Citation Report
List of articles citing

Mechanism and regulation of cellular zinc transport

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#	Paper	IF	Citations
163	Zinc-gene interaction related to inflammatory/immune response in ageing. **2008**, 3, 61-75		17
162	Altered oxidant-mediated intraneuronal zinc mobilization in a triple transgenic mouse model of Alzheimer's disease. **2008**, 43, 488-92		40
161	Trace Minerals. **2008**, 663-693		8
160	Zinc signalling and subcellular distribution: emerging targets in type 2 diabetes. **2008**, 14, 419-28		66
159	Organelle-specific zinc detection using zinpyr-labeled fusion proteins in live cells. **2008**, 130, 15776-7		177
158	Role of Zn2+ ions in host-virus interactions. **2008**, 82, 11486-94		53
157	Investigation of transport mechanisms and regulation of intracellular Zn2+ in pancreatic alpha-cells. *Journal of Biological Chemistry*, **2008**, 283, 10184-97	5.4	87
156	Development of a compartmental model of zinc kinetics in mice. **2008**, 138, 2148-55		12
155	Role of transition metals in the pathogenesis of amyotrophic lateral sclerosis. **2008**, 36, 1322-8		23
154	Roles of the extraintestinal pathogenic Escherichia coli ZnuACB and ZupT zinc transporters during urinary tract infection. **2009**, 77, 1155-64		94
153	The metal homeostasis protein, Lsp, of Streptococcus pyogenes is necessary for acquisition of zinc and virulence. **2009**, 77, 2840-8		50
152	Demonstration and characterization of the heterodimerization of ZnT5 and ZnT6 in the early secretory pathway. *Journal of Biological Chemistry*, **2009**, 284, 30798-806	5.4	78
151	Identification of the Zn2+ binding site and mode of operation of a mammalian Zn2+ transporter. *Journal of Biological Chemistry*, **2009**, 284, 17677-86	5.4	144
150	FIB/SEM cell sectioning for intracellular metal granules characterization. **2009**,		0
149	Importance of Zinc in Cystic Fibrosis Patients. **2009**, 5, 184-188		2
148	Secretory state regulates Zn2+ transport in gastric parietal cell of the rabbit. **2009**, 297, C979-89		11
147	Zinc coordination is required for and regulates transcription activation by Epstein-Barr nuclear antigen 1. **2009**, 5, e1000469		28

146	Zinc: the brain's dark horse. **2009**, 63, 1029-49		206
145	The ubiquitous role of zinc in health and disease. **2009**, 19, 215-40		71
144	Copper, iron, and zinc ions homeostasis and their role in neurodegenerative disorders (metal uptake, transport, distribution and regulation). **2009**, 253, 2665-2685		336
143	Vitamin K, an example of triage theory: is micronutrient inadequacy linked to diseases of aging?. **2009**, 90, 889-907		139
142	Insulin crystallization depends on zinc transporter ZnT8 expression, but is not required for normal glucose homeostasis in mice. **2009**, 106, 14872-7		257
141	Zinc transporters and cancer: a potential role for ZIP7 as a hub for tyrosine kinase activation. **2009**, 15, 101-11		161
140	Metal trafficking: from maintaining the metal homeostasis to future drug design. *Metallomics*, **2009** , 1, 292-311	4.5	76
139	Zn(II) Homeostasis in E. coli. **2009**, 81-95		2
138	The EVER proteins as a natural barrier against papillomaviruses: a new insight into the pathogenesis of human papillomavirus infections. **2009**, 73, 348-70		97
137	Dietary zinc absorption is mediated by ZnT1 in Drosophila melanogaster. **2009**, 23, 2650-61		63
136	Letter to the editor: "Zinc and cardioprotection: the missing link". **2009**, 296, H233-4; author reply H235		8
135	Cellular mechanisms of cadmium toxicity related to the homeostasis of essential metals. *BioMetals*, **2010**, 23, 877-96	3.4	171
134	Fluorescent imaging of transition metal homeostasis using genetically encoded sensors. **2010**, 14, 231-7		56
133	Bodily variability of zinc natural isotope abundances in sheep. **2010**, 24, 605-12		53
132	Histology. 14-32		
131	Selective electrodiffusion of zinc ions in a Zrt-, Irt-like protein, ZIPB. *Journal of Biological Chemistry*, **2010**, 285, 39013-20	5.4	73
130	Trace elements in glucometabolic disorders: an update. **2010**, 2, 70		87
129	Effect of increasing zinc sulphate concentration during in vitro maturation of bovine oocytes. **2010**, 74, 1141-8		33

