Anatoly F Vanin

List of Publications by Year in Descending Order

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	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	3.2	5
187	Physico-Chemistry of Dinitrosyl Iron Complexes as a Determinant of Their Biological Activity. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
186	How is Nitric Oxide (NO) Converted into Nitrosonium Cations (NO) in Living Organisms? (Based on the Results of Optical and EPR Analyses of Dinitrosyl Iron Complexes with Thiol-Containing Ligands). *Applied Magnetic Resonance*, **2020**, 51, 1-26	0.8	4
185	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	3.2	16
184	Physicochemical parameters of NO-containing gas flow affect wound healing therapy. An experimental study. *European Journal of Pharmaceutical Sciences*, **2019**, 128, 193-201	5.1	14
183	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	3.2	10
182	Protective Effect of Dinitrosyl Iron Complexes with Glutathione in Red Blood Cell Lysis Induced by Hypochlorous Acid. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 2798154	6.7	10
181	EPR and M□ssbauer Characteristics of Aqueous Solutions of 57Fe-Dinitrosyl Iron Complexes with Glutathione and Hydroxyl Ligands. *Applied Magnetic Resonance*, **2019**, 50, 861-881	0.8	2
180	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	5	2
179	Study of plasma-chemical NO-containing gas flow for treatment of wounds and inflammatory processes. *Nitric Oxide - Biology and Chemistry*, **2018**, 73, 74-80	5	14
178	Nitrosonium Ions as Constituents of Dinitrosyl Iron Complexes with Glutathione Responsible for their S-Nitrosating Activity. *Interdisciplinary Journal of Microinflammation*, **2018**, 5,	0	6
177	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	3.2	17
176	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	5	13
175	The binuclear form of dinitrosyl iron complexes with thiol-containing ligands in animal tissues. *Nitric Oxide - Biology and Chemistry*, **2017**, 62, 1-10	5	7
174	Dinitrosyl Iron Complexes with Persulfide Ligands: EPR and Optical Studies. *Applied Magnetic Resonance*, **2016**, 47, 277-295	0.8	2
173	Dinitrosyl iron complexes with thiol-containing ligands as a "working form" of endogenous nitric oxide. *Nitric Oxide - Biology and Chemistry*, **2016**, 54, 15-29	5	58
172	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	5.1	28

171	The delivery of dinitrosyl iron complexes into animal lungs. *Biophysics (Russian Federation)*, **2015**, 60, 284-287	0.7	
170	An antinitrosative system as a factor in malignant tumor resistance to the cytotoxic effect of nitrogen monoxide. *Biophysics (Russian Federation)*, **2015**, 60, 121-125	0.7	10
169	The hypotensive effect of the nitric monoxide donor Oxacom at different routs of its administration to experimental animals. *European Journal of Pharmacology*, **2015**, 765, 525-32	5.3	23
168	Effect of dinitrosyl iron complexes on NO level in rat organs during endotoxin shock. *Doklady Biochemistry and Biophysics*, **2015**, 462, 166-8	0.8	2
167	The antitumor activity of the S-nitrosoglutathione and dinitrosyl iron complex with glutathione: Comparative studies. *Biophysics (Russian Federation)*, **2015**, 60, 963-969	0.7	11
166	Mono- and binuclear dinitrosyl iron complexes with thiol-containing ligands in various biosystems. *Biophysics (Russian Federation)*, **2015**, 60, 603-612	0.7	5
165	A comparative analysis of the effects of free and bound NO on Pro- and antioxidant systems of the blood. *Biophysics (Russian Federation)*, **2015**, 60, 278-283	0.7	2
164	Dinitrosyl iron complexes with glutathione suppress experimental endometriosis in rats. *European Journal of Pharmacology*, **2014**, 727, 140-7	5.3	25
163	Antitumor activity of dinitrosyl iron complexes with glutathione. *Biophysics (Russian Federation)*, **2014**, 59, 415-419	0.7	12
162	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	5.3	13
161	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	0.8	5
160	Asymmetry within the Fe(NO)2 moiety of dithiolate dinitrosyl iron complexes. *Inorganica Chimica Acta*, **2014**, 418, 42-50	2.7	5
159	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, 100-9	5	11
158	Dinitrosyl Iron Complexes with Natural Thiol-Containing Ligands: Physicochemistry, Biology, and Medicine **2014**, 203-238		10
157	Physicochemistry of dinitrosyl iron complexes with thiolate ligands underlying their beneficial effect in endometriosis. *Biophysics (Russian Federation)*, **2014**, 59, 628-634	0.7	4
156	Nitric oxide and electrogenic metals (Ca, Na, K) in epidermal cells. *Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry*, **2014**, 8, 343-348	0.4	1
155	Dinitrosyl iron complexes with glutathione largely relieve rats of experimental endometriosis. *Biophysics (Russian Federation)*, **2013**, 58, 222-227	0.7	8
154	Physicochemical features of dinitrosyl iron complexes with natural thiol-containing ligands underlying the biological activities of these complexes. *Biophysics (Russian Federation)*, **2013**, 58, 103-109	0.7	2

