

# Konstantin Mineev

## List of Publications by Year in descending order

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89  
papers

2,262  
citations

218662

26  
h-index

243610

44  
g-index

97  
all docs

97  
docs citations

97  
times ranked

2335  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2008, 283, 6950-6956.	3.4	189
2	Spatial Structure of the Transmembrane Domain Heterodimer of ErbB1 and ErbB2 Receptor Tyrosine Kinases. <i>Journal of Molecular Biology</i> , 2010, 400, 231-243.	4.2	130
3	Left-Handed Dimer of EphA2 Transmembrane Domain: Helix Packing Diversity among Receptor Tyrosine Kinases. <i>Biophysical Journal</i> , 2010, 98, 881-889.	0.5	100
4	Lipidâ€protein nanodiscs for cell-free production of integral membrane proteins in a soluble and folded state: Comparison with detergent micelles, bicelles and liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 349-358.	2.6	95
5	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8124-8128.	13.8	89
6	NMR Structure and Action on Nicotinic Acetylcholine Receptors of Water-soluble Domain of Human LYNX1. <i>Journal of Biological Chemistry</i> , 2011, 286, 10618-10627.	3.4	87
7	Mechanism and color modulation of fungal bioluminescence. <i>Science Advances</i> , 2017, 3, e1602847.	10.3	74
8	Helix-helix interactions in membrane domains of bitopic proteins: Specificity and role of lipid environment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 561-576.	2.6	72
9	Isolation, Structure Elucidation, and Synergistic Antibacterial Activity of a Novel Two-Component Lantibiotic Lichenicidin from <i>Bacillus licheniformis</i> VK21. <i>Biochemistry</i> , 2010, 49, 6462-6472.	2.5	67
10	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> , 2012, 1818, 2158-2170.	2.6	66
11	Sea Anemone Peptide with Uncommon Î²-Hairpin Structure Inhibits Acid-sensing Ion Channel 3 (ASIC3) and Reveals Analgesic Activity. <i>Journal of Biological Chemistry</i> , 2013, 288, 23116-23127.	3.4	60
12	Buckwheat trypsin inhibitor with helical hairpin structure belongs to a new family of plant defence peptides. <i>Biochemical Journal</i> , 2012, 446, 69-77.	3.7	56
13	Determination of tin equilibrium isotope fractionation factors from synchrotron radiation experiments. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5531-5536.	3.9	55
14	HER2 Transmembrane Domain Dimerization Coupled with Self-Association of Membrane-Embedded Cytoplasmic Juxtamembrane Regions. <i>Journal of Molecular Biology</i> , 2016, 428, 52-61.	4.2	55
15	A Novel Lipopeptaibol Emericellipsin A with Antimicrobial and Antitumor Activity Produced by the Extremophilic Fungus <i>Emericellopsis alkalina</i> . <i>Molecules</i> , 2018, 23, 2785.	3.8	53
16	Spatial Structure and Activity of Synthetic Fragments of Lynx1 and of Nicotinic Receptor Loop C Models. <i>Biomolecules</i> , 2021, 11, 1.	4.0	48
17	Characterization of Small Isotropic Bicelles with Various Compositions. <i>Langmuir</i> , 2016, 32, 6624-6637.	3.5	47
18	Structural and Functional Characterization of Alternative Transmembrane Domain Conformations in VEGF Receptor 2 Activation. <i>Structure</i> , 2014, 22, 1077-1089.	3.3	43

