

Alexey A Belogurov Jr

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.

82

papers

1,168

citations

18

h-index

32

g-index

88

ext. papers

1,396

ext. citations

4.1

avg, IF

3.75

L-index

#	Paper	IF	Citations
82	Autoantibodies to myelin basic protein catalyze site-specific degradation of their antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 281-6	11.5	144
81	Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2550-2555	11.5	124
80	Recognition and degradation of myelin basic protein peptides by serum autoantibodies: novel biomarker for multiple sclerosis. <i>Journal of Immunology</i> , 2008 , 180, 1258-67	5.3	91
79	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1243-8	11.5	69
78	Combinatorial antibody library from multiple sclerosis patients reveals antibodies that cross-react with myelin basic protein and EBV antigen. <i>FASEB Journal</i> , 2011 , 25, 4211-21	0.9	54
77	Reactibodies generated by kinetic selection couple chemical reactivity with favorable protein dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15954-9	11.5	39
76	Catalytic activity of autoantibodies toward myelin basic protein correlates with the scores on the multiple sclerosis expanded disability status scale. <i>Immunology Letters</i> , 2006 , 103, 45-50	4.1	39
75	Liposome-encapsulated peptides protect against experimental allergic encephalitis. <i>FASEB Journal</i> , 2013 , 27, 222-31	0.9	38
74	Design of targeted B cell killing agents. <i>PLoS ONE</i> , 2011 , 6, e20991	3.7	34
73	Ubiquitin-independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. <i>FASEB Journal</i> , 2015 , 29, 1901-13	0.9	32
72	Catalytic antibodies: balancing between Dr. Jekyll and Mr. Hyde. <i>BioEssays</i> , 2009 , 31, 1161-71	4.1	32
71	The Pathogenesis of the Demyelinating Form of Guillain-Barre Syndrome (GBS): Proteo-peptidomic and Immunological Profiling of Physiological Fluids. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 2366-78	7.6	24
70	A novel expression cassette delivers efficient production of exclusively tetrameric human butyrylcholinesterase with improved pharmacokinetics for protection against organophosphate poisoning. <i>Biochimie</i> , 2015 , 118, 51-9	4.6	23
69	Multiple sclerosis autoantigen myelin basic protein escapes control by ubiquitination during proteasomal degradation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17758-66	5.4	23
68	CD206-Targeted Liposomal Myelin Basic Protein Peptides in Patients with Multiple Sclerosis Resistant to First-Line Disease-Modifying Therapies: A First-in-Human, Proof-of-Concept Dose-Escalation Study. <i>Neurotherapeutics</i> , 2016 , 13, 895-904	6.4	22
67	Noggin4 is a long-range inhibitor of Wnt8 signalling that regulates head development in <i>Xenopus laevis</i> . <i>Scientific Reports</i> , 2016 , 6, 23049	4.9	21
66	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013 , 203, 196-201	5	20

65	Administration of Myelin Basic Protein Peptides Encapsulated in Mannosylated Liposomes Normalizes Level of Serum TNF- α and IL-2 and Chemoattractants CCL2 and CCL4 in Multiple Sclerosis Patients. <i>Mediators of Inflammation</i> , 2016 , 2016, 2847232	4.3	18
64	Heavy-light chain interrelations of MS-associated immunoglobulins probed by deep sequencing and rational variation. <i>Molecular Immunology</i> , 2014 , 62, 305-14	4.3	16
63	Immunoproteasome enhances intracellular proteolysis of myelin basic protein. <i>Doklady Biochemistry and Biophysics</i> , 2013 , 453, 300-3	0.8	16
62	The Transcriptome of Type I Murine Astrocytes under Interferon-Gamma Exposure and Remyelination Stimulus. <i>Molecules</i> , 2017 , 22,	4.8	16
61	Proteasome: a Nanomachinery of Creative Destruction. <i>Biochemistry (Moscow)</i> , 2019 , 84, S159-S192	2.9	15
60	Role of Light-chain constant-domain switch in the structure and functionality of A17 reactibody. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 708-19		15
59	Death Receptors: New Opportunities in Cancer Therapy. <i>Acta Naturae</i> , 2017 , 9, 55-63	2.1	13
58	Autocrine-based selection of ligands for personalized CAR-T therapy of lymphoma. <i>Science Advances</i> , 2018 , 4, eaau4580	14.3	13
57	Charge-mediated proteasome targeting. <i>FASEB Journal</i> , 2019 , 33, 6852-6866	0.9	12
56	Exposure to the Epstein-Barr Viral Antigen Latent Membrane Protein 1 Induces Myelin-Reactive Antibodies. <i>Frontiers in Immunology</i> , 2017 , 8, 777	8.4	11
55	Chemical Polysialylation and In Vivo Tetramerization Improve Pharmacokinetic Characteristics of Recombinant Human Butyrylcholinesterase-Based Bioscavengers. <i>Acta Naturae</i> , 2015 , 7, 136-141	2.1	11
54	Robotic QM/MM-driven maturation of antibody combining sites. <i>Science Advances</i> , 2016 , 2, e1501695	14.3	10
53	Chemical Polysialylation of Recombinant Human Proteins. <i>Methods in Molecular Biology</i> , 2015 , 1321, 389-404	1.4	9
52	Mediators and Biomarkers of Inflammation in Meningitis: Cytokine and Peptidome Profiling of Cerebrospinal Fluid. <i>Biochemistry (Moscow)</i> , 2016 , 81, 1293-1302	2.9	9
51	Glatiramer acetate and nanny proteins restrict access of the multiple sclerosis autoantigen myelin basic protein to the 26S proteasome. <i>BioMed Research International</i> , 2014 , 2014, 926394	3	8
50	Creation of catalytic antibodies metabolizing organophosphate compounds. <i>Biochemistry (Moscow)</i> , 2012 , 77, 1139-46	2.9	8
49	A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. <i>Science Advances</i> , 2020 , 6, eaaz9861	14.3	7
48	Protective Allele for Multiple Sclerosis HLA-DRB1*01:01 Provides Kinetic Discrimination of Myelin and Exogenous Antigenic Peptides. <i>Frontiers in Immunology</i> , 2019 , 10, 3088	8.4	7

