Ines Batinic-Haberle

List of Publications by Year
in descending order

110	6,041	66343	74163
papers	citations	42 h-index	75 g-index

119	119	119	4644
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rotenone-Induced 4-HNE Aggresome Formation and Degradation in HL-1 Cardiomyocytes: Role of Autophagy Flux. International Journal of Molecular Sciences, 2022, 23, 4675.	4.1	6
2	A Redoxable Mn Porphyrin, MnTnBuOE-2-PyP5+, Synergizes with Carboplatin in Treatment of Chemoresistant Ovarian Cell Line. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-16.	4.0	5
3	Manganese Porphyrin Promotes Post Cardiac Arrest Recovery in Mice and Rats. Biology, 2022, 11, 957.	2.8	3
4	25 years of development of Mn porphyrins â€" from mimics of superoxide dismutase enzymes to thiol signaling to clinical trials: The story of our life in the USA. , 2021, , 197-206.		0
5	Ascorbate-dependent and ascorbate-independent Mn porphyrin cytotoxicity: anticancer activity of Mn porphyrin-based SOD mimics through ascorbate-dependent and -independent routes. Redox Report, 2021, 26, 85-93.	4.5	1
6	H2O2-Driven Anticancer Activity of Mn Porphyrins and the Underlying Molecular Pathways. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-23.	4.0	30
7	Evaluation of the compounds commonly known as superoxide dismutase and catalase mimics in cellular models. Journal of Inorganic Biochemistry, 2021, 219, 111431.	3.5	22
8	Ortho Isomeric Mn(III) N-Alkyl- and Alkoxyalkylpyridylporphyrinsâ€"Enhancers of Hyaluronan Degradation Induced by Ascorbate and Cupric Ions. International Journal of Molecular Sciences, 2021, 22, 8608.	4.1	2
9	MnTnHex-2-PyP5+, Coupled to Radiation, Suppresses Metastasis of 4T1 and MDA-MB-231 Breast Cancer via AKT/Snail/EMT Pathways. Antioxidants, 2021, 10, 1769.	5.1	7
10	Antibacterial Activity of Synthetic Cationic Iron Porphyrins. Antioxidants, 2020, 9, 972.	5.1	10
11	Mn porphyrins as a novel treatment targeting sickle cell NOXs to reverse and prevent acute vaso-occlusion in vivo. Blood Advances, 2020, 4, 2372-2386.	5.2	16
12	Fe Porphyrin-Based SOD Mimic and Redox-Active Compound, (OH)FeTnHex-2-PyP4+, in a Rodent Ischemic Stroke (MCAO) Model: Efficacy and Pharmacokinetics as Compared to Its Mn Analogue, (H2O)MnTnHex-2-PyP5+. Antioxidants, 2020, 9, 467.	5.1	8
13	Effects of Manganese Porphyrins on Cellular Sulfur Metabolism. Molecules, 2020, 25, 980.	3.8	8
14	Redox-Active Drug, MnTE-2-PyP⁵⁺, Prevents and Treats Cardiac Arrhythmias Preserving Heart Contractile Function. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-15.	4.0	5
15	BMX-HGG: Phase II trial of newly diagnosed high-grade glioma treated with concurrent radiation therapy, temozolomide, and BMX-001.. Journal of Clinical Oncology, 2020, 38, TPS2577-TPS2577.	1.6	0
16	Manganese Porphyrin and Radiotherapy Improves Local Tumor Response and Overall Survival in Orthotopic Murine Mammary Carcinoma Models. Radiation Research, 2020, 195, 128-139.	1.5	2
17	The SOD Mimic MnTnHex-2-PyP5+ Reduces the Viability and Migration of 786-O Human Renal Cancer Cells. Antioxidants, 2019, 8, 490.	5.1	18
18	Disrupting the vicious cycle created by NOX activation in sickle erythrocytes exposed to hypoxia/reoxygenation prevents adhesion and vasoocclusion. Redox Biology, 2019, 25, 101097.	9.0	16

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19	UVB-induced inactivation of manganese-containing superoxide dismutase promotes mitophagy via ROS-mediated mTORC2 pathway activation. Journal of Biological Chemistry, 2019, 294, 6831-6842.	3.4	15