128	Regulation of metallothioneins and ZnT-1 transporter expression in human hepatoma cells HepG2 exposed to zinc and cadmium. **2010**, 24, 370-4	22
127	. **2011**,	115
126	Essential Metal Related Metabolic Disorders. **2011**, 307-350	2
125	A tutorial and mini-review of the ICP-MS technique for determinations of transition metal ion and main group element concentration in the neurodegenerative and brain sciences. **2011**, 142, 385-398	19
124	Dietary catechins and procyanidins modulate zinc homeostasis in human HepG2 cells. **2011**, 22, 153-63	32
123	Increased level of exogenous zinc induces cytotoxicity and up-regulates the expression of the ZnT-1 zinc transporter gene in pancreatic cancer cells. **2011**, 22, 79-88	46
122	An overview of a wide range of functions of ZnT and Zip zinc transporters in the secretory pathway. **2011**, 75, 1036-43	85
121	Intracellular free zinc during cardiac excitation-contraction cycle: calcium and redox dependencies. **2011**, 89, 634-42	42
120	Ethanol reduces zincosome formation in cultured astrocytes. **2011**, 46, 17-25	9
119	Protein kinase CK2 triggers cytosolic zinc signaling pathways by phosphorylation of zinc channel ZIP7. **2012**, 5, ra11	186
118	From endoplasmic reticulum to secretory granules: role of zinc in the secretory pathway of growth hormone. **2012**, 23, 96-108	7
117	Zinc transporters, mechanisms of action and therapeutic utility: implications for type 2 diabetes mellitus. **2012**, 2012, 173712	57
116	Molecular architecture and function of ZnT transporters. **2012**, 69, 199-220	64
115	Zinc and cancer: implications for LIV-1 in breast cancer. **2012**, 4, 648-75	73
114	Target molecules of food phytochemicals: food science bound for the next dimension. **2012**, 3, 462-76	63
113	Metal ions as modulators of protein conformation and misfolding in neurodegeneration. **2012**, 256, 2253-2270	117
112	Yttrium decreases the intracellular Zn2+ concentration in rat thymocytes by attenuating a temperature-sensitive Zn2+ influx. **2012**, 34, 574-578	4
111	Zinc. **2012**, 521-539	10

110	Zinc inhibits apoptosis and maintains NEP downregulation, induced by ropivacaine, in HaCaT cells. *Biological Trace Element Research*, **2012**, 150, 460-6	4.5	11
109	Zinc modulation of basal and β-adrenergically stimulated L-type Ca2+ current in rat ventricular cardiomyocytes: consequences in cardiac diseases. **2012**, 464, 459-70		26
108	The mitochondrial Na(+)/Ca(2+) exchanger. **2012**, 52, 9-15		58
107	The effects of transformation and ZnT-1 silencing on zinc homeostasis in cultured cells. **2012**, 23, 629-34		11
106	The role of zinc in genomic stability. **2012**, 733, 111-21		101
105	Zinc transporters and their role in the pancreatic β-cell. **2012**, 3, 202-11		42
104	Chronic cadmium exposure in vitro induces cancer cell characteristics in human lung cells. **2013**, 273, 281-8		68
103	Histopathology of Zinc exposition in Actinia equina L. (Anthozoa, Actiniaria). **2013**, 19, 69-70		1
102	Genome-wide association study identifies loci affecting blood copper, selenium and zinc. **2013**, 22, 3998-4006		76
101	Cytosolic zinc accumulation contributes to excitotoxic oligodendroglial death. **2013**, 61, 750-64		22
100	Zinc: Physiology, Dietary Sources, and Requirements. **2013**, 437-443		4
99	Altered biometal homeostasis is associated with CLN6 mRNA loss in mouse neuronal ceroid lipofuscinosis. **2013**, 2, 635-46		24
98	Transient Neonatal Zinc Deficiency Caused by a Heterozygous G87R Mutation in the Zinc Transporter ZnT-2 (SLC30A2) Gene in the Mother Highlighting the Importance of Zn (2+) for Normal Growth and Development. **2013**, 2013, 259189		38
97	ttm-1 encodes CDF transporters that excrete zinc from intestinal cells of C. elegans and act in a parallel negative feedback circuit that promotes homeostasis. **2013**, 9, e1003522		27
96	The role of zinc dynamics in growth hormone secretion. **2013**, 80, 381-9		4
95	Zinc fortification decreases ZIP1 gene expression of some adolescent females with appropriate plasma zinc levels. **2014**, 6, 2229-39		5
94	The Biomedical Role of Zinc in the Functioning of the Human Organism. **2014**, 124, 160-163		3
93	Metal ion homeostasis in Listeria monocytogenes and importance in host-pathogen interactions. **2014**, 65, 83-123		15

