

Massimiliano Peana

List of Publications by Year in descending order

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88
papers

4,229
citations

172386
29
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118793
62
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88
all docs

88
docs citations

88
times ranked

5462
citing authors

#	ARTICLE	IF	CITATIONS
1	Noble metals in medicine: Latest advances. <i>Coordination Chemistry Reviews</i> , 2015, 284, 329-350.	9.5	586
2	The essential metals for humans: a brief overview. <i>Journal of Inorganic Biochemistry</i> , 2019, 195, 120-129.	1.5	533
3	Silver coordination compounds: A new horizon in medicine. <i>Coordination Chemistry Reviews</i> , 2016, 327-328, 349-359.	9.5	213
4	From The Cover: Experimentally exploring the conformational space sampled by domain reorientation in calmodulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6841-6846.	3.3	209
5	Medical Uses of Silver: History, Myths, and Scientific Evidence. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 5923-5943.	2.9	186
6	Toxicity of Nanoparticles. <i>Current Medicinal Chemistry</i> , 2014, 21, 3837-3853.	1.2	179
7	Paramagnetism-Based NMR Restraints Provide Maximum Allowed Probabilities for the Different Conformations of Partially Independent Protein Domains. <i>Journal of the American Chemical Society</i> , 2007, 129, 12786-12794.	6.6	124
8	Interrelations between COVID-19 and other disorders. <i>Clinical Immunology</i> , 2021, 224, 108651.	1.4	107
9	An updated overview on metal nanoparticles toxicity. <i>Seminars in Cancer Biology</i> , 2021, 76, 17-26.	4.3	97
10	The glutathione system in Parkinson's disease and its progression. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 120, 470-478.	2.9	93
11	The role of glutathione redox imbalance in autism spectrum disorder: A review. <i>Free Radical Biology and Medicine</i> , 2020, 160, 149-162.	1.3	84
12	Micronutrients as immunomodulatory tools for COVID-19 management. <i>Clinical Immunology</i> , 2020, 220, 108545.	1.4	83
13	Arsenic intoxication: general aspects and chelating agents. <i>Archives of Toxicology</i> , 2020, 94, 1879-1897.	1.9	74
14	Environmental barium: potential exposure and health-hazards. <i>Archives of Toxicology</i> , 2021, 95, 2605-2612.	1.9	68
15	Health benefits of xylitol. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7225-7237.	1.7	60
16	Chloroquine and hydroxychloroquine in the treatment of COVID-19: the never-ending story. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1333-1343.	1.7	59
17	Micronutrients deficiencies in patients after bariatric surgery. <i>European Journal of Nutrition</i> , 2022, 61, 55-67.	1.8	50
18	A Comprehensive Review on Oxysterols and Related Diseases. <i>Current Medicinal Chemistry</i> , 2020, 28, 110-136.	1.2	47