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19	Spatial structure and dimer↔monomer equilibrium of the ErbB3 transmembrane domain in DPC micelles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2081-2088.	2.6	41
20	New Disulfide-Stabilized Fold Provides Sea Anemone Peptide to Exhibit Both Antimicrobial and TRPA1 Potentiating Properties. <i>Toxins</i> , 2017, 9, 154.	3.4	41
21	The Conformation of the Epidermal Growth Factor Receptor Transmembrane Domain Dimer Dynamically Adapts to the Local Membrane Environment. <i>Biochemistry</i> , 2017, 56, 1697-1705.	2.5	39
22	Dimeric Structure of the Transmembrane Domain of Glycophorin A in Lipidic and Detergent Environments. <i>Acta Naturae</i> , 2011, 3, 90-98.	1.7	37
23	Recombinant production and solution structure of lipid transfer protein from lentil <i>Lens culinaris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 427-432.	2.1	33
24	Structural Similarity between Defense Peptide from Wheat and Scorpion Neurotoxin Permits Rational Functional Design. <i>Journal of Biological Chemistry</i> , 2014, 289, 14331-14340.	3.4	33
25	NMR-based approach to measure the free energy of transmembrane helix↔helix interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 164-172.	2.6	32
26	The Membrane Mimetic Affects the Spatial Structure and Mobility of EGFR Transmembrane and Juxtamembrane Domains. <i>Biochemistry</i> , 2015, 54, 6295-6298.	2.5	32
27	Toll↔like receptor 3 transmembrane domain is able to perform various homotypic interactions: An NMR structural study. <i>FEBS Letters</i> , 2014, 588, 3802-3807.	2.8	30
28	Structural investigation of influenza virus hemagglutinin membrane-anchoring peptide. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 547-552.	2.1	27
29	Structural Basis of p75 Transmembrane Domain Dimerization. <i>Journal of Biological Chemistry</i> , 2016, 291, 12346-12357.	3.4	27
30	Ligand Binding Properties of the Lentil Lipid Transfer Protein: Molecular Insight into the Possible Mechanism of Lipid Uptake. <i>Biochemistry</i> , 2017, 56, 1785-1796.	2.5	27
31	Membrane mimetics for solution NMR studies of membrane proteins. <i>Nanotechnology Reviews</i> , 2017, 6, 15-32.	5.8	25
32	Lipid-Protein Nanodiscs Offer New Perspectives for Structural and Functional Studies of Water-Soluble Membrane-Active Peptides. <i>Acta Naturae</i> , 2014, 6, 84-94.	1.7	25
33	Mutation rate in stem cells: an underestimated barrier on the way to therapy. <i>Trends in Molecular Medicine</i> , 2013, 19, 273-280.	6.7	24
34	Spatial structure of TLR4 transmembrane domain in bicelles provides the insight into the receptor activation mechanism. <i>Scientific Reports</i> , 2017, 7, 6864.	3.3	23
35	Dimeric structure of the transmembrane domain of glycophorin a in lipidic and detergent environments. <i>Acta Naturae</i> , 2011, 3, 90-8.	1.7	23
36	NMR Dynamics of Transmembrane and Intracellular Domains of p75NTR in Lipid-Protein Nanodiscs. <i>Biophysical Journal</i> , 2015, 109, 772-782.	0.5	22

