

# Ivan V Smirnov

## List of Publications by Year in descending order

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69  
papers

1,336  
citations

393982

19  
h-index

377514

34  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Functional Profiling of Wild Animal Microbiomes Reveals Probiotic <i>Bacillus pumilus</i> Strains with a Common Biosynthetic Fingerprint. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1168.	1.8	5
2	Highly Similar Sequences of Mature IgA1 Proteases from <i>Neisseria meningitidis</i> , <i>Neisseria gonorrhoeae</i> and <i>Haemophilus influenzae</i> . <i>Pathogens</i> , 2022, 11, 734.	1.2	1
3	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.	1.7	1
4	COVID-19 in Russia: Clinical and Immunological Features of the First-Wave Patients. <i>Acta Naturae</i> , 2021, 13, 102-115.	1.7	6
5	Drift of the Subgingival Periodontal Microbiome during Chronic Periodontitis in Type 2 Diabetes Mellitus Patients. <i>Pathogens</i> , 2021, 10, 504.	1.2	16
6	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.	0.3	1
7	Epitope-Specific Response of Human Milk Immunoglobulins in COVID-19 Recovered Women. <i>Pathogens</i> , 2021, 10, 705.	1.2	8
8	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.	0.3	1
9	Live Biosensors for Ultrahigh-Throughput Screening of Antimicrobial Activity against Gram-Negative Bacteria. <i>Antibiotics</i> , 2021, 10, 1161.	1.5	7
10	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.	1.6	5
11	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.	0.3	0
12	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.	3.3	4
13	Selective Eradication of <i>Staphylococcus aureus</i> by the Designer Genetically Programmed Yeast Biocontrol Agent. <i>Antibiotics</i> , 2020, 9, 527.	1.5	6
14	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.	3.3	13
15	Engineering Artificial Biodiversity of Lantibiotics to Expand Chemical Space of DNA-Encoded Antibiotics. <i>Biochemistry (Moscow)</i> , 2020, 85, 1319-1334.	0.7	1
16	A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. <i>Science Advances</i> , 2020, 6, eaaz9861.	4.7	17
17	Protective Allele for Multiple Sclerosis HLA-DRB1*01:01 Provides Kinetic Discrimination of Myelin and Exogenous Antigenic Peptides. <i>Frontiers in Immunology</i> , 2020, 10, 3088.	2.2	13
18	Deep Functional Profiling Facilitates the Evaluation of the Antibacterial Potential of the Antibiotic Amicoumacin. <i>Antibiotics</i> , 2020, 9, 157.	1.5	14

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19	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.	1.7	4
20	Cascade Heap: Towards Time-Optimal Extractions. <i>Theory of Computing Systems</i> , 2019, 63, 637-646.	0.7	0
21	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.	0.3	4
22	Schools are segregated by educational outcomes in the digital space. <i>PLoS ONE</i> , 2019, 14, e0217142.	1.1	2
23	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.	3.3	21
24	Charge-mediated proteasome targeting. <i>FASEB Journal</i> , 2019, 33, 6852-6866.	0.2	19
25	“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.	1.7	14
26	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.	3.3	130
27	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.	3.3	79
28	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.	1.6	10
29	Generation of Highly Specific Proteolytic Biocatalysts by Screening Technologies. <i>Bulletin of Experimental Biology and Medicine</i> , 2018, 165, 399-402.	0.3	0
30	Cloning and characterization of serpin from red king crab <i>Paralithodes camtschaticus</i> . <i>Fish and Shellfish Immunology</i> , 2018, 81, 99-107.	1.6	2
31	The Preferable Binding Pose of Canonical Butyrylcholinesterase Substrates Is Unproductive for Echothiophate. <i>Acta Naturae</i> , 2018, 10, 121-124.	1.7	7
32	Mouse Model for Assessing the Subchronic Toxicity of Organophosphate Pesticides. <i>Acta Naturae</i> , 2018, 10, 125-128.	1.7	2
33	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.	3.3	182
34	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. <i>Bulletin of Experimental Biology and Medicine</i> , 2017, 162, 777-780.	0.3	0
35	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.	1.3	2
36	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.	0.3	4

