

Roman Jerala

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.

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	Regulation of protein secretion through chemical regulation of endoplasmic reticulum retention signal cleavage.. <i>Nature Communications</i> , 2022 , 13, 1323	17.4	2
189	Designed protease-based signaling networks.. <i>Current Opinion in Chemical Biology</i> , 2022 , 68, 102146	9.7	0
188	The Relevance of Physico-Chemical Properties and Protein Corona for Evaluation of Nanoparticles Immunotoxicity In Vitro Correlation Analysis on THP-1 Macrophages. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6197	6.3	0
187	A guide to the design of synthetic gene networks in mammalian cells. <i>FEBS Journal</i> , 2021 , 288, 5265-5288	9.7	4
186	Cleavage-Mediated Regulation of Myd88 Signaling by Inflammasome-Activated Caspase-1.. <i>Frontiers in Immunology</i> , 2021 , 12, 790258	8.4	0
185	Tailored Modulation of Cellular Pro-inflammatory Responses With Disaccharide Lipid A Mimetics. <i>Frontiers in Immunology</i> , 2021 , 12, 631797	8.4	3
184	A Nanoscaffolded Spike-RBD Vaccine Provides Protection against SARS-CoV-2 with Minimal Anti-Scaffold Response. <i>Vaccines</i> , 2021 , 9,	5.3	5
183	Coiled-coil heterodimers with increased stability for cellular regulation and sensing SARS-CoV-2 spike protein-mediated cell fusion. <i>Scientific Reports</i> , 2021 , 11, 9136	4.9	2
182	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> , 2021 , 35, e21651	0.9	13
181	Triangular Self-Assembling Coiled-Coil Protein Origami. <i>ACS Chemical Biology</i> , 2021 , 16, 310-315	4.9	2
180	Designed folding pathway of modular coiled-coil-based proteins. <i>Nature Communications</i> , 2021 , 12, 940	17.4	2
179	Self-assembly and regulation of protein cages from pre-organised coiled-coil modules. <i>Nature Communications</i> , 2021 , 12, 939	17.4	6
178	Novel Regeneration Approach for Creating Reusable FO-SPR Probes with NTA Surface Chemistry. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
177	Increased gene translation stringency in mammalian cells by nonsense suppression at multiple permissive sites with a single noncanonical amino acid. <i>FEBS Letters</i> , 2020 , 594, 2452-2461	3.8	
176	Molecular assemblies built with the artificial protein Pizza. <i>Journal of Structural Biology: X</i> , 2020 , 4, 100027	2.7	4
175	Building an international consortium for tracking coronavirus health status. <i>Nature Medicine</i> , 2020 , 26, 1161-1165	50.5	16
174	Design of novel protein building modules and modular architectures. <i>Current Opinion in Structural Biology</i> , 2020 , 63, 90-96	8.1	4

