

Artak G Tovmasyan

List of Publications by Year in descending order

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75
papers

2,855
citations

172457

29
h-index

182427

51
g-index

100
all docs

100
docs citations

100
times ranked

2730
citing authors

#	ARTICLE	IF	CITATIONS
1	A Redoxable Mn Porphyrin, MnTnBuOE-2-PyP5+, Synergizes with Carboplatin in Treatment of Chemoresistant Ovarian Cell Line. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-16.	4.0	5
2	Simultaneous determination of LY3214996, abemaciclib, and M2 and M20 metabolites in human plasma, cerebrospinal fluid, and brain tumor by LC-MS/MS. <i>Journal of Pharmaceutical Analysis</i> , 2022, 12, 601-609.	5.3	4
3	Ascorbate-dependent and ascorbate-independent Mn porphyrin cytotoxicity: anticancer activity of Mn porphyrin-based SOD mimics through ascorbate-dependent and -independent routes. <i>Redox Report</i> , 2021, 26, 85-93.	4.5	1
4	H2O2-Driven Anticancer Activity of Mn Porphyrins and the Underlying Molecular Pathways. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-23.	4.0	30
5	Roles of Phytoestrogen in the Pathophysiology of Intracranial Aneurysm. <i>Stroke</i> , 2021, 52, 2661-2670.	2.0	7
6	Antibacterial Activity of Synthetic Cationic Iron Porphyrins. <i>Antioxidants</i> , 2020, 9, 972.	5.1	10
7	Preclinical Testing of a Novel Niclosamide Stearate Prodrug Therapeutic (NSPT) Shows Efficacy Against Osteosarcoma. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1448-1461.	4.1	17
8	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+. <i>Antioxidants</i> , 2020, 9, 467.	5.1	8
9	Radiation-Mediated Tumor Growth Inhibition Is Significantly Enhanced with Redox-Active Compounds That Cycle with Ascorbate. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1196-1214.	5.4	30
10	Mitochondrial ROS cause motor deficits induced by synaptic inactivity: Implications for synapse pruning. <i>Redox Biology</i> , 2018, 16, 344-351.	9.0	43
11	Porphyrin-Based SOD Mimic MnTnBuOE-2-PyP5+ Inhibits Mechanisms of Aortic Valve Remodeling in Human and Murine Models of Aortic Valve Sclerosis. <i>Journal of the American Heart Association</i> , 2018, 7, e007861.	3.7	16
12	Sublethal Photodynamic Treatment Does Not Lead to Development of Resistance. <i>Frontiers in Microbiology</i> , 2018, 9, 1699.	3.5	42
13	Manganese porphyrin redox state in endothelial cells: Resonance Raman studies and implications for antioxidant protection towards peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2018, 126, 379-392.	2.9	10
14	Mn Porphyrin-Based Redox-Active Drugs: Differential Effects as Cancer Therapeutics and Protectors of Normal Tissue Against Oxidative Injury. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1691-1724.	5.4	102
15	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. <i>Antioxidants</i> , 2018, 7, 40.	5.1	30
16	Challenges encountered during development of Mn porphyrin-based, potent redox-active drug and superoxide dismutase mimic, MnTnBuOE-2-PyP5+, and its alkoxyalkyl analogues. <i>Journal of Inorganic Biochemistry</i> , 2017, 169, 50-60.	3.5	18
17	CNS bioavailability and radiation protection of normal hippocampal neurogenesis by a lipophilic Mn porphyrin-based superoxide dismutase mimic, MnTnBuOE-2-PyP5+. <i>Redox Biology</i> , 2017, 12, 864-871.	9.0	32
18	Cationic amphiphilic Zn-porphyrin with high antifungal photodynamic potency. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1709-1716.	2.9	31

