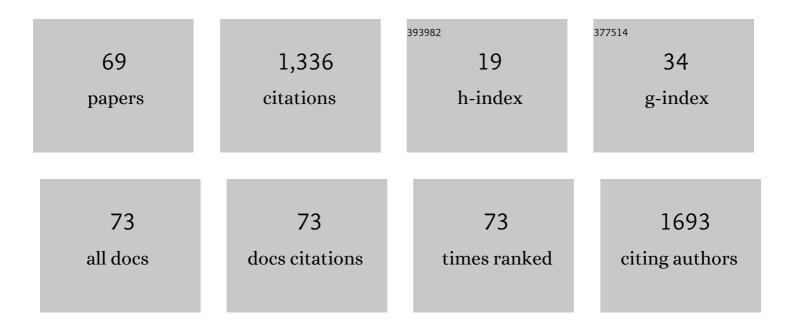
Ivan V Smirnov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2550-2555.	3.3	182
2	Genetically encodable bioluminescent system from fungi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12728-12732.	3.3	130
3	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1243-1248.	3.3	79
4	Ultrahigh-throughput functional profiling of microbiota communities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9551-9556.	3.3	79
5	Combinatorial antibody library from multiple sclerosis patients reveals antibodies that crossâ€react with myelin basic protein and EBV antigen. FASEB Journal, 2011, 25, 4211-4221.	0.2	70
6	Liposomeâ€encapsulated peptides protect against experimental allergic encephalitis. FASEB Journal, 2013, 27, 222-231.	0.2	55
7	<i>Reactibodies</i> generated by kinetic selection couple chemical reactivity with favorable protein dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15954-15959.	3.3	48
8	Strategies for induction of catalytic antibodies toward HIV-1 glycoprotein gp120 in autoimmune prone mice. Molecular Immunology, 2009, 47, 87-95.	1.0	45
9	Formation of homophily in academic performance: Students change their friends rather than performance. PLoS ONE, 2017, 12, e0183473.	1.1	44
10	Design of Targeted B Cell Killing Agents. PLoS ONE, 2011, 6, e20991.	1.1	41
11	Ubiquitinâ€independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. FASEB Journal, 2015, 29, 1901-1913.	0.2	39
12	Anti-Idiotypic Antibody Mimics Proteolytic Function of Parent Antigen. Biochemistry, 2007, 46, 14598-14609.	1.2	34
13	Multiple Sclerosis Autoantigen Myelin Basic Protein Escapes Control by Ubiquitination during Proteasomal Degradation. Journal of Biological Chemistry, 2014, 289, 17758-17766.	1.6	31
14	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. Neurotherapeutics, 2016, 13, 895-904.	2.1	30
15	A novel expression cassette delivers efficient production of exclusively tetrameric human butyrylcholinesterase with improved pharmacokinetics for protection against organophosphate poisoning. Biochimie, 2015, 118, 51-59.	1.3	25
16	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. Chemico-Biological Interactions, 2013, 203, 196-201.	1.7	24
17	Heavy–light chain interrelations of MS-associated immunoglobulins probed by deep sequencing and rational variation. Molecular Immunology, 2014, 62, 305-314.	1.0	23
18	Administration of Myelin Basic Protein Peptides Encapsulated in Mannosylated Liposomes Normalizes Level of Serum TNF- <i>α</i> and IL-2 and Chemoattractants CCL2 and CCL4 in Multiple Sclerosis Patients. Mediators of Inflammation, 2016, 2016, 1-8.	1.4	23

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19	Role of κ→λ light-chain constant-domain switch in the structure and functionality of A17 reactibody. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 708-719.	2.5	22
20	Parents mention sons more often than daughters on social media. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2039-2041.	3.3	21
21	Chargeâ€mediated proteasome targeting. FASEB Journal, 2019, 33, 6852-6866.	0.2	19
22	Immunoproteasome enhances intracellular proteolysis of myelin basic protein. Doklady Biochemistry and Biophysics, 2013, 453, 300-303.	0.3	17
23	A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. Science Advances, 2020, 6, eaaz9861.	4.7	17
24	Drift of the Subgingival Periodontal Microbiome during Chronic Periodontitis in Type 2 Diabetes Mellitus Patients. Pathogens, 2021, 10, 504.	1.2	16
25	Robotic QM/MM-driven maturation of antibody combining sites. Science Advances, 2016, 2, e1501695.	4.7	15
26	Deep Functional Profiling Facilitates the Evaluation of the Antibacterial Potential of the Antibiotic Amicoumacin. Antibiotics, 2020, 9, 157.	1.5	14
