

# 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.	7.5	6
2	The role of zinc, copper, manganese and iron in neurodegenerative diseases. <i>NeuroToxicology</i> , 2019, 74, 230-241.	3.0	275
3	Biophysical approaches for the study of metal-protein interactions. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110783.	3.5	21
4	Spatial and temporal distribution and contamination assessment of heavy metal in Woji Creek. <i>Environmental Research Communications</i> , 2019, 1, 111003.	2.3	22
5	Oxovanadium(IV) Coordination Compounds with Kojic Acid Derivatives in Aqueous Solution. <i>Molecules</i> , 2019, 24, 3768.	3.8	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.	3.5	0
7	Metals and emerging contaminants in groundwater and human health risk assessment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24581-24594.	5.3	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.	3.9	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.	2.6	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.	3.9	34
11	Cellulose-metallothionein biosorbent for removal of Pb(II) and Zn(II) from polluted water. <i>Chemosphere</i> , 2020, 246, 125733.	8.2	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.	7.3	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.	8.0	6
14	Malonyl-based Chemosensors: Selective Detection of Fe <sup>3+</sup> Ion in Aqueous Medium. <i>Analytical Sciences</i> , 2020, 36, 659-663.	1.6	8
15	Inorganic ions in the skin: Allies or enemies?. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119991.	5.2	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.	10.0	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.	6.1	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.	4.1	10
20	Bioinformatics of Metalloproteins and Metalloproteomes. Molecules, 2020, 25, 3366.	3.8	38
21	Micronutrients as immunomodulatory tools for COVID-19 management. Clinical Immunology, 2020, 220, 108545.	3.2	83
22	Advances in bioceramics for bone implant applications. Bio-Design and Manufacturing, 2020, 3, 307-330.	7.7	16
23	Toxic atmospheric pollutants from crematoria ovens: characterization, emission factors, and modeling. Environmental Science and Pollution Research, 2020, 27, 43800-43812.	5.3	4
24	Corrosion Modeling of Magnesium and Its Alloys for Biomedical Applications: Review. Corrosion and Materials Degradation, 2020, 1, 219-248.	2.4	25
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.	3.5	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
27	Synthesis, structural determination, in vitro and in silico biological evaluation of divalent or trivalent cobalt complexes with indomethacin. Journal of Inorganic Biochemistry, 2020, 212, 111213.	3.5	16
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.	3.9	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.	5.4	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.	10.0	43
31	ICP-MS and trace element analysis as tools for better understanding medical conditions. TrAC - Trends in Analytical Chemistry, 2020, 133, 116094.	11.4	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.	2.5	11
33	Bioactive Glasses: A Promising Therapeutic Ion Release Strategy for Enhancing Wound Healing. ACS Biomaterials Science and Engineering, 2020, 6, 5399-5430.	5.2	99
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.	3.8	21
35	The Role of Magnesium in Pregnancy and in Fetal Programming of Adult Diseases. Biological Trace Element Research, 2021, 199, 3647-3657.	3.5	43
36	Potential anticancer activity of Mn (II) complexes containing arginine dithiocarbamate ligand on MCF-7 breast cancer cell lines. Annals of Medicine and Surgery, 2020, 60, 396-402.	1.1	20

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37	Interaction between Polyphenolic Antioxidants and <i>Saccharomyces cerevisiae</i> Cells Defective in Heavy Metal Transport across the Plasma Membrane. <i>Biomolecules</i> , 2020, 10, 1512.	4.0	8
38	Arsenic intoxication: general aspects and chelating agents. <i>Archives of Toxicology</i> , 2020, 94, 1879-1897.	4.2	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.	3.8	21
40	Associations between essential metals exposure and metabolic syndrome (MetS): Exploring the mediating role of systemic inflammation in a general Chinese population. <i>Environment International</i> , 2020, 140, 105802.	10.0	45
41	Influence of Material Composition on Structure, Surface Properties and Biological Activity of Nanocrystalline Coatings Based on Cu and Ti. <i>Coatings</i> , 2020, 10, 343.	2.6	7
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47	Interactions between iron and manganese in neurotoxicity. <i>Archives of Toxicology</i> , 2020, 94, 725-734.	4.2	25