173	Engineering and Rewiring of a Calcium-Dependent Signaling Pathway. <i>ACS Synthetic Biology</i> , 2020 , 9, 2055-2065	5.7	7
172	Synthetic biology principles for the design of protein with novel structures and functions. <i>FEBS Letters</i> , 2020 , 594, 2199-2212	3.8	10
171	Metabolic enzyme clustering by coiled coils improves the biosynthesis of resveratrol and mevalonate. <i>AMB Express</i> , 2020 , 10, 97	4.1	4
170	Topology of Folded Molecular Chains: From Single Biomolecules to Engineered Origami. <i>Trends in Chemistry</i> , 2020 , 2, 609-622	14.8	14
169	A tunable orthogonal coiled-coil interaction toolbox for engineering mammalian cells. <i>Nature Chemical Biology</i> , 2020 , 16, 513-519	11.7	29
168	Synergy between 15-lipoxygenase and secreted PLA promotes inflammation by formation of TLR4 agonists from extracellular vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25679-25689	11.5	7
167	Novel carboxylate-based glycolipids: TLR4 antagonism, MD-2 binding and self-assembly properties. <i>Scientific Reports</i> , 2019 , 9, 919	4.9	16
166	Synthetic Biology for Multiscale Designed Biomimetic Assemblies: From Designed Self-Assembling Biopolymers to Bacterial Bioprinting. <i>Biochemistry</i> , 2019 , 58, 2095-2104	3.2	8
165	Design of split superantigen fusion proteins for cancer immunotherapy. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6294-6305	5.4	6
164	CRISPRa-mediated gene upregulation in mammalian cells. <i>Cell and Bioscience</i> , 2019 , 9, 93	9.8	11
163	Recombinant flagellins with deletions in domains D1, D2, and D3: Characterization as novel immunoadjuvants. <i>Vaccine</i> , 2019 , 37, 652-663	4.1	10
162	On three genetic repressilator topologies. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 126, 3-30	1.6	3
161	Polarized displacement by transcription activator-like effectors for regulatory circuits. <i>Nature Chemical Biology</i> , 2019 , 15, 80-87	11.7	3
160	Design of fast proteolysis-based signaling and logic circuits in mammalian cells. <i>Nature Chemical Biology</i> , 2019 , 15, 115-122	11.7	67
159	Structure-Activity Relationship in Monosaccharide-Based Toll-Like Receptor 4 (TLR4) Antagonists. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 2895-2909	8.3	32
158	Coiled coil protein origami: from modular design principles towards biotechnological applications. <i>Chemical Society Reviews</i> , 2018 , 47, 3530-3542	58.5	48
157	Extracellular vesicle-mediated transfer of constitutively active MyD88 engages MyD88 and activates signaling. <i>Blood</i> , 2018 , 131, 1720-1729	2.2	30
156	The role of N-terminal segment and membrane association in MyD88-mediated signaling. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 495, 878-883	3.4	0

155	Metabolic Channeling Using DNA as a Scaffold 2018 , 237-259		
154	Designed Transcriptional Regulation in Mammalian Cells Based on TALE- and CRISPR/dCas9. <i>Methods in Molecular Biology</i> , 2018 , 1772, 191-203	1.4	3
153	Extension and refinement of the recognition motif for Toll-like receptor 5 activation by flagellin. <i>Journal of Leukocyte Biology</i> , 2018 , 104, 767-776	6.5	7
152	NLRP3 lacking the leucine-rich repeat domain can be fully activated via the canonical inflammasome pathway. <i>Nature Communications</i> , 2018 , 9, 5182	17.4	58
151	SwitCCh: Metal-Site Design for Controlling the Assembly of a Coiled-Coil Homodimer. <i>ChemBioChem</i> , 2018 , 19, 2453-2457	3.8	8
150	Transcription activator-like effector-mediated regulation of gene expression based on the inducible packaging and delivery via designed extracellular vesicles. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 484, 15-20	3.4	3
149	A Synthetic Mammalian Therapeutic Gene Circuit for Sensing and Suppressing Inflammation. <i>Molecular Therapy</i> , 2017 , 25, 102-119	11.7	28
148	Selectivity of Human TLR9 for Double CpG Motifs and Implications for the Recognition of Genomic DNA. <i>Journal of Immunology</i> , 2017 , 198, 2093-2104	5.3	27
147	Activation of cell membrane-localized Toll-like receptor 3 by siRNA. <i>Immunology Letters</i> , 2017 , 189, 55-63	1.1	12
146	Short single-stranded DNA degradation products augment the activation of Toll-like receptor 9. <i>Nature Communications</i> , 2017 , 8, 15363	17.4	21
145	Modulation of Coiled-Coil Dimer Stability through Surface Residues while Preserving Pairing Specificity. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8229-8236	16.4	30
144	Design of coiled-coil protein-origami cages that self-assemble in vitro and in vivo. <i>Nature Biotechnology</i> , 2017 , 35, 1094-1101	44.5	89
143	The role of the C-terminal D0 domain of flagellin in activation of Toll like receptor 5. <i>PLoS Pathogens</i> , 2017 , 13, e1006574	7.6	34
142	Advances in design of protein folds and assemblies. <i>Current Opinion in Chemical Biology</i> , 2017 , 40, 65-71	9.7	20
141	Phosphodiester backbone of the CpG motif within immunostimulatory oligodeoxynucleotides augments activation of Toll-like receptor 9. <i>Scientific Reports</i> , 2017 , 7, 14598	4.9	9
140	Benchmarking of TALE- and CRISPR/dCas9-Based Transcriptional Regulators in Mammalian Cells for the Construction of Synthetic Genetic Circuits. <i>ACS Synthetic Biology</i> , 2016 , 5, 1050-1058	5.7	16
139	Glycolipid-based TLR4 Modulators and Fluorescent Probes: Rational Design, Synthesis, and Biological Properties. <i>Chemical Biology and Drug Design</i> , 2016 , 88, 217-29	2.9	10
138	Coiled-coil forming peptides for the induction of silver nanoparticles. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 472, 566-71	3.4	7

