

# Roman Jerala

## List of Publications by Citations

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190  
papers

7,139  
citations

46  
h-index

77  
g-index

206  
ext. papers

8,259  
ext. citations

7.3  
avg, IF

6.02  
L-index

#	Paper	IF	Citations
190	Mechanism of endosomal TLR inhibition by antimalarial drugs and imidazoquinolines. <i>Journal of Immunology</i> , <b>2011</b> , 186, 4794-804	5.3	405
189	Characterization of quercetin binding site on DNA gyrase. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 306, 530-6	3.4	232
188	Design of a single-chain polypeptide tetrahedron assembled from coiled-coil segments. <i>Nature Chemical Biology</i> , <b>2013</b> , 9, 362-6	11.7	224
187	Structural biology of the LPS recognition. <i>International Journal of Medical Microbiology</i> , <b>2007</b> , 297, 353-63.7	3.7	208
186	DNA-guided assembly of biosynthetic pathways promotes improved catalytic efficiency. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 1879-89	20.1	207
185	Three-dimensional domain swapping in the folded and molten-globule states of cystatins, an amyloid-forming structural superfamily. <i>EMBO Journal</i> , <b>2001</b> , 20, 4774-81	13	161
184	Chemistry of lipid A: at the heart of innate immunity. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 500-19	4.8	147
183	Green tea catechins inhibit bacterial DNA gyrase by interaction with its ATP binding site. <i>Journal of Medicinal Chemistry</i> , <b>2007</b> , 50, 264-71	8.3	145
182	Similarities and specificities of fungal keratinolytic proteases: comparison of keratinases of <i>Paecilomyces marquandii</i> and <i>Doratomyces microsporus</i> to some known proteases. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 3420-6	4.8	142
181	The POM monoclonals: a comprehensive set of antibodies to non-overlapping prion protein epitopes. <i>PLoS ONE</i> , <b>2008</b> , 3, e3872	3.7	128
180	Primary structure of a new cysteine proteinase inhibitor from pig leucocytes. <i>FEBS Letters</i> , <b>1989</b> , 255, 211-4	3.8	117
179	MD-2 as the target of curcumin in the inhibition of response to LPS. <i>Journal of Leukocyte Biology</i> , <b>2007</b> , 82, 968-74	6.5	106
178	Toll-like receptor 4 activation in cancer progression and therapy. <i>Clinical and Developmental Immunology</i> , <b>2011</b> , 2011, 609579		101
177	Curcumin binds to the alpha-helical intermediate and to the amyloid form of prion protein - a new mechanism for the inhibition of PrP(Sc) accumulation. <i>Journal of Neurochemistry</i> , <b>2008</b> , 104, 1553-64	6	101
176	Structural model of MD-2 and functional role of its basic amino acid clusters involved in cellular lipopolysaccharide recognition. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 28475-82	5.4	100
175	The three-dimensional solution structure of human stefin A. <i>Journal of Molecular Biology</i> , <b>1995</b> , 246, 331-43	6.5	100
174	Enhancement of endotoxin neutralization by coupling of a C12-alkyl chain to a lactoferricin-derived peptide. <i>Biochemical Journal</i> , <b>2005</b> , 385, 135-43	3.8	92

