Anatoly F Vanin

List of Publications by Year
in descending order

188	6,277	53660 45	79541 73
papers	citations	h-index	g-index

193	193	193	3545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrite as regulator of hypoxic signaling in mammalian physiology. Medicinal Research Reviews, 2009, 29, 683-741.	5.0	373
2	S-Nitrosation of Serum Albumin by Dinitrosyl-Iron Complex. Journal of Biological Chemistry, 1995, 270, 29244-29249.	1.6	233
3	Beneficial effect of gaseous nitric oxide on the healing of skin wounds. Nitric Oxide - Biology and Chemistry, 2005, 12, 210-219.	1.2	206
4	Dinitrosyl iron complexes with thiolate ligands: Physico-chemistry, biochemistry and physiology. Nitric Oxide - Biology and Chemistry, 2009, 21, 1-13.	1.2	195
5	On-line detection of nitric oxide formation in liquid aqueous phase by electron paramagnetic resonance spectroscopy. Analytical Biochemistry, 1991, 199, 142-146.	1.1	175
6	Iron Catalyzes both Decomposition and Synthesis ofS-Nitrosothiols: Optical and Electron Paramagnetic Resonance Studies. Nitric Oxide - Biology and Chemistry, 1997, 1, 191-203.	1.2	170
7	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. FEBS Letters, 1991, 294, 252-256.	1.3	153
8	Nitric oxide synthase reduces nitrite to NO under anoxia. Cellular and Molecular Life Sciences, 2007, 64, 96-103.	2.4	143
9	Nitric oxide promotes seizure activity in kainate-treated rats. NeuroReport, 1994, 5, 2325-2328.	0.6	138
10	Endothelium-derived relaxing factor is a nitrosyl iron complex with thiol ligands. FEBS Letters, 1991, 289, 1-3.	1.3	128
11	The 2.03 Signal as an Indicator of Dinitrosylâ€“Iron Complexes with Thiol-Containing Ligands. Nitric Oxide - Biology and Chemistry, 1998, 2, 224-234.	1.2	111
12	EPR evidence for nitric oxide production from guanidino nitrogens of l-arginine in animal tissues in vivo. Biochimica Et Biophysica Acta - Bioenergetics, 1992, 1099, 233-237.	0.5	99
13	Similarity between the vasorelaxing activity of dinitrosyl iron cysteine complexes and endothelium-derived relaxing factor. European Journal of Pharmacology, 1992, 211, 313-317.	1.7	99
14	Chronic administration of rotenone increases levels of nitric oxide and lipid peroxidation products in rat brain. Experimental Neurology, 2004, 186, 235-241.	2.0	93
15	Physical properties of dinitrosyl iron complexes with thiol-containing ligands in relation with their vasodilator activity. BBA - Proteins and Proteomics, 1996, 1295, 5-12.	2.1	87
16	Endogenous Superoxide Production and the Nitrite/Nitrate Ratio Control the Concentration of Bioavailable Free Nitric Oxide in Leaves. Journal of Biological Chemistry, 2004, 279, 24100-24107.	1.6	86
17	Complexes of Fe2+ with diethyldithiocarbamate or N-methyl-d-glucamine dithiocarbamate as traps of nitric oxide in animal tissues: comparative investigations. Biochimica Et Biophysica Acta - General Subjects, 1997, 1336, 225-234.	1.1	85
18	EPR Evidence of Nitric Oxide Production by the Regenerating Rat Liver. Biochemical and Biophysical Research Communications, 1994, 202, 571-576.	1.0	84

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19	The influence of anticonvulsant and antioxidant drugs on nitric oxide level and lipid peroxidation in the rat brain during penthylenetetrazole-induced epileptiform model seizures. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2003, 27, 487-492.	2.5	83
20	Polynuclear water-soluble dinitrosyl iron complexes with cysteine or glutathione ligands: Electron paramagnetic resonance and optical studies. Nitric Oxide - Biology and Chemistry, 2010, 23, 136-149.	1.2	83
21	The relationship between l-arginine-dependent nitric oxide synthesis, nitrite release and dinitrosyl-iron complex formation by activated macrophages. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1177, 37-42.	1.9	82
22	Nitric oxide is involved in heat-induced HSP70 accumulation. FEBS Letters, 1995, 370, 159-162.	1.3	81