92	The Zinc-Sensing Receptor, ZnR/GPR39: Signaling and Significance. **2014**, 111-133		1
91	Alteration of ZnT5-mediated zinc import into the early secretory pathway affects the secretion of growth hormone from rat pituitary cells. **2014**, 82, 245-51		4
90	Deregulation of biometal homeostasis: the missing link for neuronal ceroid lipofuscinoses?. *Metallomics*, **2014**, 6, 932-43	4.5	23
89	X-ray fluorescence imaging reveals subcellular biometal disturbances in a childhood neurodegenerative disorder. **2014**, 5, 2503-2516		33
88	Zinc Signals in Cellular Functions and Disorders. **2014**,		10
87	Zn(II)-coordination modulated ligand photophysical processes - the development of fluorescent indicators for imaging biological Zn(II) ions. **2014**, 4, 20398-20440		91
86	Stimulation of bone growth following zinc incorporation into biomaterials. **2014**, 35, 6882-97		191
85	Metal responsive transcription factor 1 (MTF-1) regulates zinc dependent cellular processes at the molecular level. **2015**, 62, 491-8		31
84	The Critical Roles of Zinc: Beyond Impact on Myocardial Signaling. **2015**, 19, 389-99		32
83	Serum copper to zinc ratio: Relationship with aging and health status. **2015**, 151, 93-100		99
82	Type 1 diabetes epidemic in Finland is triggered by zinc-containing amorphous silica nanoparticles. **2015**, 84, 336-40		8
81	Zinc Transporters in the Endocrine Pancreas. **2015**, 511-527		1
80	Differential zinc permeation and blockade of L-type Ca2+ channel isoforms Cav1.2 and Cav1.3. **2015** , 1848, 2092-100		9
79	GPR39 Zn(2+)-sensing receptor: a new target in antidepressant development?. **2015**, 174, 89-100		32
78	The EVER genes - the genetic etiology of carcinogenesis in epidermodysplasia verruciformis and a possible role in non-epidermodysplasia verruciformis patients. **2016**, 33, 75-80		15
77	Accumulation of zinc protects against cadmium stress in photosynthetic Euglena gracilis. **2016**, 131, 19-31		19
76	Metal homeostasis disruption and mitochondrial dysfunction in hepatocytes exposed to sub-toxic doses of zinc oxide nanoparticles. *Nanoscale*, **2016**, 8, 18495-18506	7.7	38
75	Zinc and Gold Complexes in the Treatment of Breast Cancer / Kompleksi Cinka I Zlata U Lecenju Karcinoma Dojke. **2016**, 17, 55-60		

