The neurobiology of zinc in health and disease

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Citation Report

#	Article	IF	CITATIONS
3	Imbalance between pro-oxidant and pro-antioxidant functions of zinc in disease. Journal of Alzheimer's Disease, 2005, 8, 161-170.	1.2	65
4	Studying zinc biology with fluorescence: ain't we got fun?. Current Opinion in Chemical Biology, 2005, 9, 526-532.	2.8	92
5	Allosteric interaction between zinc and glutamate binding domains on NR2A causes desensitization of NMDA receptors. Journal of Physiology, 2005, 569, 381-393.	1.3	64
6	Kainate-induced zinc translocation from presynaptic terminals causes neuronal and astroglial cell death and mRNA loss of BDNF receptors in the hippocampal formation and amygdala. Journal of Neuroscience Research, 2005, 82, 184-195.	1.3	16
7	ls zinc the link between compromises of brain perfusion (excitotoxicity) and Alzheimer's disease?. Journal of Alzheimer's Disease, 2005, 8, 155-160.	1.2	24
8	Blockade of calcium-permeable AMPA receptors protects hippocampal neurons against global ischemia-induced death. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12230-12235.	3.3	220
9	Neuroimaging of zinc released by depolarization of rat retinal cells. Vision Research, 2005, 45, 3520-3525.	0.7	27
10	Cloning and expression of ligand-gated ion-channel receptor L2 in central nervous system. Biochemical and Biophysical Research Communications, 2005, 335, 277-285.	1.0	43
12	Elevated cortical zinc in Alzheimer disease. Neurology, 2006, 67, 69-75.	1.5	235
13	Zinc Homeostasis in Aging: Two Elusive Faces of the Same "Metal". Rejuvenation Research, 2006, 9, 351-354.	0.9	22
14	Zinc Coordination Environments in Proteins as Redox Sensors and Signal Transducers. Antioxidants and Redox Signaling, 2006, 8, 1419-1441.	2.5	283
15	Midrange Affinity Fluorescent Zn(II) Sensors of the Zinpyr Family:Â Syntheses, Characterization, and Biological Imaging Applications. Inorganic Chemistry, 2006, 45, 9748-9757.	1.9	66
16	Zinspy Sensors with Enhanced Dynamic Range for Imaging Neuronal Cell Zinc Uptake and Mobilization. Journal of the American Chemical Society, 2006, 128, 15517-15528.	6.6	232
17	Concentrations of extracellular free zinc (pZn)e in the central nervous system during simple anesthetization, ischemia and reperfusion. Experimental Neurology, 2006, 198, 285-293.	2.0	210
18	Zinc influx and physiological consequences in the β-insulinoma cell line, Min6. Biochemical and Biophysical Research Communications, 2006, 346, 205-212.	1.0	33
19	A Startling Role for Synaptic Zinc. Neuron, 2006, 52, 572-574.	3.8	20
20	Zinc-rich transient vertical modules in the rat retrosplenial cortex during postnatal development. Neuroscience, 2006, 138, 523-535.	1.1	17
21	Modulation of inhibitory glycine receptors in cultured embryonic mouse hippocampal neurons by zinc, thiol containing redox agents and carnosine. Neuroscience, 2006, 139, 1315-1327	1.1	15

	Сіт	ation Report	
#	Article	IF	CITATIONS
22	Imaging synaptic zinc: promises and perils. Trends in Neurosciences, 2006, 29, 200-206.	4.2	61
23	Use of a zinc fluorophore to measure labile pools of zinc in body fluids and cell-conditioned media. BioTechniques, 2006, 40, 509-520.	0.8	56
24	Effect of the zinc chelator N,N,N',N'-tetrakis (2-pyridylmethyl)ethylenediamine (TPEN) on hippocampal mossy fiber calcium signals and on synaptic transmission. Biological Research, 2006, 39, 521-30.	1.5	15
25	Up-regulation of metallothionein isoforms in keloid keratinocytes. International Journal of Molecular Medicine, 2006, 17, 385-9.	1.8	11
27	Metals in Motor Neuron Diseases. Experimental Biology and Medicine, 2006, 231, 1481-1487.	1.1	50
28	Glycogen Synthase Kinase 3: A Target for Novel Mood Disorder Treatments. , 0, , 125-154.		34
29	Bis[4-n-propyl-N-(8-quinolyl)benzenesulfonamidato-κ2 N,N′]zinc(II) dimethylformamide solvate. Act Crystallographica Section E: Structure Reports Online, 2006, 62, m999-m1001.	:a 0.2	0
30	Cytosolic labile zinc: a marker for apoptosis in the developing rat brain. European Journal of Neuroscience, 2006, 23, 435-442.	1.2	18
31	Transient synaptic zinc-positive thalamocortical terminals in the developing barrel cortex. European Journal of Neuroscience, 2006, 24, 1001-1010.	1.2	5
32	Radioiodinated clioquinol as a biomarker for beta-amyloid: Zn2+ complexes in Alzheimer's disease. Aging Cell, 2006, 5, 69-79.	3.0	74
33	Neural Overexcitation and Implication of NMDA and AMPA Receptors in a Mouse Model of Temporal Lobe Epilepsy Implying Zinc Chelation. Epilepsia, 2006, 47, 887-899.	2.6	21
34	Aldehydes release zinc from proteins. A pathway from oxidative stress/lipid peroxidation to cellular functions of zinc. FEBS Journal, 2006, 273, 4300-4310.	2.2	73
35	Synaptic release of zinc from brain slices: Factors governing release, imaging, and accurate calculation of concentration. Journal of Neuroscience Methods, 2006, 154, 19-29.	1.3	109
36	Measuring cell viability with membrane impermeable zinc fluorescent indicator. Journal of Neuroscience Methods, 2006, 155, 180-186.	1.3	24
37	Zinc(II) binds to the neuroprotective peptide humanin. Journal of Inorganic Biochemistry, 2006, 100, 1672-1678.	1.5	43
38	Quinoline-based molecular clips for selective fluorescent detection of Zn2+. Dalton Transactions, 2006, , 3528.	1.6	67
39	Exogenous Zinc Improves Blood Fluidity But Has No Effect on the Mechanisms of Vascular Response to Acetylcholine Iontophoresis in Humans. Biological Trace Element Research, 2006, 113, 139-154.) 1.9	3
40	Implementation of X-ray Fluorescence Microscopy for Investigation of Elemental Abnormalities in Amyotrophic Lateral Sclerosis. Neurochemical Research, 2006, 31, 321-331.	1.6	31

	Сітатіо	n Report	
#	Article	IF	CITATIONS
41	Oxidative stress and brain aging: is zinc the link?. Biogerontology, 2006, 7, 307-314.	2.0	119
42	Acidosis enhances toxicity induced by kainate and zinc exposure in aged cultured astrocytes. Biogerontology, 2006, 7, 367-374.	2.0	17
43	Zinc-buffering capacity of a eukaryotic cell at physiological pZn. Journal of Biological Inorganic Chemistry, 2006, 11, 1049-1062.	1.1	359
44	Zinc requirements and the risks and benefits of zinc supplementation. Journal of Trace Elements in Medicine and Biology, 2006, 20, 3-18.	1.5	822
45	Zinquin identifies subcellular compartmentalization of zinc in cortical neurons. Relation to the trafficking of zinc and the mitochondrial compartment. Brain Research, 2006, 1085, 1-10.	1.1	49
46	Increase in synaptic hippocampal zinc concentration following chronic but not acute zinc treatment in rats. Brain Research, 2006, 1090, 69-75.	1.1	18
47	Zinc release in the lateral nucleus of the amygdala by stimulation of the entorhinal cortex. Brain Research, 2006, 1118, 52-57.	1.1	7
48	A role for zinc in postsynaptic density asSAMbly and plasticity?. Trends in Biochemical Sciences, 2006, 31, 366-373.	3.7	91
49	Zinc and copper: Pharmacological probes and endogenous modulators of neuronal excitability. , 2006, 111, 567-583.		213
50	Single and three-color flow cytometry assay for intracellular zinc ion availability in human lymphocytes with Zinpyr-1 and double immunofluorescence: Relationship with metallothioneins. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 1043-1053.	1.1	57
51	X-ray fluorescence microprobe imaging in biology and medicine. Journal of Cellular Biochemistry, 2006, 99, 1489-1502.	1.2	213
52	Targeting glycogen synthase kinase-3 as an approach to develop novel mood-stabilising medications. Expert Opinion on Therapeutic Targets, 2006, 10, 377-392.	1.5	34
53	The Inhibition of Mitochondrial Complex I (NADH:Ubiquinone Oxidoreductase) by Zn2+. Journal of Biological Chemistry, 2006, 281, 34803-34809.	1.6	67
54	Quantitative genetic analysis of brain copper and zinc in BXD recombinant inbred mice. Nutritional Neuroscience, 2006, 9, 81-92.	1.5	18
55	Endothelial response to stress from exogenous Zn2+ resembles that of NO-mediated nitrosative stress, and is protected by MT-1 overexpression. American Journal of Physiology - Cell Physiology, 2006, 291, C555-C568.	2.1	68
56	The Zn2+-transporting Pathways in Pancreatic β-Cells. Journal of Biological Chemistry, 2006, 281, 9361-9372.	1.6	83
57	Degradation of the Alzheimer Disease Amyloid β-Peptide by Metal-dependent Up-regulation of Metalloprotease Activity. Journal of Biological Chemistry, 2006, 281, 17670-17680.	1.6	267
58	Exocytosis of Vesicular Zinc Reveals Persistent Depression of Neurotransmitter Release during Metabotropic Glutamate Receptor Long-Term Depression at the Hippocampal CA3-CA1 Synapse. Journal of Neuroscience, 2006, 26, 6089-6095.	1.7	60

#	Article	IF	CITATIONS
59	Zinc-secreting Paneth Cells Studied by ZP Fluorescence. Journal of Histochemistry and Cytochemistry, 2006, 54, 311-316.	1.3	48
60	Intracellular Zinc Elevation Measured with a "Calcium-Specific" Indicator during Ischemia and Reperfusion in Rat Hippocampus: A Question on Calcium Overload. Journal of Neuroscience, 2006, 26, 10430-10437.	1.7	88
61	In vivo expression and functional characterization of the zinc transporter ZnT8 in glucose-induced insulin secretion. Journal of Cell Science, 2006, 119, 4199-4206.	1.2	316
62	The synthesis and <i>in vitro</i> testing of a zinc-activated MRI contrast agent. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13881-13886.	3.3	172
63	Structure of a receptor-binding fragment of reelin and mutational analysis reveal a recognition mechanism similar to endocytic receptors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9988-9993.	3.3	79
64	Zinc**Dr. Carl-Gustaf Elinder was the author of this chapter in the 2nd edition of the Handbook on Toxicology of Metals; his text provided guidance , 2007, , 925-947.		14
65	Episodic ataxia type 1 mutation F184C alters Zn2+-induced modulation of the human K+ channel Kv1.4-Kv1.1/Kvl²1.1. American Journal of Physiology - Cell Physiology, 2007, 292, C778-C787.	2.1	29
66	Zn2+-dependent Redox Switch in the Intracellular T1-T1 Interface of a Kv Channel. Journal of Biological Chemistry, 2007, 282, 13637-13647.	1.6	36
67	Hypoglycemic neuronal death is triggered by glucose reperfusion and activation of neuronal NADPH oxidase. Journal of Clinical Investigation, 2007, 117, 910-918.	3.9	343
68	The effect of deoxygenation on whole-cell conductance of red blood cells from healthy individuals and patients with sickle cell disease. Blood, 2007, 109, 2622-2629.	0.6	39
69	Amyloid plaques arise from zinc-enriched cortical layers in APP/PS1 transgenic mice and are paradoxically enlarged with dietary zinc deficiency. Neuroscience, 2007, 150, 357-369.	1.1	110
70	The zinc/thiolate redox biochemistry of metallothionein and the control of zinc ion fluctuations in cell signaling. Archives of Biochemistry and Biophysics, 2007, 463, 188-200.	1.4	205
71	Anxiety-like behavior of young rats after 2-week zinc deprivation. Behavioural Brain Research, 2007, 177, 1-6.	1.2	89
72	Zinc release at the synaptic terminals of rod photoreceptors. Experimental Eye Research, 2007, 85, 580-584.	1.2	55
73	Zinc-mediated neuronal death is dependent on Trk activation. Experimental Neurology, 2007, 205, 360-366.	2.0	9
74	Acrodermatitis enteropathica and an overview of zinc metabolism. Journal of the American Academy of Dermatology, 2007, 56, 116-124.	0.6	331
75	Fluorescence imaging study of extracellular zinc at the hippocampal mossy fiber synapse. Neuroscience Letters, 2007, 419, 119-124.	1.0	11
76	Investigations of the Molecular Mechanism of Metal-Induced Aβ (1â^'40) Amyloidogenesis. Biochemistry, 2007, 46, 13523-13532.	1.2	69

#	Article	IF	CITATIONS
77	Highly selective 4-amino-1,8-naphthalimide based fluorescent photoinduced electron transfer (PET) chemosensors for Zn(ii) under physiological pH conditions. Organic and Biomolecular Chemistry, 2007, 5, 310-317.	1.5	201
78	A Water-Soluble, Small Molecular Fluorescent Sensor with Femtomolar Sensitivity for Zinc Ion. Organic Letters, 2007, 9, 4995-4998.	2.4	165
79	Synthesis, Characterization, and Metal Coordinating Ability of Multifunctional Carbohydrate-Containing Compounds for Alzheimer's Therapy. Journal of the American Chemical Society, 2007, 129, 7453-7463.	6.6	141
80	Dual Nanomolar and Picomolar Zn(II) Binding Properties of Metallothionein. Journal of the American Chemical Society, 2007, 129, 10911-10921.	6.6	260
81	Neurochemistry of Parkinson's disease. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2007, 83, 153-204.	1.0	4
82	In Vivo Monitoring of Multiple Trace Metals in the Brain Extracellular Fluid of Anesthetized Rats by Microdialysisâ	3.2	32
83	Synergic cytotoxic action induced by simultaneous application of zinc and clotrimazole in rat thymocytes. Toxicology Letters, 2007, 171, 138-145.	0.4	12
84	Zinc is a novel intracellular second messenger. Journal of Cell Biology, 2007, 177, 637-645.	2.3	518
85	Zinc as a possible treatment for tinnitus. Progress in Brain Research, 2007, 166, 279-285.	0.9	23
86	Zn2+ Slows Down CaV3.3 Gating Kinetics: Implications for Thalamocortical Activity. Journal of Neurophysiology, 2007, 98, 2274-2284.	0.9	19
87	Zinc Inhibits Astrocyte Clutamate Uptake by Activation of Poly(ADP-ribose) Polymerase-1. Molecular Medicine, 2007, 13, 344-349.	1.9	35
88	The Role of Zinc in Cerebral Ischemia. Molecular Medicine, 2007, 13, 380-387.	1.9	81
89	Mechanism and Regulation of Cellular Zinc Transport. Molecular Medicine, 2007, 13, 337-343.	1.9	176
90	Cellular Zinc and Redox Buffering Capacity of Metallothionein/Thionein in Health and Disease. Molecular Medicine, 2007, 13, 371-375.	1.9	155
91	Intracellular Zinc Release, 12-Lipoxygenase Activation and MAPK Dependent Neuronal and Oligodendroglial Death. Molecular Medicine, 2007, 13, 350-355.	1.9	75
92	Mild Acidosis Enhances AMPA Receptor-Mediated Intracellular Zinc Mobilization in Cortical Neurons. Molecular Medicine, 2007, 13, 356-361.	1.9	14
93	Differential modes of termination of amygdalothalamic and amygdalocortical projections in the monkey. Journal of Comparative Neurology, 2007, 502, 309-324.	0.9	37
94	The inhibition kinetics and thermodynamic changes of tyrosinase via the zinc ion. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 822-827.	1.1	26

ARTICLE IF CITATIONS # Design, synthesis, crystal structure and photophysical studies of an emissive, terbium based sensor 1.8 19 95 for zinc. Inorganic Chemistry Communication, 2007, 10, 1058-1062. HIF $\hat{a}\in\hat{I}$ promotes survival of prostate cells at a high zinc environment. Prostate, 2007, 67, 1514-1523. 1.2 Subunit-specific modulation of T-type calcium channels by zinc. Journal of Physiology, 2007, 578, 97 1.3 86 159-171. Altered Gene Expression Profiles in the Frontal Cortex of Cirrhotic Alcoholics. Alcoholism: Clinical 98 and Experimental Research, 2007, 31, 1460-1466. The modulation of metal bioâ \in availability as a therapeutic strategy for the treatment of Alzheimer's 99 2.2 66 disease. FEBS Journal, 2007, 274, 3775-3783. Coregulation of light neurofilament mRNA by poly(A)-binding protein and aldolase C: Implications for neurodegeneration. Brain Research, 2007, 1139, 15-28. 1.1 Clioquinol attenuates zinc-dependent l2-cell death and the onset of insulitis and hyperglycemia 101 associated with experimental type I diabetes in mice. European Journal of Pharmacology, 2007, 565, 1.7 35 232-239. The application of synchrotron radiation induced X-ray emission in the measurement of zinc and lead 0.8 in Wistar rat ameloblasts. Archives of Oral Biology, 2007, 52, 938-944. Zinc induces cell death in immortalized embryonic hippocampal cells via activation of Akt-GSK-3Î² 103 1.2 33 signaling. Experimental Cell Research, 2007, 313, 312-321. Zinc fluxes and zinc transporter genes in chronic diseases. Mutation Research - Fundamental and 104 0.4 124 Molecular Mechanisms of Mutagenesis, 2007, 622, 84-93. Systemic pyruvate administration markedly reduces infarcts and motor deficits in rat models of 105 2.1 54 transient and permanent focal cerebral ischemia. Neurobiology of Disease, 2007, 26, 94-104. Heavy Metal Ions in Normal Physiology, Toxic Stress, and Cytoprotection. Annals of the New York Academy of Sciences, 2007, 1113, 159-172. 1.8 54 Zinc deficiency in neuronal biology. IUBMB Life, 2007, 59, 299-307. 107 1.5 25 Scavenger, transducer, RNA chaperone? What ligands of the prion protein teach us about its function. 2.4 Cellular and Molecular Life Sciences, 2007, 64, 815-829. Serum Zinc Concentrations in Cystic Fibrosis Patients Aged Above 4ÂYears: A Cross-sectional 109 1.9 24 Evaluation. Biological Trace Element Research, 2007, 119, 19-26. Therapeutics for Alzheimer's Disease Based on the Metal Hypothesis. Neurotherapeutics, 2008, 5, 421-432. Trace metals in the brain: allosteric modulators of ligand-gated receptor channels, the case of 111 1.2 35 ATP-gated P2X receptors. European Biophysics Journal, 2008, 37, 301-314. Zinc binding of Tim10: Evidence for existence of an unstructured binding intermediate for a zinc 1.5 finger protein. Proteins: Structure, Function and Bioinformatics, 2008, 71, 467-475.

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	IAI	REFORT

#	Article	IF	CITATIONS
113	Presynaptic evidence for zinc release at the mossy fiber synapse of rat hippocampus. Journal of Neuroscience Research, 2008, 86, 422-434.	1.3	49
114	A Heteroditopic Fluoroionophoric Platform for Constructing Fluorescent Probes with Large Dynamic Ranges for Zinc Ions. Chemistry - A European Journal, 2008, 14, 2894-2903.	1.7	85
115	Genetic analysis reveals polygenic influences on iron, copper, and zinc in mouse hippocampus with neurobiological implications. Hippocampus, 2008, 18, 398-410.	0.9	27
116	Twoâ€Photon Fluorescent Probes for Intracellular Free Zinc Ions in Living Tissue. Angewandte Chemie - International Edition, 2008, 47, 5167-5170.	7.2	125
118	Metals in Alzheimer's and Parkinson's Diseases. Current Opinion in Chemical Biology, 2008, 12, 222-228.	2.8	640
119	Metals in Neurobiology: Probing Their Chemistry and Biology with Molecular Imaging. Chemical Reviews, 2008, 108, 1517-1549.	23.0	1,873
120	Synthetic fluorescent sensors for studying the cell biology of metals. Nature Chemical Biology, 2008, 4, 168-175.	3.9	1,011
121	Mechanisms of Zn ²⁺ efflux in cultured cortical neurons. Journal of Neurochemistry, 2008, 107, 1304-1313.	2.1	19
122	Intracellular zinc homeostasis and zinc signaling. Cancer Science, 2008, 99, 1515-1522.	1.7	304
123	Zinc regulation of aminopeptidase B involved in neuropeptide production. FEBS Letters, 2008, 582, 2527-2531.	1.3	10
124	Molecular mechanism of Zn ²⁺ agonism in the extracellular domain of GPR39. FEBS Letters, 2008, 582, 2583-2588.	1.3	60
125	Zip6 (LIV-1) regulates zinc uptake in neuroblastoma cells under resting but not depolarizing conditions. Brain Research, 2008, 1199, 10-19.	1.1	24
126	Inflammation, genes and zinc in Alzheimer's disease. Brain Research Reviews, 2008, 58, 96-105.	9.1	97
127	ICPBCZin: A red emitting ratiometric fluorescent indicator with nanomolar affinity for Zn2+ ions. Cell Calcium, 2008, 44, 270-275.	1.1	20
128	Altered oxidant-mediated intraneuronal zinc mobilization in a triple transgenic mouse model of Alzheimer's disease. Experimental Gerontology, 2008, 43, 488-492.	1.2	44
129	Metallothionein redox biology in the cytoprotective and cytotoxic functions of zinc. Experimental Gerontology, 2008, 43, 363-369.	1.2	146
130	Zinc supplementation for the treatment or prevention of disease: Current status and future perspectives. Experimental Gerontology, 2008, 43, 394-408.	1.2	155
131	Microdialysis in central nervous system disorders and their treatment. Pharmacology Biochemistry and Behavior, 2008, 90, 282-296.	1.3	25

#	Article	IF	CITATIONS
132	Coumarin-based ratiometric fluorescent indicators with high specificity for lead ions. Chemical Communications, 2008, , 6221.	2.2	45
133	Genetically encoded fluorescent sensors for studying healthy and diseased nervous systems. Drug Discovery Today: Disease Models, 2008, 5, 27-35.	1.2	10
134	New Strategy for Quantifying Biological Zinc by a Modified Zinpyr Fluorescence Sensor. Journal of the American Chemical Society, 2008, 130, 15788-15789.	6.6	149
135	Roles of Zinc and Zinc Signaling in Immunity: Zinc as an Intracellular Signaling Molecule. Advances in Immunology, 2008, 97, 149-176.	1.1	209
136	Zinc signalling and subcellular distribution: emerging targets in type 2 diabetes. Trends in Molecular Medicine, 2008, 14, 419-428.	3.5	80
137	Zinc-Mediated Transactivation of TrkB Potentiates the Hippocampal Mossy Fiber-CA3 Pyramid Synapse. Neuron, 2008, 57, 546-558.	3.8	245
138	Mechanisms of AÎ ² mediated neurodegeneration in Alzheimer's disease. International Journal of Biochemistry and Cell Biology, 2008, 40, 181-198.	1.2	220
139	Involvement of glutathione, ERK1/2 phosphorylation and BDNF expression in the antidepressant-like effect of zinc in rats. Behavioural Brain Research, 2008, 188, 316-323.	1.2	50
140	Azamacrocycle Activated Quantum Dot for Zinc Ion Detection. Analytical Chemistry, 2008, 80, 8260-8268.	3.2	139
141	Cure or cause: opposing roles for zinc in age-related macular degeneration. Expert Review of Ophthalmology, 2008, 3, 1-4.	0.3	12
142	Organelle-Specific Zinc Detection Using Zinpyr-Labeled Fusion Proteins in Live Cells. Journal of the American Chemical Society, 2008, 130, 15776-15777.	6.6	192
143	Mechanisms of Zn ^{II} -Activated Magnetic Resonance Imaging Agents. Inorganic Chemistry, 2008, 47, 10788-10795.	1.9	94
144	Molecular Modeling and Mutagenesis Reveals a Tetradentate Binding Site for Zn2+ in GABAA αβ Receptors and Provides a Structural Basis for the Modulating Effect of the γ Subunit. Journal of Chemical Information and Modeling, 2008, 48, 344-349.	2.5	16
145	His-tags as Zn(II) binding motifs in a protein-based fluorescent sensor. Protein Engineering, Design and Selection, 2008, 21, 529-536.	1.0	47
146	Modulating Affinities of Di-2-picolylamine (DPA)-Substituted Quinoline Sensors for Zinc Ions by Varying Pendant Ligands. Inorganic Chemistry, 2008, 47, 4310-4318.	1.9	121
147	Selective Intracellular Release of Copper and Zinc Ions from Bis(thiosemicarbazonato) Complexes Reduces Levels of Alzheimer Disease Amyloid-β Peptide. Journal of Biological Chemistry, 2008, 283, 4568-4577.	1.6	177
148	Mechanosensitive Genes in the Trabecular Meshwork at Homeostasis. , 2008, , 329-362.		2
149	Zn ²⁺ Influx Is Critical for Some Forms of Spreading Depression in Brain Slices. Journal of Neuroscience, 2008, 28, 8014-8024.	1.7	84

#	Article	IF	CITATIONS
150	Zinc Triggers Microglial Activation. Journal of Neuroscience, 2008, 28, 5827-5835.	1.7	157
151	Opposite Effects of Zinc on Human and Rat P2X2 Receptors. Journal of Neuroscience, 2008, 28, 11131-11140.	1.7	23
152	Is Zinc a Neuromodulator?. Science Signaling, 2008, 1, re3.	1.6	67
153	pH-Dependent Inhibition of Kainate Receptors by Zinc. Journal of Neuroscience, 2008, 28, 1659-1671.	1.7	69
154	The Constitutively Active Orphan G-protein-coupled Receptor GPR39 Protects from Cell Death by Increasing Secretion of Pigment Epithelium-derived Growth Factor. Journal of Biological Chemistry, 2008, 283, 7074-7081.	1.6	56
155	Zinc and 4-Hydroxy-2-Nonenal Mediate Lysosomal Membrane Permeabilization Induced by H ₂ O ₂ in Cultured Hippocampal Neurons. Journal of Neuroscience, 2008, 28, 3114-3122.	1.7	136
156	Zinc proteomics and the annotation of the human zinc proteome. Pure and Applied Chemistry, 2008, 80, 2679-2687.	0.9	20
157	An Extracellular Cu2+ Binding Site in the Voltage Sensor of BK and Shaker Potassium Channels. Journal of General Physiology, 2008, 131, 483-502.	0.9	38
158	Metal Complexing Agents for the Treatment of Alzheimer's Disease. , 2007, , 107-136.		2
159	Insights into Zn ²⁺ homeostasis in neurons from experimental and modeling studies. American Journal of Physiology - Cell Physiology, 2008, 294, C726-C742.	2.1	184
160	Drug Development Based on the Metals Hypothesis of Alzheimer's Disease. Journal of Alzheimer's Disease, 2008, 15, 223-240.	1.2	250
161	Inhibitory effect of zinc on hypoxic HIF-1 activation in astrocytes. NeuroReport, 2008, 19, 1063-1066.	0.6	10
162	Genetically encoded sensors for calcium and zinc. , 2008, , .		0
163	The normal cellular prion protein and its possible role in angiogenesis. Frontiers in Bioscience - Landmark, 2008, Volume, 6491.	3.0	14
164	The Effects of Enhanced Zinc on Spatial Memory and Plaque Formation in Transgenic Mice. Journal of Alzheimer's Disease, 2009, 18, 565-579.	1.2	62
165	Molecular dyes used for the detection of biological and environmental heavy metals: Highlights from 2004 to 2008. Supramolecular Chemistry, 2009, 21, 89-102.	1.5	35
166	The Serine Protease Plasmin Cleaves the Amino-terminal Domain of the NR2A Subunit to Relieve Zinc Inhibition of the N-Methyl-d-aspartate Receptors. Journal of Biological Chemistry, 2009, 284, 12862-12873.	1.6	40
167	Genetically Encoded Sensors to Elucidate Spatial Distribution of Cellular Zinc. Journal of Biological Chemistry, 2009, 284, 16289-16297.	1.6	188

#	Article	IF	CITATIONS
168	Low Micromolar Zinc Accelerates the Fibrillization of Human Tau via Bridging of Cys-291 and Cys-322. Journal of Biological Chemistry, 2009, 284, 34648-34657.	1.6	168
169	Clioquinol and pyrithione activate TRPA1 by increasing intracellular Zn ²⁺ . Proceedings of the United States of America, 2009, 106, 8374-8379.	3.3	130
170	Orally Administered Zinc Increases Food Intake via Vagal Stimulation in Rats. Journal of Nutrition, 2009, 139, 611-616.	1.3	37
171	A Role for Synaptic Zinc in Activity-Dependent AÎ ² Oligomer Formation and Accumulation at Excitatory Synapses. Journal of Neuroscience, 2009, 29, 4004-4015.	1.7	214
172	Nitric oxide-mediated protection of endothelial cells from hydrogen peroxide is mediated by intracellular zinc and glutathione. American Journal of Physiology - Cell Physiology, 2009, 296, C811-C820.	2.1	41
173	Enhancement of Odorant-Induced Responses in Olfactory Receptor Neurons by Zinc Nanoparticles. Chemical Senses, 2009, 34, 547-557.	1.1	43
174	Accumulation of labile zinc in neurons and astrocytes in the spinal cords of G93A SOD-1 transgenic mice. Neurobiology of Disease, 2009, 34, 221-229.	2.1	44
175	Cytosolic labile zinc accumulation in degenerating dopaminergic neurons of mouse brain after MPTP treatment. Brain Research, 2009, 1286, 208-214.	1.1	33
176	Zinc and cortical plasticity. Brain Research Reviews, 2009, 59, 347-373.	9.1	162
177	Insight into zinc signaling from dietary zinc deficiency. Brain Research Reviews, 2009, 62, 33-44.	9.1	174
178	Silver ions induce oxidative stress and intracellular zinc release in human skin fibroblasts. Free Radical Biology and Medicine, 2009, 47, 1570-1577.	1.3	77
179	A comparison of Zn2+- and Ca2+-triggered depolarization of liver mitochondria reveals no evidence of Zn2+-induced permeability transition. Cell Calcium, 2009, 45, 447-455.	1.1	26
180	Cooperative Metal Binding and Helical Folding in Model Peptides of Trebleâ€Clef Zinc Fingers. Chemistry - A European Journal, 2009, 15, 4798-4810.	1.7	37
181	Structural Adaptability of Zinc Binding Sites: Different Structures in Partially, Fully, and Heavyâ€Metal Loaded States. Chemistry - A European Journal, 2009, 15, 7350-7358.	1.7	35
182	The Metallothionein/Thionein System: An Oxidoreductive Metabolic Zinc Link. ChemBioChem, 2009, 10, 55-62.	1.3	195
183	Copper and Zinc Binding to Amyloidâ€Î²: Coordination, Dynamics, Aggregation, Reactivity and Metalâ€Ion Transfer. ChemBioChem, 2009, 10, 2837-2845.	1.3	257
184	Inducing Sensitivity to Heavy Metal Ions in Polypyrrole Modified by Azamacrocyclic Ligands. Electroanalysis, 2009, 21, 2044-2053.	1.5	2
185	Amphibian larvae and zinc sulphate: a suitable model to study the role of brain-derived neurotrophic factor (BDNF) in the neuronal turnover of the olfactory epithelium. Cell and Tissue Research, 2009, 336, 1-9.	1.5	7

ARTICLE IF CITATIONS Molecular aspects of human cellular zinc homeostasis: redox control of zinc potentials and zinc 231 186 1.8 signals. BioMetals, 2009, 22, 149-157. Metal Ion Physiopathology in Neurodegenerative Disorders. NeuroMolecular Medicine, 2009, 11, 1.8 223-238. Zinc Deficiency Reduces Neurogenesis Accompanied by Neuronal Apoptosis Through Caspase-Dependent 188 69 1.3 and -Independent Signaling Pathways. Neurotoxicity Research, 2009, 16, 416-425. Zinc: The brain's dark horse. Synapse, 2009, 63, 1029-1049. 189 229 Rising Zinc: A Significant Cause of Ischemic Neuronal Death in the CA1 Region of Rat Hippocampus. 190 2.4 50 Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1399-1408. Analysis of gene expression in two large schizophrenia cohorts identifies multiple changes associated 4.1 with nerve terminal function. Molecular Psychiatry, 2009, 14, 1083-1094. 192 Zinc activates damage-sensing TRPA1 ion channels. Nature Chemical Biology, 2009, 5, 183-190. 3.9 204 Zinc in the physiology and pathology of the CNS. Nature Reviews Neuroscience, 2009, 10, 780-791. 647 Zn²⁺ regulates Kv2.1 voltageâ€dependent gating and localization following ischemia. 194 29 1.2 European Journal of Neuroscience, 2009, 30, 2250-2257. The interplay between inorganic phosphate and amino acids determines zinc solubility in brain slices. 2.1 Journal of Neurochemistry, 2009, 108, 1300-1308. An NBD-based colorimetric and fluorescent chemosensor for Zn2+ and its use for detection of 196 1.0 145 intracellular zinc ions. Tetrahedron, 2009, 65, 2307-2312. Development of ratiometric fluorescent probe for zinc ion based on indole fluorophore. Tetrahedron Letters, 2009, 50, 1345-1347. Detection of zinc translocation into apical dendrite of CA1 pyramidal neuron after electrical 198 1.3 16 stimulation. Journal of Neuroscience Methods, 2009, 177, 1-13. Copper, iron, and zinc ions homeostasis and their role in neurodegenerative disorders (metal uptake,) Tj ETQq1 1 0784314 rgBT /Ove 199 Copper-Responsive Magnetic Resonance Imaging Contrast Agents. Journal of the American Chemical 200 139 6.6 Society, 2009, 131, 8527-8536. Effects of Zn²⁺, Ca²⁺, and Mg²⁺ on the Structure of Zn₇Metallothionein-3: Evidence for an Additional Zinc Binding Site. Biochemistry, 2009, 48, 1.2 33 5700-5707. A New Gadolinium-Based MRI Zinc Sensor. Journal of the American Chemical Society, 2009, 131, 202 6.6 144 11387-11391. Subtle Modification of 2,2-Dipicolylamine Lowers the Affinity and Improves the Turn-On of Zn(II)-Selective Fluorescent Sensors. Inorganic Chemistry, 2009, 48, 7009-7011.