173	Enhancement of antibacterial and lipopolysaccharide binding activities of a human lactoferrin peptide fragment by the addition of acyl chain. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2003</b> , 51, 1159-65 <sup>5.1</sup>	91
172	Design of coiled-coil protein-origami cages that self-assemble in vitro and in vivo. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 1094-1101	44.5 89
171	Mixed-valence Cu(II)/Cu(I) complex of quinolone ciprofloxacin isolated by a hydrothermal reaction in the presence of L-histidine: comparison of biological activities of various copper-ciprofloxacin compounds. <i>Journal of Inorganic Biochemistry</i> , <b>2005</b> , 99, 432-42	4.2 89
170	Endotoxin neutralizing peptides. <i>Current Topics in Medicinal Chemistry</i> , <b>2004</b> , 4, 1173-84	3 86
169	Essential roles of hydrophobic residues in both MD-2 and toll-like receptor 4 in activation by endotoxin. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 15052-60	5.4 85
168	The lipopolysaccharide core of <i>Brucella abortus</i> acts as a shield against innate immunity recognition. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002675	7.6 81
167	pH-induced conformational transitions of the propeptide of human cathepsin L. A role for a molten globule state in zymogen activation. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 11498-504	5.4 80
166	Response to Apostol and Surewicz: Structural Underpinnings of Prion Protein Conversion. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, le8	5.4 78
165	Globular domain of the prion protein needs to be unlocked by domain swapping to support prion protein conversion. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 12149-56	5.4 78
164	Designable DNA-binding domains enable construction of logic circuits in mammalian cells. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 203-8	11.7 75
163	De novo design of orthogonal peptide pairs forming parallel coiled-coil heterodimers. <i>Journal of Peptide Science</i> , <b>2011</b> , 17, 100-6	2.1 71
162	Synthetic lipopeptides: a novel class of anti-infectives. <i>Expert Opinion on Investigational Drugs</i> , <b>2007</b> , 16, 1159-69	5.9 71
161	Alexidine and chlorhexidine bind to lipopolysaccharide and lipoteichoic acid and prevent cell activation by antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2008</b> , 62, 730-7	5.1 70
160	In silico fragment-based discovery of indolin-2-one analogues as potent DNA gyrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 5207-10	2.9 69
159	A second binding site for double-stranded RNA in TLR3 and consequences for interferon activation. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 761-3	17.6 67
158	Design of fast proteolysis-based signaling and logic circuits in mammalian cells. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 115-122	11.7 67
157	NLRP3 inflammasome activation in macrophage cell lines by prion protein fibrils as the source of IL-1 $\beta$ and neuronal toxicity. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 4215-28	10.3 66
156	Structural origin of endotoxin neutralization and antimicrobial activity of a lactoferrin-based peptide. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 16955-61	5.4 66

155	Identification of LPS-binding peptide fragment of MD-2, a toll-receptor accessory protein. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 292, 880-5	3.4	66
154	Monoclonal antibody against a peptide of human prion protein discriminates between Creutzfeldt-Jacob's disease-affected and normal brain tissue. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 3694-8	5.4	65
153	Toll-like receptor 4 senses oxidative stress mediated by the oxidation of phospholipids in extracellular vesicles. <i>Science Signaling</i> , <b>2015</b> , 8, ra60	8.8	62
152	Assessing the global minimum conformation of stefin A dimer by annealing under partially denaturing conditions. <i>Journal of Molecular Biology</i> , <b>1999</b> , 291, 1079-89	6.5	61
151	Cloning a synthetic gene for human stefin B and its expression in E. coli. <i>FEBS Letters</i> , <b>1988</b> , 239, 41-4	3.8	61
150	NLRP3 lacking the leucine-rich repeat domain can be fully activated via the canonical inflammasome pathway. <i>Nature Communications</i> , <b>2018</b> , 9, 5182	17.4	58
149	A bistable genetic switch based on designable DNA-binding domains. <i>Nature Communications</i> , <b>2014</b> , 5, 5007	17.4	53
148	Activation of lymphoma-associated MyD88 mutations via allostery-induced TIR-domain oligomerization. <i>Blood</i> , <b>2014</b> , 124, 3896-904	2.2	53
147	The role of UNC93B1 protein in surface localization of TLR3 receptor and in cell priming to nucleic acid agonists. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 442-54	5.4	53
146	Taxanes inhibit human TLR4 signaling by binding to MD-2. <i>FEBS Letters</i> , <b>2008</b> , 582, 3929-34	3.8	52
145	Coiled coil protein origami: from modular design principles towards biotechnological applications. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 3530-3542	58.5	48
144	Studies on lactoferricin-derived Escherichia coli membrane-active peptides reveal differences in the mechanism of N-acylated versus nonacylated peptides. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 21266-21276	5.4	46
143	Expression, purification and structural studies of a short antimicrobial peptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2009</b> , 1788, 314-23	3.8	43
142	Structural similarity between the hydrophobic fluorescent probe and lipid A as a ligand of MD-2. <i>FASEB Journal</i> , <b>2006</b> , 20, 1836-42	0.9	42
141	The differential interaction of Brucella and ochrobactrum with innate immunity reveals traits related to the evolution of stealthy pathogens. <i>PLoS ONE</i> , <b>2009</b> , 4, e5893	3.7	41
140	Self-assembled bionanostructures: proteins following the lead of DNA nanostructures. <i>Journal of Nanobiotechnology</i> , <b>2014</b> , 12, 4	9.4	40
139	Structural features governing the activity of lactoferricin-derived peptides that act in synergy with antibiotics against Pseudomonas aeruginosa in vitro and in vivo. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 218-28	5.9	40
138	Influence of N-acylation of a peptide derived from human lactoferricin on membrane selectivity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2006</b> , 1758, 1426-35	3.8	40

