

# Anatoly F Vanin

## List of Publications by Citations

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188  
papers

5,488  
citations

43  
h-index

68  
g-index

193  
ext. papers

5,819  
ext. citations

3  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
188	Nitrite as regulator of hypoxic signaling in mammalian physiology. <i>Medicinal Research Reviews</i> , <b>2009</b> , 29, 683-741	14.4	332
187	S-nitrosation of serum albumin by dinitrosyl-iron complex. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 29244-9	5.4	212
186	Dinitrosyl iron complexes with thiolate ligands: physico-chemistry, biochemistry and physiology. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2009</b> , 21, 1-13	5	180
185	Beneficial effect of gaseous nitric oxide on the healing of skin wounds. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2005</b> , 12, 210-9	5	170
184	Iron catalyzes both decomposition and synthesis of S-nitrosothiols: optical and electron paramagnetic resonance studies. <i>Nitric Oxide - Biology and Chemistry</i> , <b>1997</b> , 1, 191-203	5	160
183	On-line detection of nitric oxide formation in liquid aqueous phase by electron paramagnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , <b>1991</b> , 199, 142-6	3.1	160
182	The potent vasodilating and guanylyl cyclase activating dinitrosyl-iron(II) complex is stored in a protein-bound form in vascular tissue and is released by thiols. <i>FEBS Letters</i> , <b>1991</b> , 294, 252-6	3.8	140
181	Nitric oxide promotes seizure activity in kainate-treated rats. <i>NeuroReport</i> , <b>1994</b> , 5, 2325-8	1.7	129
180	Nitric oxide synthase reduces nitrite to NO under anoxia. <i>Cellular and Molecular Life Sciences</i> , <b>2007</b> , 64, 96-103	10.3	127
179	Endothelium-derived relaxing factor is a nitrosyl iron complex with thiol ligands. <i>FEBS Letters</i> , <b>1991</b> , 289, 1-3	3.8	110
178	The 2.03 signal as an indicator of dinitrosyl-iron complexes with thiol-containing ligands. <i>Nitric Oxide - Biology and Chemistry</i> , <b>1998</b> , 2, 224-34	5	97
177	Similarity between the vasorelaxing activity of dinitrosyl iron cysteine complexes and endothelium-derived relaxing factor. <i>European Journal of Pharmacology</i> , <b>1992</b> , 211, 313-7	5.3	89
176	EPR evidence for nitric oxide production from guanidino nitrogens of L-arginine in animal tissues in vivo. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1992</b> , 1099, 233-7	4.6	88
175	Physical properties of dinitrosyl iron complexes with thiol-containing ligands in relation with their vasodilator activity. <i>BBA - Proteins and Proteomics</i> , <b>1996</b> , 1295, 5-12		85
174	Endogenous superoxide production and the nitrite/nitrate ratio control the concentration of bioavailable free nitric oxide in leaves. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 24100-7	5.4	75
173	Epr evidence of nitric oxide production by the regenerating rat liver. <i>Biochemical and Biophysical Research Communications</i> , <b>1994</b> , 202, 571-6	3.4	75
172	Formation and release of dinitrosyl iron complexes by endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , <b>1993</b> , 196, 1303-8	3.4	74