23	Dinitrosyl iron complexes with thiol-containing ligands as a â€œworking formâ€•of endogenous nitric oxide. Nitric Oxide - Biology and Chemistry, 2016, 54, 15-29.	1.2	80
24	Interaction of reactive oxygen and nitrogen species with albumin- and methemoglobin-bound dinitrosyl-iron complexes. Nitric Oxide - Biology and Chemistry, 2008, 18, 37-46.	1.2	79
25	Formation and Release of Dinitrosyl Iron Complexes by Endothelial Cells. Biochemical and Biophysical Research Communications, 1993, 196, 1303-1308.	1.0	76
26	Nitric oxide donor induces HSP70 accumulation in the heart and in cultured cells. FEBS Letters, 1996, 391, 21-23.	1.3	74
27	The mechanisms of S-nitrosothiol decomposition catalyzed by iron. Nitric Oxide - Biology and Chemistry, 2004, 10, 60-73.	1.2	73
28	Iron dithiocarbamate as spin trap for nitric oxide detection: Pitfalls and successes. Methods in Enzymology, 2002, 359, 27-42.	0.4	72
29	Redox properties of ironâ€“dithiocarbamates and their nitrosyl derivatives: implications for their use as traps of nitric oxide in biological systems. Biochimica Et Biophysica Acta - General Subjects, 2000, 1474, 365-377.	1.1	70
30	In vivo nitric oxide transfer of a physiological NO carrier, dinitrosyl dithiolato iron complex, to target complex. Biochemical Pharmacology, 2002, 63, 485-493.	2.0	67
31	Hypotensive effect of OxacomÂ® containing a dinitrosyl iron complex with glutathione: Animal studies and clinical trials on healthy volunteers. Nitric Oxide - Biology and Chemistry, 2012, 26, 148-156.	1.2	67
32	Activation of soluble guanylate cyclase by NO donorsâ€”S-nitrosothiols, and dinitrosyl-iron complexes with thiol-containing ligands. Nitric Oxide - Biology and Chemistry, 2003, 8, 155-163.	1.2	65
33	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. Free Radical Biology and Medicine, 2000, 29, 793-797.	1.3	64
34	Long-lasting hypotensive action of stable preparations of dinitrosyl-iron complexes with thiol-containing ligands in conscious normotensive and hypertensive rats. Nitric Oxide - Biology and Chemistry, 2007, 16, 413-418.	1.2	63
35	[29] Iron diethyldithiocarbamate as spin trap for nitric oxide detection. Methods in Enzymology, 1999, 301, 269-279.	0.4	62
36	Gamma-irradiation potentiates L-arginine-dependent nitric oxide formation in mice. Biochemical and Biophysical Research Communications, 1992, 186, 1423-1428.	1.0	55

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37	The source of non-heme iron that binds nitric oxide in cultivated macrophages. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1135, 275-279.	1.9	54
38	NO-Dependent Mechanisms of Adaptation to Hypoxia. Nitric Oxide - Biology and Chemistry, 1999, 3, 105-113.	1.2	54
39	Iron potentiates bacterial lipopolysaccharide-induced nitric oxide formation in animal organs. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1176, 240-244.	1.9	51
40	Effect of nitroso compounds on Na/K-ATPase. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1321, 243-251.	0.5	51
41	Dinitrosyl iron complexes with glutathione as NO and NO+ donors. Nitric Oxide - Biology and Chemistry, 2013, 29, 4-16.	1.2	50
42	Dinitrosylâ€“iron complexes with thiol-containing ligands: Spatial and electronic structures. Nitric Oxide - Biology and Chemistry, 2007, 16, 82-93.	1.2	49
43	Antiâ€inflammatory effects of tetrahydrobiopterin on early rejection in renal allografts: modulation of inducible nitric oxide synthase. FASEB Journal, 2002, 16, 1135-1137.	0.2	48
44	Dinitrosyl iron complexes with thiol-containing ligands and apoptosis: Studies with HeLa cell cultures. Nitric Oxide - Biology and Chemistry, 2011, 24, 151-159.	1.2	47
45	Production and Storage of Nitric Oxide in Adaptation to Hypoxia. Nitric Oxide - Biology and Chemistry, 1999, 3, 393-401.	1.2	46
46	Vasorelaxing activity of stable powder preparations of dinitrosyl iron complexes with cysteine or glutathione ligands. Nitric Oxide - Biology and Chemistry, 2007, 16, 322-330.	1.2	46