74	Zinc and diabetes. **2016**, 611, 79-85		96
73	Metabolic responses in zebrafish (Danio rerio) exposed to zinc and cadmium by nuclear magnetic resonance -based metabolomics. **2016**, 32, 136-148		12
72	Genetically encoded fluorescent sensor for intracellular imaging of transition metals. **2016**, 51, 148-161		
71	Peroxide reduction by a metal-dependent catalase in Nostoc punctiforme (cyanobacteria). **2017**, 101, 3781-3800		4
70	Distinctive hippocampal zinc distribution patterns following stress exposure in an animal model of PTSD. *Metallomics*, **2017**, 9, 323-333	4.5	2
69	Dopamine elevates intracellular zinc concentration in cultured rat embryonic cortical neurons through the cAMP-nitric oxide signaling cascade. **2017**, 82, 35-45		5
68	In vitro toxicological effects of zinc containing nanoparticles with different physico-chemical properties. **2017**, 42, 105-113		10
67	Identification, evolution and functional characterization of two Zn CDF-family transporters of the ectomycorrhizal fungus Suillus luteus. **2017**, 9, 419-427		12
66	The Zn-sensing receptor, ZnR/GPR39, upregulates colonocytic Cl absorption, via basolateral KCC1, and reduces fluid loss. **2017**, 1863, 947-960		16
65	Zinc Regulates Chemical-Transmitter Storage in Nanometer Vesicles and Exocytosis Dynamics as Measured by Amperometry. **2017**, 129, 5052-5057		18
64	Differential effects of zinc exposure on male and female oysters (Crassostrea angulata) as revealed by label-free quantitative proteomics. **2017**, 36, 2602-2613		8
63	Zinc Regulates Chemical-Transmitter Storage in Nanometer Vesicles and Exocytosis Dynamics as Measured by Amperometry. *Angewandte Chemie - International Edition*, **2017**, 56, 4970-4975	16.4	58
62	Impact of labile metal nanoparticles on cellular homeostasis. Current developments in imaging, synthesis and applications. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 1566-1577	4	16
61	Supplementation with zinc in rats enhances memory and reverses an age-dependent increase in plasma copper. *Behavioural Brain Research*, **2017**, 333, 179-183	3.4	12
60	The level of the zinc homeostasis regulating proteins in the brain of rats subjected to olfactory bulbectomy model of depression. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2017**, 72, 36-48	5.5	12
59	Impact of Labile Zinc on Heart Function: From Physiology to Pathophysiology. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	17
58	Zinc and Oxidative Stress: Current Mechanisms. *Antioxidants*, **2017**, 6,	7.1	178
57	Zinc Protects Oxidative Stress-Induced RPE Death by Reducing Mitochondrial Damage and Preventing Lysosome Rupture. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 6926485	6.7	20

