

# Eduard V Bocharov

## List of Publications by Citations

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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.

55 papers	1,603 citations	25 h-index	39 g-index
59 ext. papers	1,860 ext. citations	4.2 avg, IF	4.19 L-index

#	Paper	IF	Citations
55	Spatial structure of the dimeric transmembrane domain of the growth factor receptor ErbB2 presumably corresponding to the receptor active state. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 6950-6	5.4	164
54	Unique dimeric structure of BNip3 transmembrane domain suggests membrane permeabilization as a cell death trigger. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 16256-66	5.4	106
53	Spatial structure of the transmembrane domain heterodimer of ErbB1 and ErbB2 receptor tyrosine kinases. <i>Journal of Molecular Biology</i> , <b>2010</b> , 400, 231-43	6.5	99
52	Left-handed dimer of EphA2 transmembrane domain: Helix packing diversity among receptor tyrosine kinases. <i>Biophysical Journal</i> , <b>2010</b> , 98, 881-9	2.9	87
51	Spatial structure and pH-dependent conformational diversity of dimeric transmembrane domain of the receptor tyrosine kinase EphA1. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 29385-95	5.4	86
50	From structure and dynamics of protein L7/L12 to molecular switching in ribosome. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 17697-706	5.4	79
49	Dimeric structure of transmembrane domain of amyloid precursor protein in micellar environment. <i>FEBS Letters</i> , <b>2012</b> , 586, 1687-92	3.8	63
48	HER2 Transmembrane Domain (TMD) Mutations (V659/G660) That Stabilize Homo- and Heterodimerization Are Rare Oncogenic Drivers in Lung Adenocarcinoma That Respond to Afatinib. <i>Journal of Thoracic Oncology</i> , <b>2017</b> , 12, 446-457	8.9	59
47	Structure of FGFR3 transmembrane domain dimer: implications for signaling and human pathologies. <i>Structure</i> , <b>2013</b> , 21, 2087-93	5.2	56
46	Alternative packing of EGFR transmembrane domain suggests that protein-lipid interactions underlie signal conduction across membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 1254-61	3.8	51
45	New binding site on common molecular scaffold provides HERG channel specificity of scorpion toxin BeKm-1. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 43104-9	5.4	51
44	Structural and thermodynamic insight into the process of "weak" dimerization of the ErbB4 transmembrane domain by solution NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 2158-70	3.8	50
43	Helix-helix interactions in membrane domains of bitopic proteins: Specificity and role of lipid environment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2017</b> , 1859, 561-576	3.8	49
42	Membrane binding motif of the P-type cardiotoxin. <i>Journal of Molecular Biology</i> , <b>2001</b> , 305, 137-49	6.5	48
41	HER2 Transmembrane Domain Dimerization Coupled with Self-Association of Membrane-Embedded Cytoplasmic Juxtamembrane Regions. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 52-61	6.5	39
40	Dynamics-modulated biological activity of transforming growth factor beta3. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 46273-9	5.4	34
39	New Insights into Molecular Organization of Human Neuraminidase-1: Transmembrane Topology and Dimerization Ability. <i>Scientific Reports</i> , <b>2016</b> , 6, 38363	4.9	34

38	Structure elucidation of dimeric transmembrane domains of bitopic proteins. <i>Cell Adhesion and Migration</i> , <b>2010</b> , 4, 284-98	3.2	29
37	Point mutations in dimerization motifs of the transmembrane domain stabilize active or inactive state of the EphA2 receptor tyrosine kinase. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 14955-64	5.4	28
36	NMR-based approach to measure the free energy of transmembrane helix-helix interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 164-72	3.8	27
35	Towards structure determination of neurotoxin II bound to nicotinic acetylcholine receptor: a solid-state NMR approach. <i>FEBS Letters</i> , <b>2004</b> , 564, 319-24	3.8	27
34	Two forms of cytotoxin II (cardiotoxin) from <i>Naja naja oxiana</i> in aqueous solution: spatial structures with tightly bound water molecules. <i>FEBS Journal</i> , <b>1999</b> , 263, 152-62		27
33	The Conformation of the Epidermal Growth Factor Receptor Transmembrane Domain Dimer Dynamically Adapts to the Local Membrane Environment. <i>Biochemistry</i> , <b>2017</b> , 56, 1697-1705	3.2	26
32	Specific membrane binding of neurotoxin II can facilitate its delivery to acetylcholine receptor. <i>Biophysical Journal</i> , <b>2009</b> , 97, 2089-97	2.9	26
31	Uncharged AZT and D4T derivatives of phosphonoformic and phosphonoacetic acids as anti-HIV pronucleosides. <i>Journal of Medicinal Chemistry</i> , <b>2004</b> , 47, 3606-14	8.3	25
30	The Membrane Mimetic Affects the Spatial Structure and Mobility of EGFR Transmembrane and Juxtamembrane Domains. <i>Biochemistry</i> , <b>2015</b> , 54, 6295-8	3.2	24
29	Conformational transitions and interactions underlying the function of membrane embedded receptor protein kinases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2017</b> , 1859, 1417-1429	3.8	23
28	Antiamoebin I in methanol solution: rapid exchange between right-handed and left-handed 3(10)-helical conformations. <i>Chemistry and Biodiversity</i> , <b>2007</b> , 4, 1219-42	2.5	23
27	Loop 3 of short neurotoxin II is an additional interaction site with membrane-bound nicotinic acetylcholine receptor as detected by solid-state NMR spectroscopy. <i>Journal of Molecular Biology</i> , <b>2009</b> , 390, 662-71	6.5	22
26	Role of dimerization efficiency of transmembrane domains in activation of fibroblast growth factor receptor 3. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8105-8	16.4	19
25	Structural basis of the signal transduction via transmembrane domain of the human growth hormone receptor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2018</b> , 1862, 1410-1420	4	17
24	Backbone dynamics of the channel-forming antibiotic zervamicin IIB studied by 15N NMR relaxation. <i>FEBS Letters</i> , <b>2001</b> , 495, 52-5	3.8	15
23	Cell-free expression of the APP transmembrane fragments with Alzheimer's disease mutations using algal amino acid mixture for structural NMR studies. <i>Protein Expression and Purification</i> , <b>2016</b> , 123, 105-11	2	9
22	Familial L723P Mutation Can Shift the Distribution between the Alternative APP Transmembrane Domain Cleavage Cascades by Local Unfolding of the Cleavage Site Suggesting a Straightforward Mechanism of Alzheimer's Disease Pathogenesis. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 1573-1582	4.9	8
21	Enhanced conformational flexibility of the histone-like (HU) protein from <i>Mycoplasma gallisepticum</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2018</b> , 36, 45-53	3.6	8