47	Quantification of nitric oxide in biological samples by electron spin resonance spectroscopy. Methods, 1992, 1, 165-173.	0.5	45
48	Why ironâ€“dithiocarbamates ensure detection of nitric oxide in cells and tissues. Nitric Oxide - Biology and Chemistry, 2006, 15, 295-311.	1.2	45
49	Dinitrosyl Iron Complexes Bind with Hemoglobin as Markers of Oxidative Stress. Methods in Enzymology, 2008, 436, 445-461.	0.4	44
50	Antioxidant capacity of mononitrosyl-iron-dithiocarbamate complexes: implications for NO trapping. Free Radical Biology and Medicine, 2001, 30, 813-824.	1.3	42
51	Evidence that intrinsic iron but not intrinsic copper determines S-nitrosocysteine decomposition in buffer solution. Nitric Oxide - Biology and Chemistry, 2002, 7, 194-209.	1.2	42
52	Dinitrosyl iron complexes with thiol-containing ligands and S -nitroso-D,L -penicillamine as inductors of heat shock protein synthesis in H35 hepatoma cells. FEBS Letters, 1999, 455, 179-182.	1.3	36
53	Inhibition of arterial contraction by dinitrosylâ€“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. Biochemical Pharmacology, 2003, 66, 2365-2374.	2.0	35
54	Nitric Oxide and Oxidative Stress in the Brain of Rats Exposed In Utero to Cocaine. Annals of the New York Academy of Sciences, 2006, 1074, 632-642.	1.8	35

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55	A simple protocol for the synthesis of dinitrosyl iron complexes with glutathione: EPR, optical, chromatographic and biological characterization of reaction products. Nitric Oxide - Biology and Chemistry, 2013, 35, 110-115.	1.2	35
56	Induction of the SOS DNA repair response in Escherichia coli by nitric oxide donating agents" dinitrosyl iron complexes with thiol-containing ligands and S-nitrosothiols. FEBS Letters, 1999, 454, 177-180.	1.3	34
57	Protein-bound dinitrosylâ€“iron complexes appearing in blood of rabbit added with a low-molecular dinitrosylâ€“iron complex: EPR studies. Nitric Oxide - Biology and Chemistry, 2007, 16, 286-293.	1.2	34
58	Dinitrosyl iron complexes with glutathione incorporated into a collagen matrix as a base for the design of drugs accelerating skin wound healing. European Journal of Pharmaceutical Sciences, 2015, 78, 8-18.	1.9	34
59	The influence of antioxidants and cycloheximide on the level of nitric oxide in the livers of mice in vivo. Biochimica Et Biophysica Acta - Molecular Cell Research, 1995, 1269, 19-24.	1.9	33
60	Memory impairments and oxidative stress in the hippocampus of in-utero cocaine-exposed rats. NeuroReport, 2005, 16, 1217-1221.	0.6	33
61	Effect of diethyldithiocarbamate on the activity of nitric oxide-releasing vasodilators. European Journal of Pharmacology, 1992, 212, 125-128.	1.7	32
62	Novel synthetic analogue of ACTH 4â€“10 (Semax) but not glycine prevents the enhanced nitric oxide generation in cerebral cortex of rats with incomplete global ischemia. Brain Research, 2001, 894, 145-149.	1.1	32
63	What is the Mechanism of Nitric Oxide Conversion into Nitrosonium Ions Ensuring S-Nitrosating Processes in Living Organisms. Cell Biochemistry and Biophysics, 2019, 77, 279-292.	0.9	32
64	In Vivodistribution and behavior of paramagnetic dinitrosyl dithiolato iron complex in the abdomen of mouse. Free Radical Research, 1999, 31, 525-534.	1.5	31
65	Activation of the Escherichia coli SoxRS-regulon by nitric oxide and its physiological donors. Biochemistry (Moscow), 2001, 66, 984-988.	0.7	30
66	The hypotensive effect of the nitric monoxide donor Oxacom at different routs of its administration to experimental animals. European Journal of Pharmacology, 2015, 765, 525-532.	1.7	30
67	Estimation of accumulated dose of radiation by method of ESR-spectrometry of dental enamel of mammals. Applied Radiation and Isotopes, 1996, 47, 1321-1328.	0.7	27