27	"Shielding―of Cytokine Induction by the Periodontal Microbiome in Patients with Periodontitis Associated with Type 2 Diabetes Mellitus. Acta Naturae, 2019, 11, 79-87.	1.7	14
28	Multiscale computation delivers organophosphorus reactivity and stereoselectivity to immunoglobulin scavengers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22841-22848.	3.3	13
29	Protective Allele for Multiple Sclerosis HLA-DRB1*01:01 Provides Kinetic Discrimination of Myelin and Exogenous Antigenic Peptides. Frontiers in Immunology, 2020, 10, 3088.	2.2	13
30	Chemical Polysialylation of Recombinant Human Proteins. Methods in Molecular Biology, 2015, 1321, 389-404.	0.4	11
31	QM/MM Description of Newly Selected Catalytic Bioscavengers Against Organophosphorus Compounds Revealed Reactivation Stimulus Mediated by Histidine Residue in the Acyl-Binding Loop. Frontiers in Pharmacology, 2018, 9, 834.	1.6	10
32	Glatiramer Acetate and Nanny Proteins Restrict Access of the Multiple Sclerosis Autoantigen Myelin Basic Protein to the 26S Proteasome. BioMed Research International, 2014, 2014, 1-10.	0.9	9
33	Expression of catalytic antibodies in eukaryotic systems. Molecular Biology, 2011, 45, 74-81.	0.4	8
34	Antibody–antigen pair probed by combinatorial approach and rational design: Bringing together structural insights, directed evolution, and novel functionality. FEBS Letters, 2012, 586, 2966-2973.	1.3	8
35	Creation of catalytic antibodies metabolizing organophosphate compounds. Biochemistry (Moscow), 2012, 77, 1139-1146.	0.7	8
36	Epitope-Specific Response of Human Milk Immunoglobulins in COVID-19 Recovered Women. Pathogens, 2021, 10, 705.	1.2	8

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37	Live Biosensors for Ultrahigh-Throughput Screening of Antimicrobial Activity against Gram-Negative Bacteria. Antibiotics, 2021, 10, 1161.	1.5	7
38	The Preferable Binding Pose of Canonical Butyrylcholinesterase Substrates Is Unproductive for Echothiophate. Acta Naturae, 2018, 10, 121-124.	1.7	7
39	Selective Eradication of Staphylococcus aureus by the Designer Genetically Programmed Yeast Biocontrol Agent. Antibiotics, 2020, 9, 527.	1.5	6
40	COVID-19 in Russia: Clinical and Immunological Features of the First-Wave Patients. Acta Naturae, 2021, 13, 102-115.	1.7	6
41	Deep Functional Profiling of Wild Animal Microbiomes Reveals Probiotic Bacillus pumilus Strains with a Common Biosynthetic Fingerprint. International Journal of Molecular Sciences, 2022, 23, 1168.	1.8	5
42	Pre-Steady-State Kinetics of the SARS-CoV-2 Main Protease as a Powerful Tool for Antiviral Drug Discovery. Frontiers in Pharmacology, 2021, 12, 773198.	1.6	5
43	Application of Tetrameric Recombinant Human Butyrylcholinesterase as a Biopharmaceutical for Amelioration of Symptoms of Acute Organophosphate Poisoning. Bulletin of Experimental Biology and Medicine, 2017, 163, 430-435.	0.3	4
44	Production of Recombinant Human Transferrin in Eukaryotic Pichia pastoris Expression System. Bulletin of Experimental Biology and Medicine, 2019, 167, 335-338.	0.3	4
45	Liquid drop of DNA libraries reveals total genome information. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27300-27306.	3.3	4
46	Involvement of the N Domain Residues E34, K35, and R38 in the Functionally Active Structure of Escherichia coli Lon Protease. Acta Naturae, 2020, 12, 86-97.	1.7	4
47	Antibodies-antidotes against organophosphorus compounds. Doklady Biochemistry and Biophysics, 2009, 425, 94-97.	0.3	2
48	Expression of DNA-Encoded Antidote to Organophosphorus Toxins in the Methylotrophic Yeast Pichia Pastoris. Applied Biochemistry and Microbiology, 2016, 52, 162-169.	0.3	2
