

The essential metals for humans: a brief overview

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Blood reference values for metals in a general adult population in southern Brazil. <i>Environmental Research</i> , 2019, 177, 108646.	3.7	6
2	The role of zinc, copper, manganese and iron in neurodegenerative diseases. <i>NeuroToxicology</i> , 2019, 74, 230-241.	1.4	275
3	Biophysical approaches for the study of metal-protein interactions. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110783.	1.5	21
4	Spatial and temporal distribution and contamination assessment of heavy metal in Woji Creek. <i>Environmental Research Communications</i> , 2019, 1, 111003.	0.9	22
5	Oxovanadium(IV) Coordination Compounds with Kojic Acid Derivatives in Aqueous Solution. <i>Molecules</i> , 2019, 24, 3768.	1.7	9
6	Medicinal bio-inorganic chemistry: papers from the Third International Summer School of Bioinorganic Medicinal Chemistry, Cagliari, Italy. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110798.	1.5	0
7	Metals and emerging contaminants in groundwater and human health risk assessment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24581-24594.	2.7	22
8	Studies on the interaction of antibiotic drug rifampin with DNA and influence of bivalent metal ions on binding affinity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 195-201.	2.0	19
9	Reference Measurements for Priority and Essential Trace Elements and Methyl Mercury with Isotope Dilution Inductively Coupled Plasma-Mass Spectrometry for Seafood Safety Assessment and CRM Production. <i>Food Analytical Methods</i> , 2020, 13, 390-402.	1.3	3
10	Carbon quantum dots (CQDs) modified ZnO/CdS nanoparticles based fluorescence sensor for highly selective and sensitive detection of Fe(III). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117717.	2.0	34
11	Cellulose-metallothionein biosorbent for removal of Pb(II) and Zn(II) from polluted water. <i>Chemosphere</i> , 2020, 246, 125733.	4.2	38
12	Enhancing biocompatibility and corrosion resistance of biodegradable Mg-Zn-Y-Nd alloy by preparing PDA/HA coating for potential application of cardiovascular biomaterials. <i>Materials Science and Engineering C</i> , 2020, 109, 110607.	3.8	83
13	Elemental content of brown crab (<i>Cancer pagurus</i>) – Is it safe for human consumption? A recent case study from Mausund, Norway. <i>Science of the Total Environment</i> , 2020, 716, 135175.	3.9	6
14	Malonyl-based Chemosensors: Selective Detection of Fe ³⁺ Ion in Aqueous Medium. <i>Analytical Sciences</i> , 2020, 36, 659-663.	0.8	8
15	Inorganic ions in the skin: Allies or enemies?. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119991.	2.6	7
16	Elevated non-essential metals and the disordered metabolism of essential metals are associated to abnormal pregnancy with spontaneous abortion. <i>Environment International</i> , 2020, 144, 106061.	4.8	21
17	Malnutrition: Current Challenges and Future Perspectives. , 0, , .		1
18	Efficient biodegradable flexible hydrophobic thermoelectric material based on biomass-derived nanocellulose film and copper iodide thin nanostructured layer. <i>Solar Energy</i> , 2020, 212, 231-240.	2.9	11