68	Penile erectile activity of dinitrosyl iron complexes with thiol-containing ligands. Nitric Oxide - Biology and Chemistry, 2011, 24, 217-223.	1.2	27
69	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. Journal of Biophysics, 2011, 2011, 1-14.	0.8	27
70	Effect of dinitrosyl iron complexes with glutathione on hemorrhagic shock followed by saline treatment. European Journal of Pharmacology, 2011, 662, 40-46.	1.7	27
71	Dinitrosyl iron complexes with glutathione suppress experimental endometriosis in rats. European Journal of Pharmacology, 2014, 727, 140-147.	1.7	27
72	Reduction enhances yields of nitric oxide trapping by ironâ€“diethyldithiocarbamate complex in biological systems. Nitric Oxide - Biology and Chemistry, 2007, 16, 71-81.	1.2	25

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73	On the nature of a compound formed from dinitrosyl-iron complexes with cysteine and responsible for a long-lasting vasorelaxation. Nitric Oxide - Biology and Chemistry, 2010, 22, 266-274.	1.2	25
74	Intermittent hypoxia conditioning prevents endothelial dysfunction and improves nitric oxide storage in spontaneously hypertensive rats. Experimental Biology and Medicine, 2011, 236, 867-873.	1.1	25
75	Nitrosonium Cation as a Cytotoxic Component of Dinitrosyl Iron Complexes with Thiol-containing Ligands (based on the Experimental Work on MCF7 Human Breast Cancer Cell Culture). Cell Biochemistry and Biophysics, 2021, 79, 93-102.	0.9	25
76	Dinitrosyl iron complexes with thiol ligands promote skin wound healing in animals. Biophysics (Russian Federation), 2007, 52, 515-520.	0.2	24
77	Exogenous ferrous iron is required for the nitric oxide-catalysed destruction of the ironâ€“sulphur centre in adrenodoxin. Biochemical Journal, 2002, 368, 633-639.	1.7	23
78	Interaction of Oxoferrylmyoglobin and Dinitrosyl-Iron Complexes. Biochemistry (Moscow), 2004, 69, 569-574.	0.7	23
79	Detection of basal NO production in rat tissues using ironâ€“dithiocarbamate complexes. Nitric Oxide - Biology and Chemistry, 2008, 18, 279-286.	1.2	23
80	EPR Characterization of Dinitrosyl Iron Complexes with Thiol-Containing Ligands as an Approach to Their Identification in Biological Objects: An Overview. Cell Biochemistry and Biophysics, 2018, 76, 3-17.	0.9	21
81	Physico-Chemistry of Dinitrosyl Iron Complexes as a Determinant of Their Biological Activity. International Journal of Molecular Sciences, 2021, 22, 10356.	1.8	20
82	Enzymic and nonenzymic release of NO accounts for the vasodilator activity of the metabolites of CAS 936, a novel long-acting sydnonimine derivative. Naunyn-Schmiedeberg's Archives of Pharmacology, 1993, 347, 92-100.	1.4	19
83	The relation between sphingomyelinase activity, lipid peroxide oxidation and NO-releasing in mice liver and brain. FEBS Letters, 2005, 579, 5571-5576.	1.3	19
84	EPR Detection and Biological Implications of Nitrosyl Nonheme Iron Complexes. , 1998, , 49-82.		18
85	Adaptation to hypoxia prevents disturbances in cerebral blood flow during neurodegenerative process. Bulletin of Experimental Biology and Medicine, 2006, 142, 169-172.	0.3	17
86	Redox conversions of dinitrosyl iron complexes with natural thiol-containing ligands. Nitric Oxide - Biology and Chemistry, 2013, 35, 35-41.	1.2	17
87	Physicochemical parameters of NO-containing gas flow affect wound healing therapy. An experimental study. European Journal of Pharmaceutical Sciences, 2019, 128, 193-201.	1.9	17
88	Protective Effect of Dinitrosyl Iron Complexes with Glutathione in Red Blood Cell Lysis Induced by Hypochlorous Acid. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-12.	1.9	17
89	The effect of dinitrosyl iron complexes with glutathione and S-nitrosoglutathione on the development of experimental endometriosis in rats: A comparative studies. European Journal of Pharmacology, 2014, 741, 37-44.	1.7	16