#	Article	IF	CITATIONS
204	Insulin crystallization depends on zinc transporter ZnT8 expression, but is not required for normal glucose homeostasis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14872-14877.	3.3	294
205	Small-Molecule Fluorescent Sensors for Investigating Zinc Metalloneurochemistry. Accounts of Chemical Research, 2009, 42, 193-203.	7.6	587
206	Solution and Fluorescence Properties of Symmetric Dipicolylamine-Containing Dichlorofluorescein-Based Zn ²⁺ Sensors. Journal of the American Chemical Society, 2009, 131, 7142-7152.	6.6	139
207	Ratiometric-pericam-mt, a novel tool to evaluate intramitochondrial zinc. Experimental Neurology, 2009, 218, 228-234.	2.0	33
208	Alzheimer's disease, metal ions and metal homeostatic therapy. Trends in Pharmacological Sciences, 2009, 30, 346-355.	4.0	304
209	Increase in intracellular Zn2+ concentration by thimerosal in rat thymocytes: Intracellular Zn2+ release induced by oxidative stress. Toxicology in Vitro, 2009, 23, 1092-1099.	1.1	12
210	Binding-site mutations in the α1 subunit of the inhibitory glycine receptor convert the inhibitory metal ion Cu2+ into a positive modulator. Neuropharmacology, 2009, 56, 310-317.	2.0	11
211	Neuronal nicotinic acetylcholine receptors are modulated by zinc. Neuropharmacology, 2009, 56, 1035-1040.	2.0	13
212	Zinc at glutamatergic synapses. Neuroscience, 2009, 158, 126-136.	1.1	375
213	Positive modulation of long-term potentiation at hippocampal CA1 synapses by low micromolar concentrations of zinc. Neuroscience, 2009, 158, 585-591.	1.1	58
214	Intracellular Zn2+ increases contribute to the progression of excitotoxic Ca2+ increases in apical dendrites of CA1 pyramidal neurons. Neuroscience, 2009, 159, 104-114.	1.1	31
215	Distribution and progression of amyloid-β deposits in the amygdala of the aged macaque monkey, and parallels with zinc distribution. Neuroscience, 2009, 159, 1374-1383.	1.1	7
216	The involvement of serotonergic system in the antidepressant effect of zinc in the forced swim test. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2009, 33, 323-329.	2.5	117
217	Facilitation of zinc influx via AMPA/kainate receptor activation in the hippocampus. Neurochemistry International, 2009, 55, 376-382.	1.9	27
218	Effect of zinc exposure on HNE and GLT-1 in spinal cord culture. NeuroToxicology, 2009, 30, 121-126.	1.4	18
219	Zinc reverses malathion-induced impairment in antioxidant defenses. Toxicology Letters, 2009, 187, 137-143.	0.4	44
220	Nitric Oxide in Health and Disease of the Nervous System. Antioxidants and Redox Signaling, 2009, 11, 541-553.	2.5	215
221	Zinc Fingers as Biologic Redox Switches?. Antioxidants and Redox Signaling, 2009, 11, 1015-1027.	2.5	102

#	Article	IF	CITATIONS
222	Application of Metal Coordination Chemistry To Explore and Manipulate Cell Biology. Chemical Reviews, 2009, 109, 4921-4960.	23.0	768
223	Two-Photon Probes for Intracellular Free Metal Ions, Acidic Vesicles, And Lipid Rafts in Live Tissues. Accounts of Chemical Research, 2009, 42, 863-872.	7.6	530
224	Design and Synthesis of Coumarin-Based Zn ²⁺ Probes for Ratiometric Fluorescence Imaging. Inorganic Chemistry, 2009, 48, 7630-7638.	1.9	103
225	A fluorescent heteroditopic ligand responding to free zinc ion over six orders of magnitude concentration range. Chemical Communications, 2009, , 7408.	2.2	22
226	Glycosylated tetrahydrosalens as multifunctional molecules for Alzheimer's therapy. Dalton Transactions, 2009, , 3034.	1.6	41
227	Contributions of Ca ²⁺ and Zn ²⁺ to spreading depressionâ€like events and neuronal injury. Journal of Neurochemistry, 2009, 109, 145-152.	2.1	35
228	Role of zinc in hypoglycemia-induced neuron death. Future Neurology, 2009, 4, 799-809.	0.9	0
229	A Potential Role for Alterations of Zinc and Zinc Transport Proteins in the Progression of Alzheimer's Disease. Journal of Alzheimer's Disease, 2009, 16, 471-483.	1.2	80
230	Erythropoietin Inhibits the Increase of Intestinal Labile Zinc and the Expression of Inflammatory Mediators After Traumatic Brain Injury in Rats. Journal of Trauma, 2009, 66, 730-736.	2.3	9
231	Conserved Rhodopsin Intradiscal Structural Motifs Mediate Stabilization: Effects of Zinc. Biochemistry, 2009, 48, 1793-1800.	1.2	18
232	Zinc deficiency and neurodevelopment: The case of neurons. BioFactors, 2010, 36, 117-124.	2.6	82
233	Microglial Activation in Stroke: Therapeutic Targets. Neurotherapeutics, 2010, 7, 378-391.	2.1	328
234	TRPM3 channels provide a regulated influx pathway for zinc in pancreatic beta cells. Pflugers Archiv European Journal of Physiology, 2010, 460, 755-765.	1.3	73
235	The entorhinal cortex of the Megachiroptera: a comparative study of Wahlberg's epauletted fruit bat and the straw-coloured fruit bat. Brain Structure and Function, 2010, 214, 375-393.	1.2	13
236	The Role of Zinc in the Modulation of Neuronal Proliferation and Apoptosis. Neurotoxicity Research, 2010, 17, 1-14.	1.3	89
237	Endogenous Zinc Mediates Apoptotic Programmed Cell Death in the Developing Brain. Neurotoxicity Research, 2010, 17, 156-166.	1.3	31
238	Kinetics of Zn2+-induced Brain Type Creatine Kinase Unfolding and Aggregation. Applied Biochemistry and Biotechnology, 2010, 160, 1309-1320.	1.4	9
239	Trace Elements and Metallothionein in Liver and Kidney of Felis catus. Biological Trace Element Research, 2010, 137, 177-189.	1.9	9

ARTICLE IF CITATIONS Validation of TPEN as a Zinc Chelator in Fluorescence Probing of Calcium in Cells with the Indicator 240 1.3 8 Fura-2. Journal of Fluorescence, 2010, 20, 377-380. Cellular mechanisms of cadmium toxicity related to the homeostasis of essential metals. BioMetals, 241 1.8 223 2010, 23, 877-896. Zinc(II) ion mediates tamoxifen-induced autophagy and cell death in MCF-7 breast cancer cell line. 242 105 1.8 BioMetals, 2010, 23, 997-1013. Apolipoprotein E ablation decreases synaptic vesicular zinc in the brain. BioMetals, 2010, 23, 1085-1095. 1.8 Zinc nanoparticles interact with olfactory receptor neurons. BioMetals, 2010, 23, 1097-1103. 244 1.8 22 Differential NMDA receptor-dependent calcium loading and mitochondrial dysfunction in CA1 vs. CA3 hippocampal neurons. Neurobiology of Disease, 2010, 37, 403-411. 2.1 Mining connections between chemicals, proteins, and diseases extracted from Medline annotations. 246 2.554 Journal of Biomedical Informatics, 2010, 43, 510-519. Highly Selective Ratiometric Emission Color Change by Zincâ€Assisted Selfâ€Assembly Processes. Angewandte Chemie - International Edition, 2010, 49, 5110-5114. 7.2 Zinc signaling through glucocorticoid and glutamate signaling in stressful circumstances. Journal 249 1.3 29 of Neuroscience Research, 2010, 88, 3002-3010. <i>In vivo</i>monitoring of the transfer kinetics of trace elements in animal brains with hyphenated inductively coupled plasma mass spectrometry techniques. Mass Spectrometry Reviews, 2010, 29, 2.8 392-424. Zinc homeostatic proteins in the CNS are regulated by crosstalk between extracellular and 251 10 2.0 intracellular zinc. Journal of Cellular Physiology, 2010, 224, 567-574. Thiazole sulfonamide based ratiometric fluorescent chemosensor with a large spectral shift for zinc sensing. Tetrahedron, 2010, 66, 9925-9932. Novel 2,2â€2-bipyridine-modified calix[4]arenes: ratiometric fluorescent chemosensors for Zn2+ ion. 253 0.7 48 Tetrahedron Letters, 2010, 51, 3719-3723. Carbonic anhydrase II-based metal ion sensing: Advances and new perspectives. Biochimica Et 254 1.1 Biophysica Acta - Proteins and Proteomics, 2010, 1804, 393-403. Imaging mobile zinc in biology. Current Opinion in Chemical Biology, 2010, 14, 225-230. 255 2.8 207 In Vivo Imaging with a Cell-Permeable Porphyrin-Based MRI Contrast Agent. Chemistry and Biology, 74 2010, 17, 665-673. A selective â€~Off–On' fluorescent sensor for Zn2+ based on hydrazone–pyrene derivative and its application for imaging of intracellular Zn2+. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 257 1.0 97 125-128. Zinc release from thapsigargin/IP3-sensitive stores in cultured cortical neurons. Journal of Molecular Signaling, 2010, 5, 5.

#	Article	IF	Citations
259	UV irradiationâ€induced zinc dissociation from commercial zinc oxide sunscreen and its action in human epidermal keratinocytes. Journal of Cosmetic Dermatology, 2010, 9, 276-286.	0.8	16
260	Alzheimer's disease: strategies for disease modification. Nature Reviews Drug Discovery, 2010, 9, 387-398.	21.5	928
261	Alterations of Zinc Transporter Proteins ZnTâ€1, ZnTâ€4 and ZnTâ€6 in Preclinical Alzheimer's Disease Brain. Brain Pathology, 2010, 20, 343-350.	2.1	84
262	Potentiation of glycine-gated NR1/NR3A NMDA receptors relieves Ca2+-dependent outward rectification. Frontiers in Molecular Neuroscience, 2010, 3, 6.	1.4	14
263	Activity-Dependent Release of Endogenous BDNF From Mossy Fibers Evokes a TRPC3 Current and Ca ²⁺ Elevations in CA3 Pyramidal Neurons. Journal of Neurophysiology, 2010, 103, 2846-2856.	0.9	56
264	Disruption of TrkB-Mediated Phospholipase CÎ ³ Signaling Inhibits Limbic Epileptogenesis. Journal of Neuroscience, 2010, 30, 6188-6196.	1.7	64
265	New 7-Hydroxycoumarin-Based Fluorescent Chemosensors for Zn(II) and Cd(II). Bulletin of the Korean Chemical Society, 2010, 31, 3611-3616.	1.0	41
266	Zinc Dyshomeostasis Is Linked with the Loss of Mucolipidosis IV-associated TRPML1 Ion Channel. Journal of Biological Chemistry, 2010, 285, 34304-34308.	1.6	89
267	Acute cytokine-mediated downregulation of the zinc transporter ZnT8 alters pancreatic β-cell function. Journal of Endocrinology, 2010, 206, 159-169.	1.2	47
268	Zn2+ Activates Large Conductance Ca2+-activated K+ Channel via an Intracellular Domain. Journal of Biological Chemistry, 2010, 285, 6434-6442.	1.6	36
269	Zinc toxicity to aminergic neurotransmitters in rat brain. Toxicology International, 2010, 17, 52.	0.1	2
270	Free zinc ions outside a narrow concentration range are toxic to a variety of cells <i>in vitro</i> . Experimental Biology and Medicine, 2010, 235, 741-750.	1.1	178
271	Functional Interaction of Phosphatase and Tensin Homologue (PTEN) with the E3 Ligase NEDD4-1 during Neuronal Response to Zinc. Journal of Biological Chemistry, 2010, 285, 9847-9857.	1.6	49
272	Discovery and Canine Preclinical Assessment of a Nontoxic Procaspase-3–Activating Compound. Cancer Research, 2010, 70, 7232-7241.	0.4	56
273	Pathway-Specific Utilization of Synaptic Zinc in the Macaque Ventral Visual Cortical Areas. Cerebral Cortex, 2010, 20, 2818-2831.	1.6	16
274	Zn2+ Inhibits Coronavirus and Arterivirus RNA Polymerase Activity In Vitro and Zinc Ionophores Block the Replication of These Viruses in Cell Culture. PLoS Pathogens, 2010, 6, e1001176.	2.1	685
275	Cyclam-Based "Clickates― Homogeneous and Heterogeneous Fluorescent Sensors for Zn(II). Inorganic Chemistry, 2010, 49, 3789-3800.	1.9	106
276	Zinc–metallothionein: a potential mediator of antioxidant defence mechanisms in response to dopamine-induced stressThis review is one of a selection of papers published in a Special Issue on Oxidative Stress in Health and Disease Canadian Journal of Physiology and Pharmacology, 2010, 88, 305-312.	0.7	26

#	Article	IF	CITATIONS
277	Cytosolic metal handling in plants: determinants for zinc specificity in metal transporters and metallothioneins. Metallomics, 2010, 2, 510.	1.0	71
278	Zn ²⁺ -Triggered Amide Tautomerization Produces a Highly Zn ²⁺ -Selective, Cell-Permeable, and Ratiometric Fluorescent Sensor. Journal of the American Chemical Society, 2010, 132, 601-610.	6.6	660
279	Roles of zinc and metallothionein-3 in oxidative stress-induced lysosomal dysfunction, cell death, and autophagy in neurons and astrocytes. Molecular Brain, 2010, 3, 30.	1.3	190
280	Disulfides as Redox Switches: From Molecular Mechanisms to Functional Significance. Antioxidants and Redox Signaling, 2010, 12, 53-91.	2.5	205
281	Cell-Trappable Quinoline-Derivatized Fluoresceins for Selective and Reversible Biological Zn(II) Detection. Inorganic Chemistry, 2010, 49, 9535-9545.	1.9	47
282	Fluorescence-Based Nitric Oxide Sensing by Cu(II) Complexes That Can Be Trapped in Living Cells. Inorganic Chemistry, 2010, 49, 7464-7471.	1.9	75
283	MRI probes for sensing biologically relevant metal ions. Future Medicinal Chemistry, 2010, 2, 367-384.	1.1	44
284	Fluorescent chemosensors for Zn2+. Chemical Society Reviews, 2010, 39, 1996.	18.7	910
285	Zinc-induced Neurotoxicity Mediated by Transient Receptor Potential Melastatin 7 Channels. Journal of Biological Chemistry, 2010, 285, 7430-7439.	1.6	136
286	Responsive magnetic resonance imaging contrast agents as chemical sensors for metals in biology and medicine. Chemical Society Reviews, 2010, 39, 51-60.	18.7	237
287	Zinc ion as modulator effects on excitability and synaptic transmission in hippocampal CA1 neurons in Wistar rats. Neuroscience Research, 2010, 68, 167-175.	1.0	20
288	Nerve growth factor increases the sensitivity to zinc toxicity and induces cell cycle arrest in PC12 cells. Brain Research Bulletin, 2010, 81, 458-466.	1.4	19
289	Biological metals and Alzheimer's disease: Implications for therapeutics and diagnostics. Progress in Neurobiology, 2010, 92, 1-18.	2.8	256
290	Increases in extracellular zinc in the amygdala in acquisition and recall of fear experience and their roles in response to fear. Neuroscience, 2010, 168, 715-722.	1.1	29
291	Inhibitory regulation of acid-sensing ion channel 3 by zinc. Neuroscience, 2010, 169, 574-583.	1.1	26
292	Glucose exacerbates zinc-induced astrocyte death. Toxicology Letters, 2010, 199, 102-109.	0.4	6
293	Novel drug targets based on metallobiology of Alzheimer's disease. Expert Opinion on Therapeutic Targets, 2010, 14, 1177-1197.	1.5	49
294	Zinc oxide nanoparticles in modern sunscreens: An analysis of potential exposure and hazard. Nanotoxicology, 2010, 4, 15-41.	1.6	366

#	Article	IF	CITATIONS
295	Cytosolic zinc buffering and muffling: Their role in intracellular zinc homeostasis. Metallomics, 2010, 2, 306.	1.0	380
296	Early lifetime zinc supplementation protects zinc-deficient diet-induced alterations. Pharmacological Reports, 2010, 62, 1211-1217.	1.5	9
297	The Essential Toxin: Impact of Zinc on Human Health. International Journal of Environmental Research and Public Health, 2010, 7, 1342-1365.	1.2	1,047
298	A Highly Selective Turn-On Colorimetric, Red Fluorescent Sensor for Detecting Mobile Zinc in Living Cells. Inorganic Chemistry, 2010, 49, 10753-10755.	1.9	172
299	A highly selective OFF–ON fluorescent sensor for zinc in aqueous solution and living cells. Chemical Communications, 2010, 46, 8389.	2.2	23
300	Effect of ZnCl2and Chelation of Zinc lons by N,N-Diethyldithiocarbamate (DEDTC) on the ERG b-Wave Amplitude from the Isolated Superfused Vertebrate Retina. Current Eye Research, 2010, 35, 322-334.	0.7	14
301	Sensitive and selective detection of zinc ions in neuronal vesicles using PYDPY1, a simple turn-on dipyrrin. Chemical Communications, 2011, 47, 7107.	2.2	60
302	Zn2+-triggered excited-state intramolecular proton transfer: a sensitive probe with near-infrared emission from bis(benzoxazole) derivative. Dalton Transactions, 2011, 40, 1503.	1.6	74
303	A ratiometric fluorescent metal ion indicator based on dansyl labeled poly(N-isopropylacrylamide) responds to a quenching metal ion. Analyst, The, 2011, 136, 5006.	1.7	22
304	Aqueous Fluorescence Turn-on Sensor for Zn ²⁺ with a Tetraphenylethylene Compound. Organic Letters, 2011, 13, 6378-6381.	2.4	144
305	Evolution of Group 14 Rhodamines as Platforms for Near-Infrared Fluorescence Probes Utilizing Photoinduced Electron Transfer. ACS Chemical Biology, 2011, 6, 600-608.	1.6	339
306	Understanding Zinc Quantification with Existing and Advanced Ditopic Fluorescent Zinpyr Sensors. Journal of the American Chemical Society, 2011, 133, 4101-4114.	6.6	149
307	Development of a Cholesterol-Conjugated Fluorescent Sensor for Site-Specific Detection of Zinc Ion at the Plasma Membrane. Organic Letters, 2011, 13, 4558-4561.	2.4	53
308	Distinct Effects of Zn2+, Cu2+, Fe3+, and Al3+ on Amyloid-β Stability, Oligomerization, and Aggregation. Journal of Biological Chemistry, 2011, 286, 9646-9656.	1.6	176
309	Zinc Toxicity in Humans. , 2011, , 801-807.		44
310	Redox Regulation of Intracellular Zinc: Molecular Signaling in the Life and Death of Neurons. Antioxidants and Redox Signaling, 2011, 15, 2249-2263.	2.5	56
311	NO-released Zinc Supports the Simultaneous Binding of Raf-1 and PKCÎ ³ Cysteine-Rich Domains to HINT1 Protein at the Mu-Opioid Receptor. Antioxidants and Redox Signaling, 2011, 14, 2413-2425.	2.5	31
312	Selective and sensitive $\hat{a} \in \hat{c}$ eturn-on $\hat{a} \in \hat{c}$ fluorescent Zn ²⁺ sensors based on di- and tripyrrins with readily modulated emission wavelengths. Chemical Communications, 2011, 47, 5431-5433.	2.2	173

#	ARTICLE Calix [4] arena Based 1, 3. Diconiugate of Salicylyl Imine Having Dibenzyl Amine Moiety (1): Synthesis	IF	CITATIONS
313	Characterization, Receptor Properties toward Fe ²⁺ , Cu ²⁺ , and Zn ²⁺ , Crystal Structures of Its Zn ²⁺ and Cu ²⁺ Complexes, and Selective Phosphate Sensing by the [ZnL]. Inorganic Chemistry, 2011, 50, 7050-7058.	1.9	46
314	Metal attenuating therapies in neurodegenerative disease. Expert Review of Neurotherapeutics, 2011, 11, 1771745.	1.4	22
315	Chapter 6. The Inorganic Side of Alzheimer's Disease. RSC Drug Discovery Series, 2011, , 112-140.	0.2	1
316	Chapter 8. Biological Metals: Metallostasis and Alzheimer's Disease. RSC Drug Discovery Series, 2011, , 152-173.	0.2	0
317	Responsive Polymers-Based Dual Fluorescent Chemosensors for Zn ²⁺ lons and Temperatures Working in Purely Aqueous Media. Analytical Chemistry, 2011, 83, 2775-2785.	3.2	88
318	Modular â€~click' sensors for zinc and their application in vivo. Chemical Communications, 2011, 47, 6036.	2.2	82
319	Dicyanostilbene-Derived Two-Photon Fluorescence Probe for Free Zinc Ions in Live Cells and Tissues with a Large Two-Photon Action Cross Section. Organic Letters, 2011, 13, 1462-1465.	2.4	37
320	Molecular and Cellular Mechanisms of Ischemia-Induced Neuronal Death. , 2011, , 75-106.		8
321	Zinc alleviates pain through high-affinity binding to the NMDA receptor NR2A subunit. Nature Neuroscience, 2011, 14, 1017-1022.	7.1	107
322	Photoinduced Electron Transfer (PET) Based Zn ²⁺ Fluorescent Probe: Transformation of Turn-On Sensors into Ratiometric Ones with Dual Emission in Acetonitrile. Journal of Physical Chemistry A, 2011, 115, 14292-14299.	1.1	75
323	Balance between Fluorescence Enhancement and Association Affinity in Fluorescent Heteroditopic Indicators for Imaging Zinc Ion in Living Cells. Inorganic Chemistry, 2011, 50, 10493-10504.	1.9	25
324	Phosphorescent Sensor for Biological Mobile Zinc. Journal of the American Chemical Society, 2011, 133, 18328-18342.	6.6	217
325	Slc39a13/Zip13: A Crucial Zinc Transporter Involved in Tooth Development and Inherited Disorders. Journal of Oral Biosciences, 2011, 53, 1-12.	0.8	17
326	Chronic unpredictable stress-induced reduction in the hippocampal brain-derived neurotrophic factor (BDNF) gene expression is antagonized by zinc treatment. Pharmacological Reports, 2011, 63, 537-543.	1.5	43
327	Nitric oxide synthase inhibitors protect cerebellar Purkinje cells from zinc-induced cell loss in adult rat. Journal of Chemical Neuroanatomy, 2011, 41, 25-31.	1.0	3
328	A FRET-based indicator for imaging mitochondrial zinc ions. Chemical Communications, 2011, 47, 11730.	2.2	77
329	The Postsynaptic Organization of Synapses. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005678-a005678.	2.3	455
330	A novel small molecule fluorescent sensor for Zn2+ based on pyridine–pyridone scaffold. Talanta, 2011, 83, 1730-1735.	2.9	19

#	ARTICLE	IF	CITATIONS
331	Zinc: new clues to diverse roles in brain ischemia. Trends in Pharmacological Sciences, 2011, 32, 480-486.	4.0	162
332	Family reunion – The ZIP/prion gene family. Progress in Neurobiology, 2011, 93, 405-420.	2.8	33
333	Cysteine 149 in the extracellular finger domain of acid-sensing ion channel 1b subunit is critical for zinc-mediated inhibition. Neuroscience, 2011, 193, 89-99.	1.1	22
334	Signaling cascades mediate astrocyte death induced by zinc. Toxicology Letters, 2011, 204, 108-117.	0.4	17
335	An 2-(2′-aminophenyl)benzoxazole-based OFF–ON fluorescent chemosensor for Zn2+ in aqueous solution. Organic and Biomolecular Chemistry, 2011, 9, 2345.	1.5	54
336	Spreading Depression and Related Events Are Significant Sources of Neuronal Zn ²⁺ Release and Accumulation. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1073-1084.	2.4	34
337	Fluorogenic Zn(II) and Chromogenic Fe(II) Sensors Based on Terpyridine-Substituted Tetraphenylethenes with Aggregation-Induced Emission Characteristics. ACS Applied Materials & Interfaces, 2011, 3, 3411-3418.	4.0	189
338	Emerging In Vivo Analyses of Cell Function Using Fluorescence Imaging. Annual Review of Biochemistry, 2011, 80, 327-332.	5.0	36
339	Extract of Achillea fragrantissima Downregulates ROS Production and Protects Astrocytes from Oxidative-Stress-Induced Cell Death. , 2011, , .		5
340	Copper Inhibits NMDA Receptor-Independent LTP and Modulates the Paired-Pulse Ratio after LTP in Mouse Hippocampal Slices. International Journal of Alzheimer's Disease, 2011, 2011, 1-10.	1.1	31
341	Rapid Disruption of Cellular Integrity of Zinc-treated Astroglia Is Regulated by p38 MAPK and Ca ^{2+‹/sup>-dependent Mechanisms. Experimental Neurobiology, 2011, 20, 45-53.}	0.7	9
342	Brain-Delivery of Zinc-Ions as Potential Treatment for Neurological Diseases: Mini Review. Drug Delivery Letters, 2011, 1, 13-23.	0.2	23
343	Insight into Glutamate Excitotoxicity from Synaptic Zinc Homeostasis. International Journal of Alzheimer's Disease, 2011, 2011, 1-8.	1.1	23
344	Impact of Synaptic Neurotransmitter Concentration Time Course on the Kinetics and Pharmacological Modulation of Inhibitory Synaptic Currents. Frontiers in Cellular Neuroscience, 2011, 5, 6.	1.8	44
345	The Role of Zinc in Alzheimer's Disease. International Journal of Alzheimer's Disease, 2011, 2011, 1-10.	1.1	92
346	Transient Increase in Zn2+ in Hippocampal CA1 Pyramidal Neurons Causes Reversible Memory Deficit. PLoS ONE, 2011, 6, e28615.	1.1	43
347	Aggregation State and Neurotoxic Properties of Alzheimer β-Amyloid Peptide. Current Protein and Peptide Science, 2011, 12, 235-257.	0.7	20
348	A Highly Selective Fluorescence Turn-on Probe for Zn2+ Based on New Diaryloxadiazole Chelate. Chemistry Letters, 2011, 40, 1163-1164.	0.7	2

		REPORT	
#	Article	IF	CITATIONS
349	SV31 is a Zn ²⁺ â€binding synaptic vesicle protein. Journal of Neurochemistry, 2011, 118, 558-570	. 2.1	22
350	Concerted action of zinc and ProSAP/Shank in synaptogenesis and synapse maturation. EMBO Journal, 2011, 30, 569-581.	3.5	204
351	Time-dependent evaluation of mechanical properties and in vitro cytocompatibility of experimental composite-based nerve guidance conduits. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1266-1274.	1.5	19
352	Coordination study of recombinant human-like collagen and zinc (II). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 81, 412-416.	2.0	10
353	A polymer based fluorescent sensor for Zn2+ detection and its application for constructing logic gates. Polymer, 2011, 52, 5811-5816.	1.8	13
354	Disturbance of perineuronal nets in the perilesional area after photothrombosis is not associated with neuronal death. Experimental Neurology, 2011, 231, 113-126.	2.0	44
355	A deficit in zinc availability can cause alterations in tubulin thiol redox status in cultured neurons and in the developing fetal rat brain. Free Radical Biology and Medicine, 2011, 51, 480-489.	1.3	37
356	Dependence of the histofluorescently reactive zinc pool on zinc transporter-3 in the normal brain. Brain Research, 2011, 1418, 12-22.	1.1	43
357	Molecular and genetic features of zinc transporters in physiology and pathogenesis. Metallomics, 2011, 3, 662.	1.0	250
358	Twoâ€Photon Fluorescent Probes for Metal Ions. Chemistry - an Asian Journal, 2011, 6, 58-69.	1.7	127
359	Twoâ€Photon Probes for Zn ²⁺ lons with Various Dissociation Constants. Detection of Zn ²⁺ lons in Live Cells and Tissues by Twoâ€Photon Microscopy. Chemistry - an Asian Journal, 2011, 6, 1234-1240.	1.7	23
360	Biochemistry of Mobile Zinc and Nitric Oxide Revealed by Fluorescent Sensors. Annual Review of Biochemistry, 2011, 80, 333-355.	5.0	156
361	Vesicular Zinc Promotes Presynaptic and Inhibits Postsynaptic Long-Term Potentiation of Mossy Fiber-CA3 Synapse. Neuron, 2011, 71, 1116-1126.	3.8	173
362	Metals on the move: zinc ions in cellular regulation and in the coordination dynamics of zinc proteins. BioMetals, 2011, 24, 411-418.	1.8	194
363	Hippocampal pyramidal cells: the reemergence of cortical lamination. Brain Structure and Function, 2011, 216, 301-317.	1.2	116
364	Zinc homeostasis and signaling in health and diseases. Journal of Biological Inorganic Chemistry, 2011, 16, 1123-1134.	1.1	480
365	The role of zinc in the S100 proteins: insights from the X-ray structures. Amino Acids, 2011, 41, 761-772.	1.2	36
366	Chronic treatment with zinc and antidepressants induces enhancement of presynaptic/extracellular zinc concentration in the rat prefrontal cortex. Amino Acids, 2011, 40, 249-258	1.2	23

#	Article	IF	CITATIONS
367	Mitochondrial Permeability Transition Induced by Different Concentrations of Zinc. Journal of Membrane Biology, 2011, 244, 105-112.	1.0	21
368	Development and Validation of an Anodic Stripping Voltammetric Method for Determination of Zn2+ Ions in Brain Microdialysate Samples. Biological Trace Element Research, 2011, 142, 671-682.	1.9	11
369	Zinc Signaling in the Hippocampus and Its Relation to Pathogenesis of Depression. Molecular Neurobiology, 2011, 44, 166-174.	1.9	62
370	Disruption of the CaMKII/CREB Signaling is Associated with Zinc Deficiency-Induced Learning and Memory Impairments. Neurotoxicity Research, 2011, 19, 584-591.	1.3	37
371	Luteolin protects against reactive oxygen speciesâ€mediated cell death induced by zinc toxicity via the PI3K–Akt–NFâ€₽B–ERKâ€dependent pathway. Journal of Neuroscience Research, 2011, 89, 1859-1868.	1.3	32
372	Lactational zinc deficiencyâ€induced hippocampal neuronal apoptosis by a BDNFâ€independent TrkB signaling pathway. Hippocampus, 2011, 21, 495-501.	0.9	24
373	Composition–structure–property (Zn2+ and Ca2+ ion release) evaluation of Si–Na–Ca–Zn–Ce glass Potential components for nerve guidance conduits. Materials Science and Engineering C, 2011, 31, 669-676.	ses: 3.8	31
374	A new highly selective "turn on―fluorescent sensor for zinc ion based on a pyrazoline derivative. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 218, 6-10.	2.0	54
375	A Schiff base-derived new model compound for selective fluorescence sensing of Cu(II) and Zn(II) with ratiometric sensing potential: Synthesis, photophysics and mechanism of sensory action. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 153-163.	2.0	41
376	Ratiometric fluorescent sensors for detecting zinc ions in aqueous solution and living cells with two-photon microscopy. Sensors and Actuators B: Chemical, 2011, 156, 410-415.	4.0	31
377	Reorganizing Metals: the Use of Chelating Compounds as Potential Therapies for Metal-Related Neurodegenerative Disease. Current Topics in Medicinal Chemistry, 2011, 11, 543-552.	1.0	14
378	Unraveling the role of zinc in memory. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3103-3104.	3.3	20
379	An Overview of a Wide Range of Functions of ZnT and Zip Zinc Transporters in the Secretory Pathway. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1036-1043.	0.6	95
380	Presenilins Promote the Cellular Uptake of Copper and Zinc and Maintain Copper Chaperone of SOD1-dependent Copper/Zinc Superoxide Dismutase Activity. Journal of Biological Chemistry, 2011, 286, 9776-9786.	1.6	69
381	Regulation of T cell receptor signaling by activation-induced zinc influx. Journal of Experimental Medicine, 2011, 208, 775-785.	4.2	140
382	Knockout of Zn Transporters Zip-1 and Zip-3 Attenuates Seizure-Induced CA1 Neurodegeneration. Journal of Neuroscience, 2011, 31, 97-104.	1.7	66
383	Imaging dynamic insulin release using a fluorescent zinc indicator for monitoring induced exocytotic release (ZIMIR). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21063-21068.	3.3	133
384	Decreases in Cocaine Self-Administration with Dual Inhibition of the Dopamine Transporter and I_f Receptors. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 662-677.	1.3	71

ARTICLE IF CITATIONS Transient receptor potential melastatin type 7 channels are involved in zinc-induced apoptosis in 385 0.8 1 gastric cancer. Animal Cells and Systems, 2011, 15, 123-130. Ethanol Reduces Zincosome Formation in Cultured Astrocytes. Alcohol and Alcoholism, 2011, 46, 17-25. 9 Core-shell mesoporous silica nanospheres used as Zn2+ ratiometric fluorescent sensor and 387 1.7 35 adsorbent. RSC Advances, 2012, 2, 2783. Genetic Inhibition of Solute-Linked Carrier 39 Family Transporter 1 Ameliorates AÎ² Pathology in a 388 49 Drosophila Model of Alzheimer's Disease. PLoS Genetics, 2012, 8, e1002683. Depletion of intracellular zinc induced apoptosis in cultured hippocampal neurons through 389 1.5 18 Raf/MEK/ERK pathways. Nutritional Neuroscience, 2012, 15, 18-24. Zinc diet and Alzheimer's disease: a systematic review. Nutritional Neuroscience, 2012, 15, 2-12. 1.5 Synaptic release and extracellular actions of Zn²⁺ limit propagation of spreading 392 0.9 27 depression and related events in vitro and in vivo. Journal of Neurophysiology, 2012, 107, 1032-1041. Zinc Complexes Developed as Metallopharmaceutics for Treating Diabetes Mellitus based on the Bio-Medicinal Inorganic Chemistry. Current Topics in Medicinal Chemistry, 2012, 12, 210-218. 1.0 Metal Transport and Homeostasis within the Human Body: Toxicity Associated with Transport 394 1.2 26 Abnormalities. Current Medicinal Chemistry, 2012, 19, 2738-2759. Probing the Structural Basis of Zn2+ Regulation of the Epithelial Na+ Channel. Journal of Biological 1.6 Chemistry, 2012, 287, 35589-35598. Zn2+-Al²40 Complexes Form Metastable Quasi-spherical Oligomers That Are Cytotoxic to Cultured 396 1.6 38 Hippocampal Neurons. Journal of Biological Chemistry, 2012, 287, 20555-20564. Molecular and biophysical basis of glutamate and trace metal modulation of voltage-gated Cav2.3 calcium channels. Journal of General Physiology, 2012, 139, 219-234. Prion protein facilitates uptake of zinc into neuronal cells. Nature Communications, 2012, 3, 1134. 398 5.8 119 Rising Intracellular Zinc by Membrane Depolarization and Glucose in Insulin-Secreting Clonal HIT-T15 399 3.8 Beta Cells. Experimental Diabetes Research, 2012, 2012, 1-8. Alteration of the Cerebral Zinc Pool in a Mouse Model of Alzheimer Disease. Journal of 400 0.9 34 Neuropathology and Experimental Neurology, 2012, 71, 211-222. PTEN interacts with metal-responsive transcription factor 1 and stimulates its transcriptional activity. Biochemical Journal, 2012, 441, 367-377. Role of Aluminum and Other Metal Ions in the Pathogenesis of Alzheimer's Disease. , 2012, , 233-260. 402 0 Zinc induces longâ€term upregulation of Tâ€type calcium current in hippocampal neurons <i>i>in vivo</i>. 1.3 Journal of Physiology, 2012, 590, 5895-5905.