171	The relationship between L-arginine-dependent nitric oxide synthesis, nitrite release and dinitrosyl-iron complex formation by activated macrophages. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1993</b> , 1177, 37-42	4.9	74
170	Complexes of Fe <sup>2+</sup> with diethyldithiocarbamate or N-methyl-D-glucamine dithiocarbamate as traps of nitric oxide in animal tissues: comparative investigations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1997</b> , 1336, 225-34	4	72
169	Chronic administration of rotenone increases levels of nitric oxide and lipid peroxidation products in rat brain. <i>Experimental Neurology</i> , <b>2004</b> , 186, 235-41	5.7	71
168	The mechanisms of S-nitrosothiol decomposition catalyzed by iron. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2004</b> , 10, 60-73	5	69
167	Iron dithiocarbamate as spin trap for nitric oxide detection: pitfalls and successes. <i>Methods in Enzymology</i> , <b>2002</b> , 359, 27-42	1.7	68
166	Interaction of reactive oxygen and nitrogen species with albumin- and methemoglobin-bound dinitrosyl-iron complexes. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2008</b> , 18, 37-46	5	67
165	Polynuclear water-soluble dinitrosyl iron complexes with cysteine or glutathione ligands: electron paramagnetic resonance and optical studies. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2010</b> , 23, 136-49	5	66
164	The influence of anticonvulsant and antioxidant drugs on nitric oxide level and lipid peroxidation in the rat brain during penthylene-tetrazole-induced epileptiform model seizures. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2003</b> , 27, 487-92	5.5	66
163	Nitric oxide is involved in heat-induced HSP70 accumulation. <i>FEBS Letters</i> , <b>1995</b> , 370, 159-62	3.8	66
162	Nitric oxide donor induces HSP70 accumulation in the heart and in cultured cells. <i>FEBS Letters</i> , <b>1996</b> , 391, 21-3	3.8	64
161	Redox properties of iron-dithiocarbamates and their nitrosyl derivatives: implications for their use as traps of nitric oxide in biological systems. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2000</b> , 1474, 365-77	4	62
160	In vivo nitric oxide transfer of a physiological NO carrier, dinitrosyl dithiolato iron complex, to target complex. <i>Biochemical Pharmacology</i> , <b>2002</b> , 63, 485-93	6	61
159	Hypotensive effect of Oxacom <sup>®</sup> containing a dinitrosyl iron complex with glutathione: animal studies and clinical trials on healthy volunteers. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2012</b> , 26, 148-56	5	60
158	Long-lasting hypotensive action of stable preparations of dinitrosyl-iron complexes with thiol-containing ligands in conscious normotensive and hypertensive rats. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2007</b> , 16, 413-8	5	59
157	Electron paramagnetic resonance spectroscopy with N-methyl-D-glucamine dithiocarbamate iron complexes distinguishes nitric oxide and nitroxyl anion in a redox-dependent manner: applications in identifying nitrogen monoxide products from nitric oxide synthase. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 29, 793-7	7.8	59
156	Dinitrosyl iron complexes with thiol-containing ligands as a "working form" of endogenous nitric oxide. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2016</b> , 54, 15-29	5	58
155	Activation of soluble guanylate cyclase by NO donors--S-nitrosothiols, and dinitrosyl-iron complexes with thiol-containing ligands. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2003</b> , 8, 155-63	5	58
154	Iron diethyldithiocarbamate as spin trap for nitric oxide detection. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 269-79	1.7	51

153	NO-dependent mechanisms of adaptation to hypoxia. <i>Nitric Oxide - Biology and Chemistry</i> , <b>1999</b> , 3, 105-13		51
152	The source of non-heme iron that binds nitric oxide in cultivated macrophages. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1992</b> , 1135, 275-9	4.9	51
151	Gamma-irradiation potentiates L-arginine-dependent nitric oxide formation in mice. <i>Biochemical and Biophysical Research Communications</i> , <b>1992</b> , 186, 1423-8	3.4	50
150	Dinitrosyl-iron complexes with thiol-containing ligands: spatial and electronic structures. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2007</b> , 16, 82-93	5	48
149	Effect of nitroso compounds on Na/K-ATPase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1997</b> , 1321, 243-51	4.6	47
148	Dinitrosyl iron complexes with thiol-containing ligands and apoptosis: studies with HeLa cell cultures. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2011</b> , 24, 151-9	5	44
147	Why iron-dithiocarbamates ensure detection of nitric oxide in cells and tissues. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2006</b> , 15, 295-311	5	43
146	Iron potentiates bacterial lipopolysaccharide-induced nitric oxide formation in animal organs. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1993</b> , 1176, 240-4	4.9	43
145	Vasorelaxing activity of stable powder preparations of dinitrosyl iron complexes with cysteine or glutathione ligands. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2007</b> , 16, 322-30	5	42
144	Evidence that intrinsic iron but not intrinsic copper determines S-nitrosocysteine decomposition in buffer solution. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2002</b> , 7, 194-209	5	42
143	Dinitrosyl iron complexes with glutathione as NO and NO <sup>+</sup> donors. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2013</b> , 29, 4-16	5	41
142	Anti-inflammatory effects of tetrahydrobiopterin on early rejection in renal allografts: modulation of inducible nitric oxide synthase. <i>FASEB Journal</i> , <b>2002</b> , 16, 1135-7	0.9	40
141	Production and storage of nitric oxide in adaptation to hypoxia. <i>Nitric Oxide - Biology and Chemistry</i> , <b>1999</b> , 3, 393-401	5	40
140	Antioxidant capacity of mononitrosyl-iron-dithiocarbamate complexes: implications for NO trapping. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 30, 813-24	7.8	37
139	Quantification of nitric oxide in biological samples by electron spin resonance spectroscopy. <i>Methods</i> , <b>1992</b> , 1, 165-173		37
138	Dinitrosyl iron complexes with thiol-containing ligands and S-nitroso-D,L-penicillamine as inducers of heat shock protein synthesis in H35 hepatoma cells. <i>FEBS Letters</i> , <b>1999</b> , 455, 179-82	3.8	36
137	Nitric oxide and oxidative stress in the brain of rats exposed in utero to cocaine. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1074, 632-42	6.5	34
136	Inhibition of arterial contraction by dinitrosyl-iron complexes: critical role of the thiol ligand in determining rate of nitric oxide (NO) release and formation of releasable NO stores by S-nitrosation. <i>Biochemical Pharmacology</i> , <b>2003</b> , 66, 2365-74	6	33