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37	Structural basis of the transmembrane domain dimerization and rotation in the activation mechanism of the TRKA receptor by nerve growth factor. <i>Journal of Biological Chemistry</i> , 2020, 295, 275-286.	3.4	22
38	NanoFAST: structure-based design of a small fluorogen-activating protein with only 98 amino acids. <i>Chemical Science</i> , 2021, 12, 6719-6725.	7.4	22
39	A novel lipid transfer protein from the dill <i>Anethum graveolens</i> L.: isolation, structure, heterologous expression, and functional characteristics. <i>Journal of Peptide Science</i> , 2016, 22, 59-66.	1.4	20
40	Heterologous expression and solution structure of defensin from lentil <i>Lens culinaris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 451, 252-257.	2.1	19
41	Lipid-protein nanodiscs offer new perspectives for structural and functional studies of water-soluble membrane-active peptides. <i>Acta Naturae</i> , 2014, 6, 84-94.	1.7	17
42	Imidazol-5-one as an Acceptor in Donor-Acceptor Cyclopropanes: Cycloaddition with Aldehydes. <i>Organic Letters</i> , 2020, 22, 2740-2745.	4.6	16
43	Phase Transitions in Small Isotropic Bicelles. <i>Langmuir</i> , 2018, 34, 3426-3437.	3.5	11
44	Imidazol-5-ones as a substrate for [1,5]-hydride shift triggered cyclization. <i>New Journal of Chemistry</i> , 2021, 45, 1805-1808.	2.8	11
45	Probing the effect of membrane contents on transmembrane protein-protein interaction using solution NMR and computer simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2486-2498.	2.6	10
46	Targeting trimeric transmembrane domain 5 of oncogenic latent membrane protein 1 using a computationally designed peptide. <i>Chemical Science</i> , 2019, 10, 7584-7590.	7.4	10
47	Protein surface topography as a tool to enhance the selective activity of a potassium channel blocker. <i>Journal of Biological Chemistry</i> , 2019, 294, 18349-18359.	3.4	10
48	The Chemical Basis of Fungal Bioluminescence. <i>Angewandte Chemie</i> , 2015, 127, 8242-8246.	2.0	9
49	Novel Peptide Chemistry in Terrestrial Animals: Natural Luciferin Analogues from the Bioluminescent Earthworm <i>Fridericia heliota</i> . <i>Chemistry - A European Journal</i> , 2015, 21, 3942-3947.	3.3	9
50	FaÅšade detergents as bicelle rim-forming agents for solution NMR spectroscopy. <i>Nanotechnology Reviews</i> , 2017, 6, 93-103.	5.8	9
51	CARD domain of rat RIP2 kinase: Refolding, solution structure, pH-dependent behavior and protein-protein interactions. <i>PLoS ONE</i> , 2018, 13, e0206244.	2.5	9
52	Behavior of Most Widely Spread Lipids in Isotropic Bicelles. <i>Langmuir</i> , 2018, 34, 8302-8313.	3.5	8
53	Oligomerization analysis as a tool to elucidate the mechanism of EBV latent membrane protein 1 inhibition by pentamidine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183380.	2.6	8
54	Interaction between the transmembrane domains of neurotrophin receptors p75 and TrkA mediates their reciprocal activation. <i>Journal of Biological Chemistry</i> , 2021, 297, 100926.	3.4	8

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55	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> , 2017, 69, 165-179.	2.8	7
56	Revising the mechanism of p75 <sup>NTR</sup> activation: intrinsically monomeric state of death domains invokes the "helper" hypothesis. <i>Scientific Reports</i> , 2020, 10, 13686.	3.3	7
57	New Insectotoxin from <i>Tibellus Oblongus</i> Spider Venom Presents Novel Adaptation of ICK Fold. <i>Toxins</i> , 2021, 13, 29.	3.4	7
58	Modulation of Toll-like receptor 1 intracellular domain structure and activity by Zn <sup>2+</sup> ions. <i>Communications Biology</i> , 2021, 4, 1003.	4.4	7
59	Yellow and Orange Fluorescent Proteins with Tryptophan-based Chromophores. <i>ACS Chemical Biology</i> , 2017, 12, 1867-1873.	3.4	6
60	Unexpected Coelenterazine Degradation Products of <i>Beroë abyssicola</i> Photoprotein Photoinactivation. <i>Organic Letters</i> , 2021, 23, 6846-6849.	4.6	6
61	Bacterial synthesis, purification, and solubilization of transmembrane segments of ErbB family receptors. <i>Molecular Biology</i> , 2011, 45, 823-832.	1.3	5
62	Refined structure of BeM9 reveals arginine hand, an overlooked structural motif in scorpion toxins affecting sodium channels. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 1117-1122.	2.6	5
63	Derivatives of Azidocinnamic Acid in the Synthesis of 2-Amino-4-Arylidene-1H-imidazol-5(4H)-ones. <i>Chemistry of Heterocyclic Compounds</i> , 2018, 54, 625-629.	1.2	5
64	Enamine-azide [2+3]-cycloaddition as a method to introduce functional groups into fluorescent dyes. <i>Tetrahedron Letters</i> , 2019, 60, 456-459.	1.4	5
65	Structure-based rational design of an enhanced fluorogen-activating protein for fluorogens based on GFP chromophore. <i>Communications Biology</i> , 2022, 5, .	4.4	5
66	GMDP: unusual physico-chemical and biological properties of the anomeric forms. <i>Journal of Peptide Science</i> , 2015, 21, 717-722.	1.4	4
67	NMR structure of a full-length single-pass membrane protein NRADD. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 786-790.	2.6	4
68	Streptocinnamides A and B, Depsipeptides from <i>Streptomyces</i> sp. KMM 9044. <i>Organic Letters</i> , 2022, 24, 4892-4895.	4.6	4
69	Structural investigations of recombinant urokinase growth factor-like domain. <i>Biochemistry (Moscow)</i> , 2013, 78, 517-530.	1.5	3
70	Structure of MeuNaTx1 toxin from scorpion venom highlights the importance of the nest motif. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1055-1060.	2.6	3
71	Solution of the spatial structure of dimeric transmembrane domains of proteins by heteronuclear NMR spectroscopy and molecular modeling. <i>Biophysics (Russian Federation)</i> , 2006, 51, 23-27.	0.7	2
72	Archaeal cyclopentane fragment in a surfactant's hydrophobic tail decreases the Krafft point. <i>Soft Matter</i> , 2020, 16, 1333-1341.	2.7	2

