

Ivan V Smirnov

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.

66

papers

908

citations

17

h-index

28

g-index

73

ext. papers

1,145

ext. citations

3.9

avg, IF

3.62

L-index

#	Paper	IF	Citations
66	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
65	Genetically encodable bioluminescent system from fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12728-12732	11.5	77
64	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
63	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
62	Ultrahigh-throughput functional profiling of microbiota communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9551-9556	11.5	43
61	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
60	Liposome-encapsulated peptides protect against experimental allergic encephalitis. <i>FASEB Journal</i> , 2013 , 27, 222-31	0.9	38
59	Strategies for induction of catalytic antibodies toward HIV-1 glycoprotein gp120 in autoimmune prone mice. <i>Molecular Immunology</i> , 2009 , 47, 87-95	4.3	36
58	Design of targeted B cell killing agents. <i>PLoS ONE</i> , 2011 , 6, e20991	3.7	34
57	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
56	Anti-idiotypic antibody mimics proteolytic function of parent antigen. <i>Biochemistry</i> , 2007 , 46, 14598-6093,2		27
55	Formation of homophily in academic performance: Students change their friends rather than performance. <i>PLoS ONE</i> , 2017 , 12, e0183473	3.7	25
54	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
53	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
52	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
51	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013 , 203, 196-201	5	20
50	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

49	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
48	Immunoproteasome enhances intracellular proteolysis of myelin basic protein. <i>Doklady Biochemistry and Biophysics</i> , 2013 , 453, 300-3	0.8	16
47	Role of Hight-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
46	Charge-mediated proteasome targeting. <i>FASEB Journal</i> , 2019 , 33, 6852-6866	0.9	12
45	Parents mention sons more often than daughters on social media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2039-2041	11.5	11
44	Robotic QM/MM-driven maturation of antibody combining sites. <i>Science Advances</i> , 2016 , 2, e1501695	14.3	10
43	Chemical Polysialylation of Recombinant Human Proteins. <i>Methods in Molecular Biology</i> , 2015 , 1321, 389-404	1.4	9
42	"Shielding" of Cytokine Induction by the Periodontal Microbiome in Patients with Periodontitis Associated with Type 2 Diabetes Mellitus. <i>Acta Naturae</i> , 2019 , 11, 79-87	2.1	9
41	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
40	Creation of catalytic antibodies metabolizing organophosphate compounds. <i>Biochemistry (Moscow)</i> , 2012 , 77, 1139-46	2.9	8
39	A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. <i>Science Advances</i> , 2020 , 6, eaaz9861	14.3	7
38	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
37	Expression of catalytic antibodies in eukaryotic systems. <i>Molecular Biology</i> , 2011 , 45, 74-81	1.2	7
36	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
35	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
34	Deep Functional Profiling Facilitates the Evaluation of the Antibacterial Potential of the Antibiotic Amicoumacin. <i>Antibiotics</i> , 2020 , 9,	4.9	6
33	Production of Recombinant Human Transferrin in Eukaryotic <i>Pichia pastoris</i> Expression System. <i>Bulletin of Experimental Biology and Medicine</i> , 2019 , 167, 335-338	0.8	4
32	Catalytic Antibodies 2012 , 1735-1776		4