137	Modulation of CD14 and TLR4/MD-2 activities by a synthetic lipid A mimetic. <i>ChemBioChem</i> , <b>2014</b> , 15, 250-8	3.8	39
136	Characterization of the equilibrium intermediates in acid denaturation of human stefin B. <i>FEBS Journal</i> , <b>1997</b> , 245, 364-72		39
135	The acyl group as the central element of the structural organization of antimicrobial lipopeptide. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1022-3	16.4	39
134	Biophysical characterization of the interaction of <i>Limulus polyphemus</i> endotoxin neutralizing protein with lipopolysaccharide. <i>FEBS Journal</i> , <b>2004</b> , 271, 2037-46		39
133	Comparative analysis of selected methods for the assessment of antimicrobial and membrane-permeabilizing activity: a case study for lactoferricin derived peptides. <i>BMC Microbiology</i> , <b>2008</b> , 8, 196	4.5	37
132	Activation of Human Toll-like Receptor 4 (TLR4)/Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of <i>Burkholderia cenocepacia</i> . <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 21305-19	5.4	36
131	Species-Specific Minimal Sequence Motif for Oligodeoxyribonucleotides Activating Mouse TLR9. <i>Journal of Immunology</i> , <b>2015</b> , 195, 4396-405	5.3	36
130	In silico discovery and biophysical evaluation of novel 5-(2-hydroxybenzylidene) rhodanine inhibitors of DNA gyrase B. <i>Bioorganic and Medicinal Chemistry</i> , <b>2012</b> , 20, 2572-80	3.4	36
129	Conformationally constrained lipid A mimetics for exploration of structural basis of TLR4/MD-2 activation by lipopolysaccharide. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 2423-32	4.9	36
128	Free thiol group of MD-2 as the target for inhibition of the lipopolysaccharide-induced cell activation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 19493-500	5.4	36
127	Production of stable isotope enriched antimicrobial peptides in <i>Escherichia coli</i> : an application to the production of a <sup>15</sup> N-enriched fragment of lactoferrin. <i>Journal of Biomolecular NMR</i> , <b>2000</b> , 18, 145-53		36
126	The role of the C-terminal D0 domain of flagellin in activation of Toll like receptor 5. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006574	7.6	34
125	Design principles for rapid folding of knotted DNA nanostructures. <i>Nature Communications</i> , <b>2016</b> , 7, 10803	17.4	34
124	The primary structure of inhibitor of cysteine proteinases from potato. <i>FEBS Letters</i> , <b>1993</b> , 333, 15-20	3.8	33
123	The molecular mechanism of species-specific recognition of lipopolysaccharides by the MD-2/TLR4 receptor complex. <i>Molecular Immunology</i> , <b>2015</b> , 63, 134-42	4.3	32
122	Structure-Activity Relationship in Monosaccharide-Based Toll-Like Receptor 4 (TLR4) Antagonists. <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 2895-2909	8.3	32
121	Production of recombinant antimicrobial peptides in bacteria. <i>Methods in Molecular Biology</i> , <b>2010</b> , 618, 61-76	1.4	32
120	The ectodomain of the Toll-like receptor 4 prevents constitutive receptor activation. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 23334-44	5.4	32