137	Molecular Basis of the Functional Differences between Soluble Human Versus Murine MD-2: Role of Val135 in Transfer of Lipopolysaccharide from CD14 to MD-2. <i>Journal of Immunology</i> , 2016 , 196, 2309-18	5.3	8
136	Locked and proteolysis-based transcription activator-like effector (TALE) regulation. <i>Nucleic Acids Research</i> , 2016 , 44, 1471-81	20.1	14
135	Distinctive Recognition of Flagellin by Human and Mouse Toll-Like Receptor 5. <i>PLoS ONE</i> , 2016 , 11, e0158894	3.7	17
134	Towards designing new nano-scale protein architectures. <i>Essays in Biochemistry</i> , 2016 , 60, 315-324	7.6	4
133	Design principles for rapid folding of knotted DNA nanostructures. <i>Nature Communications</i> , 2016 , 7, 10803	17.4	34
132	Designed Protein Origami. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 940, 7-27	3.6	2
131	Toll-like receptor 4 senses oxidative stress mediated by the oxidation of phospholipids in extracellular vesicles. <i>Science Signaling</i> , 2015 , 8, ra60	8.8	62
130	Activation of Human Toll-like Receptor 4 (TLR4) by Myeloid Differentiation Factor 2 (MD-2) by Hypoacylated Lipopolysaccharide from a Clinical Isolate of Burkholderia cenocepacia. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21305-19	5.4	36
129	Species-Specific Minimal Sequence Motif for Oligodeoxyribonucleotides Activating Mouse TLR9. <i>Journal of Immunology</i> , 2015 , 195, 4396-405	5.3	36
128	Postulates for validating TLR4 agonists. <i>European Journal of Immunology</i> , 2015 , 45, 356-70	6.1	30
127	Chemistry of lipid A: at the heart of innate immunity. <i>Chemistry - A European Journal</i> , 2015 , 21, 500-19	4.8	147
126	The molecular mechanism of species-specific recognition of lipopolysaccharides by the MD-2/TLR4 receptor complex. <i>Molecular Immunology</i> , 2015 , 63, 134-42	4.3	32
125	TOPOFOLD, the designed modular biomolecular folds: polypeptide-based molecular origami nanostructures following the footsteps of DNA. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015 , 7, 218-37	9.2	10
124	Pathological mutations H187R and E196K facilitate subdomain separation and prion protein conversion by destabilization of the native structure. <i>FASEB Journal</i> , 2015 , 29, 882-93	0.9	12
123	Minimal sequence requirements for oligodeoxyribonucleotides activating human TLR9. <i>Journal of Immunology</i> , 2015 , 194, 3901-8	5.3	31
122	Function-based mutation-resistant synthetic signaling device activated by HIV-1 proteolysis. <i>ACS Synthetic Biology</i> , 2015 , 4, 667-72	5.7	3
121	MD-2 determinants of nickel and cobalt-mediated activation of human TLR4. <i>PLoS ONE</i> , 2015 , 10, e0120583	3.7	24
120	Tetraacylated lipid A and paclitaxel-selective activation of TLR4/MD-2 conferred through hydrophobic interactions. <i>Journal of Immunology</i> , 2014 , 192, 1887-95	5.3	15