56	Experimental Simulation of the Effects of Essential and Toxic Trace Elements on Thyroid Function. *Bulletin of Experimental Biology and Medicine*, **2018**, 164, 439-441	0.8	8
55	Trace elements in ALS patients and their relationships with clinical severity. *Chemosphere*, **2018**, 197, 457-466	8.4	17
54	Impact of modified chitosan on pore water bioavailability of zinc in contaminated soils. *Journal of Geochemical Exploration*, **2018**, 186, 94-99	3.8	
53	Zinc Potentiates Lipopolysaccharide-induced Nitric Oxide Production in Cultured Primary Rat Astrocytes. *Neurochemical Research*, **2018**, 43, 363-374	4.6	10
52	Antitrypanosomal 8-Hydroxy-Naphthyridines Are Chelators of Divalent Transition Metals. *Antimicrobial Agents and Chemotherapy*, **2018**, 62,	5.9	7
51	Chemical Digestion, Absorption, and Transport. **2018**, 871-972		
50	The Zinc Sensing Receptor, ZnR/GPR39, in Health and Disease. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	61
49	Ionic Homeostasis Maintenance in ALS: Focus on New Therapeutic Targets. *Frontiers in Neuroscience* , **2018**, 12, 510	5.1	29
48	Differential expression of zinc transporters accompanies the differentiation of C2C12 myoblasts. *Journal of Trace Elements in Medicine and Biology*, **2018**, 49, 27-34	4.1	15
47	Protein kinase CK2 is involved in zinc homeostasis in breast and prostate cancer cells. *BioMetals*, **2019**, 32, 861-873	3.4	3
46	Metal stress-related gene expression patterns in two marine invertebrates, Hediste diversicolor (Annelida, Polychaeta) and Littorina littorea (Mollusca, Gastropoda), at a former mining site. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2019**, 225, 108588	3.2	2
45	Metal-dependent hormone function: the emerging interdisciplinary field of metalloendocrinology. *Metallomics*, **2019**, 11, 85-110	4.5	17
44	Atomic Absorbance Spectroscopy to Measure Intracellular Zinc Pools in Mammalian Cells. *Journal of Visualized Experiments*, **2019**,	1.6	2
43	Effects of Mercury, Lead, Arsenic and Zinc to Human Renal Oxidative Stress and Functions: A Review. *Journal of Heavy Metal Toxicity and Diseases*, **2019**, 04,	4	13
42	Zinc transporter 10 (ZnT10)-dependent extrusion of cellular Mn is driven by an active Ca-coupled exchange. *Journal of Biological Chemistry*, **2019**, 294, 5879-5889	5.4	21
41	Zn stimulates salivary secretions via metabotropic zinc receptor ZnR/GPR39 in human salivary gland cells. *Scientific Reports*, **2019**, 9, 17648	4.9	4
40	Solute Carrier Transporters as Potential Targets for the Treatment of Metabolic Disease. *Pharmacological Reviews*, **2020**, 72, 343-379	22.5	44
39	Degradation of ZnGaO:Cr luminescent nanoparticles in lysosomal-like medium. *Nanoscale*, **2020**, 12, 1967-1974	7.7	10

38	Zinc and Autophagy in Age-Related Macular Degeneration. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
37	A Neurotoxic : Glutamate, Calcium, and Zinc in the Excitotoxic Cascade. *Frontiers in Molecular Neuroscience*, **2020**, 13, 600089	6.1	10
36	The Role of Fe, Zn, and Cu in Pregnancy. *Biomolecules*, **2020**, 10,	5.9	17
35	Mutations in Superoxide Dismutase 1 (Sod1) Linked to Familial Amyotrophic Lateral Sclerosis Can Disrupt High-Affinity Zinc-Binding Promoted by the Copper Chaperone for Sod1 (Ccs). *Molecules*, **2020**, 25,	4.8	12
34	An Inhibitor of the Sodium-Hydrogen Exchanger-1 (NHE-1), Amiloride, Reduced Zinc Accumulation and Hippocampal Neuronal Death after Ischemia. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
33	Why and how to investigate the role of protein phosphorylation in ZIP and ZnT zinc transporter activity and regulation. *Cellular and Molecular Life Sciences*, **2020**, 77, 3085-3102	10.3	19
32	The role of labile Zn and Zn-transporters in the pathophysiology of mitochondria dysfunction in cardiomyocytes. *Molecular and Cellular Biochemistry*, **2021**, 476, 971-989	4.2	4
31	Application of low dosage of copper oxide and zinc oxide nanoparticles boosts bacterial and fungal communities in soil. *Science of the Total Environment*, **2021**, 757, 143807	10.2	6
30	Zinc limitation in Klebsiella pneumoniae profiled by quantitative proteomics influences transcriptional regulation and cation transporter-associated capsule production. *BMC Microbiology*, **2021**, 21, 43	4.5	0
29	Bi-allelic loss of function variants in SLC30A5 as cause of perinatal lethal cardiomyopathy. *European Journal of Human Genetics*, **2021**, 29, 808-815	5.3	2
28	Non-Cell-Autonomous Regulation of Optic Nerve Regeneration by Amacrine Cells. *Frontiers in Cellular Neuroscience*, **2021**, 15, 666798	6.1	3
27	The Multifaceted Roles of Zinc in Neuronal Mitochondrial Dysfunction. *Biomedicines*, **2021**, 9,	4.8	4
26	Dietary Supplementation of EGF Ameliorates the Negatively Effects of LPS on Early-Weaning Piglets: From Views of Growth Performance, Nutrient Digestibility, Microelement Absorption and Possible Mechanisms. *Animals*, **2021**, 11,	3.1	1
25	Induction of Cell Death in Pancreatic Tumors by Zinc and Its Fluorescence Chelator TSQ. *Biological Trace Element Research*, **2021**, 1	4.5	1
24	Association of Metallothionein 1A gene polymorphisms at rs11640851 and rs8052394 with risk of type 2 diabetes mellitus in Indian population. *Meta Gene*, **2021**, 28, 100862	0.7	2
23	Expression, Purification and Characterization of a ZIP Family Transporter from Desulfovibrio vulgaris. *Protein Journal*, **2021**, 40, 776-785	3.9	0
22	Preliminary study of genome-wide association identifies novel susceptibility genes for serum mineral elements in the Chinese Han population. *Biological Trace Element Research*, **2021**, 1	4.5	0
21	Zn-Dependent peptide nucleic acid-based artificial ribonucleases with unprecedented efficiency and specificity. *Chemical Communications*, **2021**, 57, 10911-10914	5.8	1