135	Memory impairments and oxidative stress in the hippocampus of in-utero cocaine-exposed rats. <i>NeuroReport</i> , <b>2005</b> , 16, 1217-21	1.7	33
134	A simple protocol for the synthesis of dinitrosyl iron complexes with glutathione: EPR, optical, chromatographic and biological characterization of reaction products. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2013</b> , 35, 110-5	5	31
133	Protein-bound dinitrosyl-iron complexes appearing in blood of rabbit added with a low-molecular dinitrosyl-iron complex: EPR studies. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2007</b> , 16, 286-93	5	31
132	Induction of the SOS DNA repair response in <i>Escherichia coli</i> by nitric oxide donating agents: dinitrosyl iron complexes with thiol-containing ligands and S-nitrosothiols. <i>FEBS Letters</i> , <b>1999</b> , 454, 177-80 <sup>8</sup>	3.8	31
131	Effect of diethyldithiocarbamate on the activity of nitric oxide-releasing vasodilators. <i>European Journal of Pharmacology</i> , <b>1992</b> , 212, 125-8	5.3	31
130	In vivo distribution and behavior of paramagnetic dinitrosyl dithiolato iron complex in the abdomen of mouse. <i>Free Radical Research</i> , <b>1999</b> , 31, 525-34	4	29
129	Dinitrosyl iron complexes with glutathione incorporated into a collagen matrix as a base for the design of drugs accelerating skin wound healing. <i>European Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 78, 8-18	5.1	28
128	Novel synthetic analogue of ACTH 4-10 (Semax) but not glycine prevents the enhanced nitric oxide generation in cerebral cortex of rats with incomplete global ischemia. <i>Brain Research</i> , <b>2001</b> , 894, 145-9	3.7	28
127	The influence of antioxidants and cycloheximide on the level of nitric oxide in the livers of mice in vivo. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1995</b> , 1269, 19-24	4.9	27
126	Dinitrosyl iron complexes bind with hemoglobin as markers of oxidative stress. <i>Methods in Enzymology</i> , <b>2008</b> , 436, 445-61	1.7	26
125	Activation of the <i>Escherichia coli</i> SoxRS-regulon by nitric oxide and its physiological donors. <i>Biochemistry (Moscow)</i> , <b>2001</b> , 66, 984-8	2.9	26
124	Dinitrosyl iron complexes with glutathione suppress experimental endometriosis in rats. <i>European Journal of Pharmacology</i> , <b>2014</b> , 727, 140-7	5.3	25
123	Intermittent hypoxia conditioning prevents endothelial dysfunction and improves nitric oxide storage in spontaneously hypertensive rats. <i>Experimental Biology and Medicine</i> , <b>2011</b> , 236, 867-73	3.7	24
122	Penile erectile activity of dinitrosyl iron complexes with thiol-containing ligands. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2011</b> , 24, 217-23	5	24
121	Effect of dinitrosyl iron complexes with glutathione on hemorrhagic shock followed by saline treatment. <i>European Journal of Pharmacology</i> , <b>2011</b> , 662, 40-6	5.3	24
120	Estimation of accumulated dose of radiation by the method of ESR-spectrometry of dental enamel of mammals. <i>Applied Radiation and Isotopes</i> , <b>1996</b> , 47, 1321-8	1.7	24
119	The hypotensive effect of the nitric monoxide donor Oxacom at different routes of its administration to experimental animals. <i>European Journal of Pharmacology</i> , <b>2015</b> , 765, 525-32	5.3	23
118	Electronic and spatial structures of water-soluble dinitrosyl iron complexes with thiol-containing ligands underlying their ability to act as nitric oxide and nitrosonium ion donors. <i>Journal of Biophysics</i> , <b>2011</b> , 2011, 878236		23