119	Designable DNA-binding domains enable construction of logic circuits in mammalian cells. <i>Nature Chemical Biology</i> , 2014 , 10, 203-8	11.7	75
118	Modulation of CD14 and TLR4/MD-2 activities by a synthetic lipid A mimetic. <i>ChemBioChem</i> , 2014 , 15, 250-8	3.8	39
117	Trehalose- and glucose-derived glycoamphiphiles: small-molecule and nanoparticle Toll-like receptor 4 (TLR4) modulators. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9105-23	8.3	23
116	A bistable genetic switch based on designable DNA-binding domains. <i>Nature Communications</i> , 2014 , 5, 5007	17.4	53
115	Development of α -D-GlcN(1 \rightarrow 4)-Man-based lipid A mimetics as a novel class of potent Toll-like receptor 4 agonists. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 8056-71	8.3	19
114	Self-assembled bionanostructures: proteins following the lead of DNA nanostructures. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 4	9.4	40
113	Activation of lymphoma-associated MyD88 mutations via allostery-induced TIR-domain oligomerization. <i>Blood</i> , 2014 , 124, 3896-904	2.2	53
112	N-acylated peptides derived from human lactoferricin perturb organization of cardiolipin and phosphatidylethanolamine in cell membranes and induce defects in Escherichia coli cell division. <i>PLoS ONE</i> , 2014 , 9, e90228	3.7	27
111	The ectodomain of TLR3 receptor is required for its plasma membrane translocation. <i>PLoS ONE</i> , 2014 , 9, e92391	3.7	17
110	Species-specific activation of TLR4 by hypoacylated endotoxins governed by residues 82 and 122 of MD-2. <i>PLoS ONE</i> , 2014 , 9, e107520	3.7	6
109	Vanadate from air pollutant inhibits hrs-dependent endosome fusion and augments responsiveness to toll-like receptors. <i>PLoS ONE</i> , 2014 , 9, e99287	3.7	4
108	Conformationally constrained lipid A mimetics for exploration of structural basis of TLR4/MD-2 activation by lipopolysaccharide. <i>ACS Chemical Biology</i> , 2013 , 8, 2423-32	4.9	36
107	New designed protein assemblies. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 940-5	9.7	26
106	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> , 2013 , 288, 442-54	5.4	53
105	Design of a single-chain polypeptide tetrahedron assembled from coiled-coil segments. <i>Nature Chemical Biology</i> , 2013 , 9, 362-6	11.7	224
104	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> , 2013 , 435, 40-5	3.4	17
103	Delivery system for the enhanced efficiency of immunostimulatory nucleic acids. <i>Innate Immunity</i> , 2013 , 19, 53-65	2.7	5
102	Interactions of archaeal chromatin proteins Alba1 and Alba2 with nucleic acids. <i>PLoS ONE</i> , 2013 , 8, e58237	3.7	10

101	Noninvasive high-throughput single-cell analysis of HIV protease activity using ratiometric flow cytometry. <i>Sensors</i> , 2013 , 13, 16330-46	3.8	6
100	In silico discovery and biophysical evaluation of novel 5-(2-hydroxybenzylidene) rhodanine inhibitors of DNA gyrase B. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 2572-80	3.4	36
99	Chimeric flagellin as the self-adjuvanting antigen for the activation of immune response against <i>Helicobacter pylori</i> . <i>Vaccine</i> , 2012 , 30, 5856-63	4.1	30
98	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> , 2012 , 287, 30993-1002	5.4	25
97	NLRP3 inflammasome activation in macrophage cell lines by prion protein fibrils as the source of IL-1 β and neuronal toxicity. <i>Cellular and Molecular Life Sciences</i> , 2012 , 69, 4215-28	10.3	66
96	MARCKS as a negative regulator of lipopolysaccharide signaling. <i>Journal of Immunology</i> , 2012 , 188, 3893-902	5.9	14
95	The lipopolysaccharide core of <i>Brucella abortus</i> acts as a shield against innate immunity recognition. <i>PLoS Pathogens</i> , 2012 , 8, e1002675	7.6	81
94	Functional self-assembling polypeptide bionanomaterials. <i>Biochemical Society Transactions</i> , 2012 , 40, 629-34	5.1	12
93	DNA-guided assembly of biosynthetic pathways promotes improved catalytic efficiency. <i>Nucleic Acids Research</i> , 2012 , 40, 1879-89	20.1	207
92	Suppression of TLR signaling by targeting TIR domain-containing proteins. <i>Current Protein and Peptide Science</i> , 2012 , 13, 776-88	2.8	30
91	Structural features governing the activity of lactoferricin-derived peptides that act in synergy with antibiotics against <i>Pseudomonas aeruginosa</i> in vitro and in vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 218-28	5.9	40
90	Introduction of glutamines into the B2-H2 loop promotes prion protein conversion. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 413, 521-6	3.4	11
89	De novo design of orthogonal peptide pairs forming parallel coiled-coil heterodimers. <i>Journal of Peptide Science</i> , 2011 , 17, 100-6	2.1	71
88	Mechanism of endosomal TLR inhibition by antimalarial drugs and imidazoquinolines. <i>Journal of Immunology</i> , 2011 , 186, 4794-804	5.3	405
87	The role of intermediary domain of MyD88 in cell activation and therapeutic inhibition of TLRs. <i>Journal of Immunology</i> , 2011 , 187, 2394-404	5.3	25
86	Response to Apostol and Surewicz: Structural Underpinnings of Prion Protein Conversion. <i>Journal of Biological Chemistry</i> , 2011 , 286, le8	5.4	78
85	The ectodomain of the Toll-like receptor 4 prevents constitutive receptor activation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 23334-44	5.4	32
84	Globular domain of the prion protein needs to be unlocked by domain swapping to support prion protein conversion. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12149-56	5.4	78

