

Alexey Sokolov

List of Publications by Citations

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123
papers

1,415
citations

21
h-index

30
g-index

148
ext. papers

1,722
ext. citations

2.2
avg. IF

4.47
L-index

#	Paper	IF	Citations
123	Hypochlorous acid as a precursor of free radicals in living systems. <i>Biochemistry (Moscow)</i> , 2013 , 78, 1466-89	2.9	77
122	Ceruloplasmin: macromolecular assemblies with iron-containing acute phase proteins. <i>PLoS ONE</i> , 2013 , 8, e67145	3.7	68
121	Ceruloplasmin and myeloperoxidase in complex affect the enzymatic properties of each other. <i>Free Radical Research</i> , 2008 , 42, 989-98	4	51
120	PEGylated single-walled carbon nanotubes activate neutrophils to increase production of hypochlorous acid, the oxidant capable of degrading nanotubes. <i>Toxicology and Applied Pharmacology</i> , 2012 , 264, 131-42	4.6	45
119	Hypochlorous acid-modified human serum albumin induces neutrophil NADPH oxidase activation, degranulation, and shape change. <i>Free Radical Biology and Medicine</i> , 2014 , 68, 326-34	7.8	41
118	Identification and properties of complexes formed by myeloperoxidase with lipoproteins and ceruloplasmin. <i>Chemistry and Physics of Lipids</i> , 2010 , 163, 347-55	3.7	41
117	Lactoferrin, myeloperoxidase, and ceruloplasmin: complementary gearwheels cranking physiological and pathological processes. <i>BioMetals</i> , 2014 , 27, 815-28	3.4	33
116	Interaction of ceruloplasmin, lactoferrin, and myeloperoxidase. <i>Biochemistry (Moscow)</i> , 2007 , 72, 409-15	2.9	33
115	Interaction of ceruloplasmin with eosinophil peroxidase as compared to its interplay with myeloperoxidase: Reciprocal effect on enzymatic properties. <i>Free Radical Research</i> , 2015 , 49, 800-11	4	29
114	Proatherogenic modification of LDL by surface-bound myeloperoxidase. <i>Chemistry and Physics of Lipids</i> , 2014 , 180, 72-80	3.7	29
113	The free amino acid tyrosine enhances the chlorinating activity of human myeloperoxidase. <i>Journal of Inorganic Biochemistry</i> , 2012 , 106, 76-83	4.2	29
112	Two-stage method for purification of ceruloplasmin based on its interaction with neomycin. <i>Biochemistry (Moscow)</i> , 2012 , 77, 631-8	2.9	27
111	Structural characterization of the ceruloplasmin: lactoferrin complex in solution. <i>Journal of Molecular Biology</i> , 2007 , 371, 1038-46	6.5	25
110	Thrombin inhibits the anti-myeloperoxidase and ferroxidase functions of ceruloplasmin: relevance in rheumatoid arthritis. <i>Free Radical Biology and Medicine</i> , 2015 , 86, 279-94	7.8	24
109	Kinetic method for assaying the halogenating activity of myeloperoxidase based on reaction of celestine blue B with taurine halogenamines. <i>Free Radical Research</i> , 2015 , 49, 777-89	4	24
108	Effect of lactoferrin on oxidative features of ceruloplasmin. <i>BioMetals</i> , 2009 , 22, 521-9	3.4	24
107	Identification of leukocyte cationic proteins that interact with ceruloplasmin. <i>Biochemistry (Moscow)</i> , 2007 , 72, 872-7	2.9	23