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19	Potential for a novel manganese porphyrin compound as adjuvant canine lymphoma therapy. <i>Cancer Chemotherapy and Pharmacology</i> , 2017, 80, 421-431.	2.3	2
20	Optimizing Zn porphyrin-based photosensitizers for efficient antibacterial photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 17, 154-159.	2.6	38
21	Novel fluorinated Mn porphyrin as a powerful SOD mimic and catalyst for ascorbate-coupled anticancer therapy. <i>Free Radical Biology and Medicine</i> , 2017, 112, 36-37.	2.9	18
22	Protection of rat prostate and erectile function from radiation-induced damage by novel Mn(III) N - substituted pyridylporphyrin and ascorbate. <i>Free Radical Biology and Medicine</i> , 2017, 112, 35-36.	2.9	2
23	Protection Of Neurocognitive Function During Cranial Irradiation Of Brain Tumors. <i>Free Radical Biology and Medicine</i> , 2017, 112, 13.	2.9	0
24	Post-illumination cellular effects of photodynamic treatment. <i>PLoS ONE</i> , 2017, 12, e0188535.	2.5	8
25	Manganese Porphyrin, MnTE-2-PyP5+, Enhances Chemotherapeutic Response in Hematological Malignancies. <i>Free Radical Biology and Medicine</i> , 2016, 100, S123.	2.9	3
26	Opinion on Schmidt et al.. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 518-524.	5.4	4
27	Important cellular targets for antimicrobial photodynamic therapy. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7679-7688.	3.6	44
28	Neurobehavioral radiation mitigation to standard brain cancer therapy regimens by Mn(III) <i>n</i> -butoxyethylpyridylporphyrin-based redox modifier. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 372-381.	2.2	17
29	Novel role of 4-hydroxy-2-nonenal in AIFm2-mediated mitochondrial stress signaling. <i>Free Radical Biology and Medicine</i> , 2016, 91, 68-80.	2.9	41
30	Redox-Active Mn Porphyrin-based Potent SOD Mimic, MnTnBuOE-2-PyP5+, Enhances Carbenoxolone-Mediated TRAIL-Induced Apoptosis in Glioblastoma Multiforme. <i>Stem Cell Reviews and Reports</i> , 2016, 12, 140-155.	5.6	28
31	Mn Porphyrin-Based Redox-Active Therapeutics. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2016, , 165-212.	0.4	14
32	Comprehensive Study of GPx Activity of Different Classes of Redox-Active Therapeutics - Implications for Their Therapeutic Actions. <i>Free Radical Biology and Medicine</i> , 2015, 87, S86-S87.	2.9	9
33	Mn Porphyrin-Based SOD Mimic and Vitamin C Enhance Radiation-Induced Tumor Growth Inhibition. <i>Free Radical Biology and Medicine</i> , 2015, 87, S97.	2.9	4
34	Amphiphilic cationic Zn-porphyrins with high photodynamic antimicrobial activity. <i>Future Microbiology</i> , 2015, 10, 709-724.	2.0	33
35	Anticancer therapeutic potential of Mn porphyrin/ascorbate system. <i>Free Radical Biology and Medicine</i> , 2015, 89, 1231-1247.	2.9	56
36	Radioprotection of the Brain White Matter by Mn(III) <i>n</i> -Butoxyethylpyridylporphyrin-Based Superoxide Dismutase Mimic MnTnBuOE-2-PyP5+. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 70-79.	4.1	60