117	Dinitrosyl iron complexes with thiol ligands promote skin wound healing in animals. <i>Biophysics (Russian Federation)</i> , <b>2007</b> , 52, 515-520	0.7	23
116	Reduction enhances yields of nitric oxide trapping by iron-diethyldithiocarbamate complex in biological systems. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2007</b> , 16, 71-81	5	23
115	On the nature of a compound formed from dinitrosyl-iron complexes with cysteine and responsible for a long-lasting vasorelaxation. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2010</b> , 22, 266-74	5	22
114	Exogenous ferrous iron is required for the nitric oxide-catalysed destruction of the iron-sulphur centre in adrenodoxin. <i>Biochemical Journal</i> , <b>2002</b> , 368, 633-9	3.8	21
113	Interaction of oxoferrylmyoglobin and dinitrosyl-iron complexes. <i>Biochemistry (Moscow)</i> , <b>2004</b> , 69, 569-74	4.9	20
112	Detection of basal NO production in rat tissues using iron-dithiocarbamate complexes. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2008</b> , 18, 279-86	5	19
111	Redox conversions of dinitrosyl iron complexes with natural thiol-containing ligands. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2013</b> , 35, 35-41	5	17
110	Enzymic and nonenzymic release of NO accounts for the vasodilator activity of the metabolites of CAS 936, a novel long-acting sydnonimine derivative. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>1993</b> , 347, 92-100	3.4	17
109	EPR Characterization of Dinitrosyl Iron Complexes with Thiol-Containing Ligands as an Approach to Their Identification in Biological Objects: An Overview. <i>Cell Biochemistry and Biophysics</i> , <b>2018</b> , 76, 3-17	3.2	17
108	EPR Detection and Biological Implications of Nitrosyl Nonheme Iron Complexes <b>1998</b> , 49-82		17
107	What is the Mechanism of Nitric Oxide Conversion into Nitrosonium Ions Ensuring S-Nitrosating Processes in Living Organisms. <i>Cell Biochemistry and Biophysics</i> , <b>2019</b> , 77, 279-292	3.2	16
106	Physicochemical parameters of NO-containing gas flow affect wound healing therapy. An experimental study. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 128, 193-201	5.1	14
105	Study of plasma-chemical NO-containing gas flow for treatment of wounds and inflammatory processes. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2018</b> , 73, 74-80	5	14
104	Adaptation to hypoxia prevents disturbances in cerebral blood flow during neurodegenerative process. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2006</b> , 142, 169-72	0.8	14
103	Studies on the conformational changes of metalloproteins induced by electrons in water-ethylene glycol solutions at low temperatures. III. Adrenal ferredoxin. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , <b>1975</b> , 379, 512-6		14
102	Dinitrosyl iron complexes with natural thiol-containing ligands in aqueous solutions: Synthesis and some physico-chemical characteristics (A methodological review). <i>Nitric Oxide - Biology and Chemistry</i> , <b>2017</b> , 66, 1-9	5	13
101	The effect of dinitrosyl iron complexes with glutathione and S-nitrosoglutathione on the development of experimental endometriosis in rats: a comparative studies. <i>European Journal of Pharmacology</i> , <b>2014</b> , 741, 37-44	5.3	13
100	Derivatives of benzotetrazine-1,3-dioxide are new NO-donors, activators of soluble guanylate cyclase, and inhibitors of platelet aggregation. <i>Biochemistry (Moscow)</i> , <b>2002</b> , 67, 329-34	2.9	13