153	Formation of a new type of dinitrosyl iron complexes bound to cysteine modified with methylglyoxal. *Biophysics (Russian Federation)*, **2013**, 58, 172-177	0.7	4
152	Transformations of dinitrosyl iron complexes in an isolated rat heart after introduction of this substance into perfusion medium. *Biophysics (Russian Federation)*, **2013**, 58, 206-211	0.7	
151	Introduction of dinitrosyl iron complexes with thiol-containing ligands into animal organism by inhalation method. *Biophysics (Russian Federation)*, **2013**, 58, 216-221	0.7	2
150	Estimation of some molecular effects of gaseous nitrogen oxide on human blood in vitro. *Biophysics (Russian Federation)*, **2013**, 58, 689-692	0.7	3
149	Features of the metabolism of nitric oxide in normal state and inflammation. *Biophysics (Russian Federation)*, **2013**, 58, 676-688	0.7	4
148	Redox conversions of dinitrosyl iron complexes with natural thiol-containing ligands. *Nitric Oxide - Biology and Chemistry*, **2013**, 35, 35-41	5	17
147	Nitrite contamination in hypotensive preparations of dinitrosyl iron complexes with glutathione. *Journal of Applied Biomedicine*, **2013**, 11, 223-233	0.6	4
146	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, 110-5	5	31
145	Dinitrosyl iron complexes with glutathione as NO and NO+ donors. *Nitric Oxide - Biology and Chemistry*, **2013**, 29, 4-16	5	41
144	Dinitrosyl iron complexes with cysteine suppress the development of experimental endometriosis in rats. *Biophysics (Russian Federation)*, **2012**, 57, 87-89	0.7	8
143	Variation of nitric oxide content regulates the development of apoptosis in the retina. *Biophysics (Russian Federation)*, **2012**, 57, 229-232	0.7	1
142	Sources of divalent sulfur allow recovery of the Fnr [4Fe-4S]2+ center in Escherichia coli incubated with nitric oxide donors. *Biophysics (Russian Federation)*, **2012**, 57, 166-169	0.7	2
141	Can summary nitrite+nitrate content serve as an indicator of NO synthesis intensity in body tissues?. *Bulletin of Experimental Biology and Medicine*, **2012**, 153, 839-42	0.8	9
140	Hypotensive effect of Oxacom containing a dinitrosyl iron complex with glutathione: animal studies and clinical trials on healthy volunteers. *Nitric Oxide - Biology and Chemistry*, **2012**, 26, 148-56	5	60
139	Distribution and pharmacokinetics of dinitrosyl iron complexes in rat organs. *Biophysics (Russian Federation)*, **2012**, 57, 233-236	0.7	4
138	Antidiabetes drug metformin is a donor of nitric oxide: EPR measurement of efficiency. *Biophysics (Russian Federation)*, **2011**, 56, 1088-1095	0.7	3
137	Intermittent hypoxia conditioning prevents endothelial dysfunction and improves nitric oxide storage in spontaneously hypertensive rats. *Experimental Biology and Medicine*, **2011**, 236, 867-73	3.7	24
136	Dinitrosyl iron complexes with thiol-containing ligands and apoptosis: studies with HeLa cell cultures. *Nitric Oxide - Biology and Chemistry*, **2011**, 24, 151-9	5	44