#	Article	IF	CITATIONS
404	Synaptic Released Zinc Promotes Tau Hyperphosphorylation by Inhibition of Protein Phosphatase 2A (PP2A). Journal of Biological Chemistry, 2012, 287, 11174-11182.	1.6	122
405	Fluoride Triggered Fluorescence "Turn On―Sensor for Zn ²⁺ lons Based on Pentaquinone Scaffold That Works as a Molecular Keypad Lock. Organic Letters, 2012, 14, 2802-2805.	2.4	62
406	Fast Synaptic Inhibition in Spinal Sensory Processing and Pain Control. Physiological Reviews, 2012, 92, 193-235.	13.1	312
407	A novel di-triazole based peptide as a highly sensitive and selective fluorescent chemosensor for Zn2+ ions. Analyst, The, 2012, 137, 2871.	1.7	23
408	Chemical coding of zinc-enriched neurons in the intramural ganglia of the porcine jejunum. Cell and Tissue Research, 2012, 350, 215-223.	1.5	14
409	Zn2+-selective fluorescent turn-on chemosensor based on terpyridine-substituted siloles. Dyes and Pigments, 2012, 95, 174-179.	2.0	61
410	Zinc signaling in the hippocampus and its relation to pathogenesis of depression. Journal of Trace Elements in Medicine and Biology, 2012, 26, 80-84.	1.5	23
411	Effect of dietary zinc deficiency on ischemic vulnerability of the brain. Neuroscience Letters, 2012, 531, 10-13.	1.0	9
412	A highly sensitive fluorescent probe based on simple pyrazoline for Zn2+ in living neuron cells. Organic and Biomolecular Chemistry, 2012, 10, 8640.	1.5	49
413	Immunogold labeling and X-ray fluorescence microscopy reveal enrichment ratios of Cu and Zn, metabolism of APP and amyloid-β plaque formation in a mouse model of Alzheimer's disease. Metallomics, 2012, 4, 1113.	1.0	20
414	An excitation ratiometric Zn2+ sensor with mitochondria-targetability for monitoring of mitochondrial Zn2+ release upon different stimulations. Chemical Communications, 2012, 48, 8365.	2.2	77
415	Zinc isotope ratio imaging of rat brain thin sections from stable isotope tracer studies by LA-MC-ICP-MS. Metallomics, 2012, 4, 1057.	1.0	31
416	The opposite effects of Cu(ii) and Fe(iii) on the assembly of glucagon amyloid fibrils. RSC Advances, 2012, 2, 5418.	1.7	4
417	Dynamics of Zn ^{II} Binding as a Key Feature in the Formation of Amyloid Fibrils by AÎ ² 11-28. Inorganic Chemistry, 2012, 51, 701-708.	1.9	23
418	Simultaneous in vivo monitoring of multiple brain metals using an online microdialysis-in-loop solid phase extraction-inductively coupled plasma mass spectrometry system. Journal of Analytical Atomic Spectrometry, 2012, 27, 56-62.	1.6	12
419	A quinolinyl antipyrine based fluorescence sensor for Zn2+ and its application in bioimaging. RSC Advances, 2012, 2, 11078.	1.7	84
420	A highly sensitive two-photon fluorescent probe for mitochondrial zinc ions in living tissue. Chemical Communications, 2012, 48, 4546.	2.2	78
421	Exploring the reactivity of flavonoid compounds with metal-associated amyloid-β species. Dalton Transactions, 2012, 41, 6558.	1.6	30

#	Article	IF	CITATIONS
422	Reactivity of Diphenylpropynone Derivatives Toward Metal-Associated Amyloid-Î ² Species. Inorganic Chemistry, 2012, 51, 12959-12967.	1.9	36
423	SNARE-dependent upregulation of potassium chloride co-transporter 2 activity after metabotropic zinc receptor activation in rat cortical neurons in vitro. Neuroscience, 2012, 210, 38-46.	1.1	50
424	Fluorescent sensors based on controllable conformational change forÂdiscrimination of Zn2+ over Cd2+. Tetrahedron, 2012, 68, 5458-5463.	1.0	47
425	A highly selective ratiometric fluorescent chemosensor for Zn2+ ion based on a polyimine macrocycle. Tetrahedron, 2012, 68, 5719-5723.	1.0	26
426	Fluorescent OFF–ON polymer chemosensor bonded alternatively with 1,4-dioctyloxybenzene and (R,R)-salen for cascade Zn2+ and chiral recognition. Tetrahedron: Asymmetry, 2012, 23, 570-576.	1.8	13
427	Upregulation of the E3 ligase NEDD4-1 by Oxidative Stress Degrades IGF-1 Receptor Protein in Neurodegeneration. Journal of Neuroscience, 2012, 32, 10971-10981.	1.7	77
428	Ratiometric and Selective Fluorescent Sensor for Zn ²⁺ as an "Off–On–Off―Switch and Logic Gate. Inorganic Chemistry, 2012, 51, 9642-9648.	1.9	108
429	Simple pyrazoline and pyrazole "turn on―fluorescent sensors selective for Cd2+ and Zn2+ in MeCN. Organic and Biomolecular Chemistry, 2012, 10, 8753.	1.5	76
430	Tricolor Emission of a Fluorescent Heteroditopic Ligand over a Concentration Gradient of Zinc(II) Ions. Journal of Organic Chemistry, 2012, 77, 8268-8279.	1.7	51
431	Interdisciplinary challenges and promising theranostic effects of nanoscience in Alzheimer's disease. RSC Advances, 2012, 2, 5008.	1.7	48
432	Systematic functional characterization of putative zinc transport genes and identification of zinc toxicosis phenotypes in <i>Drosophila melanogaster</i> . Journal of Experimental Biology, 2012, 215, 3254-65.	0.8	48
433	Involvement of glucocorticoid-mediated Zn2+ signaling in attenuation of hippocampal CA1 LTP by acute stress. Neurochemistry International, 2012, 60, 394-399.	1.9	21
434	Therapeutic effect of Yokukansan on social isolation-induced aggressive behavior of zinc-deficient and pair-fed mice. Brain Research Bulletin, 2012, 87, 551-555.	1.4	24
435	Probing oxidative stress: Small molecule fluorescent sensors of metal ions, reactive oxygen species, and thiols. Coordination Chemistry Reviews, 2012, 256, 2333-2356.	9.5	283
436	Metal ions as modulators of protein conformation and misfolding in neurodegeneration. Coordination Chemistry Reviews, 2012, 256, 2253-2270.	9.5	147
437	Metal ions and amyloid fiber formation in neurodegenerative diseases. Copper, zinc and iron in Alzheimer's, Parkinson's and prion diseases. Coordination Chemistry Reviews, 2012, 256, 2271-2284.	9.5	339
438	Metallothioneins and zinc in cancer diagnosis and therapy. Drug Metabolism Reviews, 2012, 44, 287-301.	1.5	77
439	New Sensors for Quantitative Measurement of Mitochondrial Zn ²⁺ . ACS Chemical Biology, 2012, 7, 1636-1640.	1.6	92

#	Article	IF	CITATIONS
440	Cytotoxic effects of ZnO hierarchical architectures on RSC96 Schwann cells. Nanoscale Research Letters, 2012, 7, 439.	3.1	45
441	Zinc in Stroke: Time for a New Approach?. , 2012, , 209-226.		2
442	Intracellular Zinc Liberation: A Trigger for Oxidative Stress-Induced Toxicity to Neurons and Neuroglia. , 2012, , 191-208.		0
443	Zinc Overload in Stroke. , 2012, , 167-189.		7
444	Nucleophilic reactivity of Zinc-bound thiolates: subtle interplay between coordination set and conformational flexibility. Chemical Science, 2012, 3, 3409.	3.7	16
445	Neuroprotective Effects of Reactive Oxygen Species Mediated by BDNF-Independent Activation of TrkB. Journal of Neuroscience, 2012, 32, 15521-15532.	1.7	52
446	A cyanine-based fluorescent sensor for detecting endogenous zinc ions in live cells and organisms. Biomaterials, 2012, 33, 7818-7827.	5.7	158
447	Protein fibrillation and the olfactory system: speculations on their linkage. Trends in Biotechnology, 2012, 30, 609-610.	4.9	6
448	Structural basis behind the interaction of Zn2+ with the protein α-synuclein and the Aβ peptide: A comparative analysis. Journal of Inorganic Biochemistry, 2012, 117, 334-341.	1.5	52
450	Optogenetic reporters. Progress in Brain Research, 2012, 196, 235-263.	0.9	54
451	A new internal charge transfer probe for the highly selective detection of Zn(II) by means of dual colorimetric and fluorescent turn-on responses. Sensors and Actuators B: Chemical, 2012, 174, 299-305.	4.0	24
452	Imaging free zinc levels in vivo – What can be learned?. Inorganica Chimica Acta, 2012, 393, 12-23.	1.2	42
453	Demonstration of an Olfactory Bulb–Brain Translocation Pathway for ZnO Nanoparticles in Rodent Cells In Vitro and In Vivo. Journal of Molecular Neuroscience, 2012, 48, 464-471.	1.1	115
454	Neurochemical Characterization of Zinc Transporter 3-Like Immunoreactive (ZnT3+) Neurons in the Intramural Ganglia of the Porcine Duodenum. Journal of Molecular Neuroscience, 2012, 48, 766-776.	1.1	12
455	Illuminating Mobile Zinc with Fluorescence. Methods in Enzymology, 2012, 505, 445-468.	0.4	43
456	Proposed glucocorticoid-mediated zinc signaling in the hippocampus. Metallomics, 2012, 4, 614.	1.0	32
457	Metal Ions in Neurological Systems. , 2012, , .		12
458	New Trick for an Old Ligand! The Sensing of Zn(II) Using a Lanthanide Based Ternary Yb(III)-cyclen-8-hydroxyquinoline System As a Dual Emissive Probe for Displacement Assay. Inorganic Chemistry, 2012, 51, 10158-10168	1.9	95

#	Article	IF	CITATIONS
459	Misfolded proteins in Alzheimer's disease and type II diabetes. Chemical Society Reviews, 2012, 41, 608-621.	18.7	335
460	A Novel Role of the L-Type Calcium Channel α1D Subunit as a Gatekeeper for Intracellular Zinc Signaling: Zinc Wave. PLoS ONE, 2012, 7, e39654.	1.1	58
461	Increased Metallothionein I/II Expression in Patients with Temporal Lobe Epilepsy. PLoS ONE, 2012, 7, e44709.	1.1	26
462	Synaptic physiology revised: think zinc!. Future Neurology, 2012, 7, 433-442.	0.9	0
463	Expression Profiling of Solute Carrier Gene Families at the Blood-CSF Barrier. Frontiers in Pharmacology, 2012, 3, 154.	1.6	38
464	Antioxidant and Astroprotective Effects of aPulicaria incisaInfusion. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-10.	1.9	12
465	Increase in intra-abdominal pressure raises brain venous pressure, leads to brain ischaemia and decreases brain magnesium content. Magnesium Research, 2012, 25, 89-98.	0.4	10
466	Zinc and Regulation of Inflammatory Cytokines: Implications for Cardiometabolic Disease. Nutrients, 2012, 4, 676-694.	1.7	216
467	Zinc deficiency induces dysregulation of cytokine productions in an experimental colitis of rats. Biomedical Research, 2012, 33, 329-336.	0.3	25
468	Novel Thieno-imidazole Based Probe for Colorimetric Detection of Hg ²⁺ and Fluorescence Turn-on Response of Zn ²⁺ . Organic Letters, 2012, 14, 2564-2567.	2.4	93
469	Bioinorganic Chemistry of Alzheimer's Disease. Chemical Reviews, 2012, 112, 5193-5239.	23.0	581
470	Imaging beyond the proteome. Chemical Communications, 2012, 48, 8864.	2.2	75
471	An 1,3,4-oxadiazole-based OFF–ON fluorescent chemosensor for Zn2+ in aqueous solution and imaging application in living cells. Dalton Transactions, 2012, 41, 10626.	1.6	33
472	Fluorescence ratiometric zinc sensors based on controlled energy transfer. Journal of Materials Chemistry, 2012, 22, 17100.	6.7	27
473	Zn ²⁺ Bindingâ€Enabled Excited State Intramolecular Proton Transfer: A Step toward New Nearâ€Infrared Fluorescent Probes for Imaging Applications. Advanced Healthcare Materials, 2012, 1, 485-492.	3.9	54
475	A Sensitive Zincâ€Activated ¹²⁹ Xe MRI Probe. Angewandte Chemie - International Edition, 2012, 51, 4100-4103.	7.2	75
476	A potential role for zinc alterations in the pathogenesis of Alzheimer's disease. BioFactors, 2012, 38, 98-106.	2.6	29
477	Metal imaging in neurodegenerative diseases. Metallomics, 2012, 4, 721.	1.0	109

#	Article	IF	CITATIONS
478	Fluorescent Zinc Sensor with Minimized Proton-Induced Interferences: Photophysical Mechanism for Fluorescence Turn-On Response and Detection of Endogenous Free Zinc Ions. Inorganic Chemistry, 2012, 51, 8760-8774.	1.9	119
479	The role of metallobiology and amyloidâ€Î² peptides in Alzheimer's disease. Journal of Neurochemistry, 2012, 120, 149-166.	2.1	233
480	Metal-associated amyloid-β species in Alzheimer's disease. Current Opinion in Chemical Biology, 2012, 16, 67-73.	2.8	230
481	Copper(II) interaction with amyloid-β: Affinity and speciation. Coordination Chemistry Reviews, 2012, 256, 3-12.	9.5	66
482	Zinc oxide particles: Synthesis, properties and applications. Chemical Engineering Journal, 2012, 185-186, 1-22.	6.6	579
483	Versatile Schiff-base hydrazone fluorescent receptors: Synthesis, spectroscopy and complexation studies. Inorganica Chimica Acta, 2012, 380, 40-49.	1.2	5
484	Oxidative stress induced by glutathione depletion reproduces pathological modifications of TDP-43 linked to TDP-43 proteinopathies. Neurobiology of Disease, 2012, 45, 862-870.	2.1	82
485	Gadolinium(III)–fluorescein complex as a dual modal probe for MRI and fluorescence zinc sensing. Tetrahedron, 2012, 68, 306-310.	1.0	30
486	New regioisomeric naphthol-substituted thiazole based ratiometric fluorescence sensor for Zn2+ with a remarkable red shift in emission spectra. Tetrahedron, 2012, 68, 647-653.	1.0	58
487	Zinc transporters and their role in the pancreatic βâ€cell. Journal of Diabetes Investigation, 2012, 3, 202-211.	1.1	51
488	Involvement of Nâ€methylâ€Dâ€aspartate receptor subunits in zincâ€mediated modification of CA1 longâ€term potentiation in the developing hippocampus. Journal of Neuroscience Research, 2012, 90, 551-558.	1.3	11
489	Dietary Intake of Zinc was Inversely Associated with Depression. Biological Trace Element Research, 2012, 145, 286-290.	1.9	49
490	A Highly Selective Turn-On Fluorescent Chemosensor for Zinc Ion in Aqueous Media. Journal of Fluorescence, 2013, 23, 1239-1245.	1.3	5
491	Electrospun Fibers as a Solidâ€State Realâ€Time Zinc Ion Sensor with High Sensitivity and Cell Medium Compatibility. Advanced Functional Materials, 2013, 23, 1566-1574.	7.8	31
492	Neuroimaging, nutrition, and iron-related genes. Cellular and Molecular Life Sciences, 2013, 70, 4449-4461.	2.4	23
493	Theoretical studies on the structural and spectroscopic properties of an iminocoumarin-based probe and its metal complexation: an implication for a fluorescence probe. Dalton Transactions, 2013, 42, 13004.	1.6	2
494	Selective fluorescence sensing of Cu(ii) and Zn(ii) using a new Schiff base-derived model compound: naked eye detection and spectral deciphering of the mechanism of sensory action. Analyst, The, 2013, 138, 6532.	1.7	94
495	8-Aminoquinoline-based ratiometric zinc probe: Unexpected binding mode and its application in living cells. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3511-3514.	1.0	18

#	Article	IF	CITATIONS
496	A new turn-on fluorescent chemosensor based on diketopyrrolopyrrole (DPP) for imaging Zn2+ in living cells. Analyst, The, 2013, 138, 6163.	1.7	73
497	Friedreich ataxia: metal dysmetabolism in dorsal root ganglia. Acta Neuropathologica Communications, 2013, 1, 26.	2.4	24
498	Comparative Study of Serum Zinc, Copper, Manganese, and Iron in Preeclamptic Pregnant Women. Biological Trace Element Research, 2013, 154, 14-20.	1.9	76
499	Zinc Promotes the Death of Hypoxic Astrocytes by Upregulating Hypoxiaâ€Induced Hypoxiaâ€Inducible Factorâ€1alpha Expression via Poly(<scp>ADP</scp> â€ribose) Polymeraseâ€1. CNS Neuroscience and Therapeutics, 2013, 19, 511-520.	1.9	34
500	Bioinorganic Neurochemistry. , 2013, , 207-240.		1
501	Environmentally responsive MRI contrast agents. Chemical Communications, 2013, 49, 9704.	2.2	122
502	Synthesis, characterization, optical property of a bipyridine derivative and its application to determine trace Zn2+ in water. Sensors and Actuators B: Chemical, 2013, 177, 218-223.	4.0	11
503	A ratiometric fluorescent detection of Zn(II) in aqueous solutions using pyrene-appended histidine. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6811-6815.	1.0	12
504	Design and synthesis of a squaraine based near-infrared fluorescent probe for the ratiometric detection of Zn2+ ions. Dyes and Pigments, 2013, 99, 699-704.	2.0	46
505	Tools to study distinct metal pools in biology. Dalton Transactions, 2013, 42, 3210-3219. Colorimetric as well as dual switching fluorescence $\hat{a} \in turn on \hat{a} \in M$ chemosensors for exclusive	1.6	40
506	altimg="si1.gif" overflow="scroll"> <mml:mrow><mml:msubsup><mml:mrow><mml:mtext>HSO</mml:mtext></mml:mrow><mml:mtext>HSO</mml:mtext></mml:msubsup></mml:mrow> <mml:msubsup><mml:mrow><mml:mcos></mml:mcos><</mml:mrow></mml:msubsup>	nl:mrow><	:mml:mn mrow>
507	in aqueous solution: experimental and theoretical studies. Tetrahedron Letters, 2013, 54, 6892-6896. Ferritin iron uptake and release in the presence of metals and metalloproteins: Chemical implications in the brain. Coordination Chemistry Reviews, 2013, 257, 2752-2764.	9.5	44
508	Mania: Not the opposite of depression, but an extension? Neuronal plasticity and polarity. Medical Hypotheses, 2013, 81, 175-179.	0.8	11
509	Angiotensin II potentiates zinc-induced cortical neuronal death by acting on angiotensin II type 2 receptor. Molecular Brain, 2013, 6, 50.	1.3	13
510	An INHIBIT logic gate from a thiophene derivative using iron and zinc ions as the input: tuning the efficiency on moving from naphthalene to anthracene to pyrene for the green luminescent detection of the intracellular iron. Dalton Transactions, 2013, 42, 16387.	1.6	12
511	Zinc ions as effectors of environmental oxidative lung injury. Free Radical Biology and Medicine, 2013, 65, 57-69.	1.3	79
512	Therapeutic inorganic ions in bioactive glasses to enhance bone formation and beyond. Biomaterials Science, 2013, 1, 254-256.	2.6	165
513	Pt(ii) compounds interplay with Cu(ii) and Zn(ii) coordination to the amyloid-β peptide has metal specific consequences on deleterious processes associated to Alzheimer's disease. Chemical Communications, 2013, 49, 2130.	2.2	58

		CITATION REPORT	
#	ARTICLE Zn2+/Cd2+ optical discrimination by fluorescent chemosensors based on 8-hydroxyouinoline	IF	CITATIONS
514	derivatives and sulfur-containing macrocyclic units. Dalton Transactions, 2013, 42, 14516.	1.6	52
515	Crown ether-containing Schiff base as a highly efficient "turn-on―fluorescent sensor for determination and separation of Zn ²⁺ in water. Dalton Transactions, 2013, 42, 1969-1972.	1.6	32
516	A selective and sensitive fluorescence probe for imaging endogenous zinc in living cells. Tetrahedron, 2013, 69, 15-21.	1.0	34
517	Luminescent Chemodosimeters for Bioimaging. Chemical Reviews, 2013, 113, 192-270.	23.0	2,049
518	A quinoline-based fluorescent chemosensor for distinguishing cadmium from zinc ions using cysteine as an auxiliary reagent. Sensors and Actuators B: Chemical, 2013, 188, 1116-1122.	4.0	86
519	Fluorescent chemosensor based-on the combination of julolidine and furan for selective detection of zinc ion. Inorganic Chemistry Communication, 2013, 35, 342-345.	1.8	38
520	Zn ²⁺ and Pyrophosphate Sensing: Selective Detection in Physiological Conditions and Application in DNA-Based Estimation of Bacterial Cell Numbers. Analytical Chemistry, 2013, 85, 8369-8375.	3.2	76
521	Depletion of intracellular zinc induces apoptosis of cultured hippocampal neurons through suppression of ERK signaling pathway and activation of caspase-3. Neuroscience Letters, 2013, 552, 140-145.	1.0	43
522	Copper/zinc chelation by clioquinol reduces spinal cord white matter damage and behavioral deficits in a murine MOG-induced multiple sclerosis model. Neurobiology of Disease, 2013, 54, 382-391.	2.1	48
523	A quinoline based fluorescent probe that can distinguish zinc(II) from cadmium(II) in water. Tetrahedron Letters, 2013, 54, 1125-1128.	0.7	46
524	Fluorescence ON/OFF switching Zn2+ sensor based on pyridine–pyridone scaffold. Sensors and Actuators B: Chemical, 2013, 181, 823-828.	4.0	38
525	Neuroprotective Effect of Zinc Chelator DEDTC in a Zebrafish (<i>Danio rerio</i>) Model of Hypoxic Brain Injury. Zebrafish, 2013, 10, 30-35.	0.5	18
526	Protein fibrillation and nanoparticle interactions: opportunities and challenges. Nanoscale, 2013, 5, 2570.	2.8	153
527	Carbazole incorporated ratiometric chemosensor for Zn2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 105, 273-279.	2.0	18
528	Fluorescent chemosensor for biological zinc ions. Supramolecular Chemistry, 2013, 25, 2-6.	1.5	9
529	The missing link in the amyloid cascade of Alzheimer's disease – Metal ions. Neurochemistry International, 2013, 62, 367-378.	1.9	72
531	From nonconjugation to conjugation: novel meso-OH substituted dipyrromethanes as fluorescence turn-on Zn2+ probes. Organic and Biomolecular Chemistry, 2013, 11, 2685.	1.5	28
532	Cannabinoid Receptors Couple to NMDA Receptors to Reduce the Production of NO and the Mobilization of Zinc Induced by Glutamate. Antioxidants and Redox Signaling, 2013, 19, 1766-1782.	2.5	69

#	Article	IF	CITATIONS
533	Zinc and the Zinc Proteome. Metal lons in Life Sciences, 2013, 12, 479-501.	2.8	40
534	Coordination of Metal Ions to β-Amyloid Peptide: Impact on Alzheimer's Disease. Modecular Medicine and Medicinal, 2013, , 127-155.	0.4	0
535	Coumarin-based novel fluorescent zinc ion probe in aqueous solution. Tetrahedron, 2013, 69, 4743-4748.	1.0	35
536	Synaptic Zn2+ homeostasis and its significance. Metallomics, 2013, 5, 417.	1.0	72
537	Highly water-soluble BODIPY-based fluorescent probes for sensitive fluorescent sensing of zinc(ii). Journal of Materials Chemistry B, 2013, 1, 1722.	2.9	79
538	Chelators for investigating zinc metalloneurochemistry. Current Opinion in Chemical Biology, 2013, 17, 129-136.	2.8	72
539	Integrated and Passive 1,2,3-Triazolyl Groups in Fluorescent Indicators for Zinc(II) Ions: Thermodynamic and Kinetic Evaluations. Inorganic Chemistry, 2013, 52, 5838-5850.	1.9	67
540	α-Monoacylated and α,α′- and α,β′-Diacylated Dipyrrins as Highly Sensitive Fluorescence "Turn-on― Zn ²⁺ Probes. Journal of Organic Chemistry, 2013, 78, 5328-5338.	1.7	129
541	1,8-Naphthalimide-based â€~turn-on' fluorescent sensor for the detection of zinc ion in aqueous media and its applications for bioimaging. Tetrahedron Letters, 2013, 54, 3353-3358.	0.7	38
542	Biomimetic Ion Nanochannels as a Highly Selective Sequential Sensor for Zinc Ions Followed by Phosphate Anions. Chemistry - A European Journal, 2013, 19, 9388-9395.	1.7	42
543	Fluorescent probes for monitoring regulated secretion. Current Opinion in Chemical Biology, 2013, 17, 672-681.	2.8	7
544	Peptide-based targeting of fluorescent zinc sensors to the plasma membrane of live cells. Chemical Science, 2013, 4, 3080.	3.7	47
545	ZiaR., 2013,, 2345-2345.		0
546	Inhibitory effect of zinc on glucoseâ€stimulated zinc/insulin secretion in an insulinâ€secreting βâ€cell line. Experimental Physiology, 2013, 98, 1301-1311.	0.9	28
547	Computational Design of Two-Photon Fluorescent Probes for a Zinc Ion Based on a Salen Ligand. Inorganic Chemistry, 2013, 52, 5702-5713.	1.9	25
548	Lessons on the critical interplay between zinc binding and protein structure and dynamics. Journal of Inorganic Biochemistry, 2013, 121, 145-155.	1.5	26
549	The role of the GPR39 receptor in zinc deficient-animal model of depression. Behavioural Brain Research, 2013, 238, 30-35.	1.2	56
550	Zinc Biochemistry: From a Single Zinc Enzyme to a Key Element of Life. Advances in Nutrition, 2013, 4, 82-91.	2.9	550

#	Article	IF	CITATIONS
551	Zinc-rich inhibitor of apoptosis proteins (IAPs) as regulatory factors in the epithelium of normal and inflamed airways. BioMetals, 2013, 26, 205-227.	1.8	13
552	Zinc(II) Interactions with Brain-Derived Neurotrophic Factor N-Terminal Peptide Fragments: Inorganic Features and Biological Perspectives. Inorganic Chemistry, 2013, 52, 11075-11083.	1.9	27
553	Psychological Stress-Induced Lower Serum Zinc and Zinc Redistribution in Rats. Biological Trace Element Research, 2013, 155, 65-71.	1.9	22
554	Phenylbenzoxazole–Amide–Cyclen Linkage as a Ratiometric Fluorescent Receptor for Zn(II) in Water. Journal of Physical Chemistry A, 2013, 117, 3387-3395.	1.1	8
555	Protein trafficking abnormalities in <i>Drosophila</i> tissues with impaired activity of the ZIP7 zinc transporter Catsup. Development (Cambridge), 2013, 140, 3018-3027.	1.2	70
556	Zinc and Iron, Gamma and Beta Class, Carbonic Anhydrases of Domain Archaea. , 2013, , 2380-2385.		0
557	Exposure to Environmental Toxicants and Pathogenesis of Amyotrophic Lateral Sclerosis: State of the Art and Research Perspectives. International Journal of Molecular Sciences, 2013, 14, 15286-15311.	1.8	60
558	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. PLoS Genetics, 2013, 9, e1003522.	1.5	35
559	Acid-sensing ion channels under hypoxia. Channels, 2013, 7, 231-237.	1.5	24
560	Neurulation and neurite extension require the zinc transporter ZIP12 (<i>slc39a12</i>). Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9903-9908.	3.3	109
561	Decreased Zinc Availability Affects Glutathione Metabolism in Neuronal Cells and in the Developing Brain. Toxicological Sciences, 2013, 133, 90-100.	1.4	28
562	High-sensitivity distribution mapping of iron, zinc and copper during spio-microbubbles facilitated focused ultrasound induced blood-brain barrier opening via laser ablation/inductively coupled plasma mass spectrometry. , 2013, , .		0
563	Intracellular dialysis disrupts Zn ²⁺ dynamics and enables selective detection of Zn ²⁺ influx in brain slice preparations. Journal of Neurochemistry, 2013, 125, 822-831.	2.1	8
564	Kv3 channel assembly, trafficking and activity are regulated by zinc through different binding sites. Journal of Physiology, 2013, 591, 2491-2507.	1.3	15
565	Transduction of Voltage and Ca ²⁺ Signals by Slo1 BK Channels. Physiology, 2013, 28, 172-189.	1.6	64
568	Zinc to Treat Tinnitus in the Elderly. Otology and Neurotology, 2013, 34, 1146-1154.	0.7	32
569	Importance and management of micronutrient deficiencies in patients with Alzheimer's disease. Clinical Interventions in Aging, 2013, 8, 531.	1.3	44
570	Enhanced Susceptibility to Spontaneous Seizures of Noda Epileptic Rats by Loss of Synaptic Zn2+. PLoS ONE, 2013, 8, e71372.	1.1	11

