

Alexander G Gabibov

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

2,080
citations

218381

26
h-index

264894

42
g-index

102
all docs

102
docs citations

102
times ranked

2184
citing authors

#	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	Autoantibodies to myelin basic protein catalyze site-specific degradation of their antigen. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 281-286.	3.3	175
3	Recognition and Degradation of Myelin Basic Protein Peptides by Serum Autoantibodies: Novel Biomarker for Multiple Sclerosis. Journal of Immunology, 2008, 180, 1258-1267.	0.4	111
4	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
5	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
6	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
7	Peptidoglycan Recognition Protein Tag7 Forms a Cytotoxic Complex with Heat Shock Protein 70 in Solution and in Lymphocytes. Journal of Biological Chemistry, 2004, 279, 2117-2124.	1.6	69
8	A SARS-CoV-2 neutralizing antibody with extensive Spike binding coverage and modified for optimal therapeutic outcomes. Nature Communications, 2021, 12, 2623.	5.8	64
9	Liposome-encapsulated peptides protect against experimental allergic encephalitis. FASEB Journal, 2013, 27, 222-231.	0.2	55
10	Catalytic antibodies in clinical and experimental pathology: human and mouse models. Journal of Immunological Methods, 2002, 269, 197-211.	0.6	53
11	DNA hydrolysis by monoclonal anti-ssDNA autoantibody BV 04-01: Origins of catalytic activity. Molecular Immunology, 1997, 34, 1083-1093.	1.0	48
12	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
13	Tag7 (PGLYRP1) in Complex with Hsp70 Induces Alternative Cytotoxic Processes in Tumor Cells via TNFR1 Receptor. Journal of Biological Chemistry, 2015, 290, 21724-21731.	1.6	48
14	Catalytic activity of autoantibodies toward myelin basic protein correlates with the scores on the multiple sclerosis expanded disability status scale. Immunology Letters, 2006, 103, 45-50.	1.1	47
15	Strategies for induction of catalytic antibodies toward HIV-1 glycoprotein gp120 in autoimmune prone mice. Molecular Immunology, 2009, 47, 87-95.	1.0	45
16	Catalytic autoantibodies in clinical autoimmunity and modern medicine. Autoimmunity Reviews, 2006, 5, 324-330.	2.5	44
17	Routes to Covalent Catalysis by Reactive Selection for Nascent Protein Nucleophiles. Journal of the American Chemical Society, 2007, 129, 16175-16182.	6.6	41
18	Design of Targeted B Cell Killing Agents. PLoS ONE, 2011, 6, e20991.	1.1	41

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19	Ubiquitin-independent proteasomal degradation of myelin basic protein contributes to development of neurodegenerative autoimmunity. <i>FASEB Journal</i> , 2015, 29, 1901-1913.	0.2	39
20	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, 2366-2378.	2.5	39
21	DNA-specific antiidiotypic antibodies in the sera of patients with autoimmune diseases. <i>FEBS Letters</i> , 1992, 314, 259-263.	1.3	38
22	Catalytic antibodies: balancing between Dr. Jekyll and Mr. Hyde. <i>BioEssays</i> , 2009, 31, 1161-1171.	1.2	38
23	Idiotypic network mimicry and antibody catalysis: lessons for the elicitation of efficient anti-idiotypic protease antibodies. <i>Journal of Immunological Methods</i> , 2002, 269, 5-12.	0.6	33
24	Multiple Sclerosis Autoantigen Myelin Basic Protein Escapes Control by Ubiquitination during Proteasomal Degradation. <i>Journal of Biological Chemistry</i> , 2014, 289, 17758-17766.	1.6	31
25	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.	2.1	30
26	DNA-hydrolyzing autoantibodies. <i>Applied Biochemistry and Biotechnology</i> , 1994, 47, 293-303.	1.4	29
27	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, 51-59.	1.3	25
28	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013, 203, 196-201.	1.7	24
29	Heavy-light chain interrelations of MS-associated immunoglobulins probed by deep sequencing and rational variation. <i>Molecular Immunology</i> , 2014, 62, 305-314.	1.0	23
30	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, 1-8.	1.4	23
31	Role of κ light-chain constant-domain switch in the structure and functionality of A17 reactibody. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 708-719.	2.5	22
32	Exposure to the Epstein-Barr Viral Antigen Latent Membrane Protein 1 Induces Myelin-Reactive Antibodies In Vivo. <i>Frontiers in Immunology</i> , 2017, 8, 777.	2.2	22
33	The Transcriptome of Type I Murine Astrocytes under Interferon-Gamma Exposure and Remyelination Stimulus. <i>Molecules</i> , 2017, 22, 808.	1.7	21
34	Autocrine-based selection of ligands for personalized CAR-T therapy of lymphoma. <i>Science Advances</i> , 2018, 4, eaau4580.	4.7	19
35	Substrate Recognition of Anthrax Lethal Factor Examined by Combinatorial and Pre-steady-state Kinetic Approaches. <i>Journal of Biological Chemistry</i> , 2009, 284, 17902-17913.	1.6	18
36	Alterations in SARS-CoV-2 Omicron and Delta peptides presentation by HLA molecules. <i>PeerJ</i> , 2022, 10, e13354.	0.9	18