135	Penile erectile activity of dinitrosyl iron complexes with thiol-containing ligands. *Nitric Oxide - Biology and Chemistry*, **2011**, 24, 217-23	5	24
134	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, 878236		23
133	Interaction of the nitric oxide signaling system with the sphingomyelin cycle and peroxidation on transmission of toxic signal of tumor necrosis factor-α in ischemia-reperfusion. *Biochemistry (Moscow)*, **2011**, 76, 1197-209	2.9	10
132	Accumulation of magnetic nanoparticles in plants grown on soils of Apsheron peninsula. *Biophysics (Russian Federation)*, **2011**, 56, 316-322	0.7	12
131	Regulation of the functional and mechanical properties of platelet and red blood cells by nitric oxide donors. *Biophysics (Russian Federation)*, **2011**, 56, 237-242	0.7	9
130	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	0.7	7
129	Prospects of using magnetic nanoparticles to potentiate the anticarcinogenic action of dinitrosyl iron complexes with thiol ligands. *Biophysics (Russian Federation)*, **2011**, 56, 832-835	0.7	1
128	Effect of dinitrosyl iron complexes with glutathione on hemorrhagic shock followed by saline treatment. *European Journal of Pharmacology*, **2011**, 662, 40-6	5.3	24
127	Autowaves as a basis for spatial and temporal regulation of the biological action of nitric oxide in living systems (a hypothesis). *Russian Journal of General Chemistry*, **2011**, 81, 243-246	0.7	
126	Determination of in vivo nitric oxide levels in animal tissues using a novel spin trapping technology. *Methods in Molecular Biology*, **2011**, 704, 135-49	1.4	9
125	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	0.7	4
124	Detection of nitrite and nitrosocompounds in chemical systems and biological liquids by the calorimetric method. *Biophysics (Russian Federation)*, **2010**, 55, 77-86	0.7	9
123	Formation of dinitrosyl iron complexes in cardiac mitochondria. *Biophysics (Russian Federation)*, **2010**, 55, 406-411	0.7	3
122	Dinitrosyl iron complexes with glutathione in rat myocardial tissue during regional ischemia and postischemic reperfusion. *Biophysics (Russian Federation)*, **2010**, 55, 999-1005	0.7	3
121	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, 266-74	5	22
120	Polynuclear water-soluble dinitrosyl iron complexes with cysteine or glutathione ligands: electron paramagnetic resonance and optical studies. *Nitric Oxide - Biology and Chemistry*, **2010**, 23, 136-49	5	66
119	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, 175-80	5	5
118	Protective effect of dinitrosyl-iron complexes with glutathione in rat myocardial regional ischemia: a microdialysis assay study. *Doklady Biochemistry and Biophysics*, **2010**, 432, 106-9	0.8	7