#	Article	IF	CITATIONS
571	How "Pharmacoresistant―is Cav2.3, the Major Component of Voltage-Gated R-type Ca2+ Channels?. Pharmaceuticals, 2013, 6, 759-776. Mitochondrial-Taggeted Two-Photon Fluorescent Probes for Zinc Ions, cmmkmath	1.7	14
572	xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"> <mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn mathvariant="bold">2</mml:mn </mml:msub><mml:msub><mml:mtext>O</mml:mtext><mml:mn mathvariant="bold">2</mml:mn </mml:msub></mml:mrow> . and Thiols in Living Tissues.	1.9	20
573	Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-11. The cannabinoid receptor 1 associates with NMDA receptors to produce glutamatergic hypofunction: implications in psychosis and schizophrenia. Frontiers in Pharmacology, 2014, 4, 169.	1.6	98
574	Cognitive decline due to excess synaptic Zn2+ signaling in the hippocampus. Frontiers in Aging Neuroscience, 2014, 6, 26.	1.7	38
575	Zinc-positive and zinc-negative connections of the claustrum. Frontiers in Systems Neuroscience, 2014, 8, 37.	1.2	7
576	Fishy Business: Effect of Omega-3 Fatty Acids on Zinc Transporters and Free Zinc Availability in Human Neuronal Cells. Nutrients, 2014, 6, 3245-3258.	1.7	24
578	Abnormalities in the zinc-metalloprotease-BDNF axis may contribute to megalencephaly and cortical hyperconnectivity in young autism spectrum disorder patients. Molecular Brain, 2014, 7, 64.	1.3	31
579	A role for intracellular zinc in glioma alteration of neuronal chloride equilibrium. Cell Death and Disease, 2014, 5, e1501-e1501.	2.7	15
580	Effect of Metals on Kinetic Pathways of Amyloid- \hat{l}^2 Aggregation. Biomolecules, 2014, 4, 101-116.	1.8	94
581	Hippocampal neuronal metal ion imbalance related oxidative stress in a rat model of chronic aluminum exposure and neuroprotection of meloxicam. Behavioral and Brain Functions, 2014, 10, 6.	1.4	37
582	Zinc regulates iNOS-derived nitric oxide formation in endothelial cells. Redox Biology, 2014, 2, 945-954.	3.9	72
583	<i>In vitro</i> protection by pyruvate against cadmiumâ€induced cytotoxicity in hippocampal HTâ€22 cells. Journal of Applied Toxicology, 2014, 34, 903-913.	1.4	12
584	Brainâ€derived neurotrophic factor but not vesicular zinc promotes TrkB activation within mossy fibers of mouse hippocampus in vivo. Journal of Comparative Neurology, 2014, 522, 3885-3899.	0.9	26
586	Electroanalytical Sensors and Methods for Assays and Studies of Neurological Biomarkers. Electroanalysis, 2014, 26, 1236-1248.	1.5	8
587	Mechanistic Studies of Gd ³⁺ â€Based MRI Contrast Agents for Zn ²⁺ Detection: Towards Rational Design. Chemistry - A European Journal, 2014, 20, 10959-10969.	1.7	27
588	Significance of Zn2+ signaling in cognition: Insight from synaptic Zn2+ dyshomeostasis. Journal of Trace Elements in Medicine and Biology, 2014, 28, 393-396.	1.5	13
589	Intracellular Zn ²⁺ signaling in the dentate gyrus is required for object recognition memory. Hippocampus, 2014, 24, 1404-1412.	0.9	35
590	Intracellular Zn ²⁺ signaling in cognition. Journal of Neuroscience Research, 2014, 92, 819-824.	1.3	33

#	Article	IF	Citations
 591	A Simple Benzimidazole Based Fluorescent Sensor for Ratiometric Recognition of Zn ²⁺ in	1.0	12
	water. Bulletin of the Korean Chemical Society, 2014, 35, 489-495.		
592	Molecular Aspects of Zinc Signals. , 2014, , 7-26.		4
593	Zinc Signaling by "Zinc Wave― , 2014, , 89-109.		4
594	Curcumin inhibits the increase of labile zinc and the expression of inflammatory cytokines after traumatic spinal cord injury in rats. Journal of Surgical Research, 2014, 187, 646-652.	0.8	16
595	Contribution of calcium-conducting channels to the transport of zinc ions. Pflugers Archiv European Journal of Physiology, 2014, 466, 381-387.	1.3	37
596	ZnO nanoparticles induced oxidative stress and apoptosis in HepC2 and MCF-7 cancer cells and their antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2014, 117, 267-276.	2.5	254
597	Responsive polymer-based multicolor fluorescent probes for temperature and Zn2+ ions in aqueous media. Science China Chemistry, 2014, 57, 615-623.	4.2	12
598	Zinc and insulin in pancreatic beta-cells. Endocrine, 2014, 45, 178-189.	1.1	177
599	Zinc and its effects on oxidative stress in Alzheimer's disease. Neurological Sciences, 2014, 35, 923-928.	0.9	32
600	SpiroZin1: A Reversible and pHâ€Insensitive, Reactionâ€Based, Redâ€Fluorescent Probe for Imaging Biological Mobile Zinc. ChemMedChem, 2014, 9, 1238-1243.	1.6	17
601	Synthesis of a highly Zn2+-selective cyanine-based probe and its use for tracing endogenous zinc ions in cells and organisms. Nature Protocols, 2014, 9, 1245-1254.	5.5	83
602	A new turn-on fluorescence probe for Zn2+ in aqueous solution and imaging application in living cells. Analytica Chimica Acta, 2014, 826, 77-83.	2.6	16
603	In vivo ratiometric Zn ²⁺ imaging in zebrafish larvae using a new visible light excitable fluorescent sensor. Chemical Communications, 2014, 50, 1253-1255.	2.2	44
604	Pyrimidine-based fluorescent zinc sensor: Photo-physical characteristics, quantum chemical interpretation and application in real samples. Sensors and Actuators B: Chemical, 2014, 201, 204-212.	4.0	53
606	Proton-sensitive cation channels and ion exchangers in ischemic brain injury: New therapeutic targets for stroke?. Progress in Neurobiology, 2014, 115, 189-209.	2.8	98
607	The effects of interactions between selenium and zinc serum concentration and SEP15 and SLC30A3 gene polymorphisms on memory scores in a population of mature and elderly adults. Genes and Nutrition, 2014, 9, 377.	1.2	12
608	Substituent effect on fluorophores instead of ionophores: its implication in highly selective fluorescent probes for Zn2+ over Cd2+. RSC Advances, 2014, 4, 4827.	1.7	7
609	Synthesis and Sensor Activity of a PET-based 1,8-naphthalimide Probe for Zn2+ and pH Determination. Journal of Fluorescence, 2014, 24, 1621-1628.	1.3	51

#	Article	IF	CITATIONS
610	A role for synaptic zinc in ProSAP/Shank PSD scaffold malformation in autism spectrum disorders. Developmental Neurobiology, 2014, 74, 136-146.	1.5	91
611	Neurologic damage in hypoglycemia. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2014, 126, 513-532.	1.0	28
612	Bioactive glass foams for tissue engineering applications. , 2014, , 191-212.		5
613	On the molecular relationships between high-zinc tolerance and aconitase (Aco1) in Saccharomyces cerevisiae. Metallomics, 2014, 6, 634-645.	1.0	4
614	Phenanthroline bridged bis(β-cyclodextrin)s/adamantane-carboxylic acid supramolecular complex as an efficient fluorescence sensor to Zn2+. Organic Chemistry Frontiers, 2014, 1, 355.	2.3	27
615	Switchable and selective detection of Zn ²⁺ or Cd ²⁺ in living cells based on 3′-O-substituted arrangement of benzoxazole-derived fluorescent probes. Chemical Communications, 2014, 50, 7514-7516.	2.2	56
616	NIR sensing of Zn(<scp>ii</scp>) and subsequent dihydrogen phosphate detection by a benzothiazole functionalized ninhydrin based receptor. RSC Advances, 2014, 4, 55689-55695.	1.7	27
617	Biologically targeted probes for Zn ²⁺ : a diversity oriented modular "click-S _N Ar-click―approach. Chemical Science, 2014, 5, 3528-3535.	3.7	49
618	Two-photon imaging of Zn ²⁺ dynamics in mossy fiber boutons of adult hippocampal slices. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6786-6791.	3.3	31
619	Quinoline derivative-functionalized carbon dots as a fluorescent nanosensor for sensing and intracellular imaging of Zn ²⁺ . Journal of Materials Chemistry B, 2014, 2, 5020-5027.	2.9	143
620	Polymer-based biocompatible fluorescent sensor for nano-molar detection of Zn2+ in aqueous medium and biological samples. Inorganic Chemistry Frontiers, 2014, 1, 99.	3.0	9
621	A "turn-onâ€â€"turning-to-ratiometric sensor for zinc(<scp>ii</scp>) ions in aqueous media. RSC Advances, 2014, 4, 693-696.	1.7	10
622	Ratiometric fluorescence imaging of lysosomal Zn ²⁺ release under oxidative stress in neural stem cells. Biomaterials Science, 2014, 2, 89-97.	2.6	52
623	Syntheses of mono- and diacylated bipyrroles with rich substitution modes and development of a prodigiosin derivative as a fluorescent Zn(ii) probe. RSC Advances, 2014, 4, 6133.	1.7	23
624	Selective Zn2+ sensing using a modified bipyridine complex. RSC Advances, 2014, 4, 25605.	1.7	24
625	A ratiometric fluorescent molecular probe with enhanced two-photon response upon Zn ²⁺ binding for in vitro and in vivo bioimaging. Chemical Science, 2014, 5, 3469-3474.	3.7	68
626	Biological metals and metal-targeting compounds in major neurodegenerative diseases. Chemical Society Reviews, 2014, 43, 6727-6749.	18.7	417
627	Elemental and Chemically Specific X-ray Fluorescence Imaging of Biological Systems. Chemical Reviews, 2014, 114, 8499-8541.	23.0	234

#	Article	IF	CITATIONS
628	Nearâ€lRâ€Triggered, Remoteâ€Controlled Release of Metal Ions: A Novel Strategy for Caged Ions. Angewandte Chemie - International Edition, 2014, 53, 10678-10681.	7.2	39
629	Alzheimer's disease and epigenetic diet. Neurochemistry International, 2014, 78, 105-116.	1.9	57
630	A Twoâ€Photon Probe for Nearâ€Membrane Zinc Ions. Asian Journal of Organic Chemistry, 2014, 3, 1070-1073.	1.3	16
631	Polyacrylate Microspheres for Tunable Fluorimetric Zinc Ions Sensor. Analytical Chemistry, 2014, 86, 411-418.	3.2	48
632	Cyclometalated Iridium(III) Complexes for Phosphorescence Sensing of Biological Metal Ions. Inorganic Chemistry, 2014, 53, 1804-1815.	1.9	137
633	Addition of a Second Binding Site Increases the Dynamic Range but Alters the Cellular Localization of a Red Fluorescent Probe for Mobile Zinc. Inorganic Chemistry, 2014, 53, 6491-6493.	1.9	25
634	Psychological stress induced hippocampus zinc dyshomeostasis and depression-like behavior in rats. Behavioural Brain Research, 2014, 273, 133-138.	1.2	18
635	Selective turn-on fluorescence for Zn 2+ and Zn 2+ + Cd 2+ metal ions by single Schiff base chemosensor. Analytica Chimica Acta, 2014, 848, 74-79.	2.6	65
636	Highly Sensitive Quinoline-Based Two-Photon Fluorescent Probe for Monitoring Intracellular Free Zinc Ions. Analytical Chemistry, 2014, 86, 6548-6554.	3.2	69
638	Design and Synthesis of a New Terbium Complex-Based Luminescent Probe for Time-Resolved Luminescence Sensing of Zinc Ions. Journal of Fluorescence, 2014, 24, 1537-1544.	1.3	10
639	Visualization of Zn ²⁺ Ions in Live Zebrafish Using a Luminescent Iridium(III) Chemosensor. ACS Applied Materials & Interfaces, 2014, 6, 14008-14015.	4.0	54
640	A near-infrared turn-on fluorescent nanosensor for zinc(II) based on CuInS2 quantum dots modified with 8-aminoquinoline. Mikrochimica Acta, 2014, 181, 1385-1391.	2.5	15
641	Sensing of Zn2+ion by N-Furfurylsalicylaldimine Based on CHEF Processâ€. Journal of Fluorescence, 2014, 24, 1245-1251.	1.3	3
642	A highly sensitive and selective ratiometric fluorescent sensor for Zn2+ ion based on ICT and FRET. Dyes and Pigments, 2014, 102, 301-307.	2.0	68
643	High selectivity up-converted fluorescence turn-on probe for Zn ²⁺ based on PAMAM hydroxy-naphthalene Schiff-bases (Cî€N) half-organic quantum dots. RSC Advances, 2014, 4, 25510-25519.	1.7	7
644	Two-Photon Fluorescent Probes for Metal Ions in Live Tissues. Inorganic Chemistry, 2014, 53, 1794-1803.	1.9	72
645	A Highly Selective Chemosensor for Al(III) and Zn(II) and Its Coordination with Metal Ions. Inorganic Chemistry, 2014, 53, 3012-3021.	1.9	115
646	A highly fluorescent chemosensor for Zn ²⁺ and the recognition research on distinguishing Zn ²⁺ from Cd ²⁺ . Dalton Transactions, 2014, 43, 706-713.	1.6	63
#	Article	IF	CITATIONS
-----	---	-----	-----------
647	Zn(<scp>ii</scp>)-coordination modulated ligand photophysical processes – the development of fluorescent indicators for imaging biological Zn(<scp>ii</scp>) ions. RSC Advances, 2014, 4, 20398-20440.	1.7	99
648	Zn2+ dyshomeostasis caused by loss of ATP13A2/PARK9 leads to lysosomal dysfunction and alpha-synuclein accumulation. Human Molecular Genetics, 2014, 23, 2791-2801.	1.4	137
649	Zinc: An underappreciated modulatory factor of brain function. Biochemical Pharmacology, 2014, 91, 426-435.	2.0	111
650	A highly selective PET-based chemosensor for instant detecting of Zn ²⁺ . RSC Advances, 2014, 4, 35797.	1.7	26
651	4-Amino-1,8-naphthalimide-based fluorescent sensor with high selectivity and sensitivity for Zn2+ imaging in living cells. Inorganic Chemistry Communication, 2014, 43, 173-178.	1.8	27
652	A novel chemosensor with visible light excitability for sensing Zn ²⁺ in physiological medium and in HeLa cells. Organic and Biomolecular Chemistry, 2014, 12, 4975-4982.	1.5	47
653	Zinc deficiency dysregulates the synaptic ProSAP/Shank scaffold and might contribute to autism spectrum disorders. Brain, 2014, 137, 137-152.	3.7	154
654	The study of zinc ions binding to casein. Colloids and Surfaces B: Biointerfaces, 2014, 120, 21-27.	2.5	46
655	Highly selective turn-on fluorescent sensor for nanomolar detection of biologically important Zn2+ based on isonicotinohydrazide derivative: Application in cellular imaging. Biosensors and Bioelectronics, 2014, 61, 429-433.	5.3	83
656	Fluorescent chemosensors for Zn2+ ions based on flavonol derivatives. Sensors and Actuators B: Chemical, 2014, 202, 674-682.	4.0	75
657	A novel dual-emission ratiometric fluorescent nanoprobe for sensing and intracellular imaging of Zn2+. Biosensors and Bioelectronics, 2014, 61, 397-403.	5.3	38
659	Lipid rafts: linking prion protein to zinc transport and amyloid-β toxicity in Alzheimer's disease. Frontiers in Cell and Developmental Biology, 2014, 2, 41.	1.8	18
660	The role of intracellular zinc release in aging, oxidative stress, and Alzheimerââ,¬â,,¢s disease. Frontiers in Aging Neuroscience, 2014, 6, 77.	1.7	112
661	Assessment of ZnO and SiO2 nanoparticle permeability through and toxicity to the blood–brain barrier using Evans blue and TEM. International Journal of Nanomedicine, 2014, 9 Suppl 2, 225.	3.3	20
662	Low dietary intake of magnesium is associated with increased externalising behaviours in adolescents. Proceedings of the Nutrition Society, 2015, 74, .	0.4	1
663	Local Anesthetic Lidocaine Inhibits <scp>TRPM</scp> 7 Current and <scp>TRPM</scp> 7â€Mediated Zinc Toxicity. CNS Neuroscience and Therapeutics, 2015, 21, 32-39.	1.9	28
664	Modification of hippocampal excitability in brain slices pretreated with a low nanomolar concentration of Zn ²⁺ . Journal of Neuroscience Research, 2015, 93, 1641-1647.	1.3	1
665	Zinc deficiency impairs the renewal of hippocampal neural stem cells in adult rats: involvement of FoxO3a activation and downstream p27 ^{kip1} expression. Journal of Neurochemistry, 2015, 134, 879-891.	2.1	10

#	Article	IF	CITATIONS
666	Current opinion on the role of testosterone in the development of prostate cancer: a dynamic model. BMC Cancer, 2015, 15, 806.	1.1	27
667	11 Metallothionein-3, Zinc, and Copper in the Central Nervous System. , 2015, , 319-352.		Ο
668	In vitro ZnCl₂ cytotoxicity and genotoxicity in human leukocytes: Zero-order kinetic cellular zinc influx. Acta Scientiarum - Health Sciences, 2015, 37, 63.	0.2	2
669	Zinc in Early Life: A Key Element in the Fetus and Preterm Neonate. Nutrients, 2015, 7, 10427-10446.	1.7	145
670	ADNP: in search for molecular mechanisms and innovative therapeutic strategies for frontotemporal degeneration. Frontiers in Aging Neuroscience, 2015, 7, 205.	1.7	17
671	Physiologically based pharmacokinetic modeling of zinc oxide nanoparticles and zinc nitrate in mice. International Journal of Nanomedicine, 2015, 10, 6277.	3.3	27
672	Prophylactic Subacute Administration of Zinc Increases CCL2, CCR2, FGF2, and IGF-1 Expression and Prevents the Long-Term Memory Loss in a Rat Model of Cerebral Hypoxia-Ischemia. Neural Plasticity, 2015, 2015, 1-15.	1.0	19
673	Effects of Trace Metal Profiles Characteristic for Autism on Synapses in Cultured Neurons. Neural Plasticity, 2015, 2015, 1-16.	1.0	30
674	Relationship between Zinc (Zn2+) and Glutamate Receptors in the Processes Underlying Neurodegeneration. Neural Plasticity, 2015, 2015, 1-9.	1.0	39
675	X-ray structurally characterized sensors for ratiometric detection of Zn ²⁺ and Al ³⁺ in human breast cancer cells (MCF7): development of a binary logic gate as a molecular switch. Dalton Transactions, 2015, 44, 11797-11804.	1.6	40
676	Development of biodegradable Zn-1X binary alloys with nutrient alloying elements Mg, Ca and Sr. Scientific Reports, 2015, 5, 10719.	1.6	278
677	GPR39 (Zinc Receptor) Knockout Mice Exhibit Depression-Like Behavior and CREB/BDNF Down-Regulation in the Hippocampus. International Journal of Neuropsychopharmacology, 2015, 18, .	1.0	66
678	Excess influx of Zn 2+ into dentate granule cells affects object recognition memory via attenuated LTP. Neurochemistry International, 2015, 87, 60-65.	1.9	32
679	A sole multi-analyte receptor responds with three distinct fluorescence signals: traffic signal like sensing of Al ³⁺ , Zn ²⁺ and F ^{â^'} . Dalton Transactions, 2015, 44, 13093-13099.	1.6	57
680	A hydrogel based zinc(<scp>ii</scp>) sensor for use in fluorescent multi-well plate analysis. New Journal of Chemistry, 2015, 39, 3461-3466.	1.4	9
681	Examining a new role for zinc in regulating calcium release in cardiac muscle. Biochemical Society Transactions, 2015, 43, 359-363.	1.6	16
682	Cyanidin-3-glucoside inhibits glutamate-induced Zn2+ signaling and neuronal cell death in cultured rat hippocampal neurons by inhibiting Ca2+-induced mitochondrial depolarization and formation of reactive oxygen species. Brain Research, 2015, 1606, 9-20.	1.1	20
683	Modulation of extrasynaptic NMDA receptors by synaptic and tonic zinc. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2705-14.	3.3	109

#	Article	IF	CITATIONS
684	Zinc changes evoked by phenolic compounds and effect on TEA-LTP at hippocampal mossy fiber synapses. , 2015, , .		0
685	Fluorescence response of a thiazolidine carboxylic acid derivative for the selective and nanomolar detection of Zn(<scp>ii</scp>) ions: quantum chemical calculations and application in real samples. RSC Advances, 2015, 5, 105453-105463.	1.7	12
686	AMPA receptor inhibition by synaptically released zinc. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15749-15754.	3.3	101
687	Metal chaperones prevent zinc-mediated cognitive decline. Neurobiology of Disease, 2015, 81, 196-202.	2.1	47
688	Neuroprotective effect of 3-morpholinosydnonimine against Zn2+-induced PC12 cell death. European Journal of Pharmacology, 2015, 748, 37-44.	1.7	2
689	Selective fluorescence sensing of Cu(II) and Zn(II) using a simple Schiff base ligand: Naked eye detection and elucidation of photoinduced electron transfer (PET) mechanism. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 143, 72-80.	2.0	38
690	A thiacalix[4]crown based chemosensor for Zn ²⁺ and H ₂ PO ₄ csup>â^': sequential logic operations at the molecular level. Dalton Transactions, 2015, 44, 6062-6068.	1.6	23
691	Indomethacin preconditioning induces ischemic tolerance by modifying zinc availability in the brain. Neurobiology of Disease, 2015, 81, 186-195.	2.1	7
692	Genetic Targeting of a Small Fluorescent Zinc Indicator to Cell Surface for Monitoring Zinc Secretion. ACS Chemical Biology, 2015, 10, 1054-1063.	1.6	57
693	Blockade of intracellular Zn2+signaling in the dentate gyrus erases recognition memory via impairment of maintained LTP. Hippocampus, 2015, 25, 952-962.	0.9	25
694	A turn-on fluorogenic Zn(<scp>ii</scp>) chemoprobe based on a terpyridine derivative with aggregation-induced emission (AIE) effects through nanofiber aggregation into spherical aggregates. Chemical Communications, 2015, 51, 952-955.	2.2	36
695	A far-red emitting probe for unambiguous detection of mobile zinc in acidic vesicles and deep tissue. Chemical Science, 2015, 6, 1944-1948.	3.7	42
696	Zn ²⁺ responsive two-photon fluorescent probes based on branch structure: a computational investigation. Molecular Physics, 2015, 113, 584-607.	0.8	2
697	Oxidative Stress in Alzheimer's Disease: Should We Keep Trying Antioxidant Therapies?. Cellular and Molecular Neurobiology, 2015, 35, 595-614.	1.7	76
698	Two Schiff base ligands for distinguishing Zn ^{II} /Cd ^{II} sensing—effect of substituent on fluorescent sensing. RSC Advances, 2015, 5, 27682-27689.	1.7	23
699	Corticosterone increases intracellular Zn2+ release in hippocampal HT-22 cells. Neuroscience Letters, 2015, 588, 172-177.	1.0	10
700	Highly selective fluorescence imaging of zinc distribution in HeLa cells and Arabidopsis using a naphthalene-based fluorescent probe. Chemical Communications, 2015, 51, 7463-7465.	2.2	53
701	A high-affinity fluorescent Zn2+ sensor improved by the suppression of pyridine-pyridone tautomerism and its application in living cells. Sensors and Actuators B: Chemical, 2015, 213, 45-52.	4.0	28

ARTICLE IF CITATIONS # Low dietary intake of magnesium is associated with increased externalising behaviours in adolescents. 702 1.1 21 Public Health Nutrition, 2015, 18, 1824-1830. A new selective fluorescent sensor for Zn(II) ions based on poly(azomethine-urethane). Tetrahedron Letters, 2015, 56, 1820-1824. Cyclometalated Platinum(II) Terpyridylacetylide with a Bis(arylamine) Donor as a Proton-Triggered 704 1.9 20 Luminescence Chemosensor for Zn²⁺. Inorganic Chemistry, 2015, 54, 7774-7782. eZinCh-2: A Versatile, Genetically Encoded FRET Sensor for Cytosolic and Intraorganelle Zn²⁺ Imaging. ACŚ Chemical Biology, 2015, 10, 2126-2134. The Physiological, Biochemical, and Molecular Roles of Zinc Transporters in Zinc Homeostasis and 706 13.1 759 Metabolism. Physiological Reviews, 2015, 95, 749-784. A steroid-salen conjugate for zinc ion recognition and its applications in test-strips, living cells imaging, and cascade recognition for dihydrogen phosphate. Sensors and Actuators B: Chemical, 2015, 4.0 221, 334-340. Regulation of extracellular Zn²⁺homeostasis in the hippocampus as a therapeutic target 708 1.5 9 for Alzheimer's disease. Expert Opinion on Therapeutic Targets, 2015, 19, 1051-1058. Two fluorescent Schiff base sensors for Zn2+: the Zn2+/Cu2+ion interference. Analyst, The, 2015, 140, 1.7 6031-6039. 5-Arylvinylene-2,2â€2-bipyridyls: Bright "push–pull―dyes as components in fluorescent indicators for 710 2.0 46 zinc ions. Journal of Photochémistry and Photobiology A: Chémistry, 2015, 311, 1-15. Glycosylation enhances the aqueous sensitivity and lowers the cytotoxicity of a naphthalimide zinc 2.2 ion fluorescence probe. Chemical Communications, 2015, 51, 11852-11855. 1,8-Naphthyridine-based molecular clips for off–on fluorescence sensing of Zn²⁺ in living 712 12 1.7 cells. RSC Ádvances, 2015, 5, 50540-50543. Biodegradable Starch Nanocomposites. Advanced Structured Materials, 2015, , 17-77. 0.3 A dual-model fluorescent Zn2+/Cu2+ ions sensor with in-situ detection of $S2\hat{a}^{\prime\prime}/(PO4)\hat{a}^{\prime\prime}$ and 714 1.2 25 colorimetric detection of Fe2+ ion. Inorganica Chimica Acta, 2015, 429, 243-251. A new ICT and CHEF based visible light excitable fluorescent probe easily detects in vivo Zn sup>2+</sup>. RSC Advances, 2015, 5, 31189-31194. 1.7 A modular system of DNA enhancer elements mediates tissue-specific activation of transcription by 716 6.5 25 high dietary zinc in C. elegans. Nucleic Acids Research, 2015, 43, 803-816. Voltage-gated calcium channels: Determinants of channel function and modulation by inorganic cations. Progress in Neurobiology, 2015, 129, 1-36. Enhancing the Photostability of Arylvinylenebipyridyl Compounds as Fluorescent Indicators for 718 1.7 17 Intracellular Zinc(II) Ions. Journal of Organic Chemistry, 2015, 80, 5600-5610. $\hat{a} \in \mathbb{C}$ Turn on/off $\hat{a} \in \mathbb{C}$ proton transfer based fluorescent sensor for selective detection of environmentally 719 1.5 hazardous metal ions (Zn2+, Pb2+) in aqueous media. Journal of Luminescence, 2015, 165, 46-55.

#	Article	IF	CITATIONS
720	Autophagy Mediates Astrocyte Death During Zinc-Potentiated Ischemia–Reperfusion Injury. Biological Trace Element Research, 2015, 166, 89-95.	1.9	25
721	Autocrine effect of Zn2+ on the glucose-stimulated insulin secretion. Endocrine, 2015, 50, 110-122.	1.1	29
722	Photoluminescence imaging of Zn ²⁺ in living systems. Chemical Society Reviews, 2015, 44, 4517-4546.	18.7	225
723	PET Neuroimaging Studies of [¹⁸ F]CABS13 in a Double Transgenic Mouse Model of Alzheimer's Disease and Nonhuman Primates. ACS Chemical Neuroscience, 2015, 6, 535-541.	1.7	23
724	Is interaction of amyloid β-peptides with metals involved in cognitive activity?. Metallomics, 2015, 7, 1205-1212.	1.0	18
725	N-cadherin-mediated cell adhesion is regulated by extracellular Zn ²⁺ . Metallomics, 2015, 7, 355-362.	1.0	15
726	Quinoline benzimidazole-conjugate for the highly selective detection of Zn(<scp>ii</scp>) by dual colorimetric and fluorescent turn-on responses. RSC Advances, 2015, 5, 44463-44469.	1.7	40
727	Small-Molecule Two-Photon Probes for Bioimaging Applications. Chemical Reviews, 2015, 115, 5014-5055.	23.0	889
728	Characterization of zinc uptake by mouse primary cultured astrocytes and microglia. Metallomics, 2015, 7, 1067-1077.	1.0	16
729	The downregulation of Wnt/Ĵ²-catenin signaling pathway is associated with zinc deficiency-induced proliferative deficit of C17.2 neural stem cells. Brain Research, 2015, 1615, 61-70.	1.1	18
730	Highly Selective Amide-tethered 4-aminoquinoline-β-lactam Based Electrochemical Sensors for Zn (II) ion Recognition. Electrochimica Acta, 2015, 166, 17-25.	2.6	7
731	A highly selective fluorescent sensor for zinc ion based on quinoline platform with potential applications for cell imaging studies. Polyhedron, 2015, 94, 75-82.	1.0	57
732	Solvent-dependent turn-on probe for dual monitoring of Ag+ and Zn2+ in living biological samples. Analytica Chimica Acta, 2015, 868, 53-59.	2.6	30
733	An aggregation-induced emission (AIE) active probe for multiple targets: a fluorescent sensor for Zn ²⁺ and Al ³⁺ & a colorimetric sensor for Cu ²⁺ and F ^{â^'} . Dalton Transactions, 2015, 44, 18902-18910.	1.6	130
734	Intracellular Zn2+ detection with quantum dot-based FLIM nanosensors. Chemical Communications, 2015, 51, 16964-16967.	2.2	17
735	Two-photon probes for biomedical imaging. Tetrahedron, 2015, 71, 8219-8249.	1.0	15
736	Zinc changes evoked by phenolic compounds and effect on TEA-LTP at hippocampal mossy fiber synapses. , 2015, , .		0
737	Novel Fluorinated 8-Hydroxyquinoline Based Metal Ionophores for Exploring the Metal Hypothesis of Alzheimer's Disease. ACS Medicinal Chemistry Letters, 2015, 6, 1025-1029.	1.3	41

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#	ARTICLE	IF	Citations
738	Zinc: indications in brain disorders. Fundamental and Clinical Pharmacology, 2015, 29, 131-149.	1.0	95
739	Angiopoietin-1 blocks neurotoxic zinc entry into cortical cells via PIP2 hydrolysis-mediated ion channel inhibition. Neurobiology of Disease, 2015, 81, 203-213.	2.1	5
740	Black berry juice attenuates neurological disorders and oxidative stress associated with concurrent exposure of aluminum and fluoride in male rats. Egyptian Journal of Basic and Applied Sciences, 2015, 2, 281-288.	0.2	10
741	Zinc transporter found attached to <i><scp>n</scp></i> â€methylâ€ <scp>d</scp> â€aspartate receptors. Journal of Neurochemistry, 2015, 132, 155-158.	2.1	4
742	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(<scp>ii</scp>) and its application in bio imaging. RSC Advances, 2015, 5, 72659-72669.	1.7	43
743	Monofunctional amines substituted fluorenylidene bridged cyclotriphosphazenes: â€~Turn-off' fluorescence chemosensors for Cu2+ and Fe3+ ions. Polyhedron, 2015, 101, 223-229.	1.0	28
744	Trans-synaptic zinc mobilization improves social interaction in two mouse models of autism through NMDAR activation. Nature Communications, 2015, 6, 7168.	5.8	101
745	Homeostatic regulation of KCC2 activity by the zinc receptor mZnR/GPR39 during seizures. Neurobiology of Disease, 2015, 81, 4-13.	2.1	66
746	Pyridoxal derivative functionalized gold nanoparticles for colorimetric determination of zinc(<scp>ii</scp>) and aluminium(<scp>iii</scp>). RSC Advances, 2015, 5, 97690-97695.	1.7	23
747	In vivo fluorescence sensing of the salicylate-induced change of zinc ion concentration in the auditory cortex of rat brain. Analyst, The, 2015, 140, 197-203.	1.7	18
748	GPR39 Zn2+-sensing receptor: A new target in antidepressant development?. Journal of Affective Disorders, 2015, 174, 89-100.	2.0	38
749	Highly selective arylhydrazone based "ON–OFF―fluorescent chemosensors for Zn ²⁺ ion, inhibitors for KB cell, 4LRH cancer protein and DFT studies. RSC Advances, 2015, 5, 2576-2585.	1.7	8
750	Acylhydrazone based fluorescent chemosensor for zinc in aqueous solution with high selectivity and sensitivity. Sensors and Actuators B: Chemical, 2015, 208, 581-587.	4.0	88
751	A low-molecular-weight fluorescent sensor with Zn2+ dependent bathochromic shift of emission wavelength and its imaging in living cells. Dyes and Pigments, 2015, 113, 205-209.	2.0	25
752	Zn2+ Blocks Annealing of Complementary Single-Stranded DNA in a Sequence-Selective Manner. Scientific Reports, 2015, 4, 5464.	1.6	9
753	Cd, Cu, and Mn from Uruguay River Basin in Uruguaiana, RS, Brazil, and their toxicological potential for human leukocyte. Acta Scientiarum - Biological Sciences, 2016, 38, 439.	0.3	1
754	Nutritional and Methodological Perspectives of Zinc Ions and Complexes - Physiological and Pathological States. International Journal of Electrochemical Science, 2016, , 4470-4496.	0.5	4
755	Involvement of Free Radicals in the Development and Progression of Alzheimerâ \in ^M s Disease. , 2016, , .		1