48	Multifunctional Surface with Enhanced Angiogenesis for Improving Long-Term Osteogenic Fixation of Poly(ether ether ketone) Implants. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14971-14982.	8.0	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.	6.1	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.	4.6	2
52	Effects of TiO2 content and thermal parameters on crystallization kinetics and mechanical properties of phosphate based glass system. <i>Thermochimica Acta</i> , 2020, 690, 178699.	2.7	7
53	Nanoencapsulation of bioactive food ingredients. , 2020, , 279-344.		11
54	Association between Serum Essential Metal Elements and the Risk of Schizophrenia in China. <i>Scientific Reports</i> , 2020, 10, 10875.	3.3	22

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55	Mercury-induced autoimmunity: Drifting from micro to macro concerns on autoimmune disorders. <i>Clinical Immunology</i> , 2020, 213, 108352.	3.2	29
56	Metals, autoimmunity, and neuroendocrinology: Is there a connection?. <i>Environmental Research</i> , 2020, 187, 109541.	7.5	20
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58	Laser additive manufacturing of Mg-based composite with improved degradation behaviour. <i>Virtual and Physical Prototyping</i> , 2020, 15, 278-293.	10.4	82
59	Green and efficient configuration of integrated waste heat and cold energy recovery for marine natural gas/diesel dual-fuel engine. <i>Energy Conversion and Management</i> , 2020, 209, 112650.	9.2	46
60	The regulation and functions of DNA and RNA G-quadruplexes. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 459-474.	37.0	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.	10.7	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.	12.4	20
63	Authentication of Leaves and Petioles of <i>Piper betle</i> L. Varieties via Elemental Composition and Multivariate Chemometric Analysis. <i>Analytical Letters</i> , 2021, 54, 1794-1808.	1.8	6
64	Ultramafic geoeosystems as a natural source of Ni, Cr, and Co to the environment: A review. <i>Science of the Total Environment</i> , 2021, 755, 142620.	8.0	46
65	Heavy metal(loid)s contamination and health risk assessment of soil-rice system in rural and peri-urban areas of lower brahmaputra valley, northeast India. <i>Chemosphere</i> , 2021, 266, 129150.	8.2	57
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68	Food-grade titanium dioxide particles decrease the bioaccessibility of iron released from spinach leaves in simulated human gastrointestinal tract. <i>Environmental Science: Nano</i> , 2021, 8, 1269-1282.	4.3	2
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71	Laser ablation of microdroplets for copper isotopic analysis <i>via</i> MC-ICP-MS. Analysis of serum microsamples for the diagnosis and follow-up treatment of Wilson's disease. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 968-980.	3.0	13
72	Durum and Bread Wheat Flours. Preliminary Mineral Characterization and Its Potential Health Claims. <i>Agronomy</i> , 2021, 11, 108.	3.0	14

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73	Chloroquine and hydroxychloroquine in the treatment of COVID-19: the never-ending story. Applied Microbiology and Biotechnology, 2021, 105, 1333-1343.	3.6	59
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. ChemBioChem, 2021, 22, 2051-2078.	2.6	38
81	Comparative Study of Heavy Metal Concentration in Eggs Originating from Industrial Poultry Farms and Free-Range Hens in Kosovo. Journal of Food Quality, 2021, 2021, 1-7.	2.6	10
82	Knochen und Immunität. Osteopathische Medizin, 2021, 22, 4-8.	0.2	0
83	Dietary Antioxidants in the Treatment of Male Infertility: Counteracting Oxidative Stress. Biology, 2021, 10, 241.	2.8	26
84	Trace Element Analysis in Whole Blood and Plasma for Reference Levels in a Selected Queensland Population, Australia. International Journal of Environmental Research and Public Health, 2021, 18, 2652.	2.6	22
85	In Vitro Fabrication of Microscale Secretory Granules. Advanced Functional Materials, 2021, 31, 2100914.	14.9	13
86	Biological relevance and therapeutic potential of G-quadruplex structures in the human noncoding transcriptome. Nucleic Acids Research, 2021, 49, 3617-3633.	14.5	50
87	Environmental barium: potential exposure and health-hazards. Archives of Toxicology, 2021, 95, 2605-2612.	4.2	68
88	Multielemental Analysis of Bee Pollen, Propolis, and Royal Jelly Collected in West-Central Poland. Molecules, 2021, 26, 2415.	3.8	26
89	Iron Deficiency in Obesity and after Bariatric Surgery. Biomolecules, 2021, 11, 613.	4.0	22