117	Reversible NO-catalyzed destruction of the Fe-S cluster of the FNR[4Fe-4S]□+ transcription factor: a way to regulate the aidB gene activity in Escherichia coli cells cultured under anaerobic conditions. *Doklady Biochemistry and Biophysics*, **2010**, 435, 283-6	0.8	5
116	Direct EPR Detection of Nitric Oxide in Mice Infected with the Pathogenic Mycobacterium Mycobacterium tuberculosis. *Applied Magnetic Resonance*, **2010**, 38, 95-104	0.8	1
115	Nitrite as regulator of hypoxic signaling in mammalian physiology. *Medicinal Research Reviews*, **2009**, 29, 683-741	14.4	332
114	Effects of dinitrosyl iron complex with glutathione and its components on ischemic rat heart during reperfusion. *Biophysics (Russian Federation)*, **2009**, 54, 709-713	0.7	4
113	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, 110-3	0.8	4
112	Dinitrosyl iron complexes with thiolate ligands: physico-chemistry, biochemistry and physiology. *Nitric Oxide - Biology and Chemistry*, **2009**, 21, 1-13	5	180
111	NO spin trapping in biological systems. *Frontiers in Bioscience - Landmark*, **2009**, 14, 4427-35	2.8	7
110	Nitric oxide stores in coronary blood vessels of dogs with metabolic syndrome. *FASEB Journal*, **2009** , 23, 628.8	0.9	
109	Beneficial effect of dinitrosyl iron complexes with thiol ligands on the rat penile cavernous bodies. *Biophysics (Russian Federation)*, **2008**, 53, 153-157	0.7	7
108	Effects of the donor of nitric oxide, dinitrosyl iron complex with glutathione, on blood circulation in healthy animals. *Biophysics (Russian Federation)*, **2008**, 53, 442-447	0.7	
107	Interaction of reactive oxygen and nitrogen species with albumin- and methemoglobin-bound dinitrosyl-iron complexes. *Nitric Oxide - Biology and Chemistry*, **2008**, 18, 37-46	5	67
106	Decomposition of water-soluble mononitrosyl iron complexes with dithiocarbamates and of dinitrosyl iron complexes with thiol ligands in animal organisms. *Nitric Oxide - Biology and Chemistry* , **2008**, 18, 195-203	5	3
105	Interaction of iron ions with oxygen or nitrogen monoxide in chromosomes triggers synchronous expression/suppression oscillations of compact gene groups ("genomewide oscillation"): hypothesis. *Nitric Oxide - Biology and Chemistry*, **2008**, 18, 147-52	5	3
104	Detection of basal NO production in rat tissues using iron-dithiocarbamate complexes. *Nitric Oxide - Biology and Chemistry*, **2008**, 18, 279-86	5	19
103	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, 338-44	5	7
102	Dinitrosyl iron complexes bind with hemoglobin as markers of oxidative stress. *Methods in Enzymology*, **2008**, 436, 445-61	1.7	26
101	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, 172-6	6.5	8
100	Quasi-adaptive response to alkylating agents and Ada-protein functions in Escherichia coli. *Russian Journal of Genetics*, **2008**, 44, 21-26	0.6	

99	Low-molecular-weight S-nitrosothiols **2007**, 173-199		3
98	Nitrite as endothelial NO donor under anoxia **2007**, 291-312		2
97	Chemical equilibria between S-nitrosothiols and dinitrosyl iron complexes with thiol-containing ligands **2007**, 223-252		1
96	Antioxidant and prooxidant action of nitric oxide donors and metabolites. *Biophysics (Russian Federation)*, **2007**, 52, 315-321	0.7	5
95	Interaction between albumin-bound dinitrosyl iron complexes and reactive oxygen species. *Biophysics (Russian Federation)*, **2007**, 52, 336-339	0.7	3
94	Dinitrosyl iron complexes with thiol ligands promote skin wound healing in animals. *Biophysics (Russian Federation)*, **2007**, 52, 515-520	0.7	23
93	Nitric oxide synthase reduces nitrite to NO under anoxia. *Cellular and Molecular Life Sciences*, **2007**, 64, 96-103	10.3	127
92	Reduction enhances yields of nitric oxide trapping by iron-diethyldithiocarbamate complex in biological systems. *Nitric Oxide - Biology and Chemistry*, **2007**, 16, 71-81	5	23
91	Dinitrosyl-iron complexes with thiol-containing ligands: spatial and electronic structures. *Nitric Oxide - Biology and Chemistry*, **2007**, 16, 82-93	5	48
90	Protein-bound dinitrosyl-iron complexes appearing in blood of rabbit added with a low-molecular dinitrosyl-iron complex: EPR studies. *Nitric Oxide - Biology and Chemistry*, **2007**, 16, 286-93	5	31
89	Vasorelaxing activity of stable powder preparations of dinitrosyl iron complexes with cysteine or glutathione ligands. *Nitric Oxide - Biology and Chemistry*, **2007**, 16, 322-30	5	42
88	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, 413-8	5	59
87	DNICs: physico-chemical properties and their observations in cells and tissues **2007**, 19-73		9
86	Hypotensive, vasodilatory and anti-aggregative properties of dinitrosyl-iron complexes **2007**, 75-96		1
85	Mononitrosyl-iron complexes with dithiocarbamate ligands: physico-chemical properties **2007**, 383-405		3
84	Nitric oxide radicals and their reactions **2007**, 3-16		4
83	Low-molecular dinitrosyl iron complexes can catalyze the degradation of active centers of iron–sulfur proteins **2007**, 119-137		1
82	Formation and role of nitric oxide stores in adaptation to hypoxia. *Advances in Experimental Medicine and Biology*, **2006**, 578, 35-40	3.6	5