20	Thiol regulation by Mn porphyrins, commonly known as SOD mimics. Redox Biology, 2019, 25, 101139.	9.0	60
21	25 years of development of Mn porphyrins â€" from mimics of superoxide dismutase enzymes to thiol signaling to clinical trials: The story of our life in the USA. Journal of Porphyrins and Phthalocyanines, 2019, 23, 1326-1335.	0.8	16
22	Manganese Porphyrin-Based SOD Mimetics Produce Polysulfides from Hydrogen Sulfide. Antioxidants, 2019, 8, 639.	5.1	17
23	Utilizing Superoxide Dismutase Mimetics to Enhance Radiation Therapy Response While Protecting Normal Tissues. Seminars in Radiation Oncology, 2019, 29, 72-80.	2.2	29
24	MnSOD is implicated in accelerated wound healing upon Negative Pressure Wound Therapy (NPWT): A case in point for MnSOD mimetics as adjuvants for wound management. Redox Biology, 2019, 20, 307-320.	9.0	33
25	The manganese(III) porphyrin MnTnHex-2-PyP5+ modulates intracellular ROS and breast cancer cell migration: Impact on doxorubicin-treated cells. Redox Biology, 2019, 20, 367-378.	9.0	37
26	Radiation-Mediated Tumor Growth Inhibition Is Significantly Enhanced with Redox-Active Compounds That Cycle with Ascorbate. Antioxidants and Redox Signaling, 2018, 29, 1196-1214.	5.4	30
27	INK4a/ARF Expression Impairs Neurogenesis in the Brain of Irradiated Mice. Stem Cell Reports, 2018, 10, 1721-1733.	4.8	15
28	Mitochondrial ROS cause motor deficits induced by synaptic inactivity: Implications for synapse pruning. Redox Biology, 2018, 16, 344-351.	9.0	43
29	ACTR-28. PHASE 1 DOSE ESCALATION TRIAL OF THE SAFETY OF BMX-001 CONCURRENT WITH RADIATION THERAPY AND TEMOZOLOMIDE IN NEWLY DIAGNOSED PATIENTS WITH HIGH-GRADE GLIOMAS. Neuro-Oncology, 2018, 20, vi17-vi17.	1.2	1
30	Porphyrinâ€Based SOD Mimic MnTnBuOEâ€2â€PyP 5+ Inhibits Mechanisms of Aortic Valve Remodeling in Human and Murine Models of Aortic Valve Sclerosis. Journal of the American Heart Association, 2018, 7, e007861.	3.7	16
31	Sublethal Photodynamic Treatment Does Not Lead to Development of Resistance. Frontiers in Microbiology, 2018, 9, 1699.	3.5	42
32	Manganese porphyrin redox state in endothelial cells: Resonance Raman studies and implications for antioxidant protection towards peroxynitrite. Free Radical Biology and Medicine, 2018, 126, 379-392.	2.9	10
33	Mn Porphyrin-Based Redox-Active Drugs: Differential Effects as Cancer Therapeutics and Protectors of Normal Tissue Against Oxidative Injury. Antioxidants and Redox Signaling, 2018, 29, 1691-1724.	5.4	102
34	Post-Irradiation Treatment with a Superoxide Dismutase Mimic, MnTnHex-2-PyP5+, Mitigates Radiation Injury in the Lungs of Non-Human Primates after Whole-Thorax Exposure to Ionizing Radiation. Antioxidants, 2018, 7, 40.	5.1	30
35	Whole thorax irradiation of non-human primates induces persistent nuclear damage and gene expression changes in peripheral blood cells. PLoS ONE, 2018, 13, e0191402.	2.5	32
36	Challenges encountered during development of Mn porphyrin-based, potent redox-active drug and superoxide dismutase mimic, MnTnBuOE-2-PyP5+, and its alkoxyalkyl analogues. Journal of Inorganic Biochemistry, 2017, 169, 50-60.	3.5	18

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37	Differences in Reperfusion-Induced Mitochondrial Oxidative Stress and Cell Death Between Hippocampal CA1 and CA3 Subfields Are Due to the Mitochondrial Thioredoxin System. Antioxidants and Redox Signaling, 2017, 27, 534-549.	5.4	25