20	The dimeric ectodomain of the alkali-sensing insulin receptor-related receptor (ectoIRR) has a droplike shape. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 17790-17798	5.4	8
19	Two types of conformational dynamics and thermo-sensor properties of praseodymium-DOTA by <sup>1</sup> H/ <sup>13</sup> C NMR. <i>Inorganica Chimica Acta</i> , <b>2019</b> , 486, 340-344	2.7	8
18	New Development in the Solid-State Isotope Exchange with Spillover Hydrogen in Organic Compounds. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 16878-16884	3.8	7
17	NMR relaxation parameters of methyl groups as a tool to map the interfaces of helix-helix interactions in membrane proteins. <i>Journal of Biomolecular NMR</i> , <b>2017</b> , 69, 165-179	3	5
16	New strategy for high-level expression and purification of biologically active monomeric TGF- $\beta$ /C77S in Escherichia coli. <i>Molecular Biotechnology</i> , <b>2015</b> , 57, 160-71	3	5
15	Transmembrane Peptides as a New Strategy to Inhibit Neuraminidase-1 Activation. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 611121	5.7	5
14	Structural plasticity and thermal stability of the histone-like protein from Spiroplasma melliferum are due to phenylalanine insertions into the conservative scaffold. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2018</b> , 36, 4392-4404	3.6	4
13	Structure-based inhibitors targeting the alpha-helical domain of the Spiroplasma melliferum histone-like HU protein. <i>Scientific Reports</i> , <b>2020</b> , 10, 15128	4.9	4
12	Atomistic mechanism of the constitutive activation of PDGFRA via its transmembrane domain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2019</b> , 1863, 82-95	4	4
11	Modulation of the Bioactive Conformation of Transforming Growth Factor $\beta$ Possible Implications of Cation Binding for Biological Function. <i>Topics in Current Chemistry</i> , <b>2008</b> , 273, 155-81		3
10	Dimeric states of transmembrane domains of insulin and IGF-1R receptors: Structures and possible role in activation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2020</b> , 1862, 183417	3.8	3
9	Structural Studies Providing Insights into Production and Conformational Behavior of Amyloid- $\beta$ Peptide Associated with Alzheimer's Disease Development. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
8	Activity-dependent conformational transitions of the insulin receptor-related receptor. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100534	5.4	3
7	Unambiguous Tracking of Protein Phosphorylation by Fast High-Resolution FOSY NMR*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23540-23544	16.4	2
6	Accurate measurement of dipole/dipole transverse cross-correlated relaxation [Formula: see text] in methylenes and primary amines of uniformly [Formula: see text]-labeled proteins. <i>Journal of Biomolecular NMR</i> , <b>2019</b> , 73, 245-260	3	1
5	All-Enantiomeric Peptide D3 Designed for Alzheimer's Disease Treatment Dynamically Interacts with Membrane-Bound Amyloid- $\beta$ -Precursors. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 16464-16479	8.3	0
4	NMR assignments and secondary structure distribution of emfourin, a novel proteinaceous protease inhibitor. <i>Biomolecular NMR Assignments</i> , <b>2021</b> , 15, 361	0.7	0
3	Alternative dimerization of receptor tyrosine kinases with signal transduction through a cellular membrane. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2017</b> , 43, 477-486	1	

2	Backbone and side-chain chemical shift assignments for the ribosome-inactivating protein trichobakin (TBK). <i>Biomolecular NMR Assignments</i> , <b>2020</b> , 14, 55-61	0.7
1	Unambiguous Tracking of Protein Phosphorylation by Fast High-Resolution FOSY NMR**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23732	3.6