83	Toll-like receptor 4 activation in cancer progression and therapy. <i>Clinical and Developmental Immunology</i> , 2011 , 2011, 609579		101
82	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> , 2011 , 286, 21266-76	5.4	46
81	Effect of hydrophobic mutations in the H2-H3 subdomain of prion protein on stability and conversion in vitro and in vivo. <i>PLoS ONE</i> , 2011 , 6, e24238	3.7	7
80	Disulfide mapping reveals the domain swapping as the crucial process of the structural conversion of prion protein. <i>Prion</i> , 2011 , 5, 56-9	2.3	10
79	Interaction of the HIV-1 gp120 viral protein V3 loop with bacterial lipopolysaccharide: a pattern recognition inhibition. <i>Journal of Biological Chemistry</i> , 2011 , 286, 26228-37	5.4	7
78	On the Origin and Features of an Evolved Boolean Model for Subcellular Signal Transduction Systems. <i>Lecture Notes in Computer Science</i> , 2011 , 383-392	0.9	2
77	Tetracysteine-tagged prion protein allows discrimination between the native and converted forms. <i>FEBS Journal</i> , 2010 , 277, 2038-50	5.7	17
76	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> , 2010 , 9, 9-22		9
75	Recognition of nucleic acids by Toll-like receptors and development of immunomodulatory drugs. <i>Current Medicinal Chemistry</i> , 2010 , 17, 1899-914	4.3	7
74	Production of recombinant antimicrobial peptides in bacteria. <i>Methods in Molecular Biology</i> , 2010 , 618, 61-76	1.4	32
73	Surface with antimicrobial activity obtained through silane coating with covalently bound polymyxin B. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2775-82	4.5	30
72	Novel roles of lysines 122, 125, and 58 in functional differences between human and murine MD-2. <i>Journal of Immunology</i> , 2009 , 183, 5138-45	5.3	23
71	Free thiol group of MD-2 as the target for inhibition of the lipopolysaccharide-induced cell activation. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19493-500	5.4	36
70	The differential interaction of Brucella and ochrobactrum with innate immunity reveals traits related to the evolution of stealthy pathogens. <i>PLoS ONE</i> , 2009 , 4, e5893	3.7	41
69	Expression of soluble versatile peroxidase of Bjerkandera adusta in Escherichia coli. <i>Bioresource Technology</i> , 2009 , 100, 851-8	11	31
68	Essential roles of hydrophobic residues in both MD-2 and toll-like receptor 4 in activation by endotoxin. <i>Journal of Biological Chemistry</i> , 2009 , 284, 15052-60	5.4	85
67	Expression, purification and structural studies of a short antimicrobial peptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 314-23	3.8	43
66	Different functional role of domain boundaries of Toll-like receptor 4. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 65-9	3.4	15