47	Expression of catalytic antibodies in eukaryotic systems. <i>Molecular Biology</i> , 2011 , 45, 74-81	1.2	7
46	Substrate specificity of catalytic autoantibodies in neurodegenerative processes. <i>Doklady Biochemistry and Biophysics</i> , 2007 , 413, 61-4	0.8	7
45	Salicylic acid influences the protease activity and posttranslation modifications of the secreted peptides in the moss <i>Physcomitrella patens</i> . <i>Journal of Peptide Science</i> , 2019 , 25, e3138	2.1	7
44	QM/MM Description of Newly Selected Catalytic Bioscavengers Against Organophosphorus Compounds Revealed Reactivation Stimulus Mediated by Histidine Residue in the Acyl-Binding Loop. <i>Frontiers in Pharmacology</i> , 2018 , 9, 834	5.6	6
43	Divergent Immunomodulation Capacity of Individual Myelin Peptides-Components of Liposomal Therapeutic against Multiple Sclerosis. <i>Frontiers in Immunology</i> , 2017 , 8, 1335	8.4	6
42	Antibody-antigen pair probed by combinatorial approach and rational design: bringing together structural insights, directed evolution, and novel functionality. <i>FEBS Letters</i> , 2012 , 586, 2966-73	3.8	6
41	Suppression of ongoing experimental allergic encephalomyelitis in DA rats by novel peptide drug, structural part of human myelin basic protein 46-62. <i>Autoimmunity</i> , 2009 , 42, 362-4	3	6
40	At the Cutting Edge against Cancer: A Perspective on Immunoproteasome and Immune Checkpoints Modulation as a Potential Therapeutic Intervention. <i>Cancers</i> , 2021 , 13,	6.6	5
39	Deimination of the myelin basic protein decelerates its proteasome-mediated metabolism. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 469, 277-80	0.8	4
38	Peptides Against Autoimmune Neurodegeneration. <i>Current Medicinal Chemistry</i> , 2017 , 24, 1761-1771	4.3	4
37	Extracellular HspBP1 inhibits formation of a cytotoxic Tag7-Hsp70 complex in vitro and in human serum. <i>Biochimie</i> , 2012 , 94, 203-6	4.6	4
36	Catalytic Antibodies 2012 , 1735-1776		4
35	Site-specific degradation of myelin basic protein by the proteasome. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 425, 68-72	0.8	4
34	Probing Surface Membrane Receptors Using Engineered Bacteriophage Bioconjugates. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1500-1506	6.3	3
33	Autoantibodies from SLE patients induce programmed cell death in murine fibroblast cells through interaction with TNFR1 receptor. <i>Scientific Reports</i> , 2020 , 10, 11144	4.9	3
32	Modified siRNA effectively silence inducible immunoproteasome subunits in NSO cells. <i>Biochimie</i> , 2016 , 125, 75-82	4.6	3
31	Comprehensive Atlas of the Myelin Basic Protein Interaction Landscape. <i>Biomolecules</i> , 2021 , 11,	5.9	3
30	Stochastics of Degradation: The Autophagic-Lysosomal System of the Cell. <i>Acta Naturae</i> , 2020 , 12, 18-32.1		3