106	The Contribution of Major Histocompatibility Complex Class II Genes to an Association with Autoimmune Diseases. <i>Acta Naturae</i> , 2019 , 11, 4-12	2.1	23
105	Studies of the ceruloplasmin-lactoferrin complex. <i>Biochemistry and Cell Biology</i> , 2002 , 80, 35-9	3.6	22
104	Functional activity of neutrophils in diabetes mellitus and coronary heart disease: role of myeloperoxidase in the development of oxidative stress. <i>Bulletin of Experimental Biology and Medicine</i> , 2012 , 154, 23-6	0.8	21
103	Human apo-lactoferrin as a physiological mimetic of hypoxia stabilizes hypoxia-inducible factor-1 alpha. <i>BioMetals</i> , 2012 , 25, 1247-59	3.4	21
102	Myeloperoxidase modulates human platelet aggregation via actin cytoskeleton reorganization and store-operated calcium entry. <i>Biology Open</i> , 2013 , 2, 916-23	2.2	21
101	Identification and isolation from breast milk of ceruloplasmin-lactoferrin complex. <i>Biochemistry (Moscow)</i> , 2006 , 71, 160-6	2.9	21
100	Myeloperoxidase Stimulates Neutrophil Degranulation. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 161, 495-500	0.8	21
99	Binding of human myeloperoxidase to red blood cells: Molecular targets and biophysical consequences at the plasma membrane level. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 591, 87-97	4.1	20
98	Measurement of plasma hemoglobin peroxidase activity. <i>Bulletin of Experimental Biology and Medicine</i> , 2013 , 155, 118-21	0.8	19
97	Neutrophil activation in response to monomeric myeloperoxidase. <i>Biochemistry and Cell Biology</i> , 2018 , 96, 592-601	3.6	18
96	Adsorbed plasma proteins modulate the effects of single-walled carbon nanotubes on neutrophils in blood. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1615-25	6	18
95	Erythropoietin and Nrf2: key factors in the neuroprotection provided by apo-lactoferrin. <i>BioMetals</i> , 2018 , 31, 425-443	3.4	17
94	Effect of lactoferrin on the ferroxidase activity of ceruloplasmin. <i>Biochemistry (Moscow)</i> , 2005 , 70, 1015-2.9	2.9	17
93	Protection of ceruloplasmin by lactoferrin against hydroxyl radicals is pH dependent. <i>Biochemistry and Cell Biology</i> , 2012 , 90, 397-404	3.6	16
92	B Cell Regulation in Autoimmune Diseases. <i>Acta Naturae</i> , 2018 , 10, 11-22	2.1	16
91	Revealing binding sites for myeloperoxidase on the surface of human low density lipoproteins. <i>Chemistry and Physics of Lipids</i> , 2011 , 164, 49-53	3.7	15
90	Interaction of ceruloplasmin and 5-lipoxygenase. <i>Biochemistry (Moscow)</i> , 2010 , 75, 1464-9	2.9	15
89	X-ray diffraction study of highly purified human ceruloplasmin. <i>Crystallography Reports</i> , 2008 , 53, 655-662.6	2.6	15