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19	Copper and nickel binding in multi-histidinic peptide fragments. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 1214-1220.	1.5	45
20	Kill or cure: Misuse of chelation therapy for human diseases. <i>Coordination Chemistry Reviews</i> , 2015, 284, 278-285.	9.5	44
21	Tungsten-induced carcinogenesis in human bronchial epithelial cells. <i>Toxicology and Applied Pharmacology</i> , 2015, 288, 33-39.	1.3	43
22	Thioredoxin reductase as a pharmacological target. <i>Pharmacological Research</i> , 2021, 174, 105854.	3.1	41
23	Competition between Cd(II) and other divalent transition metal ions during complex formation with amino acids, peptides, and chelating agents. <i>Coordination Chemistry Reviews</i> , 2016, 327-328, 55-69.	9.5	39
24	Chemical features of in use and in progress chelators for iron overload. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 38, 10-18.	1.5	37
25	Metal Toxicity and Speciation: A Review. <i>Current Medicinal Chemistry</i> , 2021, 28, 7190-7208.	1.2	37
26	Krebs cycle: activators, inhibitors and their roles in the modulation of carcinogenesis. <i>Archives of Toxicology</i> , 2021, 95, 1161-1178.	1.9	35
27	Nickel binding sites in histone proteins: Spectroscopic and structural characterization. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2737-2751.	9.5	34
28	Gold nanoparticles and cancer: Detection, diagnosis and therapy. <i>Seminars in Cancer Biology</i> , 2021, 76, 27-37.	4.3	34
29	The microbiota-mediated dietary and nutritional interventions for COVID-19. <i>Clinical Immunology</i> , 2021, 226, 108725.	1.4	32
30	The binding of Ni(ii) and Cu(ii) with the N-terminal tail of the histone H4. <i>Dalton Transactions RSC</i> , 2002, , 458-465.	2.3	31
31	Copper(ii) binding to Cap43 protein fragments. <i>Dalton Transactions</i> , 2008, , 6127.	1.6	31
32	Mn(ii) and Zn(ii) interactions with peptide fragments from Parkinson's disease genes. <i>Dalton Transactions</i> , 2012, 41, 4378.	1.6	31
33	Interaction of divalent cations with peptide fragments from Parkinson's disease genes. <i>Dalton Transactions</i> , 2013, 42, 5964-5974.	1.6	30
34	A new bis-3-hydroxy-4-pyrone as a potential therapeutic iron chelating agent. Effect of connecting and side chains on the complex structures and metal ion selectivity. <i>Journal of Inorganic Biochemistry</i> , 2014, 141, 132-143.	1.5	30
35	Coordination Environment of Cu(II) Ions Bound to N-Terminal Peptide Fragments of Angiogenin Protein. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1240.	1.8	29
36	Mercury-induced autoimmunity: Drifting from micro to macro concerns on autoimmune disorders. <i>Clinical Immunology</i> , 2020, 213, 108352.	1.4	29

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37	Multidimensional NMR spectroscopy for the study of histone H4â€“Ni(ii) interaction. Dalton Transactions, 2007, , 379-384.	1.6	28
38	Toxicity of Nanoparticles: Etiology and Mechanisms. , 2017, , 511-546.		28
39	The impact of glutathione metabolism in autism spectrum disorder. Pharmacological Research, 2021, 166, 105437.	3.1	28
40	NMR studies of zinc binding in a multi-histidinic peptide fragment. Dalton Transactions, 2010, 39, 1282-1294.	1.6	27
41	Hydroxypyridinones with enhanced iron chelating properties. Synthesis, characterization and in vivo tests of 5-hydroxy-2-(hydroxymethyl)pyridine-4(1H)-one. Dalton Transactions, 2016, 45, 6517-6528.	1.6	27
42	An NMR study on nickel binding sites in Cap43 protein fragments. Dalton Transactions, 2009, , 5523.	1.6	26
43	Ni(<sc>ii</sc>) binding to the 429â€“460 peptide fragment from human Toll like receptor (hTLR4): a crucial role for nickel-induced contact allergy?. Dalton Transactions, 2014, 43, 2764-2771.	1.6	26
44	Interactions between iron and manganese in neurotoxicity. Archives of Toxicology, 2020, 94, 725-734.	1.9	25
45	Nickel(II) binding to Cap43 protein fragments. Journal of Inorganic Biochemistry, 2004, 98, 931-939.	1.5	24
46	A Model for Manganese interaction with Deinococcus radiodurans proteome network involved in ROS response and defense. Journal of Trace Elements in Medicine and Biology, 2018, 50, 465-473.	1.5	23
47	A SARS-CoV-2 â€“human metalloproteome interaction map. Journal of Inorganic Biochemistry, 2021, 219, 111423.	1.5	23
48	A new tripodal kojic acid derivative for iron sequestration: Synthesis, protonation, complex formation studies with Fe ³⁺ , Al ³⁺ , Cu ²⁺ and Zn ²⁺ , and in vivo bioassays. Journal of Inorganic Biochemistry, 2019, 193, 152-165.	1.5	22
49	The Role of Diet and Supplementation of Natural Products in COVID-19 Prevention. Biological Trace Element Research, 2022, 200, 27-30.	1.9	22
50	Iron Deficiency in Obesity and after Bariatric Surgery. Biomolecules, 2021, 11, 613.	1.8	22
51	Nickel binding to histone H4. Dalton Transactions, 2010, 39, 787-793.	1.6	21
52	Manganese and cobalt binding in a multi-histidinic fragment. Dalton Transactions, 2013, 42, 16293.	1.6	21
53	Metals, autoimmunity, and neuroendocrinology: Is there a connection?. Environmental Research, 2020, 187, 109541.	3.7	20
54	Ni(II) interaction with a peptide model of the human TLR4 ectodomain. Journal of Trace Elements in Medicine and Biology, 2017, 44, 151-160.	1.5	19