38	Mechanism of the Antitumor and Radiosensitizing Effects of a Manganese Porphyrin, MnHex-2-PyP. Antioxidants and Redox Signaling, 2017, 27, 1067-1082.	5.4	29
39	CNS bioavailability and radiation protection of normal hippocampal neurogenesis by a lipophilic Mn porphyrin-based superoxide dismutase mimic, MnTnBuOE-2-PyP5+. Redox Biology, 2017, 12, 864-871.	9.0	32
40	Inhibition of the Continuum of Radiation-Induced Normal Tissue Injury by a Redox-Active Mn Porphyrin. Radiation Research, 2017, 188, 94.	1.5	18
41	Optimizing Zn porphyrin-based photosensitizers for efficient antibacterial photodynamic therapy. Photodiagnosis and Photodynamic Therapy, 2017, 17, 154-159.	2.6	38
42	Novel fluorinated Mn porphyrin as a powerful SOD mimic and catalyst for ascorbate-coupled anticancer therapy. Free Radical Biology and Medicine, 2017, 112, 36-37.	2.9	18
43	Protection of rat prostate and erectile function from radiation-induced damage by novel Mn(III) N -substituted pyridylporphyrin and ascorbate. Free Radical Biology and Medicine, 2017, 112, 35-36.	2.9	2
44	Update on hypoxia-inducible factors and hydroxylases in oxygen regulatory pathways: from physiology to therapeutics. Hypoxia (Auckland, N Z), 2017, Volume 5, 11-20.	1.9	26
45	Post-illumination cellular effects of photodynamic treatment. PLoS ONE, 2017, 12, e0188535.	2.5	8
46	Opinion on Schmidt et al.. Antioxidants and Redox Signaling, 2016, 24, 518-524.	5.4	4
47	Important cellular targets for antimicrobial photodynamic therapy. Applied Microbiology and Biotechnology, 2016, 100, 7679-7688.	3.6	44
48	Neurobehavioral radiation mitigation to standard brain cancer therapy regimens by Mn(III) nâ€butoxyethylpyridylporphyrinâ€based redox modifier. Environmental and Molecular Mutagenesis, 2016, 57, 372-381.	2.2	17
49	Novel role of 4-hydroxy-2-nonenal in AIFm2-mediated mitochondrial stress signaling. Free Radical Biology and Medicine, 2016, 91, 68-80.	2.9	41
50	Redox-Active Mn Porphyrin-based Potent SOD Mimic, MnTnBuOE-2-PyP5+, Enhances Carbenoxolone-Mediated TRAIL-Induced Apoptosis in Glioblastoma Multiforme. Stem Cell Reviews and Reports, 2016, 12, 140-155.	5.6	28
51	Mn Porphyrin-Based Redox-Active Therapeutics. Oxidative Stress in Applied Basic Research and Clinical Practice, 2016, , 165-212.	0.4	14
52	Comprehensive Study of GPx Activity of Different Classes of Redox-Active Therapeutics - Implications for Their Therapeutic Actions. Free Radical Biology and Medicine, 2015, 87, S86-S87.	2.9	9
53	Amphiphilic cationic Zn-porphyrins with high photodynamic antimicrobial activity. Future Microbiology, 2015, 10, 709-724.	2.0	33
54	Anticancer therapeutic potential of Mn porphyrin/ascorbate system. Free Radical Biology and Medicine, 2015, 89, 1231-1247.	2.9	56

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55	Radioprotection of the Brain White Matter by Mn(III) N-Butoxyethylpyridylporphyrinâ€“Based Superoxide Dismutase Mimic MnTnBuOE-2-PyP5+. Molecular Cancer Therapeutics, 2015, 14, 70-79.	4.1	60
56	A comprehensive evaluation of catalase-like activity of different classes of redox-active therapeutics. Free Radical Biology and Medicine, 2015, 86, 308-321.	2.9	71
57	An educational overview of the chemistry, biochemistry and therapeutic aspects of Mn porphyrins â€“ From superoxide dismutation to H2O2-driven pathways. Redox Biology, 2015, 5, 43-65.	9.0	136