88	Ceruloplasmin decreases respiratory burst reaction during pregnancy. <i>Free Radical Research</i> , 2016 , 50, 909-19	4	14
87	Study of the dynamics of saltating sand grains over desertified territories. <i>Doklady Earth Sciences</i> , 2013 , 452, 1067-1073	0.6	14
86	Influence of ceruloplasmin and lactoferrin on the chlorination activity of leukocyte myeloperoxidase assayed by chemiluminescence. <i>Biophysics (Russian Federation)</i> , 2008 , 53, 268-272	0.7	14
85	Fine Regulation of Neutrophil Oxidative Status and Apoptosis by Ceruloplasmin and Its Derivatives. <i>Cells</i> , 2018 , 7,	7.9	13
84	Rat ceruloplasmin: a new labile copper binding site and zinc/copper mosaic. <i>Metallomics</i> , 2017 , 9, 1828-1838	4.3	13
83	Myeloperoxidase-Induced Oxidation of Albumin and Ceruloplasmin: Role of Tyrosines. <i>Biochemistry (Moscow)</i> , 2019 , 84, 652-662	2.9	12
82	Identification of complexes formed by ceruloplasmin with matrix metalloproteinases 2 and 12. <i>Biochemistry (Moscow)</i> , 2009 , 74, 1388-92	2.9	12
81	A LINK BETWEEN ACTIVE MYELOPEROXIDASE AND CHLORINATED CERULOPLASMIN IN BLOOD PLASMA OF PATIENTS WITH CARDIOVASCULAR DISEASES. <i>Medical Immunology (Russia)</i> , 2018 , 20, 699-710	9.5	12
80	Effect of lactoferrin on consequences of acute experimental hemorrhagic anemia in rats. <i>Bulletin of Experimental Biology and Medicine</i> , 2010 , 149, 219-22	0.8	11
79	Protective Effect of Dinitrosyl Iron Complexes with Glutathione in Red Blood Cell Lysis Induced by Hypochlorous Acid. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 2798154	6.7	10
78	Study of interaction of ceruloplasmin with serprocidins. <i>Biochemistry (Moscow)</i> , 2010 , 75, 1361-7	2.9	10
77	Study of interaction of ceruloplasmin, lactoferrin, and myeloperoxidase by photon correlation spectroscopy. <i>Biochemistry (Moscow)</i> , 2009 , 74, 1225-7	2.9	10
76	Targeted Drug Delivery in Lipid-like Nanocages and Extracellular Vesicles. <i>Acta Naturae</i> , 2019 , 11, 28-41	2.1	10
75	Interaction of macrophage migration inhibitory factor with ceruloplasmin: role of labile copper ions. <i>BioMetals</i> , 2015 , 28, 817-26	3.4	9
74	Synthesis of Plasmin-Loaded Fe ₃ O ₄ @CaCO ₃ Nanoparticles: Towards Next-Generation Thrombolytic Drugs. <i>ChemNanoMat</i> , 2019 , 5, 1267-1271	3.5	9
73	The Role of Halogenative Stress in Atherogenic Modification of Low-Density Lipoproteins. <i>Biochemistry (Moscow)</i> , 2020 , 85, S34-S55	2.9	8
72	Functional link between ferroxidase activity of ceruloplasmin and protective effect of apo-lactoferrin: studying rats kept on a silver chloride diet. <i>BioMetals</i> , 2016 , 29, 691-704	3.4	8
71	High-resolution atomic force microscopy visualization of metalloproteins and their complexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2862-2868	4	8

70	Comparison of Interaction between Ceruloplasmin and Lactoferrin/Transferrin: to Bind or Not to Bind. <i>Biochemistry (Moscow)</i> , 2017 , 82, 1073-1078	2.9	7
69	Effects of recombinant human lactoferrin on calcium signaling and functional responses of human neutrophils. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 675, 108122	4.1	7
68	Peroxidase-induced degradation of single-walled carbon nanotubes: hypochlorite is a major oxidant capable of in vivo degradation of carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2011 , 291, 012058	0.3	7
67	The biodegradation of fullerene C by myeloperoxidase. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 471, 417-420	0.8	7
66	Ceruloplasmin-derived peptide is the strongest regulator of oxidative stress and leukotriene synthesis in neutrophils. <i>Biochemistry and Cell Biology</i> , 2017 , 95, 445-449	3.6	6
65	Binding of Coagulation Factor XIII Zymogen to Activated Platelet Subpopulations: Roles of Integrin α IIb β 3 and Fibrinogen. <i>Thrombosis and Haemostasis</i> , 2019 , 119, 906-915	7	6
64	Capacity of ceruloplasmin to scavenge products of the respiratory burst of neutrophils is not altered by the products of reactions catalyzed by myeloperoxidase. <i>Biochemistry and Cell Biology</i> , 2018 , 96, 457-467	3.6	6
63	Biochemical and biological activity of arginine deiminase from <i>Streptococcus pyogenes</i> M22. <i>Biochemistry and Cell Biology</i> , 2016 , 94, 129-37	3.6	6
62	Human serum albumin modified under oxidative/halogenative stress enhances luminol-dependent chemiluminescence of human neutrophils. <i>Biophysics (Russian Federation)</i> , 2013 , 58, 530-536	0.7	6
61	A serine protease secreted from <i>Bacillus subtilis</i> cleaves human plasma transthyretin to generate an amyloidogenic fragment. <i>Communications Biology</i> , 2020 , 3, 764	6.7	6
60	Effect of alpha-lactalbumin and lactoferrin oleic acid complexes on chromatin structural organization. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 520, 136-139	3.4	5
59	Functionalization of single-walled carbon nanotubes regulates their effect on hemostasis. <i>Journal of Physics: Conference Series</i> , 2011 , 291, 012054	0.3	5
58	The effects of antioxidants and hypohalous acid scavengers on neutrophil activation by hypochlorous acid-modified low-density lipoproteins. <i>Biophysics (Russian Federation)</i> , 2016 , 61, 420-428	0.7	5
57	A study of recombinant human lactoferrin secreted in milk of transgenic mice. <i>Doklady Biochemistry and Biophysics</i> , 2006 , 411, 336-8	0.8	4
56	Degradation of fullerene C60 by human myeloperoxidase and some reaction products. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 196-201	1.8	4
55	The effect of myeloperoxidase isoforms on biophysical properties of red blood cells. <i>Molecular and Cellular Biochemistry</i> , 2020 , 464, 119-130	4.2	4
54	Role of arginine deiminase in thymic atrophy during experimental <i>Streptococcus pyogenes</i> infection. <i>Scandinavian Journal of Immunology</i> , 2019 , 89, e12734	3.4	4
53	Enzymatic and bactericidal activity of myeloperoxidase in conditions of halogenative stress. <i>Biochemistry and Cell Biology</i> , 2018 , 96, 580-591	3.6	3