29	Multiscale computation delivers organophosphorus reactivity and stereoselectivity to immunoglobulin scavengers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22841-22848	11.5	3
28	Drift of the Subgingival Periodontal Microbiome during Chronic Periodontitis in Type 2 Diabetes Mellitus Patients. <i>Pathogens</i> , 2021 , 10,	4.5	3
27	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. <i>Biotechnology Letters</i> , 2016 , 38, 1173-80	3	3
26	Specific Depletion of Myelin-Reactive B Cells via BCR-Targeting. <i>Acta Naturae</i> , 2015 , 7, 74-79	2.1	2
25	Exhaustive Search of the Receptor Ligands by the CyCLOPS (Cytometry Cell-Labeling Operable Phage Screening) Technique. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
24	Expression of DNA-Encoded Antidote to Organophosphorus Toxins in the Methylophilic Yeast <i>Pichia Pastoris</i> . <i>Applied Biochemistry and Microbiology</i> , 2016 , 52, 162-169	1.1	2
23	In-depth characterization of ubiquitin turnover in mammalian cells by fluorescence tracking. <i>Cell Chemical Biology</i> , 2021 , 28, 1192-1205.e9	8.2	2
22	High-Throughput Platform for B-Cell Screening Based on Fluorescent Phage-Display Technology. <i>Bulletin of Experimental Biology and Medicine</i> , 2019 , 167, 446-451	0.8	1
21	Loading Rate of Exogenous and Autoantigenic Determinants on Major Histocompatibility Complex Class II Mediates Resistance to Multiple Sclerosis. <i>Doklady Biochemistry and Biophysics</i> , 2019 , 485, 115-118	0.8	1
20	mRNA expression profile of mouse oligodendrocytes in inflammatory conditions. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 469, 264-8	0.8	1
19	Heterodimer HLA-DM Fused with Constant Fragment of the Heavy Chain of the Human Immunoglobulin Accelerates Influenza Hemagglutinin HA306-318 Loading to HLA-DR1. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 161, 92-5	0.8	1
18	Peptidyl Aldehyde Specifically Interacts with Immunosubunit β i Proteasome: In Vitro and In Vivo Effects. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 161, 69-71	0.8	1
17	Evolution of catalytic centers of antibodies by virtual screening of broad repertoire of mutants using supercomputer. <i>Doklady Biochemistry and Biophysics</i> , 2017 , 475, 245-249	0.8	1
16	Combinatorial Screening of Peptides, Specific Ligands of Death Receptor DR5. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 381-384	0.8	1
15	Deconvolution of the MBP-Bri2 Interaction by a Yeast Two Hybrid System and Synergy of the AlphaFold2 and High Ambiguity Driven Protein-Protein Docking. <i>Crystals</i> , 2022 , 12, 197	2.3	1
14	Protein PGLYRP1/Tag7 Peptides Decrease the Proinflammatory Response in Human Blood Cells and Mouse Model of Diffuse Alveolar Damage of Lung through Blockage of the TREM-1 and TNFR1 Receptors. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
13	Liquid drop of DNA libraries reveals total genome information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27300-27306	11.5	1
12	Polyamines Counteract Carbonate-Driven Proteasome Stalling in Alkaline Conditions. <i>Biomolecules</i> , 2020 , 10,	5.9	1

11	Myelin-Reactive Monoclonal Antibodies from Multiple Sclerosis Patients Cross-React with Nucleoproteins in HEp-2 Lysate. <i>BioNanoScience</i> , 2016 , 6, 322-324	3.4	1
10	Diagnostics of autoimmune neurodegeneration using fluorescent probing. <i>Scientific Reports</i> , 2018 , 8, 12679	4.9	0
9	Differential Diagnostics of Active Progressing Multiple Sclerosis Using a Fluorescent Biomarker with Resonance Energy Transfer. <i>Bulletin of Experimental Biology and Medicine</i> , 2019 , 167, 329-334	0.8	0
8	Cytokine profile as a marker of cell damage and immune dysfunction after spinal cord injury. <i>Acta Naturae</i> , 2020 , 12, 92-101	2.1	0
7	A New Precision Minimally Invasive Method of Glial Scar Simulation in the Rat Spinal Cord Using Cryoapplication. <i>Frontiers in Surgery</i> , 2021 , 8, 607551	2.3	0
6	Control of Genome through Variative Nature of Histone-Modifying Ubiquitin Ligases. <i>Biochemistry (Moscow)</i> , 2021 , 86, S71-S95	2.9	0
5	Peculiarities of the Presentation of the Encephalitogenic MBP Peptide by HLA-DR Complexes Providing Protection and Predisposition to Multiple Sclerosis. <i>Acta Naturae</i> , 2021 , 13, 127-133	2.1	0
4	Design of Chemical Conjugate for Targeted Therapy of Multiple Sclerosis Based of Constant Fragment of Human Antibody Heavy Chain and Peptoid Analog of Autoantigen MOG. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 162, 777-780	0.8	
3	Analysis of Immunogenicity of Intracellular CTAR Fragments of Epstein-Barr Virus Latent Phase Protein LMP1. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 766-771	0.8	
2	Clinical and experimental studies of multiple sclerosis in Russia: experience of the leading national research centers. <i>Degenerative Neurological and Neuromuscular Disease</i> , 2015 , 5, 83-90	5.4	
1	Topological Features of Histone H2A Monoubiquitination. <i>Doklady Biochemistry and Biophysics</i> , 2020 , 493, 193-197	0.8	