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37	A comprehensive evaluation of catalase-like activity of different classes of redox-active therapeutics. <i>Free Radical Biology and Medicine</i> , 2015, 86, 308-321.	2.9	71
38	An educational overview of the chemistry, biochemistry and therapeutic aspects of Mn porphyrins – From superoxide dismutation to H ₂ O ₂ -driven pathways. <i>Redox Biology</i> , 2015, 5, 43-65.	9.0	136
39	Novel Manganese-Porphyrin Superoxide Dismutase-Mimetic Widens the Therapeutic Margin in a Preclinical Head and Neck Cancer Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 892-900.	0.8	61
40	Targeting Mitochondria by Zn(II)-N-Alkylpyridylporphyrins: The Impact of Compound Sub-Mitochondrial Partition on Cell Respiration and Overall Photodynamic Efficacy. <i>PLoS ONE</i> , 2014, 9, e108238.	2.5	33
41	Differential localization and potency of manganese porphyrin superoxide dismutase-mimicking compounds in <i>Saccharomyces cerevisiae</i> . <i>Redox Biology</i> , 2014, 3, 1-6.	9.0	14
42	SOD Therapeutics: Latest Insights into Their Structure-Activity Relationships and Impact on the Cellular Redox-Based Signaling Pathways. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 2372-2415.	5.4	194
43	Metalloporphyrins as Therapeutic Catalytic Oxidoreductants in Central Nervous System Disorders. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 2437-2464.	5.4	39
44	Rational Design of Superoxide Dismutase (SOD) Mimics: The Evaluation of the Therapeutic Potential of New Cationic Mn Porphyrins with Linear and Cyclic Substituents. <i>Inorganic Chemistry</i> , 2014, 53, 11467-11483.	4.0	43
45	Manganese-Based Superoxide Dismutase Mimics Modify Both Acute and Long-Term Outcome Severity in a <i>Drosophila melanogaster</i> Model of Classic Galactosemia. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 2361-2371.	5.4	25
46	Novel amphiphilic cationic porphyrin and its Ag(II) complex as potential anticancer agents. <i>Journal of Inorganic Biochemistry</i> , 2014, 140, 94-103.	3.5	23
47	Simple Biological Systems for Assessing the Activity of Superoxide Dismutase Mimics. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 2416-2436.	5.4	48
48	Mn porphyrin-based SOD mimic, MnTnHex-2-PyP ⁵⁺ , and non-SOD mimic, MnTBAP ³⁺ , suppressed rat spinal cord ischemia/reperfusion injury via NF- κ B pathways. <i>Free Radical Research</i> , 2014, 48, 1426-1442.	3.3	27
49	Robust rat pulmonary radioprotection by a lipophilic Mn N-alkylpyridylporphyrin, MnTnHex-2-PyP ⁵⁺ . <i>Redox Biology</i> , 2014, 2, 400-410.	9.0	27
50	Mn porphyrin in combination with ascorbate acts as a pro-oxidant and mediates caspase-independent cancer cell death. <i>Free Radical Biology and Medicine</i> , 2014, 68, 302-314.	2.9	64
51	Differential Coordination Demands in Fe versus Mn Water-Soluble Cationic Metalloporphyrins Translate into Remarkably Different Aqueous Redox Chemistry and Biology. <i>Inorganic Chemistry</i> , 2013, 52, 5677-5691.	4.0	60
52	Comprehensive pharmacokinetic studies and oral bioavailability of two Mn porphyrin-based SOD mimics, MnTE-2-PyP ⁵⁺ and MnTnHex-2-PyP ⁵⁺ . <i>Free Radical Biology and Medicine</i> , 2013, 58, 73-80.	2.9	51
53	Superoxide dismutase mimic, MnTE-2-PyP ⁵⁺ ameliorates acute and chronic proctitis following focal proton irradiation of the rat rectum. <i>Redox Biology</i> , 2013, 1, 599-607.	9.0	28
54	Effect of Molecular Characteristics on Cellular Uptake, Subcellular Localization, and Phototoxicity of Zn(II) N-Alkylpyridylporphyrins. <i>Journal of Biological Chemistry</i> , 2013, 288, 36579-36588.	3.4	77