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55	The Involvement of Amino Acid Side Chains in Shielding the Nickel Coordination Site: An NMR Study. <i>Molecules</i> , 2013, 18, 12396-12414.	1.7	18
56	Fluoroquinolones: A micro-species equilibrium in the protonation of amphoteric compounds. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 380-391.	1.9	18
57	Tungsten or Wolfram: Friend or Foe?. <i>Current Medicinal Chemistry</i> , 2018, 25, 65-74.	1.2	18
58	Manganism and Parkinson's disease: Mn(II) and Zn(II) interaction with a 30-amino acid fragment. <i>Dalton Transactions</i> , 2016, 45, 5151-5161.	1.6	16
59	Zinc(II) and copper(II) complexes with hydroxypyronone iron chelators. <i>Journal of Inorganic Biochemistry</i> , 2015, 151, 94-106.	1.5	15
60	New strong extrafunctionalizable tris(3,4-HP) and bis(3,4-HP) metal sequestering agents: synthesis, solution and <i>in vivo</i> metal chelation. <i>Dalton Transactions</i> , 2019, 48, 16167-16183.	1.6	15
61	An NMR study on the 6,6- ϵ^2 -(2-(diethylamino)ethylazanediy)bis(methylene)bis(5-hydroxy-2-hydroxymethyl-4H-pyran-4-one) interaction with Al(III) and Zn(II) ions. <i>Journal of Inorganic Biochemistry</i> , 2015, 148, 69-77.	1.5	14
62	<i>para</i> -Aminosalicylic acid in the treatment of manganese toxicity. Complexation of Mn ²⁺ with 4-amino-2-hydroxybenzoic acid and its N-acetylated metabolite. <i>New Journal of Chemistry</i> , 2018, 42, 8035-8049.	1.4	14
63	Manganese binding to antioxidant peptides involved in extreme radiation resistance in <i>Deinococcus radiodurans</i> . <i>Journal of Inorganic Biochemistry</i> , 2016, 164, 49-58.	1.5	13
64	A new tripodal-3-hydroxy-4-pyridinone for iron and aluminium sequestration: synthesis, complexation and <i>in vivo</i> studies. <i>New Journal of Chemistry</i> , 2018, 42, 8050-8061.	1.4	13
65	Nutritional Iron Deficiency: The Role of Oral Iron Supplementation. <i>Current Medicinal Chemistry</i> , 2014, 21, 3775-3784.	1.2	13
66	Equilibrium studies of new bis-hydroxypyronone derivatives with Fe ³⁺ , Al ³⁺ , Cu ²⁺ and Zn ²⁺ . <i>Journal of Inorganic Biochemistry</i> , 2018, 189, 103-114.	1.5	11
67	Analytical and <i>in silico</i> study of the inclusion complexes between tropane alkaloids atropine and scopolamine with cyclodextrins. <i>Chemical Papers</i> , 2021, 75, 5523-5533.	1.0	11
68	Immune compatible cystine-functionalized superparamagnetic iron oxide nanoparticles as vascular contrast agents in ultrasonography. <i>RSC Advances</i> , 2016, 6, 2712-2723.	1.7	10
69	The role of B vitamins in stroke prevention. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 5462-5475.	5.4	10
70	Rh(I) Complexes in Catalysis: A Five-Year Trend. <i>Molecules</i> , 2021, 26, 2553.	1.7	10
71	Structural Identification of Metalloproteomes in Marine Diatoms, an Efficient Algae Model in Toxic Metals Bioremediation. <i>Molecules</i> , 2022, 27, 378.	1.7	10
72	Exploring the Specificity of Rationally Designed Peptides Reconstituted from the Cell-Free Extract of <i>Deinococcus radiodurans</i> toward Mn(II) and Cu(II). <i>Inorganic Chemistry</i> , 2020, 59, 4661-4684.	1.9	9