58	Manganese (III) meso-tetrakis N-ethylpyridinium-2-yl porphyrin acts as a pro-oxidant to inhibit electron transport chain proteins, modulate bioenergetics, and enhance the response to chemotherapy in lymphoma cells. Free Radical Biology and Medicine, 2015, 83, 89-100.	2.9	44
59	Novel Manganese-Porphyrin Superoxide Dismutase-Mimetic Widens the Therapeutic Margin in a Preclinical Head and Neck Cancer Model. International Journal of Radiation Oncology Biology Physics, 2015, 93, 892-900.	0.8	61
60	Targeting Mitochondria by Zn(II)N-Alkylpyridylporphyrins: The Impact of Compound Sub-Mitochondrial Partition on Cell Respiration and Overall Photodynamic Efficacy. PLoS ONE, 2014, 9, e108238.	2.5	33
61	Differential localization and potency of manganese porphyrin superoxide dismutase-mimicking compounds in Saccharomyces cerevisiae. Redox Biology, 2014, 3, 1-6.	9.0	14
62	SOD Therapeutics: Latest Insights into Their Structure-Activity Relationships and Impact on the Cellular Redox-Based Signaling Pathways. Antioxidants and Redox Signaling, 2014, 20, 2372-2415.	5.4	194
63	Complex Chemistry and Biology of Redox-Active Compounds, Commonly Known as SOD Mimics, Affect Their Therapeutic Effects. Antioxidants and Redox Signaling, 2014, 20, 2323-2325.	5.4	28
64	Robust rat pulmonary radioprotection by a lipophilic Mn N-alkylpyridylporphyrin, MnTnHex-2-PyP5+. Redox Biology, 2014, 2, 400-410.	9.0	27
65	Mn porphyrin in combination with ascorbate acts as a pro-oxidant and mediates caspase-independent cancer cell death. Free Radical Biology and Medicine, 2014, 68, 302-314.	2.9	64
66	Differential Coordination Demands in Fe versus Mn Water-Soluble Cationic Metalloporphyrins Translate into Remarkably Different Aqueous Redox Chemistry and Biology. Inorganic Chemistry, 2013, 52, 5677-5691.	4.0	60
67	Comprehensive pharmacokinetic studies and oral bioavailability of two Mn porphyrin-based SOD mimics, MnTE-2-PyP5+ and MnTnHex-2-PyP5+. Free Radical Biology and Medicine, 2013, 58, 73-80.	2.9	51
68	Superoxide dismutase mimic, MnTE-2-PyP5+ ameliorates acute and chronic proctitis following focal proton irradiation of the rat rectum. Redox Biology, 2013, 1, 599-607.	9.0	28
69	Effect of Molecular Characteristics on Cellular Uptake, Subcellular Localization, and Phototoxicity of Zn(II) N-Alkylpyridylporphyrins. Journal of Biological Chemistry, 2013, 288, 36579-36588.	3.4	77
70	Late administration of Mn porphyrin-based SOD mimic enhances diabetic complications. Redox Biology, 2013, 1, 457-466.	9.0	20
71	The complex mechanistic aspects of redox-active compounds, commonly regarded as SOD mimics. Bioinorganic Reaction Mechanisms, 2013, 9, .	0.4	7
72	Design, Mechanism of Action, Bioavailability and Therapeutic Effects of Mn Porphyrin-Based Redox Modulators. Medical Principles and Practice, 2013, 22, 103-130.	2.4	81

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73	Comprehensive Pharmacokinetic Studies and Biodistribution of Two Cationic Mn Porphyrin-Based Catalysts, MnTE-2-PyP5+ and MnTnHex-2-PyP5+: Plasma and Organ Oral Availability, Mitochondrial, Cytosolic, Whole Brain, Hippocampus and Cortex Distribution. Free Radical Biology and Medicine, 2012, 53, S118.	2.9	6
74	Manganese superoxide dismutase, MnSOD and its mimics. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 794-814.	3.8	312
75	Manganese Porphyrin, MnTE-2-PyP5+, Acts as a Pro-Oxidant to Potentiate Glucocorticoid-Induced Apoptosis in Lymphoma Cells. Free Radical Biology and Medicine, 2012, 52, 1272-1284.	2.9	68