99	Detection and description of various stores of nitric oxide store in vascular wall. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2003</b> , 136, 226-30	0.8	13
98	Biotransformation of sodium nitroprusside into dinitrosyl iron complexes in tissue of ascites tumors of mice. <i>Biochemical and Biophysical Research Communications</i> , <b>1994</b> , 202, 168-73	3.4	13
97	Antitumor activity of dinitrosyl iron complexes with glutathione. <i>Biophysics (Russian Federation)</i> , <b>2014</b> , 59, 415-419	0.7	12
96	Accumulation of magnetic nanoparticles in plants grown on soils of Apsheron peninsula. <i>Biophysics (Russian Federation)</i> , <b>2011</b> , 56, 316-322	0.7	12
95	The relation between sphingomyelinase activity, lipid peroxide oxidation and NO-releasing in mice liver and brain. <i>FEBS Letters</i> , <b>2005</b> , 579, 5571-6	3.8	12
94	Redox activities of mono- and binuclear forms of low-molecular and protein-bound dinitrosyl iron complexes with thiol-containing ligands. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2014</b> , 40, 100-9	5	11
93	The antitumor activity of the S-nitrosoglutathione and dinitrosyl iron complex with glutathione: Comparative studies. <i>Biophysics (Russian Federation)</i> , <b>2015</b> , 60, 963-969	0.7	11
92	The Inhibiting Effect of Dinitrosyl Iron Complexes with Thiol-containing Ligands on the Growth of Endometrioid Tumours in Rats with Experimental Endometriosis. <i>Cell Biochemistry and Biophysics</i> , <b>2019</b> , 77, 69-77	3.2	10
91	Protective Effect of Dinitrosyl Iron Complexes with Glutathione in Red Blood Cell Lysis Induced by Hypochlorous Acid. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 2798154	6.7	10
90	An antinitrosative system as a factor in malignant tumor resistance to the cytotoxic effect of nitrogen monoxide. <i>Biophysics (Russian Federation)</i> , <b>2015</b> , 60, 121-125	0.7	10
89	Dinitrosyl Iron Complexes with Natural Thiol-Containing Ligands: Physicochemistry, Biology, and Medicine <b>2014</b> , 203-238		10
88	Interaction of the nitric oxide signaling system with the sphingomyelin cycle and peroxidation on transmission of toxic signal of tumor necrosis factor- $\alpha$ in ischemia-reperfusion. <i>Biochemistry (Moscow)</i> , <b>2011</b> , 76, 1197-209	2.9	10
87	The interaction between dinitrosyl iron complexes and intermediates of oxidative stress. <i>Biophysics (Russian Federation)</i> , <b>2006</b> , 51, 423-428	0.7	10
86	Can summary nitrite+nitrate content serve as an indicator of NO synthesis intensity in body tissues?. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2012</b> , 153, 839-42	0.8	9
85	Regulation of the functional and mechanical properties of platelet and red blood cells by nitric oxide donors. <i>Biophysics (Russian Federation)</i> , <b>2011</b> , 56, 237-242	0.7	9
84	Detection of nitrite and nitrosocompounds in chemical systems and biological liquids by the calorimetric method. <i>Biophysics (Russian Federation)</i> , <b>2010</b> , 55, 77-86	0.7	9
83	Determination of in vivo nitric oxide levels in animal tissues using a novel spin trapping technology. <i>Methods in Molecular Biology</i> , <b>2011</b> , 704, 135-49	1.4	9
82	DNICs: physico-chemical properties and their observations in cells and tissues <b>2007</b> , 19-73		9