52	Structural Study of the Complex Formed by Ceruloplasmin and Macrophage Migration Inhibitory Factor. <i>Biochemistry (Moscow)</i> , 2018 , 83, 701-707	2.9	3
51	Potential role of lactoferrin in early diagnostics and treatment of Parkinson disease. <i>Meditinskii Akademicheskii Zhurnal</i> , 2020 , 20, 37-44	0.3	3
50	Stochastics of Degradation: The Autophagic-Lysosomal System of the Cell. <i>Acta Naturae</i> , 2020 , 12, 18-32.1	2.1	3
49	Photonic toolbox for fast real-time polymerase chain reaction. <i>Laser Physics Letters</i> , 2020 , 17, 076202	1.5	3
48	Depth of the Maximum of Extensive Air Showers (EASes) and the Mean Mass Composition of Primary Cosmic Rays in the 1015–1018 eV Range of Energies, According to Data from the TUNKA-133 and TAIGA-HiSCORE Arrays for Detecting EAS Cherenkov Light in the Tunkinsk Valley. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021 , 85, 395-397	0.4	3
47	Binding of lactoferrin to the surface of low-density lipoproteins modified by myeloperoxidase prevents intracellular cholesterol accumulation by human blood monocytes. <i>Biochemistry and Cell Biology</i> , 2021 , 99, 109-116	3.6	3
46	Neutrophils as a Source of Factors Increasing Duration of the Inflammatory Phase of Wound Healing in Patients with Type 2 Diabetes Mellitus. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2019 , 13, 68-73	0.4	2
45	The Production of Reactive Oxygen and Halogen Species by Neutrophils in Response to Monomeric Forms of Myeloperoxidase. <i>Biophysics (Russian Federation)</i> , 2017 , 62, 919-925	0.7	2
44	Information: Concept, categories, and ambivalent nature. Philosophical essays. <i>Scientific and Technical Information Processing</i> , 2010 , 37, 102-114	0.8	2
43	Ontology of information. Philosophical essays. <i>Scientific and Technical Information Processing</i> , 2010 , 37, 149-171	0.8	2
42	EFFECT OF ARGININE DEIMINASE FROM STREPTOCOCCUS PYOGENES ON CYTOSKELETON STRUCTURE AND MIGRATION ACTIVITY OF HUMAN ENDOTHELIAL CELLS. <i>Medical Immunology (Russia)</i> , 2017 , 19, 521-528	0.5	2
41	Mucin adsorbed by E. coli can affect neutrophil activation in vitro. <i>FEBS Open Bio</i> , 2020 , 10, 180-196	2.7	2
40	The Mechanisms of L-Arginine Metabolism Disorder in Endothelial Cells. <i>Biochemistry (Moscow)</i> , 2021 , 86, 146-155	2.9	2
39	Epitope specificity of two anti-morphine monoclonal antibodies: In vitro and in silico studies. <i>Journal of Molecular Recognition</i> , 2020 , 33, e2846	2.6	1
38	Oxidation of cysteine by ceruloplasmin leads to formation of hydrogen peroxide, which can be utilized by myeloperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 503, 2146-2151	3.4	1
37	Enzymatic and Bactericidal Activity of Monomeric and Dimeric Forms of Myeloperoxidase. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2018 , 12, 258-265	0.4	1
36	Analysis of the Morphological Signs of an Inflammatory Reaction in the Spinal Cord of Wistar Rats in an Experimental Model. <i>Neuroscience and Behavioral Physiology</i> , 2012 , 42, 43-47	0.3	1
35	Interaction between reactive oxygen species and gallicyanine under neutrophil activation 2020 , 63, 730-735	0.2	1