90	Dinitrosyl iron complexes with natural thiol-containing ligands in aqueous solutions: Synthesis and some physico-chemical characteristics (A methodological review). Nitric Oxide - Biology and Chemistry, 2017, 66, 1-9.	1.2	16

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91	Study of plasma-chemical NO-containing gas flow for treatment of wounds and inflammatory processes. Nitric Oxide - Biology and Chemistry, 2018, 73, 74-80.	1.2	16
92	Derivatives of benzotetrazine-1,3-dioxide are new NO-donors, activators of soluble guanylate cyclase, and inhibitors of platelet aggregation. Biochemistry (Moscow), 2002, 67, 329-334.	0.7	15
93	The Inhibiting Effect of Dinitrosyl Iron Complexes with Thiol-containing Ligands on the Growth of Endometrioid Tumours in Rats with Experimental Endometriosis. Cell Biochemistry and Biophysics, 2019, 77, 69-77.	0.9	15
94	How is Nitric Oxide (NO) Converted into Nitrosonium Cations (NO+) in Living Organisms? (Based on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Applied Magnetic Resonance, 2020, 51, 851-876.	0.6	15
95	Studies on the conformational changes of metalloproteins induced by electrons in water-ethylene glycol solutions at low temperatures. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1975, 379, 512-516.	1.7	14
96	Detection and Description of Various Stores of Nitric Oxide Store in Vascular Wall. Bulletin of Experimental Biology and Medicine, 2003, 136, 226-230.	0.3	14
97	Biotransformation of Sodium Nitroprusside into Dinitrosyl Iron Complexes in Tissue of Ascites Tumors of Mice. Biochemical and Biophysical Research Communications, 1994, 202, 168-173.	1.0	13
98	Accumulation of magnetic nanoparticles in plants grown on soils of Apsheron peninsula. Biophysics (Russian Federation), 2011, 56, 316-322.	0.2	13
99	The interaction between dinitrosy iron complexes and intermediates of oxidative stress. Biophysics (Russian Federation), 2006, 51, 423-428.	0.2	12
100	Regulation of the functional and mechanical properties of platelet and red blood cells by nitric oxide donors. Biophysics (Russian Federation), 2011, 56, 237-242.	0.2	12
101	Antitumor activity of dinitrosyl iron complexes with glutathione. Biophysics (Russian Federation), 2014, 59, 415-419.	0.2	12
102	Determination of In Vivo Nitric Oxide Levels in Animal Tissues Using a Novel Spin Trapping Technology. Methods in Molecular Biology, 2011, 704, 135-149.	0.4	11
103	Redox activities of mono- and binuclear forms of low-molecular and protein-bound dinitrosyl iron complexes with thiol-containing ligands. Nitric Oxide - Biology and Chemistry, 2014, 40, 100-109.	1.2	11
104	The antitumor activity of the S-nitrosoglutathione and dinitrosyl iron complex with glutathione: Comparative studies. Biophysics (Russian Federation), 2015, 60, 963-969.	0.2	11
105	An antinitrosative system as a factor in malignant tumor resistance to the cytotoxic effect of nitrogen monoxide. Biophysics (Russian Federation), 2015, 60, 121-125.	0.2	11
106	Nitrosonium Ions as Constituents of Dinitrosyl Iron Complexes with Glutathione Responsible for their S-Nitrosating Activity. Interdisciplinary Journal of Microinflammation, 2018, 5, .	0.1	11
107	Antioxidant and prooxidant action of nitric oxide donors and metabolites. Biophysics (Russian) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.2	10
108	Interaction of the nitric oxide signaling system with the Sphingomyelin cycle and Peroxidation on transmission of toxic signal of tumor necrosis factor-Î± in ischemia-reperfusion. Biochemistry (Moscow), 2011, 76, 1197-1209.	0.7	10

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109	Can Summary Nitrite+Nitrate Content Serve as an Indicator of NO Synthesis Intensity in Body Tissues?. Bulletin of Experimental Biology and Medicine, 2012, 153, 840-843.	0.3	10
110	The binuclear form of dinitrosyl iron complexes with thiol-containing ligands in animal tissues. Nitric Oxide - Biology and Chemistry, 2017, 62, 1-10.	1.2	10