81	Why iron-dithiocarbamates ensure detection of nitric oxide in cells and tissues. *Nitric Oxide - Biology and Chemistry*, **2006**, 15, 295-311	5	43
80	NO trapping in biological systems with a functionalized zeolite network. *Nitric Oxide - Biology and Chemistry*, **2006**, 15, 233-40	5	5
79	The interaction between dinitrosy iron complexes and intermediates of oxidative stress. *Biophysics (Russian Federation)*, **2006**, 51, 423-428	0.7	10
78	Autowave mode of the functioning of the nitric oxide + free iron + thiols system as a basis for control of the biological action of nitric oxide and its endogenous compounds. *Biophysics (Russian Federation)*, **2006**, 51, 851-852	0.7	
77	Nitrite protonation as a necessary stage in the generation of nitric oxide from nitrite in biological systems. *Biophysics (Russian Federation)*, **2006**, 51, 853-859	0.7	2
76	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, 632-42	6.5	34
75	Adaptation to hypoxia prevents disturbances in cerebral blood flow during neurodegenerative process. *Bulletin of Experimental Biology and Medicine*, **2006**, 142, 169-72	0.8	14
74	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, 670-4	0.8	7
73	The relation between sphingomyelinase activity, lipid peroxide oxidation and NO-releasing in mice liver and brain. *FEBS Letters*, **2005**, 579, 5571-6	3.8	12
72	Beneficial effect of gaseous nitric oxide on the healing of skin wounds. *Nitric Oxide - Biology and Chemistry*, **2005**, 12, 210-9	5	170
71	Memory impairments and oxidative stress in the hippocampus of in-utero cocaine-exposed rats. *NeuroReport*, **2005**, 16, 1217-21	1.7	33
70	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, 779-88	4.3	9
69	Endogenous superoxide production and the nitrite/nitrate ratio control the concentration of bioavailable free nitric oxide in leaves. *Journal of Biological Chemistry*, **2004**, 279, 24100-7	5.4	75
68	Interaction of oxoferrylmyoglobin and dinitrosyl-iron complexes. *Biochemistry (Moscow)*, **2004**, 69, 569-74	2.9	20
67	Genetic signal transduction by nitrosyl-iron complexes in Escherichia coli. *Biochemistry (Moscow)*, **2004**, 69, 883-9	2.9	7
66	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, 221-30	6.5	6
65	Chronic administration of rotenone increases levels of nitric oxide and lipid peroxidation products in rat brain. *Experimental Neurology*, **2004**, 186, 235-41	5.7	71
64	The mechanisms of S-nitrosothiol decomposition catalyzed by iron. *Nitric Oxide - Biology and Chemistry*, **2004**, 10, 60-73	5	69