#	Article	IF	CITATIONS
756	MP Resulting in Autophagic Cell Death of Microglia through Zinc Changes against Spinal Cord Injury. BioMed Research International, 2016, 2016, 1-14.	0.9	9
757	Improved Electrochemical Detection of Zinc Ions Using Electrode Modified with Electrochemically Reduced Graphene Oxide. Materials, 2016, 9, 31.	1.3	34
758	Zinc as Allosteric Ion Channel Modulator: Ionotropic Receptors as Metalloproteins. International Journal of Molecular Sciences, 2016, 17, 1059.	1.8	35
759	Zinc Stabilizes Shank3 at the Postsynaptic Density of Hippocampal Synapses. PLoS ONE, 2016, 11, e0153979.	1.1	32
760	Insight into cognitive decline from Zn 2+ dynamics through extracellular signaling of glutamate and glucocorticoids. Archives of Biochemistry and Biophysics, 2016, 611, 93-99.	1.4	20
761	Zinc contributes to acute cerebral ischemia-induced blood–brain barrier disruption. Neurobiology of Disease, 2016, 95, 12-21.	2.1	43
762	Zn ²⁺ â€induced Ca ²⁺ release via ryanodine receptors triggers calcineurinâ€dependent redistribution of cortical neuronal Kv2.1 K ⁺ channels. Journal of Physiology, 2016, 594, 2647-2659.	1.3	16
763	How the tapeworm Hymenolepis diminuta affects zinc and cadmium accumulation in a host fed a hyperaccumulating plant (Arabidopsis halleri). Environmental Science and Pollution Research, 2016, 23, 19126-19133.	2.7	10
764	Highly selective ratiometric fluorescent Zn ²⁺ chemosensor based on diarylethene derivative with biâ€8â€carboxamidoquinoline unit. Luminescence, 2016, 31, 1488-1495.	1.5	6
765	Zinc in the Developing Brain. , 2016, , 143-168.		3
766	Cardiac N-methyl d-aspartate Receptors as a Pharmacological Target. Journal of Cardiovascular Pharmacology, 2016, 68, 356-373.	0.8	15
767	Naphthothiazole-based highly selective and sensitive fluorescent and colorimetric chemosensor for detection of pollutant metal ions. RSC Advances, 2016, 6, 34940-34945.	1.7	19
769	Imine-functionalized thioether Zn(<scp>ii</scp>) turn-on fluorescent sensor and its selective sequential logic operations with H ₂ PO ₄ ^{â~²} , DFT computation and live cell imaging. RSC Advances, 2016, 6, 53378-53388.	1.7	29
770	BODIPY-based self-assembled nanoparticles as fluorescence turn-on sensor for the selective detection of zinc in human hair. Biosensors and Bioelectronics, 2016, 85, 515-521.	5.3	39
771	A fluorescent carboxamide ligand, having combined ionophore/fluorophore moieties, exhibiting "On-Off―switching toward Zn2+ ion. Sensors and Actuators B: Chemical, 2016, 233, 355-360.	4.0	25
772	A multi-responsive turn-on flurogenic probe to sense Zn ²⁺ , Cd ²⁺ and Pb ²⁺ : left-right-center emission signal swing. Analyst, The, 2016, 141, 4388-4393.	1.7	30
773	An efficient quinoline-based fluorescence sensor for zinc(II) and its application in live-cell imaging. Sensors and Actuators B: Chemical, 2016, 234, 616-624.	4.0	70
774	Coordination properties of a Schiff base probe for Zn2+ ion in aqueous media having no Cu2+ ion	1.2	1

#	Article	IF	Citations
775	Condensation Product of Phenylalanine and Salicylaldehyde: Fluorescent Sensor for Zn2+. Journal of Fluorescence, 2016, 26, 899-904.	1.3	7
776	Highly Selective Turn-On Fluorogenic Chemosensor for Robust Quantification of Zn(II) Based on Aggregation Induced Emission Enhancement Feature. ACS Sensors, 2016, 1, 739-747.	4.0	180
777	Optical Probes for Metabolic Signals. , 2016, , 222-251.		0
778	How Zn can impede Cu detoxification by chelating agents in Alzheimer's disease: a proof-of-concept study. Dalton Transactions, 2016, 45, 15671-15678.	1.6	33
779	Techniques for measuring cellular zinc. Archives of Biochemistry and Biophysics, 2016, 611, 20-29.	1.4	33
780	Zinc(II) Binding Site to the Amyloid-β Peptide: Insights from Spectroscopic Studies with a Wide Series of Modified Peptides. Inorganic Chemistry, 2016, 55, 10499-10509.	1.9	74
781	Modelling zinc changes at the hippocampal mossy fiber synaptic cleft. Journal of Computational Neuroscience, 2016, 41, 323-337.	0.6	11
782	Factors associated with blood zinc, chromium, and lead concentrations in residents of the Nam Pong River in Thailand. Human and Ecological Risk Assessment (HERA), 2016, 22, 1583-1592.	1.7	1
783	Molecular Magnetic Resonance Imaging Probes Based on Ln3+ Complexes. Advances in Inorganic Chemistry, 2016, 68, 43-96.	0.4	10
784	A novel fluorene based "turn on―fluorescent sensor for the determination of zinc and cadmium: experimental and theoretical studies along with live cell imaging. New Journal of Chemistry, 2016, 40, 9593-9608.	1.4	27
785	Metalloneurochemistry and the Pierian Spring: â€~Shallow Draughts Intoxicate the Brain'. Israel Journal of Chemistry, 2016, 56, 791-802.	1.0	7
786	Preferential cytotoxicity of ZnO nanoparticle towards cervical cancer cells induced by ROS-mediated apoptosis and cell cycle arrest for cancer therapy. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	29
787	Elucidating the Mechanism of Zn ²⁺ Sensing by a Bipyridine Probe Based on Two-Photon Absorption. Journal of Physical Chemistry B, 2016, 120, 9067-9075.	1.2	13
788	The Role of Presenilin in Protein Trafficking and Degradation—Implications for Metal Homeostasis. Journal of Molecular Neuroscience, 2016, 60, 289-297.	1.1	15
789	Single Fluorescent Protein-Based Indicators for Zinc Ion (Zn ²⁺). Analytical Chemistry, 2016, 88, 9029-9036.	3.2	45
790	Benzothiazole based multi-analyte sensor for selective sensing of Zn ²⁺ and Cd ²⁺ and subsequent sensing of inorganic phosphates (Pi) in mixed aqueous medium. RSC Advances, 2016, 6, 112246-112252.	1.7	29
791	Fluoresceinâ€Based â€~ã€~Turn On'' Fluorescence Detection of Zn ²⁺ and Its Applications in Imaging of Zn ²⁺ in Apoptotic Cells. ChemistrySelect, 2016, 1, 4024-4029.	0.7	28
792	A conditional proteomics approach to identify proteins involved in zinc homeostasis. Nature	9.0	45

#	Article	IF	Citations
793	A dual-response fluorescent probe for Zn2+ and Al3+ detection in aqueous media: pH-dependent selectivity and practical application. Analytica Chimica Acta, 2016, 942, 104-111.	2.6	52
794	Grafting polyethylenimine with quinoline derivatives for targeted imaging of intracellular Zn 2+ and logic gate operations. Materials Science and Engineering C, 2016, 69, 561-568.	3.8	11
795	Cell death caused by the synergistic effects of zinc and dopamine is mediated by a stress sensor gene Gadd45b – implication in the pathogenesis of Parkinson's disease. Journal of Neurochemistry, 2016, 139, 120-133.	2.1	19
796	Zinc transporter 3 (ZnT3) gene deletion reduces spinal cord white matter damage and motor deficits in a murine MOG-induced multiple sclerosis model. Neurobiology of Disease, 2016, 94, 205-212.	2.1	15
797	Innervation from the entorhinal cortex to the dentate gyrus and the vulnerability to Zn 2+. Journal of Trace Elements in Medicine and Biology, 2016, 38, 19-23.	1.5	7
798	Near-Infrared Fluorescent Probes with Large Stokes Shifts for Sensing Zn(II) Ions in Living Cells. ACS Sensors, 2016, 1, 1408-1415.	4.0	56
799	Some new nano-sized Fe(II), Cd(II) and Zn(II) Schiff base complexes as precursor for metal oxides: Sonochemical synthesis, characterization, DNA interaction, in vitro antimicrobial and anticancer activities. Bioorganic Chemistry, 2016, 69, 140-152.	2.0	206
800	A novel tetrahydroquinazolin-2-amine-based high selective fluorescent sensor for Zn2+ from nopinone. Tetrahedron, 2016, 72, 4503-4509.	1.0	11
801	Comparative corrosion behavior of Zn with Fe and Mg in the course of immersion degradation in phosphate buffered saline. Corrosion Science, 2016, 111, 541-555.	3.0	110
802	A turn-on fluorescence chemosensor based on a tripodal amine [tris(pyrrolyl-î±-methyl)amine]-rhodamine conjugate for the selective detection of zinc ions. Analyst, The, 2016, 141, 5456-5462.	1.7	15
803	Microtubule-Tau Interaction as a Therapeutic Target for Alzheimer's Disease. Journal of Molecular Neuroscience, 2016, 58, 145-152.	1.1	10
804	Copper and protons directly activate the zinc-activated channel. Biochemical Pharmacology, 2016, 103, 109-117.	2.0	16
805	AMP-activated protein kinase contributes to zinc-induced neuronal death via activation by LKB1 and induction of Bim in mouse cortical cultures. Molecular Brain, 2016, 9, 14.	1.3	30
806	A highly selective, sensitive and reversible fluorescence chemosensor for Zn ²⁺ and its cell viability. Dalton Transactions, 2016, 45, 3927-3935.	1.6	34
807	TAMEisoquin, a novel tripodal fluorescent zinc sensor with high Zn(II) affinity and Zn(II)/Cd(II) selective fluorescence response: Synthesis, coordination geometry, spectroscopy, and comparative response to biometal ions. Polyhedron, 2016, 109, 147-153.	1.0	4
808	A thiosemicarbazone based chemo and fluorogenic sensor for Zn ²⁺ with CHEF and ESIPT behaviour: computational studies and cell imaging application. RSC Advances, 2016, 6, 11388-11399.	1.7	26
809	Involvement of glutamatergic neurotransmission in the antidepressant-like effect of zinc in the chronic unpredictable stress model of depression. Journal of Neural Transmission, 2016, 123, 339-352.	1.4	13
810	Molecular and Cellular Mechanisms of Ischemia-Induced Neuronal Death. , 2016, , 60-79.e5.		3

#	Article	IF	CITATIONS
811	Comparison of copper and zinc in vitro bioaccessibility from cyanobacteria rich in proteins and a synthetic supplement containing gluconate complexes: LC–MS mapping of bioaccessible copper complexes. Analytical and Bioanalytical Chemistry, 2016, 408, 785-795.	1.9	8
812	Cognitive impairment in amyotrophic lateral sclerosis, clues from the SOD1 mouse. Neuroscience and Biobehavioral Reviews, 2016, 60, 12-25.	2.9	16
813	Zinc and imipramine reverse the depression-like behavior in mice induced by chronic restraint stress. Journal of Affective Disorders, 2016, 197, 100-106.	2.0	46
814	A "turn-on―fluorescent chemosensor for the detection of Zn(II) in aqueous solution at neutral pH and its application in live cells imaging. Talanta, 2016, 153, 381-385.	2.9	41
815	Significance of synaptic Zn 2+ signaling in zincergic and non-zincergic synapses in the hippocampus in cognition. Journal of Trace Elements in Medicine and Biology, 2016, 38, 93-98.	1.5	27
816	Zinc(<scp>ii</scp>)-induced control of the internalization of a near-infrared fluorescent probe by live cells. Molecular BioSystems, 2016, 12, 1114-1117.	2.9	6
817	Electrochemical and spectroscopic characterization of zinc (II) complex with Bis(tetraethylthiophosphoramidoyl)methylamine. Journal of Electroanalytical Chemistry, 2016, 767, 134-140.	1.9	5
818	The contribution of zinc to platelet behaviour during haemostasis and thrombosis. Metallomics, 2016, 8, 144-155.	1.0	45
819	Subchronic exposure to static magnetic field differently affects zinc and copper content in murine organs. International Journal of Radiation Biology, 2016, 92, 140-147.	1.0	18
820	Neuroprotective effect of ethyl pyruvate against Zn 2+ toxicity via NAD replenishment and direct Zn 2+ chelation. Neuropharmacology, 2016, 105, 411-419.	2.0	21
821	Theoretical investigation on ratiometric two-photon fluorescent probe for Zn2+ detection based on ICT mechanism. Journal of Molecular Structure, 2016, 1114, 65-77.	1.8	7
822	Zinc homoeostasis: Basic research indicates therapeutic risks and opportunities. European Neuropsychopharmacology, 2016, 26, 1083-1084.	0.3	0
823	Synthetic fluorescent probes to map metallostasis and intracellular fate of zinc and copper. Coordination Chemistry Reviews, 2016, 311, 125-167.	9.5	81
824	Cucurbit[7]uril-improved recognition by a fluorescent sensor for cadmium and zinc cations. Supramolecular Chemistry, 2016, 28, 784-791.	1.5	18
825	Water soluble and efficient amino acid Schiff base receptor for reversible fluorescence turn-on detection of Zn2+ ions: Quantum chemical calculations and detection of bacteria. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 249-256.	2.0	20
826	Decreased serum zinc concentration during depressive episode in patients with bipolar disorder. Journal of Affective Disorders, 2016, 190, 272-277.	2.0	27
827	Electrochemical Analysis of Amyloid-β Domain 1-16 Isoforms and Their Complexes with Zn(II) Ions. Electrochimica Acta, 2016, 187, 677-683.	2.6	19
828	Triphenylamine-based Schiff bases as the High sensitive Al3+ or Zn2+ fluorescence turn-on probe: Mechanism and application in vitro and in vivo. Biosensors and Bioelectronics, 2016, 77, 530-536.	5.3	57

#	Article	IF	CITATIONS
829	Structurally Characterized Zn2+ Selective Ratiometric Fluorescence Probe in 100Â% Water for HeLa Cell Imaging: Experimental and Computational Studies. Journal of Fluorescence, 2016, 26, 87-103.	1.3	16
830	A two-photon fluorescent probe for lysosomal zinc ions. Chemical Communications, 2016, 52, 124-127.	2.2	62
831	The Chemistry of Neurodegeneration: Kinetic Data and Their Implications. Molecular Neurobiology, 2016, 53, 3400-3415.	1.9	62
832	Significance of Low Nanomolar Concentration of Zn2+ in Artificial Cerebrospinal Fluid. Molecular Neurobiology, 2017, 54, 2477-2482.	1.9	10
833	The effects of hybrid fillers on thermal, mechanical, physical, and antimicrobial properties of ultrahigh-molecular-weight polyethylene-reinforced composites. Polymer Composites, 2017, 38, 1689-1697.	2.3	2
834	TPEN, a Specific Zn2+ Chelator, Inhibits Sodium Dithionite and Glucose Deprivation (SDGD)-Induced Neuronal Death by Modulating Apoptosis, Glutamate Signaling, and Voltage-Gated K+ and Na+ Channels. Cellular and Molecular Neurobiology, 2017, 37, 235-250.	1.7	14
835	Brain biometals and Alzheimer's disease – boon or bane?. International Journal of Neuroscience, 2017, 127, 99-108.	0.8	48
836	A simple salicylaldehyde-based fluorescent "turn-on―probe for selective detection of Zn ²⁺ in water solution and its application in live cell imaging. Analytical Methods, 2017, 9, 1119-1124.	1.3	27
837	Dietary zinc promotes immuno-biochemical plasticity and protects fish against multiple stresses. Fish and Shellfish Immunology, 2017, 62, 184-194.	1.6	79
838	Metal maps of sclerotic hippocampi of patients with mesial temporal lobe epilepsy. Metallomics, 2017, 9, 141-148.	1.0	4
839	Two-photon fluorescence sensors for imaging NMDA receptors and monitoring release of Zn2+ from the presynaptic terminal. Biosensors and Bioelectronics, 2017, 91, 770-779.	5.3	24
840	Two-Photon Ratiometric Fluorescence Probe with Enhanced Absorption Cross Section for Imaging and Biosensing of Zinc Ions in Hippocampal Tissue and Zebrafish. Analytical Chemistry, 2017, 89, 2553-2560.	3.2	72
841	Behavioral characterization of female zinc transporter 3 (ZnT3) knockout mice. Behavioural Brain Research, 2017, 321, 36-49.	1.2	25
842	Electrochemical oxidation of phenolic wastewaters using a batch-stirred reactor with NaCl electrolyte and Ti/RuO2 anodes. Journal of Electroanalytical Chemistry, 2017, 785, 180-189.	1.9	75
843	A novel 3-Hydroxychromone fluorescence sensor for intracellular Zn2+ and its application in the recognition of prostate cancer cells. Sensors and Actuators B: Chemical, 2017, 245, 129-136.	4.0	23
844	Physiological roles of zinc transporters: molecular and genetic importance in zinc homeostasis. Journal of Physiological Sciences, 2017, 67, 283-301.	0.9	323
845	Toxic effects of zinc ions on kinesin – Potential molecular cause of impaired intracellular transport. Toxicology Letters, 2017, 268, 58-62.	0.4	9
846	Probes for monitoring regulated exocytosis. Cell Calcium, 2017, 64, 65-71.	1.1	7

#	Article	IF	CITATIONS
847	Zinc deficiency affects the STAT1/3 signaling pathways in part through redox-mediated mechanisms. Redox Biology, 2017, 11, 469-481.	3.9	27
848	A highly sensitive SERS-based platform for Zn(<scp>ii</scp>) detection in cellular media. Chemical Communications, 2017, 53, 1797-1800.	2.2	23
849	Turn-on fluorescent sensor for Zinc and Cadmium ions based on quinolone and its sequential response to phosphate. Journal of Luminescence, 2017, 186, 16-22.	1.5	46
850	Recent Progress in Alzheimer's Disease Research, Part 1: Pathology. Journal of Alzheimer's Disease, 2017, 57, 1-28.	1.2	75
851	Determination of the Zinc Concentration in Human Fingernails Using Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2017, 71, 567-582.	1.2	14
852	Metallomics. , 2017, , .		11
854	Monitoring Intracellular Zn2+ Using Fluorescent Sensors: Facts and Artifacts. Neuromethods, 2017, , 225-241.	0.2	1
855	A Facile Droplet-Chip-Time-Resolved Inductively Coupled Plasma Mass Spectrometry Online System for Determination of Zinc in Single Cell. Analytical Chemistry, 2017, 89, 4931-4938.	3.2	86
856	Zinc in the Animal Organism: A Review. Scientia Agriculturae Bohemica, 2017, 48, 13-21.	0.3	28
857	Various ketogenic diets can differently support brain resistance against experimentally evoked seizure-induced elemental anomalies of hippocampal formation. Journal of Trace Elements in Medicine and Biology, 2017, 42, 50-58.	1.5	7
858	Co-localization of zinc transporter 3 (ZnT3) with sensory neuromediators and/or neuromodulators in the enteric nervous system of the porcine esophagus. BioMetals, 2017, 30, 393-403.	1.8	13
859	A turn-on green channel Zn ²⁺ sensor and the resulting zinc(<scp>ii</scp>) complex as a red channel HPO ₄ ^{2â~} ion sensor: a new approach. RSC Advances, 2017, 7, 25528-25534.	1.7	37
860	A novel type of responsive double hydrophilic block copolymer-based multifunctional fluorescence chemosensor and its application in biological samples. Sensors and Actuators B: Chemical, 2017, 250, 436-445.	4.0	19
861	Spirolactam capped cyanine dyes for designing NIR probes to target multiple metal ions. RSC Advances, 2017, 7, 24970-24980.	1.7	9
862	Structural Stability, Electronic Structure, and Ferromagnetic Properties of Zn1/2Ni1/2O Alloy. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3247-3255.	0.8	0
863	Luminescent Zinc Complexes as Bioprobes for Imaging Molecular Events in Live Cells. , 2017, , 1-53.		13
864	Evidence for mast cell-mediated zinc homeostasis: Increased labile zinc in the hippocampus of mast-cell deficient mice. Neuroscience Letters, 2017, 650, 139-145.	1.0	4
865	A highly Selective Fluorescent Chemosensor for Zn2+ Based on the Rhodamine Derivative Incorporating Coumarin Group. Journal of Fluorescence, 2017, 27, 629-633.	1.3	28

#	Article	IF	CITATIONS
866	Exploiting the INHIBIT-ESIPT mechanism for the design of fluorescent chemosensor with a large blue-shift in emission. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 335, 174-181.	2.0	14
867	Pathological concentration of zinc dramatically accelerates abnormal aggregation of full-length human Tau and thereby significantly increases Tau toxicity in neuronal cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 414-427.	1.8	60
868	An intelligent near-infrared light activatable nanosystem for accurate regulation of zinc signaling in living cells. Nano Research, 2017, 10, 3068-3076.	5.8	7
869	Macrocycle aza-crown chromogenic reagent to Al3+ and fluorescence sensor for Zn2+ and Al3+ along with live cell application and logic operation. Sensors and Actuators B: Chemical, 2017, 252, 257-267.	4.0	28
870	Peripheral zinc and neopterin concentrations are associated with mood severity in bipolar disorder in a gender-specific manner. Psychiatry Research, 2017, 255, 52-58.	1.7	7
871	Zinc-binding structure of a catalytic amyloid from solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6191-6196.	3.3	102
872	Benzothiazole-Based Fluorescent Sensor for Ratiometric Detection of Zn(II) Ions and Secondary Sensing PPi and Its Applications for Biological Imaging and PPase Catalysis Assays. Industrial & Engineering Chemistry Research, 2017, 56, 8797-8805.	1.8	73
873	Phenolic wastewaters depuration by electrochemical oxidation process using Ti/IrO2 anodes. Environmental Science and Pollution Research, 2017, 24, 7521-7533.	2.7	22
874	Pyridylthioether-hydroxycoumarin Schiff base as selective Zn 2+ fluorescence sensor, application in life cell imaging and uses of resulting complex as secondary probe for ATP sensing. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 341, 97-107.	2.0	23
875	Hexaphenylbenzene-based fluorescent aggregates for detection of zinc and pyrophosphate ions in aqueous media: tunable self-assembly behaviour and construction of a logic device. New Journal of Chemistry, 2017, 41, 4806-4813.	1.4	24
876	Novel ratio fluorescence probes for selectively detecting zinc ion based on Y-type quinoxaline framework. Journal of Luminescence, 2017, 183, 513-518.	1.5	14
877	Inhibitory effect of divalent metal cations on zinc uptake via mouse Zrt-/Irt-like protein 8 (ZIP8). Life Sciences, 2017, 173, 80-85.	2.0	8
878	Tracing of Zinc Nanocrystals in the Anterior Pituitary of Zinc-Deficient Wistar Rats. Biological Trace Element Research, 2017, 177, 316-322.	1.9	1
879	Early and Late Pathomechanisms in Alzheimer's Disease: From Zinc to Amyloid-β Neurotoxicity. Neurochemical Research, 2017, 42, 891-904.	1.6	10
880	Mobile zinc increases rapidly in the retina after optic nerve injury and regulates ganglion cell survival and optic nerve regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E209-E218.	3.3	111
881	A new unsymmetrical azine derivative based on coumarin group as dual-modal sensor for CNâ^' and fluorescent "OFF–ON―for Zn2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 125-133.	2.0	67
882	A Ratiomeric Fluorescent Sensor for Zn2+ Based on N,N′-Di(quinolin-8-yl)oxalamide. Journal of Fluorescence, 2017, 27, 723-728.	1.3	19
883	A highly selective and sensitive fluorescent chemosensor for Zn ²⁺ based on a diarylethene derivative. RSC Advances, 2017, 7, 50188-50194.	1.7	29

#	Article	IF	CITATIONS
884	Folding and Misfolding of Amyloid- <i>β</i> 40 and 42 in Alzheimer's Disease. World Scientific Lecture and Course Notes in Chemistry, 2017, , 263-296.	0.2	0
885	Recent development of luminescent rhenium(<scp>i</scp>) tricarbonyl polypyridine complexes as cellular imaging reagents, anticancer drugs, and antibacterial agents. Dalton Transactions, 2017, 46, 16357-16380.	1.6	142
886	Zinc oxide nanoparticles: Synthesis, antiseptic activity and toxicity mechanism. Advances in Colloid and Interface Science, 2017, 249, 37-52.	7.0	468
887	A highly selective ratiometric fluorescent probe for the cascade detection of Zn ²⁺ and H ₂ PO ₄ ^{â^'} and its application in living cell imaging. RSC Advances, 2017, 7, 40615-40620.	1.7	21
888	Vitamin B ₆ Cofactor Derivative: A Dual Fluorescent Turn-On Sensor to Detect Zn ²⁺ and CN ^{â~'} lons and Its Application in Live Cell Imaging. ChemistrySelect, 2017, 2, 7570-7579.	0.7	47
889	VitaminÂB ₆ ÂCofactorâ€Conjugated Polyethyleneimineâ€Passivated Silver Nanoclusters for Fluorescent Sensing ofÂÂZn ²⁺ ÂandÂÂCd ²⁺ ÂUsing Chemically Modified Cellulose Strips. ChemistrySelect, 2017, 2, 6023-6029.	0.7	18
890	Supplementation with zinc in rats enhances memory and reverses an age-dependent increase in plasma copper. Behavioural Brain Research, 2017, 333, 179-183.	1.2	18
891	Cross talk between increased intracellular zinc (Zn ²⁺) and accumulation of reactive oxygen species in chemical ischemia. American Journal of Physiology - Cell Physiology, 2017, 313, C448-C459.	2.1	38
892	A fluorescence "turn-on―sensor for multiple analytes: OAcâ^' and Fâ^' triggered fluorogenic detection of Zn2+ in a co-operative fashion. Tetrahedron, 2017, 73, 5418-5424.	1.0	17
893	Coordination Polymer Gels with Modular Nanomorphologies, Tunable Emissions, and Stimuli-Responsive Behavior Based on an Amphiphilic Tripodal Gelator. Inorganic Chemistry, 2017, 56, 9417-9425.	1.9	48
894	In vitro and in vivo physiology of low nanomolar concentrations of Zn2+ in artificial cerebrospinal fluid. Scientific Reports, 2017, 7, 42897.	1.6	22
895	Luminescent gold nanocluster-based sensing platform for accurate H2S detection in vitro and in vivo with improved anti-interference. Light: Science and Applications, 2017, 6, e17107-e17107.	7.7	85
896	Ratiometric Fluorescent Chemosensor for Zn ²⁺ Ions in Environmental Samples Using Supermicroporous Organicâ€Inorganic Structures as Potential Platforms. ChemistrySelect, 2017, 2, 11083-11090.	0.7	52
898	TRPM7 senses oxidative stress to release Zn ²⁺ from unique intracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6079-E6088.	3.3	89
899	Status of essential elements in autism spectrum disorder: systematic review and meta-analysis. Reviews in the Neurosciences, 2017, 28, 783-809.	1.4	67
900	Selective and sensitive fluorescence "turn-on―Zn2+ probes based on combination of anthracene, diphenylamine and dipyrrin. Science China Chemistry, 2017, 60, 1212-1218.	4.2	13
901	Zinc: An element of extensive medical importance. Current Medicine Research and Practice, 2017, 7, 90-98.	0.1	45
902	Highly selective and sensitive fluorescent sensor: Thiacalix[4]arene-1-naphthalene carboxylate for Zn2+ ions. Journal of Molecular Structure, 2017, 1133, 1-8.	1.8	21

#	Article	IF	CITATIONS
903	Synaptic Zn ² ⁺ and febrile seizure susceptibility. British Journal of Pharmacology, 2017, 174, 119-125.	2.7	18
904	Proton induced green emission from AIEE active 2,2′ biquinoline hydrosol and its selective fluorescence turn-on sensing property towards Zn2+ ion in water. Sensors and Actuators B: Chemical, 2017, 238, 1266-1276.	4.0	17
905	Prognostic value of serum zinc levels in patients with acute HC/zinc chloride smoke inhalation. Medicine (United States), 2017, 96, e8156.	0.4	9
906	Genetic Study of Zinc Transporters and Zinc Signaling. , 2017, , 293-303.		1
907	Textural, Structural and Biological Evaluation of Hydroxyapatite Doped with Zinc at Low Concentrations. Materials, 2017, 10, 229.	1.3	64
908	The Emerging Role of Zinc in the Pathogenesis of Multiple Sclerosis. International Journal of Molecular Sciences, 2017, 18, 2070.	1.8	30
909	Zinc in Cellular Regulation: The Nature and Significance of "Zinc Signals― International Journal of Molecular Sciences, 2017, 18, 2285.	1.8	282
910	Dietary Zinc Acts as a Sleep Modulator. International Journal of Molecular Sciences, 2017, 18, 2334.	1.8	64
911	Impact of Labile Zinc on Heart Function: From Physiology to Pathophysiology. International Journal of Molecular Sciences, 2017, 18, 2395.	1.8	30
912	The Impact of Synaptic Zn2+ Dynamics on Cognition and Its Decline. International Journal of Molecular Sciences, 2017, 18, 2411.	1.8	29
913	Zinc Signal in Brain Diseases. International Journal of Molecular Sciences, 2017, 18, 2506.	1.8	119
914	Molecular Hybridization. , 2017, , 219-237.		5
915	Zinc as a Neuromodulator in the Central Nervous System with a Focus on the Olfactory Bulb. Frontiers in Cellular Neuroscience, 2017, 11, 297.	1.8	67
916	Heavy Metals, Retinoids, and Precursors. , 2017, , 255-269.		0
917	Zinc mediates the neuronal activity–dependent anti-apoptotic effect. PLoS ONE, 2017, 12, e0182150.	1.1	7
918	Postsynaptic zinc potentiation elicited by KCl depolarization at hippocampal mossy fiber synapses. General Physiology and Biophysics, 2017, 36, 289-296.	0.4	3
919	Synthesis photophysical studies of some furfurylnitrones: high-ly selective chemosensors for Zn2+ and DFT studies. International Journal of Advanced Chemistry, 2017, 6, 37-45.	0.1	4
920	Novel Defense by Metallothionein Induction Against Cognitive Decline: From Amyloid β1–42-Induced Excess Zn2+ to Functional Zn2+ Deficiency. Molecular Neurobiology, 2018, 55, 7775-7788.	1.9	23

ARTICLE IF CITATIONS A novel Schiff base derivative of pyridoxal for the optical sensing of Zn2+ and cysteine. 921 65 1.6 Photochemical and Photobiological Sciences, 2018, 17, 414-422. A facile strategy for achieving high selective Zn(II) fluorescence probe by regulating the solvent 24 polarity. Talanta, 2018, 184, 7-14. A reversible fluorescent probe for Zn2+ and ATP in living cells and in vivo. Sensors and Actuators B: 923 4.0 37 Chemical, 2018, 261, 127-134. Exploring the Scope of Photo-Induced Electron Transfer–Chelation-Enhanced Fluorescence–Fluorescence Resonance Energy Transfer Processes for Recognition and Discrimination of Zn²⁺, Cd²⁺, Hg²⁺, and Al³⁺in a Ratiometric Manner: Application to Sea Fish Analysis. ACS Omega. 2018. 3. 4262-4275. 924 34 Intracellular imaging of zinc ion in living cells by fluorescein based organic nanoparticles. Sensors 925 4.0 16 and Actuators B: Chemical, 2018, 267, 119-128. Selective laser melting of Zn–Ag alloys for bone repair: microstructure, mechanical properties and degradation behaviour. Virtual and Physical Prototyping, 2018, 13, 146-154. 5.3 Detection and discrimination of Zn²⁺ and Hg²⁺ using a single molecular 927 1.4 18 fluorescent probe. New Journal of Chemistry, 2018, 42, 8646-8652. Zn2+-induced disruption of neuronal mitochondrial function: Synergism with Ca2+, critical dependence upon cytosolic Zn2+ buffering, and contributions to neuronal injury. Experimental 928 2.0 Neurology, 2018, 302, 181-195. Sensitive and selective fluorometric determination and monitoring of Zn2+ ions using 929 2.3 74 supermicroporous Zr-MOFs chemosensors. Microchemical Journal, 2018, 139, 24-33. Sensors for measuring subcellular zinc pools. Metallomics, 2018, 10, 229-239. 1.0 34 17. Targeting Zinc(II) Signalling to Prevent Cancer., 2018, 18, 507-530. 931 5 Chromis-1, a Ratiometric Fluorescent Probe Optimized for Two-Photon Microscopy Reveals Dynamic 36 Changes in Labile Zn(II) in Differentiating Oligodendrocytes. ACS Sensors, 2018, 3, 458-467. Long-Lived Emissive Probes for Time-Resolved Photoluminescence Bioimaging and Biosensing. Chemical 933 23.0 644 Reviews, 2018, 118, 1770-1839. An active fluorescent probe based on aggregation-induced emission for intracellular bioimaging of 934 2.6 29 Zn 2+ and tracking of interactions with single-stranded DNA. Analytica Chimica Acta, 2018, 1013, 79-86. A diketopyrrolopyrrole-based fluorescent probe for investigating mitochondrial zinc ions. New 935 1.4 25 Journal of Chemistry, 2018, 42, 3493-3502. Reduced plaque size and inflammation in the APP23 mouse model for Alzheimer's disease after chronic application of polymeric nanoparticles for CNS targeted zinc delivery. Journal of Trace Elements in 64 Medicine and Biology, 2018, 49, 210-221. Interdependence of free zinc changes and protein complex assembly – insights into zinc signal 937 1.0 19 regulation. Metallomics, 2018, 10, 120-131. Design of nonapeptide LVFFARKHH: A bifunctional agent against Cu²⁺â€mediated amyloid 1.1 $\hat{I}^2 \hat{a} \in p$ rotein aggregation and cytotoxicity. Journal of Molecular Recognition, 2018, 31, e2697.