65	A second binding site for double-stranded RNA in TLR3 and consequences for interferon activation. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 761-3	17.6	67
64	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> , 2008 , 104, 1553-64	6	101
63	Taxanes inhibit human TLR4 signaling by binding to MD-2. <i>FEBS Letters</i> , 2008 , 582, 3929-34	3.8	52
62	Prevention of microvesiculation by adhesion of buds to the mother cell membrane--a possible anticoagulant effect of healthy donor plasma. <i>Autoimmunity Reviews</i> , 2008 , 7, 240-5	13.6	18
61	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> , 2008 , 8, 196	4.5	37
60	Alexidine and chlorhexidine bind to lipopolysaccharide and lipoteichoic acid and prevent cell activation by antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2008 , 62, 730-7	5.1	70
59	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> , 2008 , 180, 6107-15	5.3	23
58	The POM monoclonals: a comprehensive set of antibodies to non-overlapping prion protein epitopes. <i>PLoS ONE</i> , 2008 , 3, e3872	3.7	128
57	Green tea catechins inhibit bacterial DNA gyrase by interaction with its ATP binding site. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 264-71	8.3	145
56	Engineered human cells: say no to sepsis. <i>IET Synthetic Biology</i> , 2007 , 1, 13-16		3
55	MD-2 as the target of curcumin in the inhibition of response to LPS. <i>Journal of Leukocyte Biology</i> , 2007 , 82, 968-74	6.5	106
54	Structural biology of the LPS recognition. <i>International Journal of Medical Microbiology</i> , 2007 , 297, 353-63.	3.7	208
53	The acyl group as the central element of the structural organization of antimicrobial lipopeptide. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1022-3	16.4	39
52	Synthetic lipopeptides: a novel class of anti-infectives. <i>Expert Opinion on Investigational Drugs</i> , 2007 , 16, 1159-69	5.9	71
51	Structural similarity between the hydrophobic fluorescent probe and lipid A as a ligand of MD-2. <i>FASEB Journal</i> , 2006 , 20, 1836-42	0.9	42
50	Influence of N-acylation of a peptide derived from human lactoferricin on membrane selectivity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1426-35	3.8	40
49	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> , 2005 , 71, 3420-6	4.8	142
48	In silico fragment-based discovery of indolin-2-one analogues as potent DNA gyrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5207-10	2.9	69

47	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> , 2005 , 99, 432-42	4.2	89
46	MD-2 and Der p 2 - a tale of two cousins or distant relatives?. <i>Journal of Endotoxin Research</i> , 2005 , 11, 186-92		28
45	Combination of antimicrobial and endotoxin-neutralizing activities of novel oleoylamines. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 2307-13	5.9	20
44	Structural origin of endotoxin neutralization and antimicrobial activity of a lactoferrin-based peptide. <i>Journal of Biological Chemistry</i> , 2005 , 280, 16955-61	5.4	66
43	Enhancement of endotoxin neutralization by coupling of a C12-alkyl chain to a lactoferricin-derived peptide. <i>Biochemical Journal</i> , 2005 , 385, 135-43	3.8	92
42	Preparation of chimeric genes without subcloning. <i>BioTechniques</i> , 2004 , 37, 726, 728, 730	2.5	1
41	Endotoxin neutralizing peptides. <i>Current Topics in Medicinal Chemistry</i> , 2004 , 4, 1173-84	3	86
40	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> , 2004 , 279, 28475-82	5.4	100
39	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> , 2004 , 279, 3694-8	5.4	65
38	Biophysical characterization of the interaction of <i>Limulus polyphemus</i> endotoxin neutralizing protein with lipopolysaccharide. <i>FEBS Journal</i> , 2004 , 271, 2037-46		39
37	Comparison of backbone dynamics of monomeric and domain-swapped stefin A. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 54, 500-12	4.2	13
36	Protein inhibitors form complexes with procathepsin L and augment cleavage of the propeptide. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 417, 53-8	4.1	10
35	Characterization of quercetin binding site on DNA gyrase. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 306, 530-6	3.4	232
34	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> , 2003 , 51, 1159-65 ^{5.1}		91
33	Semiautomatic sequence-specific assignment of proteins based on the tertiary structure--the program st2nmr. <i>Journal of Computational Chemistry</i> , 2002 , 23, 335-40	3.5	31
32	Identification of LPS-binding peptide fragment of MD-2, a toll-receptor accessory protein. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 292, 880-5	3.4	66
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2	Design and applications of synthetic information processing circuits in mammalian cells ¹⁻³⁴		2
1	Immune response to vaccine candidates based on different types of nanoscaffolded RBD domain of the SARS-CoV-2 spike protein		5