmembrane helix V in agonist-specific conformational changes. <i>Journal of Computer-Aided Molecular Recognition</i> , 2009, 22, 307-18  Identifying conformational changes of the beta(2) adrenoceptor that enable accurate prediction of ligand/recepto	Structure based prediction of subtype-selectivity for adenosine receptor antagonists.  **Neuropharmacology, 2011, 60, 108-15**  Structure of an agonist-bound human A2A adenosine receptor. **Science, 2011, 332, 322-7**  333  High resolution structure of the ba3 cytochrome c oxidase from Thermus thermophilus in a lipidic environment. **PLoS ONE, 2011, 6, e22348**  Status of GPCR modeling and docking as reflected by community-wide GPCR Dock 2010 assessment. **Structure, 2011, 19, 1108-26**  Ligand-dependent perturbation of the conformational ensemble for the GPCR 2 adrenergic receptor revealed by HDX. **Structure, 2011, 19, 1424-32**  Structure of the human histamine H1 receptor complex with doxepin. **Nature, 2011, 475, 65-70**  \$5-2  Structure of the human histamine H1 receptor complex with doxepin. **Nature, 2011, 475, 65-70**  \$5-2  Structure of the human dosubtype selectivity of the human A(2A) adenosine receptor: identification and characterization of essential amino acid residues. **Journal of Biological Chemistry, 2010, 285, 13032-44**  \$5-4  SimiCon: a web tool for protein-ligand model comparison through calculation of equivalent atomic contacts. **Bioinformatics, 2010, 26, 2784-5**  Structure of the human dopamine D3 receptor in complex with a D2/D3 selective antagonist. **Science, 2010, 330, 1091-5**  Structure of the CXCR4 chemokine GPCR with small-molecule and cyclic peptide antagonists. **Science, 2010, 330, 1066-71**  Conserved binding mode of human beta2 adrenergic receptor inverse agonists and antagonist revealed by X-ray crystallography. **Journal of the American Chemical Society, 2010, 132, 11443-5**  Structure-based discovery of novel chemotypes for adenosine A(2A) receptor antagonists. **Journal of Medicinal Chemistry, 2010, 53, 1799-809**  Structure-based discovery of novel chemotypes for adenosine A(2A) receptor antagonists. **Journal of Medicinal Chemistry, 2010, 53, 1799-809**  Structure-based discovery of novel chemotypes for adenosine A(2A) receptor antagonists. **Journal of Medicinal Ch

17	In meso crystal structure and docking simulations suggest an alternative proteoglycan binding site in the OpcA outer membrane adhesin. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 71, 24-34	4.2	37
16	Discovery of small molecule inhibitors of ubiquitin-like poxvirus proteinase I7L using homology modeling and covalent docking approaches. <i>Journal of Computer-Aided Molecular Design</i> , <b>2007</b> , 21, 549-	-5 <sup>4</sup> 8 <sup>2</sup>	36
15	ICFF: a new method to incorporate implicit flexibility into an internal coordinate force field. <i>Journal of Computational Chemistry</i> , <b>2003</b> , 24, 254-65	3.5	22
14	Tightness of random knotting. <i>Physical Review E</i> , <b>2000</b> , 61, 5545-9	2.4	108
13	Pulling chromatin fibers: computer simulations of direct physical micromanipulations. <i>Journal of Molecular Biology</i> , <b>2000</b> , 295, 29-40	6.5	78
12	Aminoglycoside binding in the major groove of duplex RNA: the thermodynamic and electrostatic forces that govern recognition. <i>Journal of Molecular Biology</i> , <b>2000</b> , 298, 95-110	6.5	55
11	Influence of nucleosome structure on the three-dimensional folding of idealized minichromosomes. <i>Structure</i> , <b>1999</b> , 7, 1009-22	5.2	11
10	Sedimentation and electrophoretic migration of DNA knots and catenanes. <i>Journal of Molecular Biology</i> , <b>1998</b> , 278, 1-3	6.5	106
9	Geometry and physics of catenanes applied to the study of DNA replication. <i>Biophysical Journal</i> , <b>1998</b> , 74, 2815-22	2.9	39
8	IDEAL KNOTS AND THEIR RELATION TO THE PHYSICS OF REAL KNOTS. <i>Series on Knots and Everything</i> , <b>1998</b> , 1-19	2	17
7	The effect of intrinsic curvature on conformational properties of circular DNA. <i>Biophysical Journal</i> , <b>1997</b> , 72, 1070-9	2.9	32
6	Opposite effect of counterions on the persistence length of nicked and non-nicked DNA. <i>Journal of Molecular Biology</i> , <b>1997</b> , 266, 711-21	6.5	28
5	Properties of ideal composite knots. <i>Nature</i> , <b>1997</b> , 388, 148-51	50.4	71
4	Electrophoretic mobility of DNA knots. <i>Nature</i> , <b>1996</b> , 384, 122	50.4	152
3	Geometry and physics of knots. <i>Nature</i> , <b>1996</b> , 384, 142-145	50.4	218
2	Determination of DNA persistence length by cryo-electron microscopy. Separation of the static and dynamic contributions to the apparent persistence length of DNA. <i>Journal of Molecular Biology</i> , <b>1995</b> , 254, 579-94	6.5	189
1	Novel Class of Psychedelic Iboga Alkaloids Disrupts Opioid Addiction States		1