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37	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
38	Genetic Engineering of Native Chain Combinations of B-Cell Repertoires on the Surface of Methylotrophic Yeasts <i>Pichia pastoris</i> . Bulletin of Experimental Biology and Medicine, 2017, 163, 263-267.	0.3	0
39	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
40	Preparation of Recombinant Serpin from Red King Crab Paralithodes <i>Namtschaticus</i> for Biomedical Research Purposes. Bulletin of Experimental Biology and Medicine, 2017, 163, 210-213.	0.3	0
41	Peculiarities of the Mechanism of Interactions of Catalytic Antibodies with Organophosphorus Substrates. Molecular Biology, 2017, 51, 830-839.	0.4	0
42	Formation of homophily in academic performance: Students change their friends rather than performance. PLoS ONE, 2017, 12, e0183473.	1.1	44
43	Administration of Myelin Basic Protein Peptides Encapsulated in Mannosylated Liposomes Normalizes Level of Serum TNF- $\alpha$ and IL-2 and Chemoattractants CCL2 and CCL4 in Multiple Sclerosis Patients. Mediators of Inflammation, 2016, 2016, 1-8.	1.4	23
44	Expression of DNA-Encoded Antidote to Organophosphorus Toxins in the Methylotrophic Yeast <i>Pichia Pastoris</i> . Applied Biochemistry and Microbiology, 2016, 52, 162-169.	0.3	2
45	Robotic QM/MM-driven maturation of antibody combining sites. Science Advances, 2016, 2, e1501695.	4.7	15
46	New Genetic Constructs for Generation of Stable Therapeutic Antibodies to Organophosphorus Toxins in Methylotrophic Yeasts <i>Pichia Pastoris</i> . Bulletin of Experimental Biology and Medicine, 2016, 161, 83-87.	0.3	2
47	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
48	Ubiquitin-independent proteosomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. FASEB Journal, 2015, 29, 1901-1913.	0.2	39
49	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
50	Chemical Polysialylation of Recombinant Human Proteins. Methods in Molecular Biology, 2015, 1321, 389-404.	0.4	11
51	Multiple Sclerosis Autoantigen Myelin Basic Protein Escapes Control by Ubiquitination during Proteasomal Degradation. Journal of Biological Chemistry, 2014, 289, 17758-17766.	1.6	31
52	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
53	Role of $\lambda$ 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
54	Heavy-light chain interrelations of MS-associated immunoglobulins probed by deep sequencing and rational variation. Molecular Immunology, 2014, 62, 305-314.	1.0	23

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55	Immunoproteasome enhances intracellular proteolysis of myelin basic protein. Doklady Biochemistry and Biophysics, 2013, 453, 300-303.	0.3	17
56	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
57	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. Chemico-Biological Interactions, 2013, 203, 196-201.	1.7	24
58	Liposome-encapsulated peptides protect against experimental allergic encephalitis. FASEB Journal, 2013, 27, 222-231.	0.2	55
59	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
60	Creation of catalytic antibodies metabolizing organophosphate compounds. Biochemistry (Moscow), 2012, 77, 1139-1146.	0.7	8
61	Expression of catalytic antibodies in eukaryotic systems. Molecular Biology, 2011, 45, 74-81.	0.4	8
62	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
63	Combinatorial antibody library from multiple sclerosis patients reveals antibodies that cross-react with myelin basic protein and EBV antigen. FASEB Journal, 2011, 25, 4211-4221.	0.2	70
64	Reactibodies 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
65	Design of Targeted B Cell Killing Agents. PLoS ONE, 2011, 6, e20991.	1.1	41
66	Antibodies-antidotes against organophosphorus compounds. Doklady Biochemistry and Biophysics, 2009, 425, 94-97.	0.3	2
67	Strategies for induction of catalytic antibodies toward HIV-1 glycoprotein gp120 in autoimmune prone mice. Molecular Immunology, 2009, 47, 87-95.	1.0	45
68	The antiidiotypic approach to obtaining a proteolytic antibody. Doklady Biochemistry and Biophysics, 2008, 420, 105-107.	0.3	0
69	Anti-Idiotypic Antibody Mimics Proteolytic Function of Parent Antigen. Biochemistry, 2007, 46, 14598-14609.	1.2	34