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19	Fragmentation Study, Dual Anti-Bactericidal and Anti-Viral Effects and Molecular Docking of Cobalt(III) Complexes. International Journal of Molecular Sciences, 2020, 21, 8355.	1.8	10
20	Bioinformatics of Metalloproteins and Metalloproteomes. Molecules, 2020, 25, 3366.	1.7	38
21	Micronutrients as immunomodulatory tools for COVID-19 management. Clinical Immunology, 2020, 220, 108545.	1.4	83
22	Advances in bioceramics for bone implant applications. Bio-Design and Manufacturing, 2020, 3, 307-330.	3.9	16
23	Toxic atmospheric pollutants from crematoria ovens: characterization, emission factors, and modeling. Environmental Science and Pollution Research, 2020, 27, 43800-43812.	2.7	4
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25	A Critical Review on the Synthesis and Application of Ion-Imprinted Polymers for Selective Preconcentration, Speciation, Removal and Determination of Trace and Essential Metals from Different Matrices. Critical Reviews in Analytical Chemistry, 2022, 52, 314-326.	1.8	22
26	Assessment of Pb, Cd, Cr and Ni in Water and Water Hyacinth (Eichhornia crassipes) Plant from Woji Creek, Rivers State, Nigeria. Journal of Applied Sciences and Environmental Management, 2020, 24, 719-727.	0.1	5
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28	Elemental (As, Zn, Fe and Cu) analysis and health risk assessment of rice grains and rice based food products collected from markets from different cities of Gangetic basin, India. Journal of Food Composition and Analysis, 2020, 93, 103612.	1.9	29
29	PubChemQC PM6: Data Sets of 221 Million Molecules with Optimized Molecular Geometries and Electronic Properties. Journal of Chemical Information and Modeling, 2020, 60, 5891-5899.	2.5	36
30	Urinary metal mixtures and longitudinal changes in glucose homeostasis: The Study of Women's Health Across the Nation (SWAN). Environment International, 2020, 145, 106109.	4.8	43
31	ICP-MS and trace element analysis as tools for better understanding medical conditions. TrAC - Trends in Analytical Chemistry, 2020, 133, 116094.	5.8	37
32	Differential Roles of Extracellular Histidine Residues of GPR68 for Proton-Sensing and Allosteric Modulation by Divalent Metal Ions. Biochemistry, 2020, 59, 3594-3614.	1.2	11
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34	Gallium Porphyrin and Gallium Nitrate Synergistically Inhibit Mycobacterial Species by Targeting Different Aspects of Iron/Heme Metabolism. ACS Infectious Diseases, 2020, 6, 2582-2591.	1.8	21
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38	Arsenic intoxication: general aspects and chelating agents. <i>Archives of Toxicology</i> , 2020, 94, 1879-1897.	1.9	74
39	Elemental Content in <i>Pleurotus ostreatus</i> and <i>Cyclocybe cylindracea</i> Mushrooms: Correlations with Concentrations in Cultivation Substrates and Effects on the Production Process. <i>Molecules</i> , 2020, 25, 2179.	1.7	21
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48	Multifunctional Surface with Enhanced Angiogenesis for Improving Long-Term Osteogenic Fixation of Poly(ether ether ketone) Implants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14971-14982.	4.0	54
49	Use of biomass for a development of nanocellulose-based biodegradable flexible thin film thermoelectric material. <i>Solar Energy</i> , 2020, 201, 21-27.	2.9	26
50	1. Introduction: Transition Metals and Sulfur. , 2020, 20, 1-18.		1
51	Metallic iron in cornflakes. <i>Food and Function</i> , 2020, 11, 2938-2942.	2.1	2
52	Effects of TiO ₂ content and thermal parameters on crystallization kinetics and mechanical properties of phosphate based glass system. <i>Thermochimica Acta</i> , 2020, 690, 178699.	1.2	7
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54	Association between Serum Essential Metal Elements and the Risk of Schizophrenia in China. <i>Scientific Reports</i> , 2020, 10, 10875.	1.6	22

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56	Metals, autoimmunity, and neuroendocrinology: Is there a connection?. <i>Environmental Research</i> , 2020, 187, 109541.	3.7	20
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60	The regulation and functions of DNA and RNA G-quadruplexes. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 459-474.	16.1	707
61	Recent trends in metal ion based hydrogel biomaterials for tissue engineering and other biomedical applications. <i>Journal of Materials Science and Technology</i> , 2021, 63, 35-53.	5.6	58
62	A new DGT technique comprising a hybrid sensor for the simultaneous high resolution 2-D imaging of sulfides, metallic cations, oxyanions and dissolved oxygen. <i>Journal of Hazardous Materials</i> , 2021, 403, 123597.	6.5	20
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72	Durum and Bread Wheat Flours. Preliminary Mineral Characterization and Its Potential Health Claims. <i>Agronomy</i> , 2021, 11, 108.	1.3	14