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55	Mechanistic Considerations of the Therapeutic Effects of Mn Porphyrins, Commonly Regarded as SOD Mimics, in Anticancer Therapy: Lessons from Brain and Lymphoma Studies. <i>Free Radical Biology and Medicine</i> , 2013, 65, S120-S121.	2.9	7
56	Late administration of Mn porphyrin-based SOD mimic enhances diabetic complications. <i>Redox Biology</i> , 2013, 1, 457-466.	9.0	20
57	The complex mechanistic aspects of redox-active compounds, commonly regarded as SOD mimics. <i>Bioinorganic Reaction Mechanisms</i> , 2013, 9, .	0.4	7
58	Design, Mechanism of Action, Bioavailability and Therapeutic Effects of Mn Porphyrin-Based Redox Modulators. <i>Medical Principles and Practice</i> , 2013, 22, 103-130.	2.4	81
59	Mn Porphyrin Regulation of Aerobic Glycolysis: Implications on the Activation of Diabetogenic Immune Cells. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1902-1915.	5.4	29
60	Abstract 5552: Manganese porphyrins in combination with ascorbate act as pro-oxidants and mediate caspase-independent cancer cell death.. <i>Cancer Research</i> , 2013, 73, 5552-5552.	0.9	2
61	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. <i>Free Radical Biology and Medicine</i> , 2012, 53, S118.	2.9	6
62	Manganese superoxide dismutase, MnSOD and its mimics. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 794-814.	3.8	312
63	Mn Porphyrins as Novel Molecular Magnetic Resonance Imaging Contrast Agents. <i>Journal of Endourology</i> , 2012, 26, 1420-1424.	2.1	16
64	A new SOD mimic, Mn(III) ortho N-butoxyethylpyridylporphyrin, combines superb potency and lipophilicity with low toxicity. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1828-1834.	2.9	70
65	Design of Mn porphyrins for treating oxidative stress injuries and their redox-based regulation of cellular transcriptional activities. <i>Amino Acids</i> , 2012, 42, 95-113.	2.7	97
66	Methoxy-derivatization of alkyl chains increases the in vivo efficacy of cationic Mn porphyrins. Synthesis, characterization, SOD-like activity, and SOD-deficient E. coli study of meta Mn(III) N-methoxyalkylpyridylporphyrins. <i>Dalton Transactions</i> , 2011, 40, 4111.	3.3	33
67	Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1035-1053.	2.9	122
68	Lipophilic Mn Porphyrins in the Treatment of Brain Tumors. <i>Free Radical Biology and Medicine</i> , 2011, 51, S119-S120.	2.9	8
69	Fe porphyrins Revisited: Synthesis, Characterization and the Effects of Ortho and Meta Fe(III) N-Alkylpyridylporphyrins Upon the Growth of E. Coli in the Presence and Absence of Ascorbate. <i>Free Radical Biology and Medicine</i> , 2011, 51, S99.	2.9	2
70	Cytotoxic effects of Mn(III) N-alkylpyridylporphyrins in the presence of cellular reductant, ascorbate. <i>Free Radical Research</i> , 2011, 45, 1289-1306.	3.3	50
71	Mn-Porphyrins as Novel Molecular MRI Contrast Agents. <i>Journal of Endourology</i> , 2011, , 111222131612007.	2.1	3
72	Accumulation of Porphyrin-based SOD Mimics in Mitochondria is Proportional to Their Lipophilicity: S. cerevisiae Study of ortho Mn(III) N-alkylpyridylporphyrins. <i>Free Radical Biology and Medicine</i> , 2010, 49, S199.	2.9	18

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73	Photodynamic inactivation of Gram (-) and Gram (+) microorganisms by cationic porphyrins and metalloporphyrins. Proceedings of SPIE, 2009, , .	0.8	3
74	Synthesis and <i>in vitro</i> anticancer activity of water-soluble cationic pyridylporphyrins and their metallocomplexes. Journal of Porphyrins and Phthalocyanines, 2008, 12, 1100-1110.	0.8	26
75	In Vitro Testing of Cyto- and Genotoxicity of New Porphyrin Water-Soluble Metal Derivatives. International Journal of Toxicology, 2007, 26, 497-502.	1.2	7