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73	Interaction of Cu(II) and Ni(II) with Ypk9 Protein Fragment via NMR Studies. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	8
74	Biomarkers of Senescence during Aging as Possible Warnings to Use Preventive Measures. Current Medicinal Chemistry, 2021, 28, 1471-1488.	1.2	8
75	Phosphocalcic metabolism and the role of vitamin D, vitamin K2, and nattokinase supplementation. Critical Reviews in Food Science and Nutrition, 2022, 62, 7062-7071.	5.4	8
76	Interaction of a chelating agent, 5-hydroxy-2-(hydroxymethyl)pyridin-4(1 H)-one, with Al(III), Cu(II) and Zn(II) ions. Journal of Inorganic Biochemistry, 2017, 171, 18-28.	1.5	6
77	Complex formation equilibria of Cu ²⁺ and Zn ²⁺ with Irbesartan and Losartan. European Journal of Pharmaceutical Sciences, 2017, 97, 158-169.	1.9	6
78	Zinc Interactions with a Soluble Mutated Rat Amylin to Mimic Whole Human Amylin: An Experimental and Simulation Approach to Understand Stoichiometry, Speciation and Coordination of the Metal Complexes. Chemistry - A European Journal, 2020, 26, 13072-13084.	1.7	6
79	Noble Metals in Pharmaceuticals: Applications and Limitations. , 2018, , 3-48.		5
80	Metal-chelating properties of carvedilol: an antihypertensive drug with antioxidant activity. Journal of Coordination Chemistry, 2009, 62, 3828-3836.	0.8	4
81	Substituent effects on ionization constants as a predictive tool of coordinating ability. Monatshefte für Chemie, 2016, 147, 719-724.	0.9	4
82	The Intriguing Potential of "Minor" Noble Metals: Emerging Trends and New Applications. , 2018, , 49-72.		4
83	The Proteomics Study of Compounded HFE/TF/TfR2/HJV Genetic Variations in a Thai Family with Iron Overload, Chronic Anemia, and Motor Neuron Disorder. Journal of Molecular Neuroscience, 2021, 71, 545-555.	1.1	4
84	Thermodynamic Study of Oxidovanadium(IV) with Kojic Acid Derivatives: A Multi-Technique Approach. Pharmaceuticals, 2021, 14, 1037.	1.7	4
85	Looking at new ligands for chelation therapy. New Journal of Chemistry, 2018, 42, 8021-8034.	1.4	3
86	Awareness and risk factors of autism spectrum disorder in an Egyptian population. Research in Autism Spectrum Disorders, 2021, 84, 101781.	0.8	3
87	Individual risk management strategy for SARS-CoV-2 infection: A step toward personalized healthcare. International Immunopharmacology, 2021, 96, 107629.	1.7	1
88	Gold Clusters: From the Dispute on a Gold Chair to the Golden Future of Nanostructures. Molecules, 2021, 26, 5014.	1.7	1