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74	Assessment of Arsenic Contamination in Groundwater and Affected Population of Bihar. , 2021, , 165-191.		5
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80	Artificial Organelles: Towards Adding or Restoring Intracellular Activity. <i>ChemBioChem</i> , 2021, 22, 2051-2078.	1.3	38
81	Comparative Study of Heavy Metal Concentration in Eggs Originating from Industrial Poultry Farms and Free-Range Hens in Kosovo. <i>Journal of Food Quality</i> , 2021, 2021, 1-7.	1.4	10
82	Knochen und Immunität. <i>Osteopathische Medizin</i> , 2021, 22, 4-8.	0.2	0
83	Dietary Antioxidants in the Treatment of Male Infertility: Counteracting Oxidative Stress. <i>Biology</i> , 2021, 10, 241.	1.3	26
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85	In Vitro Fabrication of Microscale Secretory Granules. <i>Advanced Functional Materials</i> , 2021, 31, 2100914.	7.8	13
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92	A matter of concern – Trace element dyshomeostasis and genomic stability in neurons. <i>Redox Biology</i> , 2021, 41, 101877.	3.9	24
93	The Cytotoxic Activity of Diiron Bis-Cyclopentadienyl Complexes with Bridging C3-Ligands. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4351.	1.3	5
94	Assessment of Macro-, Micro-, Trace, and Ultratrace Element Concentration in Green-Legged Partridge Hens' Eggs from a Free-Range System. <i>Agriculture (Switzerland)</i> , 2021, 11, 473.	1.4	3
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98	Multifunctional Scaffolds and Synergistic Strategies in Tissue Engineering and Regenerative Medicine. <i>Pharmaceutics</i> , 2021, 13, 792.	2.0	29
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103	Characterization of the binding affinity between some anti-Parkinson agents and Mn ²⁺ , Fe ³⁺ and Zn ²⁺ metal ions: A DFT insight. <i>Inorganic Chemistry Communication</i> , 2021, 128, 108582.	1.8	5
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107	Easily Available, Amphiphilic Diiron Cyclopentadienyl Complexes Exhibit in Vitro Anticancer Activity in 2D and 3D Human Cancer Cells through Redox Modulation Triggered by CO Release. <i>Chemistry - A European Journal</i> , 2021, 27, 10169-10185.	1.7	25
108	Prenatal exposure to metals and autism spectrum disorder: Current status and future directions. <i>Current Opinion in Toxicology</i> , 2021, 26, 39-48.	2.6	5

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109	Metals in the drinking water of First Nations across Canada. Canadian Journal of Public Health, 2021, 112, 113-132.	1.1	8
110	Metals in Brazilian family farming grapes and estimated daily intake. Food Additives and Contaminants: Part B Surveillance, 2021, 14, 236-243.	1.3	2
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114	A Comprehensive Review of Nutritional Benefits of Minerals in Meat and Meat Products. Science Letters, 2021, 9, 55-64.	0.7	4
115	Micronutrients deficiencies in patients after bariatric surgery. European Journal of Nutrition, 2022, 61, 55-67.	1.8	50
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118	The Metallome as a Link Between the "Omes" in Autism Spectrum Disorders. Frontiers in Molecular Neuroscience, 2021, 14, 695873.	1.4	9
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126	Determination of chemical elements in rice from Singapore markets: Distribution, estimated intake and differentiation of rice varieties. Journal of Food Composition and Analysis, 2021, 101, 103969.	1.9	7

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127	Assessment of essential element accumulation in red swamp crayfish (<i>Procambarus clarkii</i>) and the highly efficient selenium enrichment in freshwater animals. <i>Journal of Food Composition and Analysis</i> , 2021, 101, 103953.	1.9	12
128	DNA-interacting properties of two analogous square-planar cis-chlorido complexes: copper versus palladium. <i>Journal of Biological Inorganic Chemistry</i> , 2021, 26, 727-740.	1.1	7
129	Chemical Profile, Antioxidant, Antimicrobial, and Anticancer Activities of the Water-Ethanol Extract of <i>Pulicaria undulata</i> Growing in the Oasis of Central Saudi Arabian Desert. <i>Plants</i> , 2021, 10, 1811.	1.6	23
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141	Risk factors and assessment strategies for the evaluation of human or environmental risk from metal(loid)s – A focus on Ireland. <i>Science of the Total Environment</i> , 2022, 802, 149839.	3.9	47
142	Biomonitoring of Heavy Metals: The Unexplored Role of Marine Sessile Taxa. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 580.	1.3	18
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145	ELEMENTAL COMPOSITION OF HERBAL TEAS STUDIED BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS AND ATOMIC ABSORPTION SPECTROMETRY. <i>Khimiya Rastitel'nogo Syr'ya</i> , 2020, , 305-314.	0.0	1
146	Mineral and Phytochemical Composition of Cleome Gynandra Methanolic Extract. <i>Advanced Journal of Graduate Research</i> , 2020, 8, 18-26.	0.5	2
147	The Influence of Deuterium on the Properties of Pharmaceutical Substances (Review). <i>Drug Development and Registration</i> , 2020, 9, 24-32.	0.2	3
148	Essential (Mg, Fe, Zn and Cu) and Non-Essential (Cd and Pb) Elements in Predatory Insects (<i>Vespa crabro</i>) Tj ETQq1 1 0.784314 rgBT /Overl 228.	1.8	10
149	Copper(II) and Zinc(II) Complexes with the Clinically Used Fluconazole: Comparison of Antifungal Activity and Therapeutic Potential. <i>Pharmaceuticals</i> , 2021, 14, 24.	1.7	22
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