34	THE ROLE OF ARGININE DEIMINASE FROM STREPTOCOCCUS PYOGENES IN INHIBITION MACROPHAGES NITROGEN MONOXIDE (NO) SYNTHESIS. <i>Russian Journal of Infection and Immunity</i> , 2018 , 8, 211-218	0.4	1
33	Ex vivo observation of granulocyte activity during thrombus formation		1
32	Effect of Alpha-Lactalbumin and Lactoferrin Oleic Acid Complexes on Chromatin Structural Organization		1
31	Detecting Gamma Rays with Energies Greater than 30 MeV from the Crab Nebula and Blazar Markarian 421 by Imaging Atmospheric Cherenkov Telescopes in the TAIGA Experiment. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021 , 85, 398-401	0.4	1
30	Ex vivo observation of granulocyte activity during thrombus formation.. <i>BMC Biology</i> , 2022 , 20, 32	7.3	0
29	Copper-Induced Oligomerization of Ceruloplasmin. <i>Crystallography Reports</i> , 2021 , 66, 828-832	0.6	0
28	Physicochemical properties of lactoferrin under oxidative/halogenative stress 2019 , 63, 189-197	0.2	0
27	First Results from Operating a Prototype Wide-Angle Telescope for the TAIGA Installation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021 , 85, 408-411	0.4	0
26	Protective Role of Hydrolysate in Lipopolysaccharide-Galactosamine Acute Liver Injury. <i>Frontiers in Pharmacology</i> , 2021 , 12, 667572	5.6	0
25	Myeloperoxidase/high-density lipoprotein cholesterol ratio in patients with arterial hypertension and chronic coronary heart disease. <i>Meditinskii Akademicheskii Zhurnal</i> , 2021 , 21, 75-86	0.3	0
24	Search for Astrophysical Nanosecond Optical Transients with TAIGA-HISCORE Array. <i>Physics of Atomic Nuclei</i> , 2021 , 84, 1037-1044	0.4	0
23	Expression of Recombinant LDLR-GFP Fusion Protein in HEK-293 Cells as a Promising Tool to Assess the Effect of LDLR Gene Mutations. <i>Cell and Tissue Biology</i> , 2018 , 12, 153-159	0.4	
22	Small-Angle X-ray Scattering Study of Macrophage Migration Inhibitory Factor Complexed with Albumin. <i>Crystallography Reports</i> , 2018 , 63, 589-593	0.6	
21	Nanoparticles as friction modifiers during mechanical treatment. <i>Russian Metallurgy (Metally)</i> , 2015 , 2015, 1076-1081	0.5	
20	Application of copper nanoparticles as additions to a grinding fluid to increase the quality of grinding of magnetic ceramic materials. <i>Russian Metallurgy (Metally)</i> , 2015 , 2015, 1110-1116	0.5	
19	Increased myeloperoxidase activity is a risk factor for ischemic heart disease in patients with diabetes mellitus. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2011 , 5, 307-312	0.4	
18	Current trends and prospects of development of biofeedback hardware. <i>Bio-Medical Engineering</i> , 2007 , 41, 183-185	0.5	
17	Effects of opioid peptides on the development of ischemic cardiac arrhythmias under conditions of partial sympathetic denervation and laser irradiation. <i>Bulletin of Experimental Biology and Medicine</i> , 1999 , 127, 338-340	0.8	