119	Minimal sequence requirements for oligodeoxyribonucleotides activating human TLR9. <i>Journal of Immunology</i> , <b>2015</b> , 194, 3901-8	5.3	31
118	Expression of soluble versatile peroxidase of <i>Bjerkandera adusta</i> in <i>Escherichia coli</i> . <i>Bioresource Technology</i> , <b>2009</b> , 100, 851-8	11	31
117	Semiautomatic sequence-specific assignment of proteins based on the tertiary structure--the program st2nmr. <i>Journal of Computational Chemistry</i> , <b>2002</b> , 23, 335-40	3.5	31
116	Modulation of Coiled-Coil Dimer Stability through Surface Residues while Preserving Pairing Specificity. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8229-8236	16.4	30
115	Postulates for validating TLR4 agonists. <i>European Journal of Immunology</i> , <b>2015</b> , 45, 356-70	6.1	30
114	Extracellular vesicle-mediated transfer of constitutively active MyD88 engages MyD88 and activates signaling. <i>Blood</i> , <b>2018</b> , 131, 1720-1729	2.2	30
113	Chimeric flagellin as the self-adjuncting antigen for the activation of immune response against <i>Helicobacter pylori</i> . <i>Vaccine</i> , <b>2012</b> , 30, 5856-63	4.1	30
112	Suppression of TLR signaling by targeting TIR domain-containing proteins. <i>Current Protein and Peptide Science</i> , <b>2012</b> , 13, 776-88	2.8	30
111	Surface with antimicrobial activity obtained through silane coating with covalently bound polymyxin B. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 2775-82	4.5	30
110	On the mechanism of human stefin B folding: I. Comparison to homologous stefin A. Influence of pH and trifluoroethanol on the fast and slow folding phases <b>1998</b> , 32, 296-303		30
109	A tunable orthogonal coiled-coil interaction toolbox for engineering mammalian cells. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 513-519	11.7	29
108	A Synthetic Mammalian Therapeutic Gene Circuit for Sensing and Suppressing Inflammation. <i>Molecular Therapy</i> , <b>2017</b> , 25, 102-119	11.7	28
107	MD-2 and Der p 2 - a tale of two cousins or distant relatives?. <i>Journal of Endotoxin Research</i> , <b>2005</b> , 11, 186-92		28
106	Selectivity of Human TLR9 for Double CpG Motifs and Implications for the Recognition of Genomic DNA. <i>Journal of Immunology</i> , <b>2017</b> , 198, 2093-2104	5.3	27
105	N-acylated peptides derived from human lactoferricin perturb organization of cardiolipin and phosphatidylethanolamine in cell membranes and induce defects in <i>Escherichia coli</i> cell division. <i>PLoS ONE</i> , <b>2014</b> , 9, e90228	3.7	27
104	New designed protein assemblies. <i>Current Opinion in Chemical Biology</i> , <b>2013</b> , 17, 940-5	9.7	26
103	Toll/interleukin-1 receptor domain dimers as the platform for activation and enhanced inhibition of Toll-like receptor signaling. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 30993-1002	5.4	25
102	The role of intermediary domain of MyD88 in cell activation and therapeutic inhibition of TLRs. <i>Journal of Immunology</i> , <b>2011</b> , 187, 2394-404	5.3	25