111	NO spin trapping in biological systems. Frontiers in Bioscience - Landmark, 2009, Volume, 4427.	3.0	10
112	7-Nitroindazole, nNOS inhibitor, attenuates amphetamine-induced amino acid release and nitric oxide generation but not lipid peroxidation in the rat brain. Journal of Neural Transmission, 2005, 112, 779-788.	1.4	9
113	DNICs: physico-chemical properties and their observations in cells and tissues. , 2007, , 19-73.		9
114	Detection of nitrite and nitrosocompounds in chemical systems and biological liquids by the calorimetric method. Biophysics (Russian Federation), 2010, 55, 77-86.	0.2	9
115	Dinitrosyl iron complexes with glutathione largely relieve rats of experimental endometriosis. Biophysics (Russian Federation), 2013, 58, 222-227.	0.2	9
116	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. Annals of the New York Academy of Sciences, 2004, 1025, 221-230.	1.8	8
117	Antagonist of M1 Muscarinic Acetylcholine Receptor Prevents Neurotoxicity Induced by Amphetamine via Nitric Oxide Pathway. Annals of the New York Academy of Sciences, 2008, 1139, 172-176.	1.8	8
118	Beneficial effect of dinitrosyl iron complexes with thiol ligands on the rat penile cavernous bodies. Biophysics (Russian Federation), 2008, 53, 153-157.	0.2	8
119	Protective effect of dinitrosyl-iron complexes with glutathione in rat myocardial regional ischemia: A microdialysis assay study. Doklady Biochemistry and Biophysics, 2010, 432, 106-109.	0.3	8
120	Prospects of designing medicines with diverse therapeutic activity on the basis of dinitrosyl iron complexes with thiol-containing ligands. Biophysics (Russian Federation), 2011, 56, 268-275.	0.2	8
121	Dinitrosyl iron complexes with cysteine suppress the development of experimental endometriosis in rats. Biophysics (Russian Federation), 2012, 57, 87-89.	0.2	8
122	Dizocilpine inhibits amphetamine-induced formation of nitric oxide and amphetamine-induced release of amino acids and acetylcholine in the rat brain. Neurochemical Research, 2002, 27, 229-235.	1.6	7
123	Genetic Signal Transduction by Nitrosyl-Iron Complexes in Escherichia coli. Biochemistry (Moscow), 2004, 69, 883-889.	0.7	7
124	Mechanism of adaptation of the vascular system to chronic changes in nitric oxide level in the organism. Bulletin of Experimental Biology and Medicine, 2006, 142, 670-674.	0.3	7
125	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. Nitric Oxide - Biology and Chemistry, 2008, 19, 338-344.	1.2	7
126	Detection of autowave distribution of the concentration of a dinitrosyl iron complex with glutathione formed in an aqueous solution of S-nitrosoglutathione after addition of a mixture of glutathione and ferrous iron. Biophysics (Russian Federation), 2010, 55, 5-12.	0.2	7

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127	Formation of a new type of dinitrosyl iron complexes bound to cysteine modified with methylglyoxal. Biophysics (Russian Federation), 2013, 58, 172-177.	0.2	7
128	Nitric Oxide Initiates Iron Binding to Neocuproine. Nitric Oxide - Biology and Chemistry, 2001, 5, 166-175.	1.2	6
129	Formation and Role of Nitric Oxide Stores in Adaptation to Hypoxia. , 2006, 578, 35-40.		6
130	NO trapping in biological systems with a functionalized zeolite network. Nitric Oxide - Biology and Chemistry, 2006, 15, 233-240.	1.2	6
131	Asymmetry within the Fe(NO)2 moiety of dithiolate dinitrosyl iron complexes. Inorganica Chimica Acta, 2014, 418, 42-50.	1.2	6
132	Mono- and binuclear dinitrosyl iron complexes with thiol-containing ligands in various biosystems. Biophysics (Russian Federation), 2015, 60, 603-612.	0.2	6
133	Differences in NO generation during heat shock in genetically different populations of rats. Bulletin of Experimental Biology and Medicine, 1996, 121, 572-575.	0.3	5
134	Role of nitric oxide and lipid peroxidation in mechanisms of febrile convulsions in Wistar rat pups. Bulletin of Experimental Biology and Medicine, 2001, 131, 47-49.	0.3	5