49	New Genetic Constructs for Generation of Stable Therapeutic Antibodies to Organophosphorus Toxins in Methylotrophic Yeasts Pichia Pastoris. Bulletin of Experimental Biology and Medicine, 2016, 161, 83-87.	0.3	2
50	Evolution of inhibitor-resistant natural mutant forms of HIV-1 protease probed by pre-steady state kinetic analysis. Biochimie, 2017, 142, 125-134.	1.3	2
51	A Study of the Protective Properties of an Antibody-Based Antidote Metabolizing Organophosphorus Pesticide Paraoxon. Bulletin of Experimental Biology and Medicine, 2017, 163, 218-221.	0.3	2
52	Cloning and characterization of serpin from red king crab Paralithodes camtschaticus. Fish and Shellfish Immunology, 2018, 81, 99-107.	1.6	2
53	Schools are segregated by educational outcomes in the digital space. PLoS ONE, 2019, 14, e0217142.	1.1	2
54	Mouse Model for Assessing the Subchronic Toxicity of Organophosphate Pesticides. Acta Naturae, 2018, 10, 125-128.	1.7	2

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55	Pre-steady-state kinetics of interaction of wild-type and multiple drug-resistant HIV protease with first and second generation inhibitory drugs. Doklady Biochemistry and Biophysics, 2011, 440, 239-243.	0.3	1
56	Evolution of catalytic centers of antibodies by virtual screening of broad repertoire of mutants using supercomputer. Doklady Biochemistry and Biophysics, 2017, 475, 245-249.	0.3	1
57	Engineering Artificial Biodiversity of Lantibiotics to Expand Chemical Space of DNA-Encoded Antibiotics. Biochemistry (Moscow), 2020, 85, 1319-1334.	0.7	1
58	Peculiarities of the Presentation of the Encephalitogenic MBP Peptide by HLA-DR Complexes Providing Protection and Predisposition to Multiple Sclerosis. Acta Naturae, 2021, 13, 127-133.	1.7	1
59	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. Doklady Biochemistry and Biophysics, 2021, 498, 180-183.	0.3	1
60	Analysis of the Specificity of Auto-Reactive Antibodies to Individual Fragments of the Extracellular Domain of Desmoglein 3 in Patients with Pemphigus Vulgaris. Bulletin of Experimental Biology and Medicine, 2021, 171, 475-479.	0.3	1
61	Highly Similar Sequences of Mature IgA1 Proteases from Neisseria meningitidis, Neisseria gonorrhoeae and Haemophilus influenzae. Pathogens, 2022, 11, 734.	1.2	1
62	The antiidiotypic approach to obtaining a proteolytic antibody. Doklady Biochemistry and Biophysics, 2008, 420, 105-107.	0.3	0
63	Design of Chemical Conjugate for Targeted Therapy of Multiple Sclerosis Based of Constant Fragment of Human Antibody Heavy Chain and Peptoid Analog of Autoantigen MOG35-55. Bulletin of Experimental Biology and Medicine, 2017, 162, 777-780.	0.3	0
64	Genetic Engineering of Native Chain Combinations of B-Cell Repertoires on the Surface of Methylotrophic Yeasts Pichia pastoris. Bulletin of Experimental Biology and Medicine, 2017, 163, 263-267.	0.3	0
65	Preparation of Recombinant Serpin from Red King Crab Paralithodes Ñamtschaticus for Biomedical Research Purposes. Bulletin of Experimental Biology and Medicine, 2017, 163, 210-213.	0.3	0
66	Peculiarities of the Mechanism of Interactions of Catalytic Antibodies with Organophosphorus Substrates. Molecular Biology, 2017, 51, 830-839.	0.4	0
67	Generation of Highly Specific Proteolytic Biocatalysts by Screening Technologies. Bulletin of Experimental Biology and Medicine, 2018, 165, 399-402.	0.3	0
68	Cascade Heap: Towards Time-Optimal Extractions. Theory of Computing Systems, 2019, 63, 637-646.	0.7	0
69	Development of a Serum-Free Media Based on the Optimal Combination of Recombinant Protein Additives and Hydrolysates of Non-animal Origin to Produce Immunoglobulins. Applied Biochemistry and Microbiology, 2020, 56, 595-603	0.3	0