#	Article	IF	CITATIONS
939	Crystal Structures, Cytotoxicity, Cell Apoptosis Mechanism, and DNA Binding of Two 8-Hydroxylquinoline Zinc(II) Complexes. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2018, 44, 322-334.	0.3	3
940	A thiazolo[4,5-b]pyridine-based ï¬,uorescent probe for detection of zinc ions and application for in vitro and in vivo bioimaging. Talanta, 2018, 185, 396-404.	2.9	18
941	Zinc ion rapidly induces toxic, off-pathway amyloid-β oligomers distinct from amyloid-β derived diffusible ligands in Alzheimer's disease. Scientific Reports, 2018, 8, 4772.	1.6	104
942	Metal-involved theranostics: An emerging strategy for fighting Alzheimer's disease. Coordination Chemistry Reviews, 2018, 362, 72-84.	9.5	53
943	In vitro and in vivo studies on zinc-hydroxyapatite composites as novel biodegradable metal matrix composite for orthopedic applications. Acta Biomaterialia, 2018, 71, 200-214.	4.1	197
944	Maintained LTP and Memory Are Lost by Zn2+ Influx into Dentate Granule Cells, but Not Ca2+ Influx. Molecular Neurobiology, 2018, 55, 1498-1508.	1.9	18
945	Colorimetric chemosensor for Zn2+ based on pyrogallol red and poly(diallyldimethylammonium) Tj ETQq0 0 0 rgB	T /Overloo 1.7	24,10 Tf 50 5
946	Recent progress in the development of organic dye based near-infrared fluorescence probes for metal ions. Coordination Chemistry Reviews, 2018, 354, 74-97.	9.5	280
947	Reusable Schiff base functionalized silica as a multi-purpose nanoprobe for fluorogenic recognition, quantification and extraction of Zn2+ ions. Sensors and Actuators B: Chemical, 2018, 254, 533-541.	4.0	19
948	Highly selective turn-on fluorogenic chemosensor for Zn(II) detection based on aggregation-induced emission. Journal of Luminescence, 2018, 194, 366-373.	1.5	33
949	Application of dual cloud point extraction for the enrichment of zinc in serum samples of psychiatric patients prior to analysis by FAAS. Journal of Industrial and Engineering Chemistry, 2018, 62, 58-63.	2.9	15
950	COMPARISON OF THE IN VITRO CYTOTOXICITIES OF NITROGEN DOPED (p-TYPE) AND n-TYPE ZINC OXIDE NANOPARTICLES. Surface Review and Letters, 2018, 25, 1850084.	0.5	2
951	A Probe for Multi Detection of Al3+, Zn2+ and Cd2+ Ions via Turn-On Fluorescence Responses. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 77-85.	2.0	47
952	Effects of the antidepressant mirtazapine and zinc on nicotinic acetylcholine receptors. Neuroscience Letters, 2018, 665, 246-251.	1.0	3
953	A highly selective dual-channel fluorescent probe for the detection of Zn2+ ion and pyrophosphate in micelle. Dyes and Pigments, 2018, 149, 915-920.	2.0	32
954	Synthesis and study of three hydroxypyrazole-based ligands: A ratiometric fluorescent sensor for Zn(II). Journal of Luminescence, 2018, 195, 193-200.	1.5	16
955	Zinc Potentiates Lipopolysaccharide-induced Nitric Oxide Production in Cultured Primary Rat Astrocytes. Neurochemical Research, 2018, 43, 363-374.	1.6	12
956	Hydrogen-bonded networks in oxygen-coordinated monoamide complexes of zinc(II). Canadian Journal of Chemistry, 2018, 96, 621-628.	0.6	0

#	Article	IF	CITATIONS
957	Selective and sensitive detection of Zn(II) ion using a simple peptide-based sensor. Sensors and Actuators B: Chemical, 2018, 255, 49-56.	4.0	24
958	Sulfamethoxazole induces zinc changes at hippocampal mossy fiber synapses from pregnant rats. General Physiology and Biophysics, 2018, 37, 213-221.	0.4	4
959	Role of Zinc Signaling in the Regulation of Mast Cell-, Basophil-, and T Cell-Mediated Allergic Responses. Journal of Immunology Research, 2018, 2018, 1-9.	0.9	14
960	Is Vulnerability of the Dentate Gyrus to Aging and Amyloid-β _{1–42} Neurotoxicity Linked with Modified Extracellular Zn ²⁺ Dynamics?. Biological and Pharmaceutical Bulletin, 2018, 41, 995-1000.	0.6	7
961	Functional Status of Neuronal Calcium Sensor-1 Is Modulated by Zinc Binding. Frontiers in Molecular Neuroscience, 2018, 11, 459.	1.4	32
962	Synthesis and characterization of carboxyl modifiedmesoporous silica nanoparticles with disulfide bond as a cross linker. IOP Conference Series: Materials Science and Engineering, 2018, 397, 012004.	0.3	0
963	A Sensitive, Nonradioactive Assay for Zn(II) Uptake into Metazoan Cells. Biochemistry, 2018, 57, 6807-6815.	1.2	4
964	Serum zinc level is associated with liver dysfunction caused by white smoke inhalation. Gastroenterology Report, 2018, 6, 304-307.	0.6	4
965	Development of Zinc-Doped Hydroxyapatite by Sol-Gel Method for Medical Applications. Molecules, 2018, 23, 2986.	1.7	59
967	Fabrication of a self-assembled supramolecular fluorescent nanosensor from functional graphene oxide and its application for the detection of Al3+. New Journal of Chemistry, 2018, 42, 17665-17670.	1.4	5
968	Microstructure, mechanical properties, biocompatibility, and in vitro corrosion and degradation behavior of a new Zn–5Ge alloy for biodegradable implant materials. Acta Biomaterialia, 2018, 82, 197-204.	4.1	134
969	Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71.	2.7	128
970	A ratiometric fluorescent core-shell nanoprobe for sensing and imaging of zinc(II) in living cell and zebrafish. Mikrochimica Acta, 2018, 185, 523.	2.5	15
971	Nutrition and Alzheimer Disease. Clinics in Geriatric Medicine, 2018, 34, 677-697.	1.0	32
972	Anti-amyloid Therapy of Alzheimer's Disease: Current State and Prospects. Biochemistry (Moscow), 2018, 83, 1057-1067.	0.7	29
973	Zinc induces CDK5 activation and neuronal death through CDK5-Tyr15 phosphorylation in ischemic stroke. Cell Death and Disease, 2018, 9, 870.	2.7	27
974	AMPA-induced extracellular Zn2+ influx into nigral dopaminergic neurons causes movement disorder in rats. NeuroToxicology, 2018, 69, 23-28.	1.4	25
975	Phosphorylation of the Amyloid-Beta Peptide Inhibits Zinc-Dependent Aggregation, Prevents Na,K-ATPase Inhibition, and Reduces Cerebral Plaque Deposition. Frontiers in Molecular Neuroscience, 2018, 11, 302.	1.4	33

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#	Article	IF	CITATIONS
976	Assessment of Biometal Profile in Children with Autism Spectrum Disorder, with Attention Deficit Hyperactivity Disorder, or with Other Psychiatric Diagnoses: A Comparative Outpatient Study. Acta Psychopathologica, 2018, 04, .	0.1	1
977	Mechanism study of intracellular zinc oxide nanocomposites formation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 349-358.	2.3	50
978	A simple amide fluorescent sensor based on quinoline for selective and sensitive recognition of zinc(II) ions and bioimaging in living cells. Dyes and Pigments, 2018, 158, 312-318.	2.0	40
979	Initial formation of corrosion products on pure zinc in simulated body fluid. Journal of Materials Science and Technology, 2018, 34, 2271-2282.	5.6	79
980	Sensing and intracellular imaging of Zn2+ based on affinity peptide using an aggregation induced emission fluorescence "switch-on―probe. Sensors and Actuators B: Chemical, 2018, 271, 289-299.	4.0	49
981	Biospectroscopic Imaging Provides Evidence of Hippocampal Zn Deficiency and Decreased Lipid Unsaturation in an Accelerated Aging Mouse Model. ACS Chemical Neuroscience, 2018, 9, 2774-2785.	1.7	18
982	A simple Schiff base as dual-responsive fluorescent sensor for bioimaging recognition of Zn ²⁺ and Al ³⁺ in living cells. Journal of Materials Chemistry B, 2018, 6, 5435-5442.	2.9	87
983	Modulation of P2X7 purinergic receptor activity by extracellular Zn2+ in cultured mouse hippocampal astroglia. Cell Calcium, 2018, 75, 1-13.	1.1	14
984	A low affinity nanoparticle based fluorescent ratiometric probe for the determination of Zn(<scp>ii</scp>) concentrations in living cells. New Journal of Chemistry, 2018, 42, 14986-14993.	1.4	3
985	Biotin-tagged fluorescent sensor to visualize â€~mobile' Zn ²⁺ in cancer cells. Chemical Communications, 2018, 54, 9619-9622.	2.2	16
986	Status of the Vibrational Theory of Olfaction. Frontiers in Physics, 2018, 6, .	1.0	17
987	A Critical Review on Colorimetric and Fluorescent Probes for the Sensing of Analytes via Relay Recognition from the year 2012–17. ChemistrySelect, 2018, 3, 7231-7268.	0.7	72
988	Zinc regulates vascular endothelial cell activity through zinc-sensing receptor ZnR/GPR39. American Journal of Physiology - Cell Physiology, 2018, 314, C404-C414.	2.1	64
989	Intravenously Injected Amyloid-β Peptide With Isomerized Asp7 and Phosphorylated Ser8 Residues Inhibits Cerebral β-Amyloidosis in AβPP/PS1 Transgenic Mice Model of Alzheimer's Disease. Frontiers in Neuroscience, 2018, 12, 518.	1.4	15
990	Neuroprotective effect of ZnT3 knockout on subarachnoid hemorrhage. Translational Neuroscience, 2018, 9, 26-32.	0.7	2
991	Zinc Exacerbates Tau Pathology in a Tau Mouse Model. Journal of Alzheimer's Disease, 2018, 64, 617-630.	1.2	49
992	Role of Zinc Homeostasis in the Pathogenesis of Diabetes and Obesity. International Journal of Molecular Sciences, 2018, 19, 476.	1.8	163
993	The Role of the Slc39a Family of Zinc Transporters in Zinc Homeostasis in Skin. Nutrients, 2018, 10, 219.	1.7	20

#	Article	IF	CITATIONS
994	Ratiometric Fluorescence Platform Based on Modified Silicon Quantum Dots and Its Logic Gate Performance. Inorganic Chemistry, 2018, 57, 8866-8873.	1.9	58
995	Inhaled Xenon Washout as a Biomarker of Alzheimer's Disease. Diagnostics, 2018, 8, 41.	1.3	12
996	Cell type-specific effects of BDNF in modulating dendritic architecture of hippocampal neurons. Brain Structure and Function, 2018, 223, 3689-3709.	1.2	24
997	Properties of Zinc Oxide Nanoparticles and Their Activity Against Microbes. Nanoscale Research Letters, 2018, 13, 141.	3.1	667
998	Protective role of zinc against the neurotoxicity induced by exposure to cadmium during gestation and lactation periods on hippocampal volume of pups tested in early adulthood. Drug and Chemical Toxicology, 2018, 41, 424-433.	1.2	5
999	Phosphorescence Lifetime Imaging of Labile Zn ²⁺ in Mitochondria via a Phosphorescent Iridium(III) Complex. Inorganic Chemistry, 2018, 57, 10625-10632.	1.9	28
1000	lonic Homeostasis Maintenance in ALS: Focus on New Therapeutic Targets. Frontiers in Neuroscience, 2018, 12, 510.	1.4	40
1001	Recent trends in nanostructured particles: synthesis, functionalization, and applications. , 2018, , 605-639.		7
1003	Glycan-Independent Gamete Recognition Triggers Egg Zinc Sparks and ZP2 Cleavage to Prevent Polyspermy. Developmental Cell, 2018, 46, 627-640.e5.	3.1	61
1004	Acute exposure to zinc oxide nanoparticles critically disrupts operation of the respiratory neural network in neonatal rat. NeuroToxicology, 2018, 67, 150-160.	1.4	13
1005	Recent progress in metal–organic frameworks for precaution and diagnosis of Alzheimer's disease. Polyhedron, 2018, 151, 554-567.	1.0	13
1006	A highly sensitive fluorescent probe for bioimaging zinc ion in living cells and zebrafish models. New Journal of Chemistry, 2018, 42, 12198-12204.	1.4	15
1007	Zinc: A Potential Antiviral Against Hepatitis E Virus Infection?. DNA and Cell Biology, 2018, 37, 593-599.	0.9	23
1008	A â€~turn-on' fluorescent chemosensor for the detection of Zn ²⁺ ion based on 2-(quinolin-2-yl)quinazolin-4(3 <i>H</i>)-one. Heterocyclic Communications, 2018, 24, 135-139.	0.6	12
1009	Real Time Imaging and Dynamics of Hippocampal Zn2+ under Epileptic Condition Using a Ratiometric Fluorescent Probe. Scientific Reports, 2018, 8, 9069.	1.6	18
1010	Biomedical applications of zinc oxide nanoparticles. , 2018, , 239-278.		29
1011	Rapid Intracellular Zn2+ Dysregulation via Membrane Corticosteroid Receptor Activation Affects In Vivo CA1 LTP. Molecular Neurobiology, 2019, 56, 1356-1365.	1.9	6
1012	Ultra-fast zinc ion detection in living cells and zebrafish by a light-up fluorescent probe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 295-301.	2.0	12

#	Article	IF	CITATIONS
1013	Zinc enhances the expression of morphine-induced conditioned place preference through dopaminergic and serotonergic systems. Biomolecular Concepts, 2019, 10, 51-61.	1.0	1
1014	Preparation and Characterization of Carboxyl Functionalized Fluorescent Mesoporous Silica Nanoparticles Containing 8-Hydroxyquinolinate Zinc Complexes. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 973-978.	0.4	3
1015	Preparation, Structural characterization and DNA binding/cleavage affinity of new bioactive nanoâ€sized metal (II/IV) complexes with oxazonâ€6chiff's base ligand. Applied Organometallic Chemistry, 2019, 33, e5135.	1.7	24
1016	Intracerebroventricular administration of histidine reduces kainic acid-induced convulsive seizures in mice. Experimental Brain Research, 2019, 237, 2481-2493.	0.7	1
1017	Highly selective and sensitive peptide-based fluorescent chemosensor for detection of Zinc(II) ions in aqueous medium and living cells. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111929.	2.0	22
1018	Effect of â€OMe Substituent on Salicylaldehyde Schiff Base to Influence the Zn 2+ Sensitivity and the Cancer Cell Line Imaging. ChemistrySelect, 2019, 4, 7932-7935.	0.7	3
1019	Fast and Reversible "Turn on―Fluorescent Sensors Based on Bisphenol-a for Zn2+ in Aqueous Solution. Journal of Fluorescence, 2019, 29, 1079-1087.	1.3	15
1020	Nano-SiC reinforced Zn biocomposites prepared via laser melting: Microstructure, mechanical properties and biodegradability. Journal of Materials Science and Technology, 2019, 35, 2608-2617.	5.6	80
1021	Mast cells play role in wound healing through the ZnT2/GPR39/IL-6 axis. Scientific Reports, 2019, 9, 10842.	1.6	28
1022	NICU Diet, Physical Growth and Nutrient Accretion, and Preterm Infant Brain Development. NeoReviews, 2019, 20, e385-e396.	0.4	27
1023	Sub-nanomolar sensitive GZnP3 reveals TRPML1-mediated neuronal Zn2+ signals. Nature Communications, 2019, 10, 4806.	5.8	27
1024	First Trimester Serum Copper or Zinc Levels, and Risk of Pregnancy-Induced Hypertension. Nutrients, 2019, 11, 2479.	1.7	38
1025	Effects of Cu(II) on the aggregation of amyloid-β. Journal of Biological Inorganic Chemistry, 2019, 24, 1197-1215.	1.1	30
1026	A Novel Microtubule-Tau Association Enhancer and Neuroprotective Drug Candidate: Ac-SKIP. Frontiers in Cellular Neuroscience, 2019, 13, 435.	1.8	10
1027	Compressive properties of biomedical open-cell Zn foam. Materials Research Express, 2019, 6, 115406.	0.8	3
1028	Age-Dependent Modification of Intracellular Zn ²⁺ Buffering in the Hippocampus and Its Impact. Biological and Pharmaceutical Bulletin, 2019, 42, 1070-1075.	0.6	9
1029	Genetically Encoded, Photostable Indicators to Image Dynamic Zn ²⁺ Secretion of Pancreatic Islets. Analytical Chemistry, 2019, 91, 12212-12219.	3.2	20
1030	An antipyrine based fluorescence "turn-on―dual sensor for Zn2+ and Al3+ and its selective fluorescence "turn-off―sensing towards 2,4,6-trinitrophenol (TNP) in the aggregated state. Photochemical and Photobiological Sciences, 2019, 18, 2717-2729.	1.6	39

#	Article	IF	CITATIONS
1031	Electrochemical stability and bio-mineralization capability of zinc substituted and elemental zinc reinforced calcium phosphate composite coatings synthesized through pulsed electro-deposition. Ceramics International, 2019, 45, 22899-22911.	2.3	5
1032	ZnO as a Functional Material, a Review. Crystals, 2019, 9, 505.	1.0	227
1033	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.	1.3	7
1034	A selective hydrolytic and restructuring approach through a Schiff base design on a coumarin platform for "turn-on―fluorogenic sensing of Zn ²⁺ . Dalton Transactions, 2019, 48, 2068-2076.	1.6	24
1035	The influence of alloying and fabrication techniques on the mechanical properties, biodegradability and biocompatibility of zinc: A comprehensive review. Acta Biomaterialia, 2019, 87, 1-40.	4.1	336
1036	Metal Toxicity Links to Alzheimer's Disease and Neuroinflammation. Journal of Molecular Biology, 2019, 431, 1843-1868.	2.0	281
1037	Synthesis, optimization and applications of ZnO/polymer nanocomposites. Materials Science and Engineering C, 2019, 98, 1210-1240.	3.8	191
1038	An ESIPT based chromogenic and fluorescent ratiometric probe for Zn ²⁺ with imaging in live cells and tissues. New Journal of Chemistry, 2019, 43, 1857-1863.	1.4	17
1039	Small addition of Zn ²⁺ in Ca ²⁺ @DNA results in elevated gene transfection by aminated PGMA-modified silicon nanowire arrays. Journal of Materials Chemistry B, 2019, 7, 566-575.	2.9	6
1040	Experimental cum theoretical study of cryptand derivative having high selectivity and sensitivity towards Zn ion. Journal of Molecular Structure, 2019, 1194, 178-186.	1.8	5
1042	Full-color emission of a Eu ³⁺ -based mesoporous hybrid material modulated by Zn ²⁺ ions: emission color changes for Zn ²⁺ sensing <i>via</i> an ion exchange approach. Dalton Transactions, 2019, 48, 10547-10556.	1.6	19
1043	CA1 LTP Attenuated by Corticosterone is Canceled by Effusol via Rescuing Intracellular Zn2+ Dysregulation. Cellular and Molecular Neurobiology, 2019, 39, 975-983.	1.7	3
1044	Three Structural Features of Functional Food Components and Herbal Medicine with Amyloid β42 Anti-Aggregation Properties. Molecules, 2019, 24, 2125.	1.7	24
1045	Colorimetric chemosensors for d-metal ions: A review in the past, present and future prospect. Journal of Molecular Structure, 2019, 1193, 89-102.	1.8	90
1046	Diagnostic significance of metallothionein members in recognizing cadmium exposure in various organs under low-dose exposure. Chemosphere, 2019, 229, 32-40.	4.2	17
1047	Zinc homeostasis and zinc signaling in white matter development and injury. Neuroscience Letters, 2019, 707, 134247.	1.0	19
1048	Synthesis of Metallic and Metal Oxide Particles. Nanoscience and Technology, 2019, , 3-27.	1.5	3
1049	An example of enhanced emission of a pyridine containing schiff base zinc2+ complex. Inorganica	1.2	6

	CHAID	NREPORT	
#	Article	IF	Citations
1050	Detecting Zn(II) Ions in Live Cells with Near-Infrared Fluorescent Probes. Molecules, 2019, 24, 1592.	1.7	23
1051	Surface Modifications for Photon-Upconversion-Based Energy-Transfer Nanoprobes. Langmuir, 2019, 35, 5093-5113.	1.6	41
1052	Ageing and Cognition. Sub-Cellular Biochemistry, 2019, 91, 107-122.	1.0	61
1053	Altered Lipid Composition of Secretory Cells Following Exposure to Zinc Can Be Correlated to Changes in Exocytosis. Chemistry - A European Journal, 2019, 25, 5406-5411.	1.7	18
1054	Natural Product-Based Fabrication of Zinc-Oxide Nanoparticles and Their Applications. , 2019, , 193-219.		28
1055	Zinc levels in depressed patients: Results from a meta-analysis. European Neuropsychopharmacology, 2019, 29, S353.	0.3	0
1056	Maintenance of Intestinal Epithelial Homeostasis by Zinc Transporters. Digestive Diseases and Sciences, 2019, 64, 2404-2415.	1.1	20
1057	Contribution of Zinc and Zinc Transporters in the Pathogenesis of Inflammatory Bowel Diseases. Journal of Immunology Research, 2019, 2019, 1-11.	0.9	41
1058	A dual-functional fluorescent sensor based on diarylethene for Zn2+ and Al3+ in different solvents. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 376, 185-195.	2.0	26
1059	Paramagnetic Lanthanide NMR Probes Signalling Changes in Zinc Concentration by Emission and Chemical Shift: A Proof of Concept Study. Chemistry - A European Journal, 2019, 25, 6212-6225.	1.7	10
1061	Aggregationâ€Induced Emissionâ€Based Sensing Platform for Selective Detection of Zn ²⁺ : Experimental and Theoretical Investigations. ChemPhysChem, 2019, 20, 1630-1639.	1.0	18
1062	Influences of albumin on in vitro corrosion of pure Zn in artificial plasma. Corrosion Science, 2019, 153, 341-356.	3.0	70
1063	Investigation on the microstructure, mechanical properties, in vitro degradation behavior and biocompatibility of newly developed Zn-0.8%Li-(Mg, Ag) alloys for guided bone regeneration. Materials Science and Engineering C, 2019, 99, 1021-1034.	3.8	87
1064	Zn ^{II} Complexes for Bioimaging and Correlated Applications. Chemistry - an Asian Journal, 2019, 14, 509-526.	1.7	19
1065	Modification of cell vulnerability to oxidative stress by N-(3-oxododecanoyl)-L-homoserine-lactone, a quorum sensing molecule, in rat thymocytes. Chemico-Biological Interactions, 2019, 302, 143-148.	1.7	1
1066	Iridium(III)-based chemosensors for the detection of metal ions. Methods, 2019, 168, 3-17.	1.9	27
1067	Involvement of the synapseâ€specific zinc transporter ZnT3 in cadmiumâ€induced hippocampal neurotoxicity. Journal of Cellular Physiology, 2019, 234, 15872-15884.	2.0	18
1068	Improved blood compatibility and cyto-compatibility of Zn-1Mg via plasma electrolytic oxidation. Materialia, 2019, 5, 100244.	1.3	23

	CITATION I	Report	
#	ARTICLE	IF	Citations
1069	Prospects in Food Processing and Allied Industries. Food Reviews International, 2019, 35, 505-535.	4.3	15
1070	Association Between Trace Element Status and Depression in HTLV-1-Infected Patients: a Retrospective Cohort Study. Biological Trace Element Research, 2019, 191, 75-80.	1.9	3
1071	Dysmaturation of Premature Brain: Importance, Cellular Mechanisms, and Potential Interventions. Pediatric Neurology, 2019, 95, 42-66.	1.0	202
1072	6-Polyamino-substituted quinolines: synthesis and multiple metal (Cu ^{II} ,) Tj ETQq1 1 0.784314 rgB Chemistry, 2019, 17, 4243-4260.	T /Overlock 1.5	10 Tf 50 62 15
1074	Neurobiology of Zinc. Biology Bulletin Reviews, 2019, 9, 532-542.	0.3	0
1075	Recent Advances in AlEgens for Metal Ion Biosensing and Bioimaging. Molecules, 2019, 24, 4593.	1.7	34
1076	Nimodipine Reappraised: An Old Drug With a Future. Current Neuropharmacology, 2019, 18, 65-82.	1.4	69
1077	A coumarin based highly sensitive fluorescent chemosensor for selective detection of zinc ion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 16-22.	2.0	33
1078	Optical sensors for detection of nano-molar Zn2+ in aqueous medium: Direct evidence of probe- Zn2+ binding by single crystal X-ray structures. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 368, 52-61.	2.0	4
1079	A novel ratiometric fluorescent probe for detection of iron ions and zinc ions based on dual-emission carbon dots. Sensors and Actuators B: Chemical, 2019, 284, 186-192.	4.0	79
1080	Fe3+ Facilitates Endocytic Internalization of Extracellular Aβ1–42 and Enhances Aβ1–42-Induced Caspase-3/Caspase-4 Activation and Neuronal Cell Death. Molecular Neurobiology, 2019, 56, 4812-4819.	1.9	6
1081	The Molecular Dance of Fibronectin: Conformational Flexibility Leads to Functional Versatility. Biomacromolecules, 2019, 20, 55-72.	2.6	31
1082	Impact of Zn ²⁺ on ABC Transporter Function in Intact Isolated Rat Brain Microvessels, Human Brain Capillary Endothelial Cells, and in Rat in Vivo. Molecular Pharmaceutics, 2019, 16, 305-317.	2.3	9
1083	Long-lasting antidepressant-like activity of the GPR39 zinc receptor agonist TC-G 1008. Journal of Affective Disorders, 2019, 245, 325-334.	2.0	23
1084	L-Type Calcium Channel-Mediated Zinc Wave Is Involved in the Regulation of IL-6 by Stimulating Non-IgE with LPS and IL-33 in Mast Cells and Dendritic Cells. Biological and Pharmaceutical Bulletin, 2019, 42, 87-93.	0.6	10
1085	Zinc reduces antiseizure activity of neurosteroids by selective blockade of extrasynaptic GABA-A receptor-mediated tonic inhibition in the hippocampus. Neuropharmacology, 2019, 148, 244-256.	2.0	19
1086	Amyloid β1–42-Induced Rapid Zn2+ Influx into Dentate Granule Cells Attenuates Maintained LTP Followed by Retrograde Amnesia. Molecular Neurobiology, 2019, 56, 5041-5050.	1.9	5
1087	Zinc-Based Biomaterials for Regeneration and Therapy. Trends in Biotechnology, 2019, 37, 428-441.	4.9	243

#	Article	IF	CITATIONS
1088	Swelling, thermal stability, antibacterial properties enhancement on composite hydrogel synthesized by chitosan-acrylic acid and ZnO nanowires. Polymer-Plastics Technology and Materials, 2019, 58, 1649-1661.	0.6	6
1089	The redox biology of redox-inert zinc ions. Free Radical Biology and Medicine, 2019, 134, 311-326.	1.3	143
1090	Green synthesis and characterization of MnCo2O4/Co2Mn3O8 ceramic nanocomposites and investigation of their cytotoxicity on the 4T1 cells. Composites Part B: Engineering, 2019, 163, 424-430.	5.9	12
1091	Blockade of Rapid Influx of Extracellular Zn2+ into Nigral Dopaminergic Neurons Overcomes Paraquat-Induced Parkinson's Disease in Rats. Molecular Neurobiology, 2019, 56, 4539-4548.	1.9	20
1092	Initial formation of corrosion products on pure zinc in saline solution. Bioactive Materials, 2019, 4, 87-96.	8.6	98
1093	Sequential displacement strategy for selective and highly sensitive detection of Zn2+, Hg2+ and S2â^' ions: An approach toward a molecular keypad lock. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 208, 271-284.	2.0	15
1094	Dual-Aptamer-Conjugated Molecular Modulator for Detecting Bioactive Metal Ions and Inhibiting Metal-Mediated Protein Aggregation. Analytical Chemistry, 2019, 91, 823-829.	3.2	25
1095	Extracellular Zn2+ Influx into Nigral Dopaminergic Neurons Plays a Key Role for Pathogenesis of 6-Hydroxydopamine-Induced Parkinson's Disease in Rats. Molecular Neurobiology, 2019, 56, 435-443.	1.9	26
1096	Zn2+-transporters ZIP7 and ZnT7 play important role in progression of cardiac dysfunction via affecting sarco(endo)plasmic reticulum-mitochondria coupling in hyperglycemic cardiomyocytes. Mitochondrion, 2019, 44, 41-52.	1.6	40
1097	A 4-N,N-dimethylaminoaniline salicylaldehyde Schiff-base solution-solid dual emissive fluorophore: An aggregation-induced turquoise emission characteristics in liquid as a fluorescent probe for Zn2+ response; a strong near-infrared emission in solid state and application for optical data storage. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 226, 117608.	2.0	6
1098	A highly sensitive turn-on fluorescent chemosensor for recognition of Zn(II) ions and its application in live cells imaging. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 386, 112111.	2.0	12
1099	Far-red to near-infrared fluorescent probes based on silicon-substituted xanthene dyes for sensing and imaging. TrAC - Trends in Analytical Chemistry, 2020, 122, 115704.	5.8	24
1100	Brain Zinc Deficiency Exacerbates Cognitive Decline in the R6/1 Model of Huntington's Disease. Neurotherapeutics, 2020, 17, 243-251.	2.1	15
1101	Elevated zinc transporter ZnT3 in the dentate gyrus of mast cellâ€deficient mice. European Journal of Neuroscience, 2020, 51, 1504-1513.	1.2	2
1102	Additively manufactured biodegradable porous zinc. Acta Biomaterialia, 2020, 101, 609-623.	4.1	95
1103	Two-photon fluorescent Zn2+ probe for ratiometric imaging and biosensing of Zn2+ in living cells and larval zebrafish. Biosensors and Bioelectronics, 2020, 148, 111666.	5.3	35
1104	Fabrication of Mg/Mg composite with sleeve-core structure and its effect on room-temperature yield asymmetry via bimetal casting-co-extrusion. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 769, 138476.	2.6	19
1105	HaloTag-Based Hybrid Targetable and Ratiometric Sensors for Intracellular Zinc. ACS Chemical Biology, 2020, 15, 396-406.	1.6	33

#	Article	IF	CITATIONS
1106	Selective detection of pyrophosphate anion by zinc ensemble of C3-symmetric triaminoguanidine-pyrrole conjugate and its biosensing applications. Analytica Chimica Acta, 2020, 1103, 192-201.	2.6	21
1107	A new fluorescence turn-on sensor for the distinct detection of Zn2+ and Al3+: Experimental and density functional theory study. Inorganica Chimica Acta, 2020, 502, 119295.	1.2	21
1108	Iron and zinc: Nutrients with potential for neurorestoration in premature infants with cerebral white matter injury. Journal of Neonatal-Perinatal Medicine, 2020, 12, 365-368.	0.4	6
1109	The relevance of pathophysiological alterations in redox signaling of 4-hydroxynonenal for pharmacological therapies of major stress-associated diseases. Free Radical Biology and Medicine, 2020, 157, 128-153.	1.3	70
1110	Synthesis of Biocompatible Zinc Oxide (ZnO) Nanoparticles and Their Neuroprotective Effect of 6-OHDA Induced Neural Damage in SH-SY 5Y Cells. Journal of Cluster Science, 2020, 31, 1315-1328.	1.7	12
1111	Synaptic zinc contributes to motor and cognitive deficits in 6-hydroxydopamine mouse models of Parkinson's disease. Neurobiology of Disease, 2020, 134, 104681.	2.1	21
1112	A fluorogenic probe using a catalytic reaction for the detection of trace intracellular zinc. Chemical Communications, 2020, 56, 13327-13330.	2.2	6
1113	A simple and an easy-to-synthesize turn-on fluorescent probe for rapid detection of Zn2+ and its application in bioimaging. Tetrahedron Letters, 2020, 61, 152507.	0.7	13
1114	Ca _v 2.3 channel function and Zn ²⁺ -induced modulation: potential mechanisms and (patho)physiological relevance. Channels, 2020, 14, 362-379.	1.5	6
1115	The Emerging Role of the RNA-Binding Protein SFPQ in Neuronal Function and Neurodegeneration. International Journal of Molecular Sciences, 2020, 21, 7151.	1.8	39
1116	Mechanism of Zinc Excitotoxicity: A Focus on AMPK. Frontiers in Neuroscience, 2020, 14, 577958.	1.4	21
1117	A fluorescent sensor for intracellular Zn ²⁺ based on cylindrical molecular brushes of poly(2-oxazoline) through ion-induced emission. Polymer Chemistry, 2020, 11, 6650-6657.	1.9	11
1118	Imaging Tissue Physiology In Vivo by Use of Metal Ion-Responsive MRI Contrast Agents. Pharmaceuticals, 2020, 13, 268.	1.7	13
1119	A double target fluorescent sensor based on diarylethene for detection of Al3+ and Zn2+. Tetrahedron Letters, 2020, 61, 152372.	0.7	12
1120	Insights into Potential Targets for Therapeutic Intervention in Epilepsy. International Journal of Molecular Sciences, 2020, 21, 8573.	1.8	22
1121	Zinc: an endogenous and exogenous regulator of platelet function during hemostasis and thrombosis. Platelets, 2021, 32, 880-887.	1.1	12
1122	PBT2 acts through a different mechanism of action than other 8-hydroxyquinolines: an X-ray fluorescence imaging study. Metallomics, 2020, 12, 1979-1994.	1.0	13
1123	Do Zinc Supplements Enhance the Clinical Efficacy of Hydroxychloroquine?: a Randomized, Multicenter Trial. Biological Trace Element Research, 2021, 199, 3642-3646.	1.9	74