135	Nitric Oxide Storage in the Cardiovascular System. Biology Bulletin, 2002, 29, 477-486.	0.1	5
136	Nitric oxide radicals and their reactions. , 2007, , 3-16.		5
137	Interaction between albumin-bound dinitrosyl iron complexes and reactive oxygen species. Biophysics (Russian Federation), 2007, 52, 336-339.	0.2	5
138	Effects of dinitrosyl iron complex with glutathione and its components on ischemic rat heart during reperfusion. Biophysics (Russian Federation), 2009, 54, 709-713.	0.2	5
139	Reversible NO-catalyzed destruction of the Fe-S cluster of the FNR[4Fe-4S]2+ transcription factor: A way to regulate the aidB gene activity in Escherichia coli cells cultured under anaerobic conditions. Doklady Biochemistry and Biophysics, 2010, 435, 283-286.	0.3	5
140	Formation of dinitrosyl iron complexes in cardiac mitochondria. Biophysics (Russian Federation), 2010, 55, 406-411.	0.2	5
141	Autowave distribution of nitric oxide and its endogenous derivatives in biosystems strongly enhances their biological effects: A working hypothesis. Nitric Oxide - Biology and Chemistry, 2010, 23, 175-180.	1.2	5
142	Antidiabetes drug metformin is a donor of nitric oxide: EPR measurement of efficiency. Biophysics (Russian Federation), 2011, 56, 1088-1095.	0.2	5
143	Distribution and pharmacokinetics of dinitrosyl iron complexes in rat organs. Biophysics (Russian) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	5
144	Features of the metabolism of nitric oxide in normal state and inflammation. Biophysics (Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	5

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145	Physicochemistry of dinitrosyl iron complexes with thiolate ligands underlying their beneficial effect in endometriosis. Biophysics (Russian Federation), 2014, 59, 628-634.	0.2	5
146	EPR Characterization of Mononuclear Dinitrosyl Iron Complex with Persulfide as a New Representative of Dinitrosyl Iron Complexes in Biological Systems: an Overview. Applied Magnetic Resonance, 2014, 45, 375-387.	0.6	5
147	Nitric oxide formation in animal tissues during inflammation. Bulletin of Experimental Biology and Medicine, 1989, 107, 35-38.	0.3	4
148	Increased generation of nitric oxide in tissues of rats following their adaptation to short-term stress (An EPR study). Bulletin of Experimental Biology and Medicine, 1994, 117, 243-245.	0.3	4
149	Endothelial function and nitric oxide production in rats adapted to intermittent hypoxia. Bulletin of Experimental Biology and Medicine, 1995, 120, 1117-1120.	0.3	4
150	Mononitrosyl-iron complexes with dithiocarbamate ligands: physico-chemical properties. , 2007, , 383-405.		4
151	Interaction of iron ions with oxygen or nitrogen monoxide in chromosomes triggers synchronous expression/suppression oscillations of compact gene groups (â€œgenomewide oscillationâ€): Hypothesis. Nitric Oxide - Biology and Chemistry, 2008, 18, 147-152.	1.2	4
152	Study of the nitric oxide level in the tissues of rat organs and its changes after a long-term inhalation of the air with increased NO content. Doklady Biochemistry and Biophysics, 2009, 425, 110-113.	0.3	4
153	Nitrite contamination in hypotensive preparations of dinitrosyl iron complexes with glutathione. Journal of Applied Biomedicine, 2013, 11, 223-233.	0.6	4
154	Effect of dinitrosyl iron complexes on NO level in rat organs during endotoxin shock. Doklady Biochemistry and Biophysics, 2015, 462, 166-168.	0.3	4
155	Is it possible to combine photodynamic therapy and application of dinitrosyl iron complexes in the wound treatment?. Nitric Oxide - Biology and Chemistry, 2019, 83, 24-32.	1.2	4
156	Effect of riboflavin on hypotesisive activity of dinitrosyl iron complex with thiosulphate. European Journal of Pharmacology, 1991, 203, 325-326.	1.7	3
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