101	MD-2 determinants of nickel and cobalt-mediated activation of human TLR4. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120583	5.3	24
100	Trehalose- and glucose-derived glycoamphiphiles: small-molecule and nanoparticle Toll-like receptor 4 (TLR4) modulators. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 9105-23	8.3	23
99	Novel roles of lysines 122, 125, and 58 in functional differences between human and murine MD-2. <i>Journal of Immunology</i> , <b>2009</b> , 183, 5138-45	5.3	23
98	Functional activity of MD-2 polymorphic variant is significantly different in soluble and TLR4-bound forms: decreased endotoxin binding by G56R MD-2 and its rescue by TLR4 ectodomain. <i>Journal of Immunology</i> , <b>2008</b> , 180, 6107-15	5.3	23
97	Differences in the effects of TFE on the folding pathways of human stefins A and B <b>1999</b> , 36, 205-216		23
96	Calorimetric measurements of thermal denaturation of stefins A and B. Comparison to predicted thermodynamics of stefin-B unfolding. <i>FEBS Journal</i> , <b>1992</b> , 210, 217-21		22
95	Short single-stranded DNA degradation products augment the activation of Toll-like receptor 9. <i>Nature Communications</i> , <b>2017</b> , 8, 15363	17.4	21
94	Advances in design of protein folds and assemblies. <i>Current Opinion in Chemical Biology</i> , <b>2017</b> , 40, 65-71	9.7	20
93	Combination of antimicrobial and endotoxin-neutralizing activities of novel oleoylamines. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2005</b> , 49, 2307-13	5.9	20
92	Folding studies of the cysteine proteinase inhibitor--human stefin A. <i>BBA - Proteins and Proteomics</i> , <b>1991</b> , 1078, 313-20		20
91	Development of $\alpha$ 1cN(1<-4)Man-based lipid A mimetics as a novel class of potent Toll-like receptor 4 agonists. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 8056-71	8.3	19
90	On the mechanism of human stefin B folding: II. Folding from GuHCl unfolded, TFE denatured, acid denatured, and acid intermediate states. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1998</b> , 32, 304-13	4.2	18
89	Prevention of microvesiculation by adhesion of buds to the mother cell membrane--a possible anticoagulant effect of healthy donor plasma. <i>Autoimmunity Reviews</i> , <b>2008</b> , 7, 240-5	13.6	18
88	The ectodomain of TLR3 receptor is required for its plasma membrane translocation. <i>PLoS ONE</i> , <b>2014</b> , 9, e92391	3.7	17
87	Determination of the physiological 2:2 TLR5:flagellin activation stoichiometry revealed by the activity of a fusion receptor. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 435, 40-5	3.4	17
86	Tetracysteine-tagged prion protein allows discrimination between the native and converted forms. <i>FEBS Journal</i> , <b>2010</b> , 277, 2038-50	5.7	17
85	Structural characterisation of human stefin A in solution and implications for binding to cysteine proteinases. <i>FEBS Journal</i> , <b>1994</b> , 225, 1181-94		17
84	Improved expression and evaluation of polyethyleneimine precipitation in isolation of recombinant cysteine proteinase inhibitor stefin B. <i>Protein Expression and Purification</i> , <b>1994</b> , 5, 65-9	2	17

83	Distinctive Recognition of Flagellin by Human and Mouse Toll-Like Receptor 5. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158894	5.8	17
82	Novel carboxylate-based glycolipids: TLR4 antagonism, MD-2 binding and self-assembly properties. <i>Scientific Reports</i> , <b>2019</b> , 9, 919	4.9	16
81	Building an international consortium for tracking coronavirus health status. <i>Nature Medicine</i> , <b>2020</b> , 26, 1161-1165	50.5	16
80	Benchmarking of TALE- and CRISPR/dCas9-Based Transcriptional Regulators in Mammalian Cells for the Construction of Synthetic Genetic Circuits. <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 1050-1058	5.7	16
79	Tetraacylated lipid A and paclitaxel-selective activation of TLR4/MD-2 conferred through hydrophobic interactions. <i>Journal of Immunology</i> , <b>2014</b> , 192, 1887-95	5.3	15
78	Different functional role of domain boundaries of Toll-like receptor 4. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 381, 65-9	3.4	15
77	Locked and proteolysis-based transcription activator-like effector (TALE) regulation. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 1471-81	20.1	14
76	MARCKS as a negative regulator of lipopolysaccharide signaling. <i>Journal of Immunology</i> , <b>2012</b> , 188, 3893-902	5.9	14
75	Structural basis for the difference in thermodynamic properties between the two cysteine proteinase inhibitors human stefins A and B. <i>Protein Engineering, Design and Selection</i> , <b>1994</b> , 7, 977-84	1.9	14
74	Topology of Folded Molecular Chains: From Single Biomolecules to Engineered Origami. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 609-622	14.8	14
73	Comparison of backbone dynamics of monomeric and domain-swapped stefin A. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 54, 500-12	4.2	13
72	Disruption of disulfides within RBD of SARS-CoV-2 spike protein prevents fusion and represents a target for viral entry inhibition by registered drugs. <i>FASEB Journal</i> , <b>2021</b> , 35, e21651	0.9	13
71	Activation of cell membrane-localized Toll-like receptor 3 by siRNA. <i>Immunology Letters</i> , <b>2017</b> , 189, 55-63	4.1	12
70	Pathological mutations H187R and E196K facilitate subdomain separation and prion protein conversion by destabilization of the native structure. <i>FASEB Journal</i> , <b>2015</b> , 29, 882-93	0.9	12
69	Functional self-assembling polypeptide bionanomaterials. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 629-34	5.1	12
68	Elongation on the amino-terminal part of stefin B decreases inhibition of cathepsin H. <i>FEBS Journal</i> , <b>1994</b> , 224, 797-802		12
67	Introduction of glutamines into the B2-H2 loop promotes prion protein conversion. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 413, 521-6	3.4	11
66	CRISPRa-mediated gene upregulation in mammalian cells. <i>Cell and Bioscience</i> , <b>2019</b> , 9, 93	9.8	11