	CITATION	LPORT	
#	ARTICLE Zinc in the Brain: Friend or Foe?, International Journal of Molecular Sciences, 2020, 21, 8941,	IF 1.8	CITATIONS
1124	An Overview of the Main Genetic, Epigenetic and Environmental Factors Involved in Autism Spectrum	1.8	110
1126	Disorder Focusing on Synaptic Activity. International Journal of Molecular Sciences, 2020, 21, 8290. Deep-Red-Fluorescent Zinc Probe with a Membrane-Targeting Cholesterol Unit. Inorganic Chemistry, 2020, 59, 11562-11576.	1.9	12
1127	Molecular docking, molecular dynamics simulations and reactivity, studies on approved drugs library targeting ACE2 and SARS-CoV-2 binding with ACE2. Journal of Biomolecular Structure and Dynamics, 2021, 39, 7246-7262.	2.0	54
1129	A novel diaryletheneâ€based fluorescence sensor with a benzohydrazide unit for the detection of Zn ²⁺ . Journal of Physical Organic Chemistry, 2020, 33, e4113.	0.9	8
1130	Multifunctional roles of zinc in Alzheimer's disease. NeuroToxicology, 2020, 80, 112-123.	1.4	40
1131	The S100B Alarmin Is a Dual-Function Chaperone Suppressing Amyloid-β Oligomerization through Combined Zinc Chelation and Inhibition of Protein Aggregation. ACS Chemical Neuroscience, 2020, 11, 2753-2760.	1.7	16
1132	Succeeding in deactivating: associations of hair zinc levels with functional and structural neural mechanisms. Scientific Reports, 2020, 10, 12364.	1.6	3
1133	Zinc Therapy in Early Alzheimer's Disease: Safety and Potential Therapeutic Efficacy. Biomolecules, 2020, 10, 1164.	1.8	22
1134	ZIGIR, a Granule-Specific Zn2+ Indicator, Reveals Human Islet α Cell Heterogeneity. Cell Reports, 2020, 32, 107904.	2.9	36
1135	Performant Composite Materials Based on Oxide Semiconductors and Metallic Nanoparticles Generated from Cloves and Mandarin Peel Extracts. Nanomaterials, 2020, 10, 2146.	1.9	7
1136	Excitotoxicity: Still Hammering the Ischemic Brain in 2020. Frontiers in Neuroscience, 2020, 14, 579953.	1.4	117
1137	The Role of Zinc in Male Fertility. International Journal of Molecular Sciences, 2020, 21, 7796.	1.8	55
1138	Role of zinc in neonatal growth and brain growth: review and scoping review. Pediatric Research, 2021, 89, 1627-1640.	1.1	43
1139	Zinc and COVID-19: Basis of Current Clinical Trials. Biological Trace Element Research, 2021, 199, 2882-2892.	1.9	114
1140	Aza―and Mixed Thia/Azaâ€Macrocyclic Receptors with Quinolineâ€Bearing Pendant Arms for Optical Discrimination of Zinc(II) or Cadmium(II) Ions. ChemPlusChem, 2020, 85, 1789-1799.	1.3	5
1141	A FRET-based fluorescent Zn ²⁺ sensor: 3D ratiometric imaging, flow cytometric tracking and cisplatin-induced Zn ²⁺ fluctuation monitoring. Chemical Science, 2020, 11, 11037-11041.	3.7	31
1142	Histidine Residues Are Responsible for Bidirectional Effects of Zinc on Acid-Sensing Ion Channel 1a/3 Heteromeric Channels. Biomolecules, 2020, 10, 1264.	1.8	6

#	Article	IF	CITATIONS
1143	Sample preparation with sucrose cryoprotection dramatically alters Zn distribution in the rodent hippocampus, as revealed by elemental mapping. Journal of Analytical Atomic Spectrometry, 2020, 35, 2498-2508.	1.6	19
1144	Micromolar concentrations of Zn2+ depress cellular excitability through a blockade of calcium current in rat adrenal slices. Toxicology, 2020, 444, 152543.	2.0	0
1145	Hyperpolarized 15N-labeled, deuterated tris(2-pyridylmethyl)amine as an MRI sensor of freely available Zn2+. Communications Chemistry, 2020, 3, .	2.0	11
1146	Drosophila ZnT1 is essential in the intestine for dietary zinc absorption. Biochemical and Biophysical Research Communications, 2020, 533, 1004-1011.	1.0	7
1147	Thermally Stable Fluorogenic Zn(II) Sensor Based on a Bis(benzimidazole)pyridine-Linked Phenyl-Silsesquioxane Polymer. ACS Omega, 2020, 5, 33017-33027.	1.6	12
1148	N ₂ S ₂ pyridinophane-based fluorescent chemosensors for selective optical detection of Cd ²⁺ in soils. New Journal of Chemistry, 2020, 44, 20834-20852.	1.4	10
1149	New Insights of the Zn(II)-Induced P2 × 4R Positive Allosteric Modulation: Role of Head Receptor Domain SS2/SS3, E160 and D170. International Journal of Molecular Sciences, 2020, 21, 6940.	1.8	3
1150	Recent Advances in Luminescence Imaging of Biological Systems Using Lanthanide(III) Luminescent Complexes. Molecules, 2020, 25, 2089.	1.7	53
1151	Zinc binding promotes greater hydrophobicity in <scp>Alzheimer's Aβ42</scp> peptide than copper binding: Molecular dynamics and solvation thermodynamics studies. Proteins: Structure, Function and Bioinformatics, 2020, 88, 1285-1302.	1.5	13
1152	Challenges and Opportunities in the Selective Laser Melting of Biodegradable Metals for Load-Bearing Bone Scaffold Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3311-3334.	1.1	35
1153	Microstructure and mechanical properties of zinc matrix composites reinforced with copper coated multiwall carbon nanotubes. Materials Research Express, 2020, 7, 066516.	0.8	4
1154	Functionalized Electrospun Nanofibers as a Versatile Platform for Colorimetric Detection of Heavy Metal Ions in Water: A Review. Materials, 2020, 13, 2421.	1.3	33
1155	A new half-condensed Schiff base platform: structures and sensing of Zn ²⁺ and H ₂ PO ₄ ^{â^'} ions in an aqueous medium. Dalton Transactions, 2020, 49, 8991-9001.	1.6	20
1156	New insight into Parkinson's disease pathogenesis from reactive oxygen species-mediated extracellular Zn2+ influx. Journal of Trace Elements in Medicine and Biology, 2020, 61, 126545.	1.5	6
1157	A Naked Eye and Turnâ€On Fluorescence Detection of Zn 2+ Ion by Imidazoleâ€Quinolineâ€Based Fluorophore and Its Application in Live ell Imaging. ChemistrySelect, 2020, 5, 6059-6065.	0.7	2
1158	Nonlinear optical response of sodium based superalkalis decorated graphdiyne surface: A DFT study. Optik, 2020, 218, 165033.	1.4	22
1159	Effect of Yttrium Substitution on Microstructural, Optical, and Photocatalytic Properties of ZnO Nanostructures. Journal of Electronic Materials, 2020, 49, 5353-5362.	1.0	13
1160	A Review of Microwave Synthesis of Zinc Oxide Nanomaterials: Reactants, Process Parameters and Morphologies. Nanomaterials, 2020, 10, 1086.	1.9	217

#	Article	IF	CITATIONS
1161	Allosteric Modulation of Neurotransmitter Transporters as a Therapeutic Strategy. Trends in Pharmacological Sciences, 2020, 41, 446-463.	4.0	50
1162	A highly sensitive fluorescent probe for tracking intracellular zinc ions and direct imaging of prostatic tissue in mice. Chinese Chemical Letters, 2020, 31, 2933-2936.	4.8	7
1163	A novel peptide-based fluorescent probe for sensitive detection of zinc (II) and its applicability in live cell imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118549.	2.0	10
1164	Alzheimer risk factors age and female sex induce cortical Aβ aggregation by raising extracellular zinc. Molecular Psychiatry, 2020, 25, 2728-2741.	4.1	16
1165	Coumarin-anchored halloysite nanotubes for highly selective detection and removal of Zn(II). Chemical Engineering Journal, 2020, 393, 124695.	6.6	30
1166	A Guide to Human Zinc Absorption: General Overview and Recent Advances of In Vitro Intestinal Models. Nutrients, 2020, 12, 762.	1.7	172
1167	Design and Synthesis of a Ratiometric Photoacoustic Probe for In Situ Imaging of Zinc Ions in Deep Tissue In Vivo. Analytical Chemistry, 2020, 92, 6382-6390.	3.2	37
1168	Morphine-element interactions – The influence of selected chemical elements on neural pathways associated with addiction. Journal of Trace Elements in Medicine and Biology, 2020, 60, 126495.	1.5	11
1169	A flexible tripod fluorescent probe for multiple cations detection and its application in living cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118614.	2.0	6
1170	Wrapping Chiral Nanoribbons into Coiled and Condensed Microstructures in Supramolecular Hydrogels. Advanced Functional Materials, 2020, 30, 2002936.	7.8	19
1171	Zinc ion driven ionic conduction through single asymmetric nanochannels functionalized with nanocomposites. Electrochimica Acta, 2020, 337, 135810.	2.6	22
1172	Zinc transporters in physiology and pathophysiology. , 2020, , 55-67.		0
1173	Changes of Morphological Characteristics and Metabolic Profile of Walker-256 Carcinosarcoma under the Impact of Exogenous Lactoferrin. Cytology and Genetics, 2020, 54, 220-232.	0.2	0
1174	Deep and shallow tubewell water from an arsenic-contaminated area in rural Bangladesh: risk-based status. International Journal of Energy and Water Resources, 2020, 4, 163-179.	1.3	9
1175	A pure zinc membrane with degradability and osteogenesis promotion for guided bone regeneration: In vitro and in vivo studies. Acta Biomaterialia, 2020, 106, 396-409.	4.1	97
1176	Structural basis of the zinc-induced cytoplasmic aggregation of the RNA-binding protein SFPQ. Nucleic Acids Research, 2020, 48, 3356-3365.	6.5	19
1177	Simultaneous Fluorescence Imaging Reveals N-Methyl-d-aspartic Acid Receptor Dependent Zn2+/H+ Flux in the Brains of Mice with Depression. Analytical Chemistry, 2020, 92, 4101-4107.	3.2	23
1178	Imaging of the mutual regulation between zinc cation and nitrosyl via two-photon fluorescent probes in cells and in vivo. Sensors and Actuators B: Chemical, 2020, 309, 127772.	4.0	20

#	Article	IF	CITATIONS
1179	Nano-sized some transition metal complexes of Schiff base ligand based on 1-aminoquinolin-2(1H)-one. Journal of Molecular Structure, 2020, 1206, 127704.	1.8	7
1180	Role of zinc dyshomeostasis in inflammasome formation in cultured cortical cells following lipopolysaccharide or oxygen-glucose deprivation/reperfusion exposure. Neurobiology of Disease, 2020, 137, 104771.	2.1	12
1181	Zinc modulates synaptic transmission by differentially regulating synaptic glutamate homeostasis in hippocampus. European Journal of Neuroscience, 2020, 52, 3710-3722.	1.2	11
1182	Zinc oxide nanoparticles and l-carnitine effects on neuro-schistosomiasis mansoni induced in mice. Environmental Science and Pollution Research, 2020, 27, 18699-18707.	2.7	13
1183	Carnosine as a Possible Drug for Zinc-Induced Neurotoxicity and Vascular Dementia. International Journal of Molecular Sciences, 2020, 21, 2570.	1.8	16
1184	Peroxidase activity of heme bound amyloid β peptides associated with Alzheimer's disease. Chemical Communications, 2020, 56, 4505-4518.	2.2	19
1185	Zinc promotes liquid–liquid phase separation of tau protein. Journal of Biological Chemistry, 2020, 295, 5850-5856.	1.6	80
1186	Evaluation of nanomaterials to prevent oral Candidiasis in PMMA based denture wearing patients. A systematic analysis. Journal of Oral Biology and Craniofacial Research, 2020, 10, 189-193.	0.8	31
1187	A cyanobiphenyl-based ratiometric fluorescent sensor for highly selective and sensitive detection of Zn2+. Inorganica Chimica Acta, 2020, 508, 119652.	1.2	11
1188	A highly sensitive and selective chemosensors for detection of Zn2+ and its application in live cell imaging. Inorganica Chimica Acta, 2020, 509, 119675.	1.2	7
1189	Dual-functional chemical sensor for sensitive detection and bioimaging of Zn2+ and Pb2+ based on a water-soluble polymer. Organic Electronics, 2020, 82, 105711.	1.4	11
1190	Extracellular Zn2+-Dependent Amyloid-β1–42 Neurotoxicity in Alzheimer's Disease Pathogenesis. Biological Trace Element Research, 2021, 199, 53-61.	1.9	10
1191	Can Zn Be a Critical Element in COVID-19 Treatment?. Biological Trace Element Research, 2021, 199, 550-558.	1.9	100
1192	Biodegradable Zn–3Cu and Zn–3Cu–0.2Ti alloys with ultrahigh ductility and antibacterial ability for orthopedic applications. Journal of Materials Science and Technology, 2021, 68, 76-90.	5.6	38
1193	Recent research and progress of biodegradable zinc alloys and composites for biomedical applications: Biomechanical and biocorrosion perspectives. Bioactive Materials, 2021, 6, 836-879.	8.6	192
1194	Brain foods - the role of diet in brain performance and health. Nutrition Reviews, 2021, 79, 693-708.	2.6	21
1195	Insight into the corrosion behaviour and degradation mechanism of pure zinc in simulated body fluid. Corrosion Science, 2021, 178, 109071.	3.0	52
1196	Recent studies focusing on the development of fluorescence probes for zinc ion. Coordination Chemistry Reviews, 2021, 429, 213636.	9.5	77

#	Article	IF	CITATIONS
1197	Resorufin-based responsive probes for fluorescence and colorimetric analysis. Journal of Materials Chemistry B, 2021, 9, 53-79.	2.9	40
1198	The role of diurnal fluctuations in excitatory amino acid carrier 1 levels in post-ischemic hippocampal Zn2+ accumulation. Experimental Neurology, 2021, 336, 113538.	2.0	4
1199	Zn2+ion responsive fluorescent chemosensor probe of Thiophene-diocarbohydrazide derivatives. Inorganica Chimica Acta, 2021, 516, 120149.	1.2	12
1200	A Simple Isoniazid-Based N-Acylhydrazone Derivative as Potential Fluorogenic Probe for Zn2+ Ions. Journal of Fluorescence, 2021, 31, 175-184.	1.3	4
1201	A fast-response turn-on quinoline-based fluorescent probe for selective and sensitive detection of zinc (II) and its application. Microchemical Journal, 2021, 160, 105776.	2.3	19
1202	Pseudo wastewater treatment by combining adsorption and phytoaccumulation on the <i>Acrostichum aureum</i> Linn. plant/activated carbon system. International Journal of Phytoremediation, 2021, 23, 300-306.	1.7	6
1203	Cancellous bone-like porous Fe@Zn scaffolds with core-shell-structured skeletons for biodegradable bone implants. Acta Biomaterialia, 2021, 121, 665-681.	4.1	32
1204	AIE-based luminescence probes for metal ion detection. Coordination Chemistry Reviews, 2021, 429, 213693.	9.5	157
1205	Regional distribution of cytochrome c oxidase activity and copper in sclerotic hippocampi of epilepsy patients. Brain and Behavior, 2021, 11, e01986.	1.0	3
1206	A dual-response fluorescent probe for Al3+ and Zn2+ in aqueous medium based on benzothiazole and its application in living cells. Inorganica Chimica Acta, 2021, 516, 120147.	1.2	21
1207	Ultra-sensitive stripping SWV for determination of ertapenem via ZnONPs/MWCNT/CP sensor: Greenness assessment. Microchemical Journal, 2021, 162, 105752.	2.3	8
1208	ESIPT-AIE active Schiff base based on 2-(2′-hydroxyphenyl)benzo-thiazole applied as multi-functional fluorescent chemosensors. Dalton Transactions, 2021, 50, 3916-3922.	1.6	49
1209	<i>In vitro</i> degradation, biocompatibility and antibacterial properties of pure zinc: assessing the potential of Zn as a guided bone regeneration membrane. Journal of Materials Chemistry B, 2021, 9, 5114-5127.	2.9	22
1210	Biodegradable alloys. , 2021, , 189-228.		0
1211	The Role of 8-Amidoquinoline Derivatives as Fluorescent Probes for Zinc Ion Determination. Sensors, 2021, 21, 311.	2.1	24
1212	TRPM3 in Brain (Patho)Physiology. Frontiers in Cell and Developmental Biology, 2021, 9, 635659.	1.8	21
1213	Biodegradable Znâ^'3Mgâ^'0.7Mg2Si composite fabricated by high-pressure solidification for bone implant applications. Acta Biomaterialia, 2021, 123, 407-417.	4.1	30
1214	The Function and Regulation of Zinc in the Brain. Neuroscience, 2021, 457, 235-258.	1.1	67

#	ARTICLE	IF	CITATIONS
1215	Age-related vulnerability to nigral dopaminergic degeneration in rats via Zn2+-permeable GluR2-lacking AMPA receptor activation. NeuroToxicology, 2021, 83, 69-76.	1.4	8
1216	Redox-active nanoparticles for inflammatory bowel disease. Nano Research, 2021, 14, 2535-2557.	5.8	27
1217	A Mini Review of Antibacterial Properties of ZnO Nanoparticles. Frontiers in Physics, 2021, 9, .	1.0	233
1218	A facile gelator based on phenylalanine derivative is capable of forming fluorescent Zn-metallohydrogel, detecting Zn2+ in aqueous solutions and imaging Zn2+ in living cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 250, 119378.	2.0	3
1220	Theoretical, spectroscopic study about evaluation of trace elements (zinc and cadmium) µmol/L for pregnant women of age bearing during trimester. Materials Today: Proceedings, 2021, , .	0.9	0
1221	A 2-Hydroxy-1-naphthaldehyde Schiff Base for Turnâ€on Fluorescence Detection of Zn2+ Based on PET Mechanism. Journal of Fluorescence, 2021, 31, 971-979.	1.3	12
1222	Zinc Intake, Zinc Serum Levels, and Intelligence in School Children in Rural Areas. Open Access Macedonian Journal of Medical Sciences, 2021, 9, 394-397.	0.1	1
1223	Fluorescent sensor based on triphenylamine for Zn2+ with high selectivity and imaging in living cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 251, 119480.	2.0	11
1224	Stress management in aquaculture: a review of dietary interventions. Reviews in Aquaculture, 2021, 13, 2190-2247.	4.6	65
1225	A matter of concern – Trace element dyshomeostasis and genomic stability in neurons. Redox Biology, 2021, 41, 101877.	3.9	24
1226	Zinc, brain, behavior. Reviews on Clinical Pharmacology and Drug Therapy, 2021, 19, 23-35.	0.2	0
1227	The Effect of A Whey-Protein and Galacto-Oligosaccharides Based Product on Parameters of Sleep Quality, Stress, and Gut Microbiota in Apparently Healthy Adults with Moderate Sleep Disturbances: A Randomized Controlled Cross-Over Study. Nutrients, 2021, 13, 2204.	1.7	15
1228	Mechanisms of Metal-Induced Mitochondrial Dysfunction in Neurological Disorders. Toxics, 2021, 9, 142.	1.6	23
1229	Endogenous zinc protoporphyrin formation critically contributes to hemorrhagic stroke-induced brain damage. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 3232-3247.	2.4	2
1230	Responsive optical probes for deep-tissue imaging: Photoacoustics and second near-infrared fluorescence. Advanced Drug Delivery Reviews, 2021, 173, 141-163.	6.6	49
1232	A Novel Cu(II)-Binding Peptide Identified by Phage Display Inhibits Cu2+-Mediated AÎ ² Aggregation. International Journal of Molecular Sciences, 2021, 22, 6842.	1.8	14
1233	The effect of zinc supplementation on brain derived neurotrophic factor: A meta-analysis. Journal of Trace Elements in Medicine and Biology, 2021, 66, 126753.	1.5	9
1234	Extended sawhorse waveform for stable zinc detection with fast-scan cyclic voltammetry. Analytical and Bioanalytical Chemistry, 2021, 413, 6727-6735.	1.9	7

#	Article	IF	CITATIONS
1235	Fast Ion-Chelate Dissociation Rate for <i>In Vivo</i> MRI of Labile Zinc with Frequency-Specific Encodability. Journal of the American Chemical Society, 2021, 143, 11751-11758.	6.6	12
1236	Hybrid QM/MM Simulations Confirm Zn(II) Coordination Sphere That Includes Four Cysteines from the P2 × 4R Head Domain. International Journal of Molecular Sciences, 2021, 22, 7288.	1.8	1
1238	"Switch-on―fluorescence sensing platform based on porphyrin metal-organic frameworks for rapid and specific detection of zinc ion. Analytical and Bioanalytical Chemistry, 2021, 413, 5161-5168.	1.9	8
1239	Selenoprotein P Regulates Synaptic Zinc and Reduces Tau Phosphorylation. Frontiers in Nutrition, 2021, 8, 683154.	1.6	9
1240	Protective Role of Glutathione in the Hippocampus after Brain Ischemia. International Journal of Molecular Sciences, 2021, 22, 7765.	1.8	22
1242	Fluorescein Based Fluorescence Sensors for the Selective Sensing of Various Analytes. Journal of Fluorescence, 2021, 31, 1251-1276.	1.3	27
1243	Multistimuli Responsive Solid-State Emission of a Zinc(II) Complex with Multicolour Switching. Inorganic Chemistry, 2021, 60, 11609-11615.	1.9	21
1244	Zinc nutrition and dietary zinc supplements. Critical Reviews in Food Science and Nutrition, 2023, 63, 1277-1292.	5.4	20
1245	Influence of bovine serum albumin on corrosion behaviour of pure Zn in phosphate buffered saline. Journal of Materials Science: Materials in Medicine, 2021, 32, 95.	1.7	7
1246	Anion Effect on the Formation of Zincâ€Salicyaldimine Compounds in Neutral and Anionic Complex Forms: Synthesis, Characterization, 1 H NMR Studies, and Photophysical Properties. European Journal of Inorganic Chemistry, 2021, 2021, 3139-3147.	1.0	3
1247	A porphyrin platform for ratiometric fluorescence monitoring of Zn2+ ion. Sensors and Actuators B: Chemical, 2021, 340, 129997.	4.0	22
1248	Metallobiology and therapeutic chelation of biometals (copper, zinc and iron) in Alzheimer's disease: Limitations, and current and future perspectives. Journal of Trace Elements in Medicine and Biology, 2021, 67, 126779.	1.5	60
1249	Novel Benzothiazole-Based Highly Selective Ratiometric Fluorescent Turn-On Sensors for Zn ²⁺ and Colorimetric Chemosensors for Zn ²⁺ , Cu ²⁺ , and Ni ²⁺ lons. ACS Omega, 2021, 6, 24473-24483.	1.6	44
1250	Molecular fMRI of neurochemical signaling. Journal of Neuroscience Methods, 2021, 364, 109372.	1.3	7
1251	ZnCo2O4/ZnO nanocomposite: Facile one-step green solid-state thermal decomposition synthesis using Dactylopius Coccus as capping agent, characterization and its 4T1 cells cytotoxicity investigation and anticancer activity. Arabian Journal of Chemistry, 2021, 14, 103316.	2.3	14
1252	A highly selective turn-on fluorescent chemosensor for detecting zinc ions in living cells using symmetrical pyrene system. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 418, 113372.	2.0	21
1254	Zinc Status Index (ZSI) for Quantification of Zinc Physiological Status. Nutrients, 2021, 13, 3399.	1.7	7
1255	Red―and Farâ€Redâ€Emitting Zinc Probes with Minimal Phototoxicity for Multiplexed Recording of Orchestrated Insulin Secretion. Angewandte Chemie - International Edition, 2021, 6 <u>0, 25846-25855</u> .	7.2	12

#	Article	IF	CITATIONS
1256	Red―and Farâ€Redâ€Emitting Zinc Probes with Minimal Phototoxicity for Multiplexed Recording of Orchestrated Insulin Secretion. Angewandte Chemie, 2021, 133, 26050.	1.6	1
1257	Recording Temporal Signals with Minutes Resolution Using Enzymatic DNA Synthesis. Journal of the American Chemical Society, 2021, 143, 16630-16640.	6.6	12
1258	Fluorimetric and colorimetric detection of multianalytes Zn2+/Cd2+/Fâ^' ions via 5-bromosalicyl hydrazone appended pyrazole receptor; live cell imaging analysis in HeLa cells and zebra fish embryos. Inorganic Chemistry Communication, 2021, 132, 108843.	1.8	6
1259	Design of 99mTc-labeled zinc-chelating imaging probe for SPECT imaging of the pancreas. Bioorganic and Medicinal Chemistry Letters, 2021, 52, 128385.	1.0	0
1260	A highly selective and sensitive Zn2+ fluorescent sensor based on zinc finger-like peptide and its application in cell imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120042.	2.0	6
1261	Effect of Ca addition on the microstructure, mechanical properties and corrosion rate of degradable Zn-1Mg alloys. Journal of Alloys and Compounds, 2021, 887, 161255.	2.8	11
1262	Naked-eye detection and sustainable removal of zinc ions in water by a conjugated polymer with ratiometric absorption. Organic Electronics, 2021, 99, 106347.	1.4	4
1263	Molecular and Cellular Mechanisms of Ischemia-Induced Neuronal Death. , 2022, , 57-73.e6.		0
1264	A review on current research status of the surface modification of Zn-based biodegradable metals. Bioactive Materials, 2022, 7, 192-216.	8.6	72
1265	A photoacoustic Zn2+ sensor based on a merocyanine/xanthene-6-ol hybrid chromophore and its ratiometric imaging in mice. Inorganic Chemistry Frontiers, 0, , .	3.0	13
1266	Simultaneous Zn2+ tracking in multiple organelles using super-resolution morphology-correlated organelle identification in living cells. Nature Communications, 2021, 12, 109.	5.8	71
1267	Redox-Inactive Metalloproteins and Metalloenzymes. , 2021, , 878-899.		0
1268	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ²⁺ ions and its application in human lung cancer cells. Analytical Methods, 2021, 13, 3922-3929.	1.3	12
1269	Synthesis of fluorescent nanoprobe with simultaneous response to intracellular pH and Zn2+ for tumor cell distinguishment. Mikrochimica Acta, 2021, 188, 9.	2.5	6
1270	A New «off-on» Fluorescence Zinc Ion Sensors Based on Iodo- and Bromosubstituted Dipyrromethenes. Journal of Fluorescence, 2021, 31, 415-425.	1.3	5
1271	4.7 Ion Transport and Energy Metabolism. , 2007, , 429-465.		1
1272	Zinc Homeostasis and Brain Injury. , 2007, , 221-244.		1
1273	Zinc and Zinc Transport and Sequestration Proteins in the Brain in the Progression of Alzheimer's Disease. Advances in Neurobiology, 2011, , 669-693.	1.3	1

		CITATION R	EPORT	
#	Article		IF	CITATIONS
1274	Metal Ions in Stroke Pathophysiology. , 2012, , 1-12.			9
1275	A Zinc—Potassium Continuum in Neuronal Apoptosis. Contemporary Clinical Neuros 97-115.	cience, 2009, ,	0.3	1
1277	Modulation of Post-Stroke Plasticity and Regeneration by Stem Cell Therapy and Exoge Springer Series in Translational Stroke Research, 2018, , 129-152.	enic Factors.	0.1	4
1278	Zinc Signal in Brain Functions. , 2014, , 161-181.			2
1279	Zinc and Human Disease. Metal lons in Life Sciences, 2013, 13, 389-414.		2.8	85
1280	Regulation of Cellular Zinc Ions and Their Signaling Functions. , 2019, , 5-22.			7
1281	Zinc Signaling in theÂLife and Death of Neurons. , 2019, , 165-185.			1
1282	Influence of ZnO nanoparticle ratio and size on mechanical properties and whiteness of Portland Cement. Applied Nanoscience (Switzerland), 2020, 10, 3603-3615.	of White	1.6	15
1283	Metallothionein-3, Zinc, and Copper in the Central Nervous System. Metal lons in Life S 319-351.	Sciences, 2009, ,	1.0	7
1284	Zn2+-induced changes in Cav2.3 channel function: An electrophysiological and modeli Journal of General Physiology, 2020, 152, .	ng study.	0.9	6
1287	Mineral Micronutrient Status and Food Intake. , 2008, , 323-336.			1
1288	Metallothionein and Metal Homeostasis. , 2010, , 143-166.			2
1289	The Regulatory and Signaling Functions of Zinc Ions in Human Cellular Physiology. , 20)10, , 181-212.		4
1290	Novel zinc alloys for biodegradable surgical staples. World Journal of Clinical Cases, 20	20, 8, 504-516.	0.3	14
1291	The Nuclear Receptor HIZR-1 Uses Zinc as a Ligand to Mediate Homeostasis in Respon PLoS Biology, 2017, 15, e2000094.	se to High Zinc.	2.6	22
1292	Clioquinol Inhibits Zinc-Triggered Caspase Activation in the Hippocampal CA1 Region of Ischemic Gerbil Model. PLoS ONE, 2010, 5, e11888.	of a Global	1.1	24
1293	MTF-1-Mediated Repression of the Zinc Transporter Zip10 Is Alleviated by Zinc Restrict 2011, 6, e21526.	ion. PLoS ONE,	1.1	92
1294	The Zinc Dyshomeostasis Hypothesis of Alzheimer's Disease. PLoS ONE, 2012, 7, e335	52.	1.1	133

#	Article	IF	CITATIONS
1295	Chronic Zinc Exposure Decreases the Surface Expression of NR2A-Containing NMDA Receptors in Cultured Hippocampal Neurons. PLoS ONE, 2012, 7, e46012.	1.1	24
1296	High Dose Zinc Supplementation Induces Hippocampal Zinc Deficiency and Memory Impairment with Inhibition of BDNF Signaling. PLoS ONE, 2013, 8, e55384.	1.1	56
1297	An Engineered Palette of Metal Ion Quenchable Fluorescent Proteins. PLoS ONE, 2014, 9, e95808.	1.1	23
1298	Comparative Genomic Analysis of slc39a12/ZIP12: Insight into a Zinc Transporter Required for Vertebrate Nervous System Development. PLoS ONE, 2014, 9, e111535.	1.1	17
1299	Amyloid β-Mediated Zn2+ Influx into Dentate Granule Cells Transiently Induces a Short-Term Cognitive Deficit. PLoS ONE, 2014, 9, e115923.	1.1	33
1300	Zinc Levels Modulate Lifespan through Multiple Longevity Pathways in Caenorhabditis elegans. PLoS ONE, 2016, 11, e0153513.	1.1	33
1301	Context-Dependent Modulation of Excitatory Synaptic Strength by Synaptically Released Zinc. ENeuro, 2017, 4, ENEURO.0011-17.2017.	0.9	17
1302	Mechanisms Underlying Long-Term Synaptic Zinc Plasticity at Mouse Dorsal Cochlear Nucleus Glutamatergic Synapses. Journal of Neuroscience, 2020, 40, 4981-4996.	1.7	20
1303	DETERMINATION OF TRACE ZINC IN WATER, SOIL AND RABBIT BLOOD SAMPLES USING CLOUD POINT EXTRACTION COUPLED WITH ULTRAVIOLET-VISIBLE SPECTROPHOTOMETRY. Applied Ecology and Environmental Research, 2017, 15, 537-548.	0.2	8
1304	Influence of Metal Ions on Microtubules as a Possible Mechanism of Pathogenesis of Alzheimer′s Disease. Biomedical Chemistry Research and Methods, 2018, 1, e00050.	0.1	1
1307	Zinc-Permeable Ion Channels: Effects on Intracellular Zinc Dynamics and Potential Physiological/Pathophysiological Significance. Current Medicinal Chemistry, 2015, 22, 1248-1257.	1.2	49
1308	Advances in Electrochemistry for Monitoring Cellular Chemical Flux. Current Medicinal Chemistry, 2019, 26, 4984-5002.	1.2	1
1309	The Changing Landscape of Voltage-Gated Calcium Channels in Neurovascular Disorders and in Neurodegenerative Diseases. Current Neuropharmacology, 2013, 11, 276-297.	1.4	32
1310	Curcumin and its Derivatives: Their Application in Neuropharmacology and Neuroscience in the 21st Century. Current Neuropharmacology, 2013, 11, 338-378.	1.4	422
1311	Zinc in the Glutamatergic Theory of Depression. Current Neuropharmacology, 2015, 13, 505-513.	1.4	60
1312	Review: Cav2.3 R-type Voltage-Gated Ca2+ Channels - Functional Implications in Convulsive and Non-convulsive Seizure Activity. The Open Neurology Journal, 2016, 10, 99-126.	0.4	28
1313	Brain-Delivery of Zinc-Ions as Potential Treatment for Neurological Diseases: Mini Review. Drug Delivery Letters, 2011, 1, 13-23.	0.2	60
1314	Phenotype-Dependent Interactions between N-acetyl-L-Aspartate and Acetyl-CoA in Septal SN56 Cholinergic Cells Exposed to an Excess of Zinc. Journal of Alzheimer's Disease, 2017, 56, 1145-1158.	1.2	11
#	Article	IF	CITATIONS
------	--	-----	-----------
1316	Metal and complementary molecular bioimaging in Alzheimer's disease. Frontiers in Aging Neuroscience, 2014, 6, 138.	1.7	44
1317	Abnormal Levels of Metal Micronutrients and Autism Spectrum Disorder: A Perspective Review. Frontiers in Molecular Neuroscience, 2020, 13, 586209.	1.4	15
1318	Biological effects of zinc oxide nanoparticles on inflammation. Tang [humanitas Medicine], 2016, 6, 23.1-23.6.	0.2	1
1319	A Research on the Level of Zinc and Copper in the Hair of Students with Lower IQ. Zahedan Journal of Researches in Medical Sciences, 2017, 19, .	0.1	2
1320	Cell-specific gain modulation by synaptically released zinc in cortical circuits of audition. ELife, 2017, 6, .	2.8	38
1321	Role of Zinc in an Organism and Its Influence on Processes Leading to Apoptosis. British Journal of Medicine and Medical Research, 2011, 1, 239-305.	0.2	22
1322	Super-assembled silica nanoprobes for intracellular Zn(<scp>ii</scp>) sensing and reperfusion injury treatment through <i>in situ</i> MOF crystallization. Analyst, The, 2021, 146, 6788-6797.	1.7	5
1323	Amyloid \hat{I}^2 structural polymorphism, associated toxicity and therapeutic strategies. Cellular and Molecular Life Sciences, 2021, 78, 7185-7198.	2.4	7
1324	Dengue virus replication enhances labile zinc pools by modulation of ZIP8. Cellular Microbiology, 2021, 23, e13395.	1.1	2
1325	A Comprehensive Review on Thiophene Based Chemosensors. Journal of Fluorescence, 2022, 32, 19-56.	1.3	19
1326	Metal-phenolic networks modified polyurethane as periosteum for bone regeneration. Chinese Chemical Letters, 2022, 33, 1623-1626.	4.8	13
1327	A pair of transporters controls mitochondrial Zn2+ levels to maintain mitochondrial homeostasis. Protein and Cell, 2022, 13, 180-202.	4.8	26
1328	Synthesis, spectrophotometric, spectroscopic, microbial studies and analytical applications of Cu(II) and Zn(II) complexes of chalcone ligand. Chemical Papers, 2022, 76, 931-944.	1.0	2
1329	Possible Benefits of Zinc supplement in CVD and COVID-19 Comorbidity. Journal of Infection and Public Health, 2021, 14, 1686-1692.	1.9	9
1331	The Regulatory and Signaling Functions of Zinc lons in Human Cellular Physiology. , 2010, , 191-222.		1
1332	Dietary Zinc and the Brain. , 2011, , 2357-2373.		1
1333	Zinc Translocation Causes Hypoglycemia-Induced Neuron Death. , 0, , .		0
1334	Exploring the Zinc Metallome of Cultured Cortical Neurons Using Synchroton Radiation X-Ray Fluorescence Microscopy. , 2012, , 227-237.		3