76	A new SOD mimic, Mn(III) ortho N-butoxyethylpyridylporphyrin, combines superb potency and lipophilicity with low toxicity. Free Radical Biology and Medicine, 2012, 52, 1828-1834.	2.9	70
77	Design of Mn porphyrins for treating oxidative stress injuries and their redox-based regulation of cellular transcriptional activities. Amino Acids, 2012, 42, 95-113.	2.7	97
78	Effects of alkyl chain length of Zn Nâ€alkylpyridylporphyrins on photoâ€mediated protein crosslinking. FASEB Journal, 2012, 26, 755.2.	0.5	0
79	Amelioration of Renal Ischemia-Reperfusion Injury With a Novel Protective Cocktail. Journal of Urology, 2011, 186, 2448-2454.	0.4	43
80	Mn(III) meso-tetrakis-(N-ethylpyridinium-2-yl) porphyrin mitigates total body irradiation-induced long-term bone marrow suppression. Free Radical Biology and Medicine, 2011, 51, 30-37.	2.9	73
81	Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. Free Radical Biology and Medicine, 2011, 51, 1035-1053.	2.9	122
82	A Combination of Two Antioxidants (An SOD Mimic and Ascorbate) Produces a Pro-Oxidative Effect Forcing Escherichia coli to Adapt Via Induction of oxyR Regulon. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 329-340.	1.7	37
83	NADPH oxidase inhibition attenuates total body irradiation-induced haematopoietic genomic instability. Mutagenesis, 2011, 26, 431-435.	2.6	62
84	Neuroprotective Efficacy from a Lipophilic Redox-Modulating Mn(III) N-Hexylpyridylporphyrin, MnTnHex-2-PyP: Rodent Models of Ischemic Stroke and Subarachnoid Hemorrhage. Journal of Pharmacology and Experimental Therapeutics, 2011, 338, 906-916.	2.5	60
85	Superoxide Dismutase Mimics: Chemistry, Pharmacology, and Therapeutic Potential. Antioxidants and Redox Signaling, 2010, 13, 877-918.	5.4	460
86	Pure MnTBAP selectively scavenges peroxynitrite over superoxide: Comparison of pure and commercial MnTBAP samples to MnTE-2-PyP in two models of oxidative stress injury, an SOD-specific Escherichia coli model and carrageenan-induced pleurisy. Free Radical Biology and Medicine, 2009, 46, 192-201.	2.9	119
87	Radioprotective effects of manganese-containing superoxide dismutase mimics on ataxiaâ€“telangiectasia cells. Free Radical Biology and Medicine, 2009, 47, 250-260.	2.9	65
88	Long-term neuroprotection from a potent redox-modulating metalloporphyrin in the rat. Free Radical Biology and Medicine, 2009, 47, 917-923.	2.9	48
89	Antiangiogenic action of redox-modulating Mn(III) meso-tetrakis(N-ethylpyridinium-2-yl)porphyrin, MnTE-2-PyP5+, via suppression of oxidative stress in a mouse model of breast tumor. Free Radical Biology and Medicine, 2009, 47, 992-1004.	2.9	90
90	Pure manganese(III) 5,10,15,20-tetrakis(4-benzoic acid)porphyrin (MnTBAP) is not a superoxide dismutase mimic in aqueous systems: a case of structureâ€“activity relationship as a watchdog mechanism in experimental therapeutics and biology. Journal of Biological Inorganic Chemistry, 2008, 13, 289-302.	2.6	89

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91	Pharmacokinetics of the potent redox-modulating manganese porphyrin, MnTE-2-PyP5+, in plasma and major organs of B6C3F1 mice. Free Radical Biology and Medicine, 2008, 45, 943-949.	2.9	61
92	SOD-like activity of Mn(II) Î²-octabromo-meso-tetrakis(N-methylpyridinium-3-yl)porphyrin equals that of the enzyme itself. Archives of Biochemistry and Biophysics, 2008, 477, 105-112.	3.0	46