65	TOPOFOLD, the designed modular biomolecular folds: polypeptide-based molecular origami nanostructures following the footsteps of DNA. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2015</b> , 7, 218-37	9.2	10
64	Synthetic biology principles for the design of protein with novel structures and functions. <i>FEBS Letters</i> , <b>2020</b> , 594, 2199-2212	3.8	10
63	Glycolipid-based TLR4 Modulators and Fluorescent Probes: Rational Design, Synthesis, and Biological Properties. <i>Chemical Biology and Drug Design</i> , <b>2016</b> , 88, 217-29	2.9	10
62	Interactions of archaeal chromatin proteins Alba1 and Alba2 with nucleic acids. <i>PLoS ONE</i> , <b>2013</b> , 8, e58237	3.7	10
61	Disulfide mapping reveals the domain swapping as the crucial process of the structural conversion of prion protein. <i>Prion</i> , <b>2011</b> , 5, 56-9	2.3	10
60	Protein inhibitors form complexes with procathepsin L and augment cleavage of the propeptide. <i>Archives of Biochemistry and Biophysics</i> , <b>2003</b> , 417, 53-8	4.1	10
59	Compactness of the molten globule in comparison to unfolded states as observed by size-exclusion chromatography. <i>BBA - Proteins and Proteomics</i> , <b>1994</b> , 1209, 140-3		10
58	A 3D 1H, 15N, and 13C NOESY Correlating Experiment. <i>Journal of Magnetic Resonance Series B</i> , <b>1995</b> , 108, 294-298		10
57	Recombinant flagellins with deletions in domains D1, D2, and D3: Characterization as novel immunoadjuvants. <i>Vaccine</i> , <b>2019</b> , 37, 652-663	4.1	10
56	Phosphodiester backbone of the CpG motif within immunostimulatory oligodeoxynucleotides augments activation of Toll-like receptor 9. <i>Scientific Reports</i> , <b>2017</b> , 7, 14598	4.9	9
55	Effective Antimicrobial and Anti-Endotoxin Activity of Cationic Peptides Based on Lactoferricin: A Biophysical and Microbiological Study. <i>Anti-Infective Agents in Medicinal Chemistry</i> , <b>2010</b> , 9, 9-22		9
54	Monoclonal antibodies to human stefin B and determination of their epitopes. <i>BBA - Proteins and Proteomics</i> , <b>1993</b> , 1164, 75-80		9
53	Synthetic Biology for Multiscale Designed Biomimetic Assemblies: From Designed Self-Assembling Biopolymers to Bacterial Bioprinting. <i>Biochemistry</i> , <b>2019</b> , 58, 2095-2104	3.2	8
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