31	The Preferable Binding Pose of Canonical Butyrylcholinesterase Substrates Is Unproductive for Echothiophate. <i>Acta Naturae</i> , 2018 , 10, 121-124	2.1	4
30	Application of Tetrameric Recombinant Human Butyrylcholinesterase as a Biopharmaceutical for Amelioration of Symptoms of Acute Organophosphate Poisoning. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 430-435	0.8	3
29	Involvement of the N Domain Residues E34, K35, and R38 in the Functionally Active Structure of Escherichia coli Lon Protease. <i>Acta Naturae</i> , 2020 , 12, 86-97	2.1	3
28	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
27	COVID-19 in Russia: Clinical and Immunological Features of the First-Wave Patients. <i>Acta Naturae</i> , 2021 , 13, 102-115	2.1	3
26	Drift of the Subgingival Periodontal Microbiome during Chronic Periodontitis in Type 2 Diabetes Mellitus Patients. <i>Pathogens</i> , 2021 , 10,	4.5	3
25	Epitope-Specific Response of Human Milk Immunoglobulins in COVID-19 Recovered Women. <i>Pathogens</i> , 2021 , 10,	4.5	3
24	Evolution of inhibitor-resistant natural mutant forms of HIV-1 protease probed by pre-steady state kinetic analysis. <i>Biochimie</i> , 2017 , 142, 125-134	4.6	2
23	Expression of DNA-Encoded Antidote to Organophosphorus Toxins in the Methylotrophic Yeast Pichia Pastoris. <i>Applied Biochemistry and Microbiology</i> , 2016 , 52, 162-169	1.1	2
22	Engineering Artificial Biodiversity of Lantibiotics to Expand Chemical Space of DNA-Encoded Antibiotics. <i>Biochemistry (Moscow)</i> , 2020 , 85, 1319-1334	2.9	1
21	New Genetic Constructs for Generation of Stable Therapeutic Antibodies to Organophosphorus Toxins in Methylotrophic Yeasts Pichia Pastoris. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 161, 83-7	0.8	1
20	Cloning and characterization of serpin from red king crab Paralithodes camtschaticus. <i>Fish and Shellfish Immunology</i> , 2018 , 81, 99-107	4.3	1
19	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
18	A Study of the Protective Properties of an Antibody-Based Antidote Metabolizing Organophosphorus Pesticide Paraoxon. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 218-221	0.8	1
17	Pre-steady-state kinetics of interaction of wild-type and multiple drug-resistant HIV protease with first and second generation inhibitory drugs. <i>Doklady Biochemistry and Biophysics</i> , 2011 , 440, 239-43	0.8	1
16	Antibodies-antidotes against organophosphorus compounds. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 425, 94-7	0.8	1
15	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
14	Recombinant Fragment of the Extracellular Domain of Human Desmoglein 3 Fused with the Fc-Fragment of Human IgG1 Selectively Adsorbs Autoreactive Antibodies from the Sera of Pemphigus Patients. <i>Doklady Biochemistry and Biophysics</i> , 2021 , 498, 180-183	0.8	1

13	Induction of cross-reactive antibody responses against the RBD domain of the spike protein of SARS-CoV-2 by commensal microbiota		1
12	Pre-Steady-State Kinetics of the SARS-CoV-2 Main Protease as a Powerful Tool for Antiviral Drug Discovery.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 773198	5.6	1
11	Schools are segregated by educational outcomes in the digital space. <i>PLoS ONE</i> , 2019 , 14, e0217142	3.7	0
10	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
9	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	
8	Generation of Highly Specific Proteolytic Biocatalysts by Screening Technologies. <i>Bulletin of Experimental Biology and Medicine</i> , 2018 , 165, 399-402	0.8	
7	Cascade Heap: Towards Time-Optimal Extractions. <i>Theory of Computing Systems</i> , 2019 , 63, 637-646	0.6	
6	Genetic Engineering of Native Chain Combinations of B-Cell Repertoires on the Surface of Methylophilic Yeasts <i>Pichia pastoris</i> . <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 263-267	0.8	
5	Preparation of Recombinant Serpin from Red King Crab <i>Paralithodes ĩmmschaticus</i> for Biomedical Research Purposes. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 210-213	0.8	
4	Peculiarities of the Mechanism of Interactions of Catalytic Antibodies with Organophosphorus Substrates. <i>Molecular Biology</i> , 2017 , 51, 830-839	1.2	
3	The antiidiotypic approach to obtaining a proteolytic antibody. <i>Doklady Biochemistry and Biophysics</i> , 2008 , 420, 105-7	0.8	
2	Development of a Serum-Free Media Based on the Optimal Combination of Recombinant Protein Additives and Hydrolysates of Non-animal Origin to Produce Immunoglobulins. <i>Applied Biochemistry and Microbiology</i> , 2020 , 56, 595-603	1.1	
1	Analysis of the Specificity of Auto-Reactive Antibodies to Individual Fragments of the Extracellular Domain of Desmoglein 3 in Patients with Pemphigus Vulgaris. <i>Bulletin of Experimental Biology and Medicine</i> , 2021 , 171, 475-479	0.8	