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37	A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. <i>Science Advances</i> , 2020, 6, eaaz9861.	4.7	17
38	Drift of the Subgingival Periodontal Microbiome during Chronic Periodontitis in Type 2 Diabetes Mellitus Patients. <i>Pathogens</i> , 2021, 10, 504.	1.2	16
39	Robotic QM/MM-driven maturation of antibody combining sites. <i>Science Advances</i> , 2016, 2, e1501695.	4.7	15
40	Deep Functional Profiling Facilitates the Evaluation of the Antibacterial Potential of the Antibiotic Amicoumacin. <i>Antibiotics</i> , 2020, 9, 157.	1.5	14
41	Catalytic transformations of supercoiled DNA as studied by flow linear dichroism technique. <i>FEBS Journal</i> , 2005, 272, 6336-6343.	2.2	13
42	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
43	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
44	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, 11213.	1.8	11
45	Neutrophil Extracellular Traps (NETs): Opportunities for Targeted Therapy. <i>Acta Naturae</i> , 2021, 13, 15-23.	1.7	11
46	Divergent Immunomodulation Capacity of Individual Myelin Peptidesâ€™ Components of Liposomal Therapeutic against Multiple Sclerosis. <i>Frontiers in Immunology</i> , 2017, 8, 1335.	2.2	10
47	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
48	Molecular deconvolution of the neutralizing antibodies induced by an inactivated SARS-CoV-2 virus vaccine. <i>Protein and Cell</i> , 2021, 12, 818-823.	4.8	10
49	Antibody catalysis: Biochemistry, immunology, pathology. <i>Immunology Letters</i> , 2006, 103, 1-2.	1.1	9
50	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, 1-10.	0.9	9
51	Antibodyâ€™antigen pair probed by combinatorial approach and rational design: Bringing together structural insights, directed evolution, and novel functionality. <i>FEBS Letters</i> , 2012, 586, 2966-2973.	1.3	8
52	Epitope-Specific Response of Human Milk Immunoglobulins in COVID-19 Recovered Women. <i>Pathogens</i> , 2021, 10, 705.	1.2	8
53	Editorial: Nano- and Microparticle-Induced Cell Death, Inflammation and Immune Responses. <i>Frontiers in Immunology</i> , 2019, 10, 844.	2.2	7
54	Live Biosensors for Ultrahigh-Throughput Screening of Antimicrobial Activity against Gram-Negative Bacteria. <i>Antibiotics</i> , 2021, 10, 1161.	1.5	7

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55	Two subforms of eukaryotic topoisomerase I Purification and structure-function relationships. FEBS Letters, 1992, 314, 267-270.	1.3	6
56	Selective Eradication of Staphylococcus aureus by the Designer Genetically Programmed Yeast Biocontrol Agent. Antibiotics, 2020, 9, 527.	1.5	6
57	Heterogeneous catalysis on the phage surface: Display of active human enteropeptidase. Biochimie, 2013, 95, 2076-2081.	1.3	5
58	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. Biotechnology Letters, 2016, 38, 1173-1180.	1.1	5
59	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
60	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
61	Studies on the Mechanism of Action of the Histone Kinase Dependent on Adenosine 3',5'-Monophosphate. Interaction of ATP with the Catalytic Subunit of the Pig-Brain Enzyme: Application of the Quenched-Flow Technique. FEBS Journal, 1981, 115, 297-301.	0.2	4
62	Studies on the Mechanism of Action of the Histone Kinase Dependent on Adenosine 3',5'-Monophosphate. Investigation of Protein-Protein Interaction by Electron Spin-Resonance Spectroscopy and Stopped-Flow Methods. FEBS Journal, 1983, 132, 339-344.	0.2	4
63	DNA-hydrolyzing Autoantibodies in Autoimmune Pathologies. Annals of the New York Academy of Sciences, 1995, 750, 255-264.	1.8	4
64	Modified siRNA effectively silence inducible immunoproteasome subunits in NSO cells. Biochimie, 2016, 125, 75-82.	1.3	4
65	Peptides Against Autoimmune Neurodegeneration. Current Medicinal Chemistry, 2017, 24, 1761-1771.	1.2	4
66	Probing Surface Membrane Receptors Using Engineered Bacteriophage Bioconjugates. Bioconjugate Chemistry, 2019, 30, 1500-1506.	1.8	4
67	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
68	A New Precision Minimally Invasive Method of Glial Scar Simulation in the Rat Spinal Cord Using Cryoapplication. Frontiers in Surgery, 2021, 8, 607551.	0.6	4
69	Targeting Extracellular Vesicles to Dendritic Cells and Macrophages. Acta Naturae, 2021, 13, 114-121.	1.7	4
70	Studies on the mechanism of action of the histone kinase dependent on adenosine 3',5'-monophosphate. Fast kinetics of histone H1 phosphorylation. FEBS Journal, 1983, 135, 491-495.	0.2	3
71	Cystathionase: high-performance liquid chromatography. Molecular cloning in >11. Nonradioactive immunodetection of fusion protein. Biochimie, 1989, 71, 599-604.	1.3	3
72	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

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73	Antibody-associated proteolysis in surveillance of autoimmune demyelination: clinical and preclinical issues. <i>Future Neurology</i> , 2011, 6, 303-305.	0.9	1
74	Myelin-Reactive Monoclonal Antibodies from Multiple Sclerosis Patients Cross-React with Nucleoproteins in HEP-2 Lysate. <i>BioNanoScience</i> , 2016, 6, 322-324.	1.5	1
75	Avidin-peroxidase: synthesis and HPLC isolation of highly sensitive oligomers. <i>Journal of Proteomics</i> , 1990, 21, 267-275.	2.4	0
76	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.	0.7	0
77	Book review on "Immunology" (2021) authored by academician of the Russian Academy of Sciences R.M. Khaitov. <i>Russian Journal of Allergy</i> , 0, , .	0.1	0