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73	Synthesis of 5-(aminomethylidene)imidazol-4-ones by using N,N-dialkylformamide acetals. <i>Chemistry of Heterocyclic Compounds</i> , 2020, 56, 1097-1099.	1.2	2
74	Targeting the transmembrane domain 5 of latent membrane protein 1 using small molecule modulators. <i>European Journal of Medicinal Chemistry</i> , 2021, 214, 113210.	5.5	2
75	Intrinsically disordered regions couple the ligand binding and kinase activation of Trk neurotrophin receptors. <i>IScience</i> , 2022, 25, 104348.	4.1	2
76	Structural Aspects of Transmembrane Domain Interactions of Receptor Tyrosine Kinases. <i>Biophysical Journal</i> , 2011, 100, 207a.	0.5	1
77	Structure-Functional Insight into Transmembrane Helix Dimerization by Protein Engineering, Molecular Modeling and Heteronuclear NMR Spectroscopy. <i>Biophysical Journal</i> , 2012, 102, 470a.	0.5	1
78	Preparation of pro-oncogenic mutant forms V659E and V659Q of the transmembrane domain of receptor protein kinase ErbB2 for structural studies. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2013, 7, 91-99.	0.6	1
79	Reversible condensation of 4-arylidene-1,2-dimethyl-1H-imidazol-5(4H)-ones with aromatic acyl chlorides. <i>Chemistry of Heterocyclic Compounds</i> , 2015, 51, 944-947.	1.2	1
80	Synthesis of methylsulfanyl analogs of Kaede protein chromophore. <i>Chemistry of Heterocyclic Compounds</i> , 2020, 56, 399-402.	1.2	1
81	Sampling the cultivation parameter space for the bacterial production of TLR1 intracellular domain reveals the multiple optima. <i>Protein Expression and Purification</i> , 2021, 181, 105832.	1.3	1
82	Buckwheat trypsin inhibitor with helical hairpin structure belongs to a new family of plant defence peptides. <i>Biochemical Journal</i> , 2012, 446, 331-331.	3.7	0
83	Insight into the Thermodynamics and Equilibrium Kinetics of the Interaction between Transmembrane $\beta$ -Helices in the Membrane Domain of ErbB4. <i>Biophysical Journal</i> , 2012, 102, 391a.	0.5	0
84	Titelbild: The Chemical Basis of Fungal Bioluminescence (Angew. Chem. 28/2015). <i>Angewandte Chemie</i> , 2015, 127, 8113-8113.	2.0	0
85	Frontispiece: Novel Peptide Chemistry in Terrestrial Animals: Natural Luciferin Analogues from the Bioluminescent Earthworm <i>Fridericia heliota</i> . <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	3.3	0
86	Cell-free expression and purification of the fragments of the receptor tyrosine kinases of the EGFR family, containing the transmembrane domain with the juxtamembrane region, for structural studies. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2016, 10, 142-149.	0.6	0
87	Synthesis of Panal Terpenoid Core. <i>Synlett</i> , 2017, 28, 583-588.	1.8	0
88	Cover Image, Volume 86, Issue 10. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, C4-C4.	2.6	0
89	Expression, purification and characterization of SORCS2 intracellular domain for structural studies. <i>Protein Expression and Purification</i> , 2022, 193, 106058.	1.3	0