90	Association Between Essential Metal Elements and the Risk of Autism in Chinese Han Population. Biological Trace Element Research, 2022, 200, 505-515.	3.5	8

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92	A matter of concern â€Trace element dyshomeostasis and genomic stability in neurons. Redox Biology, 2021, 41, 101877.	9.0	24
93	The Cytotoxic Activity of Diiron Bis-Cyclopentadienyl Complexes with Bridging C3-Ligands. Applied Sciences (Switzerland), 2021, 11, 4351.	2.5	5
94	Assessment of Macro-, Micro-, Trace, and Ultratrace Element Concentration in Green-Legged Partridge Hensâ€™ Eggs from a Free-Range System. Agriculture (Switzerland), 2021, 11, 473.	3.1	3
95	Use of human teardrop fluid for the determination of trace elements in healthy individuals and diabetic patients. Journal of Trace Elements in Medicine and Biology, 2021, 65, 126733.	3.0	9
96	Phosphocalcic metabolism and the role of vitamin D, vitamin K2, and natto kinase supplementation. Critical Reviews in Food Science and Nutrition, 2022, 62, 7062-7071.	10.3	8
97	Bioaccumulation of Lithium Isotopes in Mussel Soft Tissues and Implications for Coastal Environments. ACS Earth and Space Chemistry, 2021, 5, 1407-1417.	2.7	27
98	Multifunctional Scaffolds and Synergistic Strategies in Tissue Engineering and Regenerative Medicine. Pharmaceutics, 2021, 13, 792.	4.5	29
99	Biodegradable flexible transparent films with copper iodide and biomass-derived nanocellulose for ultraviolet and high-energy visible light protection. Solar Energy, 2021, 220, 852-863.	6.1	13
100	Increased aluminum and lithium and decreased zinc levels in plasma is related to cognitive impairment in workers at an aluminum factory in China: A cross-sectional study. Ecotoxicology and Environmental Safety, 2021, 214, 112110.	6.0	24
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104	Metals and metal-binding ligands in wine: Analytical challenges in identification.. Trends in Food Science and Technology, 2021, 112, 382-390.	15.1	12
105	Differential impact of heavy metals on neurotoxicity during development and in aging central nervous system. Current Opinion in Toxicology, 2021, 26, 33-38.	5.0	19
106	Toxic Metal Species and â€Endogenousâ€™ Metalloproteins at the Bloodâ€Organ Interface: Analytical and Bioinorganic Aspects. Molecules, 2021, 26, 3408.	3.8	11
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. Chemistry - A European Journal, 2021, 27, 10169-10185.	3.3	25
108	Prenatal exposure to metals and autism spectrum disorder: Current status and future directions. Current Opinion in Toxicology, 2021, 26, 39-48.	5.0	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.	2.3	8
110	Metals in Brazilian family farming grapes and estimated daily intake. Food Additives and Contaminants: Part B Surveillance, 2021, 14, 236-243.	2.8	2
111	Coffee Silver Skin: Chemical Characterization with Special Consideration of Dietary Fiber and Heat-Induced Contaminants. Foods, 2021, 10, 1705.	4.3	24
112	Metal and essential element concentrations during pregnancy and associations with autism spectrum disorder and attention-deficit/hyperactivity disorder in children. Environment International, 2021, 152, 106468.	10.0	68
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114	A Comprehensive Review of Nutritional Benefits of Minerals in Meat and Meat Products. Science Letters, 2021, 9, 55-64.	0.4	4
115	Micronutrients deficiencies in patients after bariatric surgery. European Journal of Nutrition, 2022, 61, 55-67.	3.9	50
116	DEUTERIUM AS A TOOL FOR CHANGING THE PROPERTIES OF PHARMACEUTICAL SUBSTANCES (REVIEW). International Journal of Applied Pharmaceutics, 0, , 65-73.	0.3	1
117	Proximate Composition and Nutritive Value of Some Leafy Vegetables from Faisalabad, Pakistan. Sustainability, 2021, 13, 8444.	3.2	10
118	The Metallome as a Link Between the "Omes" in Autism Spectrum Disorders. Frontiers in Molecular Neuroscience, 2021, 14, 695873.	2.9	9
119	Metal Oxide Nanoparticles: Evidence of Adverse Effects on the Male Reproductive System. International Journal of Molecular Sciences, 2021, 22, 8061.	4.1	23
120	Copper-based biomaterials for bone and cartilage tissue engineering. Journal of Orthopaedic Translation, 2021, 29, 60-71.	3.9	57
121	Iron overload induces apoptosis of osteoblast cells via eliciting ER stress-mediated mitochondrial dysfunction and p-eIF2 $\alpha$ /ATF4/CHOP pathway in vitro. Cellular Signalling, 2021, 84, 110024.	3.6	25
122	Electrochemical device based on nonspecific DNAzyme for the high-accuracy determination of Ca <sup>2+</sup> with Pb <sup>2+</sup> interference. Bioelectrochemistry, 2021, 140, 107732.	4.6	10
123	Tailoring metal-organic frameworks-based nanozymes for bacterial theranostics. Biomaterials, 2021, 275, 120951.	11.4	51