93	An SOD mimic protects NADP⁺-dependent isocitrate dehydrogenase against oxidative inactivation. Free Radical Research, 2008, 42, 618-624.	3.3	22
94	Mn porphyrin-based superoxide dismutase (SOD) mimic, MnIIITE-2-PyP5+, targets mouse heart mitochondria. Free Radical Biology and Medicine, 2007, 42, 1193-1200.	2.9	103
95	New approach to the activation of anti-cancer pro-drugs by metalloporphyrin-based cytochrome P450 mimics in all-aqueous biologically relevant system. Journal of Inorganic Biochemistry, 2006, 100, 1897-1902.	3.5	35
96	Cryptococcus neoformans Mitochondrial Superoxide Dismutase: an Essential Link between Antioxidant Function and High-Temperature Growth. Eukaryotic Cell, 2005, 4, 46-54.	3.4	95
97	Tetrahydrobiopterin rapidly reduces the SOD mimic Mn(III) ortho -tetrakis(N) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 Td (-et	2.9	36
98	New class of potent catalysts of O₂Ë™^{â^'}dismutation. Mn(<scp>iii</scp>) ortho-methoxyethylpyridyl- and di-ortho-methoxyethylimidazolylporphyrins. Dalton Transactions, 2004, , 1696-1702.	3.3	126
99	Meso tetrakis ortho-, meta-, and para-N-alkylpyridiniopor-phyrins: kinetics of copper(II) and zinc(II) incorporation and zinc porphyrin demetalation. Journal of Porphyrins and Phthalocyanines, 2003, 07, 139-146.	0.8	8
100	Reactions of Manganese Porphyrins with Peroxynitrite and Carbonate Radical Anion. Journal of Biological Chemistry, 2003, 278, 27432-27438.	3.4	155
101	Manganese porphyrins and related compounds as mimics of superoxide dismutase. Methods in Enzymology, 2002, 349, 223-233.	1.0	64
102	A Metalloporphyrin-Based Superoxide Dismutase Mimic Inhibits Adoptive Transfer of Autoimmune Diabetes by a Diabetogenic T-Cell Clone. Diabetes, 2002, 51, 347-355.	0.6	181
103	Manganese(iii) meso-tetrakis(ortho-N-alkylpyridyl)porphyrins. Synthesis, characterization, and catalysis of O2Ë™â^' dismutation. Dalton Transactions RSC, 2002, , 2689.	2.3	113
104	Electrospray mass spectrometry of isomeric tetrakis(N-alkylpyridyl)porphyrins and their manganese(III) and iron(III) complexes. Journal of Porphyrins and Phthalocyanines, 2000, 04, 217-227.	0.8	28
105	Syntheses and Superoxide Dismuting Activities of Partially (1â^'4) Î²-Chlorinated Derivatives of Manganese(III) meso-Tetrakis(N-ethylpyridinium-2-yl)porphyrin. Inorganic Chemistry, 1999, 38, 391-396.	4.0	71
106	Relationship among Redox Potentials, Proton Dissociation Constants of Pyrrolic Nitrogens, and in Vivo and in Vitro Superoxide Dismutating Activities of Manganese(III) and Iron(III) Water-Soluble Porphyrins. Inorganic Chemistry, 1999, 38, 4011-4022.	4.0	251
107	Catalytic Scavenging of Peroxynitrite by Isomeric Mn(III) N-Methylpyridylporphyrins in the Presence of Reductants. Chemical Research in Toxicology, 1999, 12, 442-449.	3.3	155
108	The Ortho Effect Makes Manganese(III)Meso-Tetrakis(N-Methylpyridinium-2-yl)Porphyrin a Powerful and Potentially Useful Superoxide Dismutase Mimic. Journal of Biological Chemistry, 1998, 273, 24521-24528.	3.4	243

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109	A Potent Superoxide Dismutase Mimic: Manganese Î²-Octabromo-meso-tetrakis-(N-methylpyridinium- 4-yl) Porphyrin. Archives of Biochemistry and Biophysics, 1997, 343, 225-233.	3.0	131
110	Second-Sphere Coordination of Ferrioxamine B and Association of Deferriferrioxamine B, CH3(CH2)4NH3+, NH4+, K+, and Mg2+with Synthetic Crown Ethers and the Natural Ionophores Valinomycin and Nonactin in Chloroform. Inorganic Chemistry, 1996, 35, 2352-2359.	4.0	28