16	Analysis of concentration and activity of proteins involved in iron metabolism in rats with streptozotocin-induced hyperglycemia. <i>Meditinskii Akademicheskii Zhurnal</i> , 2019 , 19, 93-102	0.3
15	Prediction of complications of chronic duodenal ulcer using the method of determining the ratio of the level of melatonin receptors in the mucosa. <i>Vestnik Khirurgii Imeni I I Grekova</i> , 2020 , 179, 17-21	0.2
14	Role of troponin I in choice of surgical approach after coronary artery bypass grafting (according to AMIRI-CABG Trial). <i>Regional Blood Circulation and Microcirculation</i> , 2020 , 19, 20-28	0.3
13	Application of Celestine Blue B and Galloyanine for Studying the Effect of Drugs on the Production of Reactive Oxygen and Halogen Species by Neutrophils. <i>Journal of Applied Spectroscopy</i> , 2020 , 87, 693-700	0.7
12	Prognostic value of troponin I after coronary artery bypass grafting (AMIRI-CABG study). <i>Vestnik Transplantologii I Iskusstvennykh Organov</i> , 2021 , 23, 91-100	0.3
11	Iron Content and Cellular Proliferation in Thymus and Spleen of Hepatoma 22A Bearing Mice. <i>Cell and Tissue Biology</i> , 2021 , 15, 393-401	0.4
10	Plasma myeloperoxidase activity as a criterion of therapeutic effectiveness for patients with cardiovascular diseases. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2016 , 10, 173-179	0.4
9	Galloyanine as a Fluorogen for the Identification of NADPH-Dependent Production of Superoxide Anion Radical by Blood Cells. <i>Russian Journal of Bioorganic Chemistry</i> , 2021 , 47, 299-306	1
8	Preliminary X-ray Diffraction Study of Macrophage Migration Inhibitory Factor at Near-Atomic Resolution. <i>Crystallography Reports</i> , 2018 , 63, 951-954	0.6
7	Myeloperoxidase Exocytosis from Activated Neutrophils in the Presence of Heparin. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2018 , 12, 136-142	0.4
6	Interaction Study of Different Forms of Human Recombinant Anti-Mullerian Hormone with a Chimeric Analogue of the AMH Type II Receptor. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2021 , 15, 232-240	0.4
5	Autotolerant ceruloplasmin based biocathodes for implanted biological power sources. <i>Bioelectrochemistry</i> , 2021 , 140, 107794	5.6
4	Astroclimate of the High Mountain Plains of the Greater Altai, According to Satellite Remote Sensing Data: Potential for Deploying a Full-Scale Gamma Astronomy Experiment. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2022 , 86, 370-373	0.4
3	Status and First Results of TAIGA. <i>Physics of Atomic Nuclei</i> , 2021 , 84, 1045-1052	0.4
2	Cosmic Ray Study at the Astrophysical Complex TAIGA: Results and Plans. <i>Physics of Atomic Nuclei</i> , 2021 , 84, 966-974	0.4
1	Influence of new antimicrobial peptides of the medicinal leech <i>Hirudo medicinalis</i> on the functional activity of neutrophil granule proteins. <i>Meditinskii Akademicheskii Zhurnal</i> , 2021 , 21, 49-62	0.3