63	Detection and evaluation of NO stores in awake rats. *Bulletin of Experimental Biology and Medicine*, **2003**, 136, 26-9	0.8	3
62	Detection and description of various stores of nitric oxide store in vascular wall. *Bulletin of Experimental Biology and Medicine*, **2003**, 136, 226-30	0.8	13
61	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. *Biochemical Pharmacology*, **2003**, 66, 2365-74	6	33
60	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, 487-92	5.5	66
59	Activation of soluble guanylate cyclase by NO donors--S-nitrosothiols, and dinitrosyl-iron complexes with thiol-containing ligands. *Nitric Oxide - Biology and Chemistry*, **2003**, 8, 155-63	5	58
58	In vivo nitric oxide transfer of a physiological NO carrier, dinitrosyl dithiolato iron complex, to target complex. *Biochemical Pharmacology*, **2002**, 63, 485-93	6	61
57	Derivatives of benzotetrazine-1,3-dioxide are new NO-donors, activators of soluble guanylate cyclase, and inhibitors of platelet aggregation. *Biochemistry (Moscow)*, **2002**, 67, 329-34	2.9	13
56	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, 229-35	4.6	5
55	Nitric Oxide Storage in the Cardiovascular System. *Biology Bulletin*, **2002**, 29, 477-486	0.5	3
54	Anti-inflammatory effects of tetrahydrobiopterin on early rejection in renal allografts: modulation of inducible nitric oxide synthase. *FASEB Journal*, **2002**, 16, 1135-7	0.9	40
53	Exogenous ferrous iron is required for the nitric oxide-catalysed destruction of the iron-sulphur centre in adrenodoxin. *Biochemical Journal*, **2002**, 368, 633-9	3.8	21
52	Iron dithiocarbamate as spin trap for nitric oxide detection: pitfalls and successes. *Methods in Enzymology*, **2002**, 359, 27-42	1.7	68
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	5	42
50	Role of nitric oxide and lipid peroxidation in mechanisms of febrile convulsions in Wistar rat pups. *Bulletin of Experimental Biology and Medicine*, **2001**, 131, 47-9	0.8	4
49	Activation of the Escherichia coli SoxRS-regulon by nitric oxide and its physiological donors. *Biochemistry (Moscow)*, **2001**, 66, 984-8	2.9	26
48	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. *Brain Research*, **2001**, 894, 145-9	3.7	28
47	Antioxidant capacity of mononitrosyl-iron-dithiocarbamate complexes: implications for NO trapping. *Free Radical Biology and Medicine*, **2001**, 30, 813-24	7.8	37
46	Nitric oxide initiates iron binding to neocuproine. *Nitric Oxide - Biology and Chemistry*, **2001**, 5, 166-75	5	6

45	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, 793-7	7.8	59
44	Redox properties of iron-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, 365-77	4	62
43	In vivo distribution and behavior of paramagnetic dinitrosyl dithiolato iron complex in the abdomen of mouse. *Free Radical Research*, **1999**, 31, 525-34	4	29
42	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, 177-80	3.8	31
41	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, 179-82	3.8	36
40	Iron diethyldithiocarbamate as spin trap for nitric oxide detection. *Methods in Enzymology*, **1999**, 301, 269-79	1.7	51
39	NO-dependent mechanisms of adaptation to hypoxia. *Nitric Oxide - Biology and Chemistry*, **1999**, 3, 105-13	5	51
38	Production and storage of nitric oxide in adaptation to hypoxia. *Nitric Oxide - Biology and Chemistry*, **1999**, 3, 393-401	5	40
37	The 2.03 signal as an indicator of dinitrosyl-iron complexes with thiol-containing ligands. *Nitric Oxide - Biology and Chemistry*, **1998**, 2, 224-34	5	97
36	EPR Detection and Biological Implications of Nitrosyl Nonheme Iron Complexes **1998**, 49-82		17
35	Iron catalyzes both decomposition and synthesis of S-nitrosothiols: optical and electron paramagnetic resonance studies. *Nitric Oxide - Biology and Chemistry*, **1997**, 1, 191-203	5	160
34	Effect of nitroso compounds on Na/K-ATPase. *Biochimica Et Biophysica Acta - Bioenergetics*, **1997**, 1321, 243-51	4.6	47
33	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, 225-34	4	72
32	Nitric oxide donor induces HSP70 accumulation in the heart and in cultured cells. *FEBS Letters*, **1996**, 391, 21-3	3.8	64
31	Physical properties of dinitrosyl iron complexes with thiol-containing ligands in relation with their vasodilator activity. *BBA - Proteins and Proteomics*, **1996**, 1295, 5-12		85
30	Differences in NO generation during heat shock in genetically different populations of rats. *Bulletin of Experimental Biology and Medicine*, **1996**, 121, 572-575	0.8	5
29	Estimation of accumulated dose of radiation by the method of ESR-spectrometry of dental enamel of mammals. *Applied Radiation and Isotopes*, **1996**, 47, 1321-8	1.7	24
28	S-nitrosation of serum albumin by dinitrosyl-iron complex. *Journal of Biological Chemistry*, **1995**, 270, 29244-9	5.4	212

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