81	7-nitroindazole, nNOS inhibitor, attenuates amphetamine-induced amino acid release and nitric oxide generation but not lipid peroxidation in the rat brain. <i>Journal of Neural Transmission</i> , <b>2005</b> , 112, 779-88	4.3	9
80	Dinitrosyl iron complexes with cysteine suppress the development of experimental endometriosis in rats. <i>Biophysics (Russian Federation)</i> , <b>2012</b> , 57, 87-89	0.7	8
79	Dinitrosyl iron complexes with glutathione largely relieve rats of experimental endometriosis. <i>Biophysics (Russian Federation)</i> , <b>2013</b> , 58, 222-227	0.7	8
78	Antagonist of M1 muscarinic acetylcholine receptor prevents neurotoxicity induced by amphetamine via nitric oxide pathway. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1139, 172-6	6.5	8
77	The binuclear form of dinitrosyl iron complexes with thiol-containing ligands in animal tissues. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2017</b> , 62, 1-10	5	7
76	Prospects of designing medicines with diverse therapeutic activity on the basis of dinitrosyl iron complexes with thiol-containing ligands. <i>Biophysics (Russian Federation)</i> , <b>2011</b> , 56, 268-275	0.7	7
75	Protective effect of dinitrosyl-iron complexes with glutathione in rat myocardial regional ischemia: a microdialysis assay study. <i>Doklady Biochemistry and Biophysics</i> , <b>2010</b> , 432, 106-9	0.8	7
74	Beneficial effect of dinitrosyl iron complexes with thiol ligands on the rat penile cavernous bodies. <i>Biophysics (Russian Federation)</i> , <b>2008</b> , 53, 153-157	0.7	7
73	Estimation of nitric oxide level in vivo by microdialysis with water-soluble iron-N-methyl-D-dithiocarbamate complexes as NO traps: a novel approach to nitric oxide spin trapping in animal tissues. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2008</b> , 19, 338-44	5	7
72	Mechanism of adaptation of the vascular system to chronic changes in nitric oxide level in the organism. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2006</b> , 142, 670-4	0.8	7
71	Genetic signal transduction by nitrosyl-iron complexes in Escherichia coli. <i>Biochemistry (Moscow)</i> , <b>2004</b> , 69, 883-9	2.9	7
70	NO spin trapping in biological systems. <i>Frontiers in Bioscience - Landmark</i> , <b>2009</b> , 14, 4427-35	2.8	7
69	Comparative effects of NO-synthase inhibitor and NMDA antagonist on generation of nitric oxide and release of amino acids and acetylcholine in the rat brain elicited by amphetamine neurotoxicity. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1025, 221-30	6.5	6
68	Nitric oxide initiates iron binding to neocuproine. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2001</b> , 5, 166-75	5	6
67	Nitrosonium Ions as Constituents of Dinitrosyl Iron Complexes with Glutathione Responsible for their S-Nitrosating Activity. <i>Interdisciplinary Journal of Microinflammation</i> , <b>2018</b> , 5,	0	6
66	EPR Characterization of Mononuclear Dinitrosyl Iron Complex with Persulfide as a New Representative of Dinitrosyl Iron Complexes in Biological Systems: an Overview. <i>Applied Magnetic Resonance</i> , <b>2014</b> , 45, 375-387	0.8	5
65	Asymmetry within the Fe(NO) <sub>2</sub> moiety of dithiolate dinitrosyl iron complexes. <i>Inorganica Chimica Acta</i> , <b>2014</b> , 418, 42-50	2.7	5
64	Mono- and binuclear dinitrosyl iron complexes with thiol-containing ligands in various biosystems. <i>Biophysics (Russian Federation)</i> , <b>2015</b> , 60, 603-612	0.7	5



63	Autowave distribution of nitric oxide and its endogenous derivatives in biosystems strongly enhances their biological effects: A working hypothesis. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2010</b> , 23, 175-80	5	5
62	Reversible NO-catalyzed destruction of the Fe-S cluster of the FNR[4Fe-4S] <sup>2+</sup> transcription factor: a way to regulate the aidB gene activity in Escherichia coli cells cultured under anaerobic conditions. <i>Doklady Biochemistry and Biophysics</i> , <b>2010</b> , 435, 283-6	0.8	5
61	Antioxidant and prooxidant action of nitric oxide donors and metabolites. <i>Biophysics (Russian Federation)</i> , <b>2007</b> , 52, 315-321	0.7	5
60	Formation and role of nitric oxide stores in adaptation to hypoxia. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 578, 35-40	3.6	5
59	NO trapping in biological systems with a functionalized zeolite network. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2006</b> , 15, 233-40	5	5
58	Dizocilpine inhibits amphetamine-induced formation of nitric oxide and amphetamine-induced release of amino acids and acetylcholine in the rat brain. <i>Neurochemical Research</i> , <b>2002</b> , 27, 229-35	4.6	5
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