124	Identification and characterization of metal uptake ABC transporters in Mycobacterium tuberculosis unveil their ligand specificity. International Journal of Biological Macromolecules, 2021, 185, 324-337.	7.5	4
125	A Novel Aptasensor Based on the Formation of Intermolecular G Quadruplex DNA and Carbon Dots for Fluorescence Determination Potassium Ions in Human Urine and Blood Serum Samples. IEEE Sensors Journal, 2021, 21, 16443-16450.	4.7	3
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.	3.9	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.	3.9	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.	2.6	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.	3.5	23
130	Benefit-risk assessment of metal bioavailability in edible fungi by biomimetic whole digestive tracts with digestion, metabolism, and absorption functions. <i>Journal of Hazardous Materials</i> , 2021, 416, 126146.	12.4	3
131	Highly hydrophobic surfaces with rose petal-effect based on nanocellulose films coated by nanostructured Cu layers. <i>Cellulose</i> , 2021, 28, 9395-9412.	4.9	3
132	Chromium speciation, mobility, and Cr(VI) retention–release processes in ultramafic rocks and Fe–Ni lateritic deposits of Greece. <i>Environmental Geochemistry and Health</i> , 2022, 44, 2815-2834.	3.4	8
133	Gestational blood levels of toxic metal and essential element mixtures and associations with global DNA methylation in pregnant women and their infants. <i>Science of the Total Environment</i> , 2021, 787, 147621.	8.0	13
134	A multi-dimensional non-uniform corrosion model for bioabsorbable metallic vascular stents. <i>Acta Biomaterialia</i> , 2021, 131, 572-580.	8.3	11
135	Natural flocculants for the treatment of wastewaters containing dyes or heavy metals: A state-of-the-art review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106060.	6.7	79
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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.	8.0	47
142	Biomonitoring of Heavy Metals: The Unexplored Role of Marine Sessile Taxa. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 580.	2.5	18
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144	Iron-mediated degradation of ribosomes under oxidative stress is attenuated by manganese. <i>Journal of Biological Chemistry</i> , 2020, 295, 17200-17214.	3.4	13

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145	ELEMENTAL COMPOSITION OF HERBAL TEAS STUDIED BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS AND ATOMIC ABSORPTION SPECTROMETRY. Khimiya Rastitel'nogo Syr'ya, 2020, , 305-314.	0.3	1
146	Mineral and Phytochemical Composition of Cleome Gynandra Methanolic Extract. Advanced Journal of Graduate Research, 2020, 8, 18-26.	0.5	2
147	The Influence of Deuterium on the Properties of Pharmaceutical Substances (Review). Drug Development and Registration, 2020, 9, 24-32.	0.6	3
148	Essential (Mg, Fe, Zn and Cu) and Non-Essential (Cd and Pb) Elements in Predatory Insects (Vespa crabro) Tj ETQq1 1 0.784314 rgBT /Overl	4.1	10
149	Copper(II) and Zinc(II) Complexes with the Clinically Used Fluconazole: Comparison of Antifungal Activity and Therapeutic Potential. Pharmaceuticals, 2021, 14, 24.	3.8	22
150	Micronutrients in Ageing and Longevity. Healthy Ageing and Longevity, 2021, , 63-83.	0.2	2
151	State of the art on the ultrasonic-assisted removal of environmental pollutants using metal-organic frameworks. Journal of Hazardous Materials, 2022, 424, 127558.	12.4	71
152	Dietary Micronutrients from Zygote to Senility: Updated Review of Minerals's Role and Orchestration in Human Nutrition throughout Life Cycle with Sex Differences. Nutrients, 2021, 13, 3740.	4.1	10
153	The Role of Metals in Neurodegenerative Diseases of the Central Nervous System. The Neuroscience Journal of Shefaye Khatam, 2020, 8, 130-146.	0.4	4
154	Analysis of Complexation Interactions between Metal Ions and Drugs under Pseudo-physiological pH Conditions by a High-throughput Screening Method Using a Solid-phase Extraction Cartridge. Analytical Sciences, 2020, 36, 709-713.	1.6	6
155	Interchangeable utilization of metals: New perspectives on the impacts of metal ions employed in ancient and extant biomolecules. Journal of Biological Chemistry, 2021, 297, 101374.	3.4	26
156	Nutritional, antinutritional, and functional properties of different processed (soaking, germination,) Tj ETQq1 1 0.784314 rgBT /Overl	2.0	1
157	Effects of high dietary iron on the lipid metabolism in the liver and adipose tissue of male broiler chickens. Animal Feed Science and Technology, 2021, 282, 115131.	2.2	6
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