20	A Zinc-Potassium Continuum in Neuronal Apoptosis. **2009**, 97-115		1
19	Zinc Transporters in the Endocrine Pancreas. **2014**, 1-16		1
18	Zinc transporter Slc39a8 is essential for cardiac ventricular compaction. *Journal of Clinical Investigation*, **2018**, 128, 826-833	15.9	27
17	Zinc transporters are differentially expressed in human non-small cell lung cancer. *Oncotarget*, **2016**, 7, 66935-66943	3.3	10
16	Zinc toxicology following particulate inhalation. *Indian Journal of Industrial Medicine*, **2008**, 12, 10-3		29
15	Change of zinc mobilization and gene expression of key zinc transport proteins between the yolk sac membrane and liver of duck embryonic developing. *Poultry Science*, **2021**, 101, 101562	3.9	0
14	Zinc Contribution to the Regulation of Glucose Disposal, Lipid Metabolism and Striated Muscle Contractions. *Medicina Sportiva*, **2009**, 13, 28-34		0
13	ICP-MS for the neurodegenerative and brain sciences. **2012**, 223-238		
12	Adsorption of Sulfate in Aqueous Solutions by Cheap Plant Adsorbents. *Biosciences, Biotechnology Research Asia*, **2018**, 15, 157-162	0.5	
11	Zinc and its importance for human health: An integrative review. *Journal of Research in Medical Sciences*, **2013**, 18, 144-57	1.6	350
10	The role of zinc in the pathogenesis and treatment of COVID-19: A review. *Mediterranean Journal of Nutrition and Metabolism*, **2021**, 1-17	1.3	
9	Persistent luminescence nanoparticles functionalized by polymers bearing phosphonic acid anchors: synthesis, characterization, and behaviour.. *Nanoscale*, **2022**,	7.7	2
8	Malnutrition: Impact of Zinc on Child Development. **2022**, 83-100		1
7	Relevance of biometals during neuronal differentiation and myelination: in vitro and in vivo studies.. *BioMetals*, **2022**, 1	3.4	0
6	Bioinorganic Chemistry of Zinc in relation to the Immune system. *ChemBioChem*, **2021**,	3.8	0
5	Therapeutic efficacy of N -acetylcysteine and zinc sulphate against di-(2-ethylhexyl) phthalate-induced testicular oxido-nitrergic stress in male Wistar rat. *Andrologia*,	2.4	
4	The Assessment of Dietary Organic Zinc on Zinc Homeostasis, Antioxidant Capacity, Immune Response, Glycolysis and Intestinal Microbiota in White Shrimp (Litopenaeus vannamei Boone, 1931). **2022**, 11, 1492		0
3	Restoration of the GTPase activity and cellular interactions of Gαo mutants by Zn 2+ in GNAO1 encephalopathy models. **2022**, 8,		2

2	A model of zinc dynamics evoked by intense stimulation at the cleft of hippocampal mossy fiber synapses. **2023**, 1807, 148322	1
1	Zinc: Physiology, dietary sources, and requirements. **2013**, 584-592	0