	CITATION	Report	
#	Article	IF	Citations
1335	Metal ions and beta amyloid: conformational modifications and biological aspects. , 2012, , 77-83.		0
1336	A Photo-Induced Electron Transfer Based Chemosensor for the Selective Detection of Zn2+ Ions. Biochemistry and Analytical Biochemistry: Current Research, 2012, 02, .	0.4	0
1337	Different levels of MT-I/II between patients with MTLE with or without seizure generalization: does hippocampal MT-I/II affects seizure spread, or does seizure spread promotes differential expression of MT-I/II?. Journal of Epilepsy and Clinical Neurophysiology, 2012, 18, 16-20.	0.1	0
1338	Dietary Zinc Supplementation and Prenatal Ethanol Exposure. , 2013, , 155-180.		0
1339	Heavy Metals and White Matter Injury. , 2014, , 555-570.		0
1340	Diet and Immunosenescence. , 2014, , 285-293.		0
1341	Zinc Transport Proteins and Zinc Signaling. , 2014, , 27-53.		4
1342	Introduction: "Zinc Signalingâ€â€"The Blossoming Field of Zinc Biology. , 2014, , 1-5.		2
1343	Possibilities of Experimental Modulation of Senescence by Stimulation of Antiradical Defense. Journal of Biomedical Science and Engineering, 2015, 08, 237-245.	0.2	0
1344	Ernärung und Blut. , 2015, , 761-789.		0
1345	HUBUNGAN STATUS SENG (Zn) DENGAN INTELLIGENCE QUOTIENT (IQ) PADA ANAK USIA 9-11 TAHUN DI SDN GONDANG WONOGIRI. Journal of Nutrition College, 2015, 4, 119-125.	¹ 0.1	0
1347	Current Methods Used to Probe and Quantify Intracellular Total and Free Zn(II) Dynamics, and Subcellular Distribution in Cultured Neurons. Neuromethods, 2017, , 195-224.	0.2	0
1348	New Insight into Metallomics in Cognition. , 2017, , 315-339.		0
1349	Efecto de un quelante de zinc extracelular sobre el número de celulas ganglionares en retina de rata, y transportadores de taurina y de zinc en estas células. Acta Biologica Colombiana, 2017, 22, 15.	0.1	1
1350	19 Neurology and Nutrition. , 2017, , 419-438.		0
1351	IDENTIFICATION OF DIETARY INTAKE OF TRACE ELEMENTS AT THE EARLY STAGE PARKINSON'S DISEASE. Trace Elements in Medicine (Moscow), 2018, 19, 18-23.	0.0	0
1353	Role of Zinc Signaling in Mast Cell, Basophil, T Cell, and B Cell. , 2019, , 79-97.		0
1354	Zinc in Neurodegeneration. , 2019, , 201-228.		0

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#	Article	IF	CITATIONS
1355	Biodegradable shape memory alloys: Progress and prospects. Biomaterials, 2021, 279, 121215.	5.7	19
1356	Essential trace metals and their function in brain development. , 2020, , 43-60.		1
1357	Micro-nutrient related malnutrition and obesity in a university undergraduate population and implications for non-communicable diseases. Journal of Global Health Reports, 0, 4, .	1.0	0
1358	Intelligent demethylase-driven DNAzyme sensor for highly reliable metal-ion imaging in living cells. Chemical Science, 2021, 12, 15339-15346.	3.7	21
1359	Recent progress of subcellular-compartment-focused chemical proteomics. , 2022, , 217-247.		1
1360	Multi-stimuli-responsive Zn(<scp>ii</scp>)-Schiff base complexes adjusted by rotatable aromatic rings. Dalton Transactions, 2021, 50, 16803-16809.	1.6	5
1361	Examples in the detection of heavy metal ions based on surface-enhanced Raman scattering spectroscopy. Nanophotonics, 2021, 10, 4419-4445.	2.9	26
1362	Computer Simulations of Hippocampal Mossy Fiber Cleft Zinc Movements. , 0, , .		Ο
1365	Inhibition of human acid-sensing ion channel 1b by zinc. International Journal of Physiology, Pathophysiology and Pharmacology, 2012, 4, 84-93.	0.8	5
1366	Postpartum depression and role of serum trace elements. Iranian Journal of Psychiatry, 2010, 5, 40-6.	0.4	26
1367	Analysis of serum trace elements-copper, manganese and zinc in preeclamptic pregnant women by inductively coupled plasma optical emission spectrometry: a prospective case controlled study in Riyadh, Saudi Arabia. International Journal of Clinical and Experimental Pathology, 2014, 7, 1900-10.	0.5	20
1369	Intracellular zinc distribution in mitochondria, ER and the Golgi apparatus. International Journal of Physiology, Pathophysiology and Pharmacology, 2016, 8, 35-43.	0.8	43
1370	Zinc wave during the treatment of hypoxia is required for initial reactive oxygen species activation in mitochondria. International Journal of Physiology, Pathophysiology and Pharmacology, 2016, 8, 44-51.	0.8	10
1371	Enhanced Detection of Sub-Retinal Pigment Epithelial Cell Layer Deposits in Human and Murine Tissue: Imaging Zinc as a Biomarker for Age-Related Macular Degeneration (An American Ophthalmological) Tj ETQq1 1	0.71844314	rg & T /Overic
1372	TRPM7 is a unique target for therapeutic intervention of stroke. International Journal of Physiology, Pathophysiology and Pharmacology, 2017, 9, 211-216.	0.8	5
1373	Zinc is an Essential Element for Male Fertility: A Review of Zn Roles in Men's Health, Germination, Sperm Quality, and Fertilization. Journal of Reproduction and Infertility, 2018, 19, 69-81.	1.0	88
1374	Isoproterenol injected into the basolateral amygdala rescues amyloid β1-42-induced conditioned fear memory deficit via reducing intracellular Zn2+ toxicity. Neuroscience Letters, 2022, 766, 136353.	1.0	3
1375	Small Two-Photon Organic Fluorogenic Probes: Sensing and Bioimaging of Cancer Relevant Biomarkers. Analytical Chemistry, 2022, 94, 177-192.	3.2	35

#	Article	IF	CITATIONS
1376	Investigating Structural Property Relationships to Enable Repurposing of Pharmaceuticals as Zinc Ionophores. Pharmaceutics, 2021, 13, 2032.	2.0	3
1377	Polyphosphate degradation by Nudt3-Zn2+ mediates oxidative stress response. Cell Reports, 2021, 37, 110004.	2.9	18
1378	Metal ion chelation enhances tissue plasminogen activator (tPA)-induced thrombolysis: an in vitro and in vivo study. Journal of Thrombosis and Thrombolysis, 2021, , 1.	1.0	4
1379	Precise recognition of Zn(II) ions by a finely designed pair of α-NiS and β-NiS nanostructures: A sandwich mode recognition approach. Journal of Environmental Chemical Engineering, 2021, 9, 106837.	3.3	6
1380	A Schiff-based AIE fluorescent probe for Zn2+ detection and its application as "fluorescence paper-based indicatorâ€: Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 268, 120704.	2.0	11
1381	Advances on biodegradable zinc-silver-based alloys for biomedical applications. Journal of Applied Biomaterials and Functional Materials, 2021, 19, 228080002110624.	0.7	14
1382	Effect of grain size and volume fraction of eutectic structure on mechanical properties and corrosion behavior of as-cast Zn–Mg binary alloys. Journal of Materials Research and Technology, 2022, 16, 1673-1685.	2.6	42
1383	Synthesis, spectral characterization, crystal structures, biological activities, theoretical calculations and substitution effect of salicylidene ligand on the nature of mono and dinuclear Zn(II) Schiff base complexes. Polyhedron, 2022, 213, 115636.	1.0	30
1384	Phosphorescent iridium(III) complexes as lifetime-based biological sensors for photoluminescence lifetime imaging microscopy. Coordination Chemistry Reviews, 2022, 453, 214334.	9.5	44
1385	Schiff base as a fluorescent sensor derived from chromone moiety for the effective detection of Zn (II) ions. Journal of Molecular Structure, 2022, 1252, 132124.	1.8	13
1386	The enormity of the zinc deficiency problem and available solutions; an overview. Arabian Journal of Chemistry, 2022, 15, 103668.	2.3	40
1387	Unraveling the mechanism of tau protein aggregation in presence of zinc ion: The earliest step of tau aggregation. Chemical Physics Impact, 2022, 4, 100060.	1.7	2
1389	Nutrition and Brain Development. Current Topics in Behavioral Neurosciences, 2021, , 131-165.	0.8	2
1390	High Performance Nano Hydroxyapatite Coating on Zinc for Biomedical Applications. SSRN Electronic Journal, 0, , .	0.4	0
1391	Multivariate Assessment of Lipoxidative Metabolites, Trace Biometals, and Antioxidant and Detoxifying Activities in the Cerebrospinal Fluid Define a Fingerprint of Preclinical Stages of Alzheimer's Disease. Journal of Alzheimer's Disease, 2022, 86, 387-402.	1.2	3
1392	Easy, selective and colorimetric detection of Zn(II), Cu(II), Fâ^' ions by a new piperazine based Schiff base chemosensor along with molecular logic gate formation and live cell images study. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113817.	2.0	14
1393	Idiosyncatic recognition of Zn ²⁺ and CN ^{â^'} using pyrazolyl-hydroxy-coumarin scaffold and live cell imaging: depiction of luminescent Zn(<scp>ii</scp>)-metallocryptand. Dalton Transactions, 2022, 51, 3198-3212.	1.6	16
1394	Semax, a Synthetic Regulatory Peptide, Affects Copper-Induced Abeta Aggregation and Amyloid Formation in Artificial Membrane Models. ACS Chemical Neuroscience, 2022, 13, 486-496.	1.7	3

#	Article	IF	CITATIONS
1395	Molecular Probes, Chemosensors, and Nanosensors for Optical Detection of Biorelevant Molecules and Ions in Aqueous Media and Biofluids. Chemical Reviews, 2022, 122, 3459-3636.	23.0	171
1396	Bioengineered Zinc Oxide Nanoparticle-Loaded Hydrogel for Combinative Treatment of Spinal Cord Transection. Frontiers in Bioengineering and Biotechnology, 2021, 9, 796361.	2.0	8
1397	A review of the "metallome―within neurons and glia, as revealed by elemental mapping of brain tissue. BBA Advances, 2022, 2, 100038.	0.7	3
1398	Mechanical Study of Some Polystyrene composites modified with adding inorganic fillers. International Journal of Scientific Research and Management, 2021, 9, 711-714.	0.0	0
1399	Recent progress of novel biodegradable zinc alloys: from the perspective of strengthening and toughening. Journal of Materials Research and Technology, 2022, 17, 244-269.	2.6	46
1400	Responsive gadolinium(III) complex-based small molecule magnetic resonance imaging probes: Design, mechanism and application. Coordination Chemistry Reviews, 2022, 457, 214398.	9.5	19
1401	Pyranone based probe for the selective and specific recognition of zinc ions. Inorganica Chimica Acta, 2022, 534, 120828.	1.2	6
1402	Phage display derived peptides for Alzheimer's disease therapy and diagnosis. Theranostics, 2022, 12, 2041-2062.	4.6	31
1403	A new hemostatic agent composed of Zn2+-enriched Ca2+ alginate activates vascular endothelial cells in vitro and promotes tissue repair in vivo. Bioactive Materials, 2022, 18, 368-382.	8.6	10
1404	Synthesis a group of 5(6)â€substitutedbenzimidazole Zn(II) and Co(II) complexes and investigation their cytotoxic and antimicrobial activities. Journal of Heterocyclic Chemistry, 0, , .	1.4	4
1405	Effects of Sub-chronic Lead Exposure on Essential Element Levels in Mice. Biological Trace Element Research, 2023, 201, 282-293.	1.9	5
1406	Serum metabolic profiles and metal levels of patients with multiple sclerosis and patients with neuromyelitis optica spectrum disorders - NMR spectroscopy and ICP–MS studies. Multiple Sclerosis and Related Disorders, 2022, 60, 103672.	0.9	2
1407	Rapamycin Attenuated Zinc-Induced Tau Phosphorylation and Oxidative Stress in Rats: Involvement of Dual mTOR/p70S6K and Nrf2/HO-1 Pathways. Frontiers in Immunology, 2022, 13, 782434.	2.2	21
1408	Emodin Protects SH-SY5Y Cells Against Zinc-Induced Synaptic Impairment and Oxidative Stress Through the ERK1/2 Pathway. Frontiers in Pharmacology, 2022, 13, 821521.	1.6	9
1409	Nanoâ€enabled Tumor Systematic Energy Exhaustion via Zinc (II) Interference Mediated Glycolysis Inhibition and Specific GLUT1 Depletion. Advanced Science, 2022, 9, e2103534.	5.6	53
1410	Fabrication, in Vitro and in Vivo Properties of \hat{l} -Tcp/Zn Composites. SSRN Electronic Journal, 0, , .	0.4	0
1411	Zinc Ion Detection Using a Benzothiazole-Based Highly Selective Fluorescence "Turn-On― Chemosensor and its Real-Time Application. SSRN Electronic Journal, 0, , .	0.4	0
1412	Expression and Distribution of Free Zinc in Penile Erectile Tissue. World Journal of Men?s Health, 2023, 41, 155.	1.7	1

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#	Article	IF	CITATIONS
1413	Role of Zinc and Zinc Ionophores in Brain Health and Depression Especially during the COVID-19 Pandemic. , 0, , .		0
1414	Metalloproteomics for Biomedical Research: Methodology and Applications. Annual Review of Biochemistry, 2022, 91, 449-473.	5.0	16
1415	Organelle-Level Labile Zn ²⁺ Mapping Based on Targetable Fluorescent Sensors. ACS Sensors, 2022, 7, 748-757.	4.0	26
1416	Chemical Design of Activatable Photoacoustic Probes for Precise Biomedical Applications. Chemical Reviews, 2022, 122, 6850-6918.	23.0	94
1418	Relevance of biometals during neuronal differentiation and myelination: in vitro and in vivo studies. BioMetals, 2022, 35, 395-427.	1.8	6
1419	Colocalization of different neurotransmitter transporters on synaptic vesicles is sparse except for VGLUT1 and ZnT3. Neuron, 2022, 110, 1483-1497.e7.	3.8	28
1420	Mechanistic Impact of Zinc Deficiency in Human Development. Frontiers in Nutrition, 2022, 9, 717064.	1.6	29
1421	PTPRM Is Critical for Synapse Formation Regulated by Zinc Ion. Frontiers in Molecular Neuroscience, 2022, 15, 822458.	1.4	5
1422	L-cysteine modulates visceral nociception mediated by the CaV2.3 R-type calcium channels. Pflugers Archiv European Journal of Physiology, 2022, 474, 435-445.	1.3	5
1423	In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF). Applied Sciences (Switzerland), 2022, 12, 2727.	1.3	4
1424	Zinc enhances liquid-liquid phase separation of Tau protein and aggravates mitochondrial damages in cells. International Journal of Biological Macromolecules, 2022, 209, 703-715.	3.6	18
1425	A near infrared fluorescent probe for detection and bioimaging of zinc ions and hypochlorous acid. Analytica Chimica Acta, 2022, 1206, 339750.	2.6	26
1426	Pyrrole-pyridine chelating motif on the β-carboline skeleton: Selective Zn2+ sensing via inhibition of ESIPT. Dyes and Pigments, 2022, 202, 110238.	2.0	5
1427	Zinc alters behavioral phenotypes, neurotransmitter signatures, and immune homeostasis in male zebrafish (Danio rerio). Science of the Total Environment, 2022, 828, 154099.	3.9	5
1429	Serum concentration of zinc is elevated in clinically stable bipolar disorder patients. Brain and Behavior, 2022, 12, e2472.	1.0	2
1430	Evaluating effect of metallic ions on aggregation behavior of β-amyloid peptides by atomic force microscope and surface-enhanced Raman Scattering. BioMedical Engineering OnLine, 2021, 20, 132.	1.3	6
1431	Mechanism of Zn2+ and Ca2+ Binding to Human S100A1. Biomolecules, 2021, 11, 1823.	1.8	2
1432	Design, mechanical and degradation requirements of biodegradable metal mesh for pelvic floor reconstruction. Biomaterials Science, 2022, 10, 3371-3392.	2.6	6

#	Article	IF	CITATIONS
1433	In Vitro Degradability, Microstructural Evaluation, and Biocompatibility of Zn-Ti-Cu-Ca-P Alloy. Nanomaterials, 2022, 12, 1357.	1.9	8
1435	Promotive effects of four herbal medicine <scp>ARCC</scp> on wound healing in mice and human. Health Science Reports, 2022, 5, e494.	0.6	6
1436	Hydroxychloroquine Does Not Function as a Direct Zinc Ionophore. Pharmaceutics, 2022, 14, 899.	2.0	3
1450	Turn on Fluorescence Sensing of Zn2+ Based on Fused Isoindole-Imidazole Scaffold. Molecules, 2022, 27, 2859.	1.7	9
1451	A biodegradable Fe/Zn–3Cu composite with requisite properties for orthopedic applications. Acta Biomaterialia, 2022, 146, 506-521.	4.1	12
1452	Selection and preparation strategies of Mg-alloys and other biodegradable materials for orthopaedic applications: A review. Materials Today Communications, 2022, 31, 103658.	0.9	10
1453	A new tripodal 8-hydroxyquinoline as a high sensitivity fluorescence sensor for Zn(II) in ethanol and its two morphology in solid. Inorganic Chemistry Communication, 2022, 141, 109530.	1.8	2
1454	Quantitative imaging approaches to understanding biological processing of metal ions. Current Opinion in Chemical Biology, 2022, 69, 102152.	2.8	3
1455	Fabrication, in vitro and in vivo properties of \hat{l}^2 -TCP/Zn composites. Journal of Alloys and Compounds, 2022, 913, 165223.	2.8	6
1456	Development of moderately fluorescence active salen type chemosensor for judicious recognition and quantification of Zn(II), Al(III) and SO4=: Demonstration of molecular logic gate formation and live cell images studies. Journal of Molecular Structure, 2022, 1263, 133214.	1.8	5
1457	A New Benzoxazole-Based Fluorescent Macrocyclic Chemosensor for Optical Detection of Zn2+ and Cd2+. Chemosensors, 2022, 10, 188.	1.8	13
1458	Advances in Nanomaterial-Based Platforms to Combat COVID-19: Diagnostics, Preventions, Therapeutics, and Vaccine Developments. ACS Applied Bio Materials, 2022, 5, 2431-2460.	2.3	37
1459	Two near-infrared fluorescent probes based on dicyanoisfluorone for rapid monitoring of Zn ²⁺ and Pb ²⁺ . Methods and Applications in Fluorescence, 2022, 10, 035010.	1.1	5
1460	State-of-the-art accounts of hyperpolarized ¹⁵ N-labeled molecular imaging probes for magnetic resonance spectroscopy and imaging. Chemical Science, 2022, 13, 7378-7391.	3.7	15
1461	A new diformyl phenol based chemosensor selectively detects Zn ²⁺ and Co ²⁺ in the nanomolar range in 100% aqueous medium and HCT live cells. New Journal of Chemistry, 2022, 46, 11946-11955.	1.4	6
1462	Emerging Trends in Fluorescence Bioimaging of Divalent Metal Cations Using Smallâ€Molecule Indicators. Chemistry - A European Journal, 2022, 28, .	1.7	3
1463	An efficient turn-on fluorescence chemosensor system for Zn(II) ions detection and imaging in mitochondria. Journal of Photochemistry and Photobiology B: Biology, 2022, 234, 112485.	1.7	13
1465	Zinc in Regulating Protein Kinases and Phosphatases in Neurodegenerative Diseases. Biomolecules, 2022, 12, 785.	1.8	2

#	Article	IF	CITATIONS
1466	GWAS reveals heritable individual variations in the inherent swimming performance of juvenile large yellow croaker. Aquaculture, 2022, 559, 738419.	1.7	8
1467	Associação entre deficiência de zinco e declÃnio cognitivo em idosos da comunidade. Ciencia E Saude Coletiva, 2022, 27, 2805-2816.	0.1	5
1468	Association between zinc deficiency and cognitive decline in community-dwelling older adults. Ciencia E Saude Coletiva, 2022, 27, 2805-2816.	0.1	1
1469	A Brief Atlas of Insulin. Current Diabetes Reviews, 2022, 19, .	0.6	2
1470	Advances in Barrier Membranes for Guided Bone Regeneration Techniques. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	21
1471	Recent development in chemosensor probes for the detection and imaging of zinc ions: a systematic review. Chemical Papers, 2022, 76, 5997-6015.	1.0	14
1472	Impact of Zinc on Oxidative Signaling Pathways in the Development of Pulmonary Vasoconstriction Induced by Hypobaric Hypoxia. International Journal of Molecular Sciences, 2022, 23, 6974.	1.8	4
1473	The influence of zinc ions concentration on β-lactoglobulin structure – physicochemical properties of Zn–β-lactoglobulin complexes. Journal of Molecular Structure, 2022, 1268, 133745.	1.8	2
1474	Synthesis of Boron-Doped Zinc Oxide Nanosheets by Using Phyllanthus Emblica Leaf Extract: A Sustainable Environmental Applications. Frontiers in Chemistry, 0, 10, .	1.8	11
1475	DNA nanomachine activation and Zn2+ imaging in living cells with single NIR irradiation. Analytica Chimica Acta, 2022, 1221, 340149.	2.6	6
1476	Recent advances of luminescent sensors for iron and copper: Platforms, mechanisms, and bio-applications. Coordination Chemistry Reviews, 2022, 469, 214695.	9.5	32
1477	Essential Metals in the Brain and the Application of Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry for their Detection. Tropical Freshwater Biology, 2022, 36, 123-147.	0.1	1
1478	Zinc in Cognitive Impairment and Aging. Biomolecules, 2022, 12, 1000.	1.8	15
1479	Current understanding of the interactions between metal ions and Apolipoprotein E in Alzheimer's disease. Neurobiology of Disease, 2022, 172, 105824.	2.1	13
1480	Zn2+-enhanced Ru (II) photoluminescence directed by double-clamp structural ligand for selective Zn2+ sensing and live-cell imaging. Sensors and Actuators B: Chemical, 2022, 371, 132513.	4.0	2
1481	Ultrasound-Activated, Tumor-Specific <i>In Situ</i> Synthesis of a Chemotherapeutic Agent Using ZIF-8 Nanoreactors for Precision Cancer Therapy. ACS Nano, 2022, 16, 12403-12414.	7.3	18
1482	Critical Evaluation and Thermodynamic Optimization of the Cu-Zn, Cu-Se and Zn-Se Binary Systems. Metals, 2022, 12, 1401.	1.0	4
1483	Zinc Matrix Composites Reinforced with Partially Unzipped Carbon Nanotubes as Biodegradable Implant Materials. Crystals, 2022, 12, 1110.	1.0	4

#	Article	IF	CITATIONS
1484	Zinc chloride through N-Cadherin upregulation prevents the damage induced by silver nanoparticles in rat cerebellum. Journal of Nanoparticle Research, 2022, 24, .	0.8	0
1485	Naphthalene-based turn-on fluorescent probe for sensitively recognizing Zn ²⁺ . Molecular Crystals and Liquid Crystals, 2023, 755, 49-61.	0.4	3
1486	Behavioral and physiological toxicity thresholds of a freshwater vertebrate (Heteropneustes fossilis) and invertebrate (Branchiura sowerbyi), exposed to zinc oxide nanoparticles (nZnO): A General Unified Threshold model of Survival (GUTS). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 262, 109450.	1.3	7
1487	Why do febrile seizures involve specifically the developing brain?. , 2023, , 155-178.		Ο
1488	Investigating the photosensitivity of koneramines for cell imaging and therapeutic applications. Dalton Transactions, 2022, 51, 15659-15668.	1.6	1
1489	Recent advances on gold and silver nanoparticle-based colorimetric strategies for the detection of different substances and SARS-CoV-2: a comprehensive review. Environmental Science: Nano, 2022, 9, 3684-3710.	2.2	8
1490	Benzimidazole-acid hydrazide Schiff–Mannich combo ligands enable the nano-molar detection of Zn ²⁺ in semi-aqueous media, HuH-7 cells, and plants <i>via</i> a fluorescence turn-on mode. New Journal of Chemistry, 2022, 46, 16161-16171.	1.4	3
1491	Luminescence chemosensors, biological probes, and imaging reagents. , 2022, , .		Ο
1492	Exposure of metal toxicity in Alzheimer's disease: An extensive review. Frontiers in Pharmacology, 0, 13, .	1.6	13
1493	Binding interactions and sensing applications of chromone derived Schiff base chemosensors via absorption and emission studies: A comprehensive review. Inorganic Chemistry Communication, 2022, 146, 110026.	1.8	5
1494	Coumarinâ€based Chemosensors for Metal Ions Detection. Asian Journal of Organic Chemistry, 2022, 11, .	1.3	14
1495	Neuronal signalling of zinc: from detection and modulation to function. Open Biology, 2022, 12, .	1.5	9
1496	Copper (I) or (II) Replacement of the Structural Zinc Ion in the Prokaryotic Zinc Finger Ros Does Not Result in a Functional Domain. International Journal of Molecular Sciences, 2022, 23, 11010.	1.8	1
1497	Selective detection of metal ions, sulfites and glutathione with fluorescent pyrazolines: a review. Environmental Chemistry Letters, 2023, 21, 561-596.	8.3	9
1498	Familial ALS-associated <i>SFPQ</i> variants promote the formation of SFPQ cytoplasmic aggregates in primary neurons. Open Biology, 2022, 12, .	1.5	6
1499	Current Research on Zinc Oxide Nanoparticles: Synthesis, Characterization, and Biomedical Applications. Nanomaterials, 2022, 12, 3066.	1.9	66
1500	Two-photon fluorescent probes for quantitative bio-imaging analysis in live tissues. TrAC - Trends in Analytical Chemistry, 2022, 157, 116787.	5.8	17
1501	Restoration of the GTPase activity and cellular interactions of Gα _o mutants by Zn ²⁺ in <i>GNAO1</i> encephalopathy models. Science Advances, 2022, 8, .	4.7	18

#	Article	IF	CITATIONS
1502	Phase 1 First-in-Human Dose Escalation and Dose Expansion Study of KLS-1 (64Zinc Aspartate) in Patients With Cancer and Neurodegenerative Diseases. Cureus, 2022, , .	0.2	0
1503	Mechanical Properties and In Vitro Corrosion of Biodegradable Open-Cell Zn Alloy Foams. Journal of Materials Engineering and Performance, 0, , .	1.2	0
1504	Synthesis, "turn-on―fluorescence signals towards Zn ²⁺ and Hg ²⁺ and monoamine oxidase A inhibitory activity using a molecular docking approach of morpholine analogue Schiff base linked organosilanes. New Journal of Chemistry, 2022, 46, 21717-21729.	1.4	6
1505	Biodegradable Zn–Dy binary alloys with high strength, ductility, cytocompatibility, and antibacterial ability for bone-implant applications. Acta Biomaterialia, 2023, 155, 684-702.	4.1	11
1506	Recent Advances in Activatable ¹⁹ F Magnetic Resonance Imaging Nanoâ€Probes for the Detection of Biomarkers. Analysis & Sensing, 2023, 3, .	1.1	1
1507	Mapping the endogenous Zn2+ in situ during zebrafish embryogenesis by a fluorogenic sensor. Sensors and Actuators B: Chemical, 2023, 376, 132937.	4.0	7
1508	A fluorescent pH switch probe for the â€ [~] turn-on' dual-channel discriminative detection of magnesium and zinc ions. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 435, 114334.	2.0	18
1509	Whole Exome Sequencing Identifies a Heterozygous Variant in the Cav1.3 Gene CACNA1D Associated with Familial Sinus Node Dysfunction and Focal Idiopathic Epilepsy. International Journal of Molecular Sciences, 2022, 23, 14215.	1.8	6
1510	Phenanthroline-based ligand scaffold as an efficient colorimetric and ratiometric fluorescence probe for Zn2+ and Cd2+ ion detection. Inorganic Chemistry Communication, 2022, 146, 110187.	1.8	1
1511	<i>In-silico</i> and in-detail experimental interaction studies of new antitumor Zn(II) complex with CT-DNA and serum albumin. Journal of Biomolecular Structure and Dynamics, 2023, 41, 9614-9631.	2.0	4
1512	Changes in aggression and locomotor behaviors in response to zinc is accompanied by brain cell heterogeneity and metabolic and circadian dysregulation of the brain-liver axis. Ecotoxicology and Environmental Safety, 2022, 248, 114303.	2.9	1
1513	Synthesis, Characterization and Antimicrobial Activity of Nanochitosan and Chitosan Encapsulated Zinc Oxide Nanoparticles. Asian Journal of Chemistry, 2022, 34, 3313-3319.	0.1	0
1514	Solvent-regulated fluorescence off–on signaling of Ni(<scp>ii</scp>) and Zn(<scp>ii</scp>) with the formation of two mononuclear complexes with an ATP detection ability by Zn(<scp>ii</scp>) assembly. Analyst, The, 2023, 148, 594-608.	1.7	3
1515	Alternative Pharmacological Strategies for the Treatment of Alzheimer's Disease: Focus on Neuromodulator Function. Biomedicines, 2022, 10, 3064.	1.4	1
1516	Modular Engineering of DNAzyme-Based Sensors for Spatioselective Imaging of Metal Ions in Mitochondria. Journal of the American Chemical Society, 2023, 145, 1678-1685.	6.6	30
1517	Microstructures, mechanical and corrosion properties of graphene nanoplatelet–reinforced zinc matrix composites for implant applications. Acta Biomaterialia, 2023, 157, 701-719.	4.1	8
1518	The first trimester plasma copper-zinc ratio is independently related to pregnancy-specific psychological distress symptoms throughout pregnancy. Nutrition, 2023, 109, 111938.	1.1	1
1519	Fluorescence turnâ€off and turnâ€on sensors of Zn ²⁺ based on Ï€â€conjugated poly(aryleneethynylene)s comprising alloxazineâ€6,9â€diyl and 2,7â€diethynyleneâ€9,9â€dialkylfluorene units. Journal of Applied Polymer Science, 2023, 140, .	1.3	0

#	Article	IF	CITATIONS
1520	Cyclic dipeptideâ€based small molecules modulate zincâ€mediated liquid–liquid phase separation of tau. Journal of Peptide Science, 2023, 29, .	0.8	6
1521	Zinc Deficiency Exacerbates Behavioral Impediments and Dopaminergic Neuron Degeneration in a Mouse Model of Parkinson Disease. Journal of Nutrition, 2023, 153, 167-175.	1.3	1
1522	A fluorescent probe based on a phenylalanine derivative is capable of sequential detection of Zn2+ and Cys/His. Journal of Biological Inorganic Chemistry, 2023, 28, 205-211.	1.1	2
1523	Essential trace elements prevent the Impairment in the Retention Memory, cerebral cortex, and cerebellum damage in male rats exposed to quaternary metal mixture by up-regulation, of hmox-1 and down-regulation of Nrf2-NOs signaling pathways. Neuroscience, 2023, , .	1.1	2
1524	High performance nano hydroxyapatite coating on zinc for biomedical applications. Journal of Materials Science, 2023, 58, 740-756.	1.7	5
1525	Ethyl acetate fraction of Tamarindus indica leaf ameliorates aluminium chloride induced neural damage in neonatal Wistar rats. , 2023, 3, 100047.		2
1526	Selective and sensitive detection of Zn(II) in solution and nanofibers using phosphorescent iridium(III) complexes. Separation and Purification Technology, 2023, 309, 123040.	3.9	2
1527	The effect of dietary zinc and zinc physiological status on the composition of the gut microbiome <i>in vivo</i> . Critical Reviews in Food Science and Nutrition, 0, , 1-20.	5.4	7
1528	Effects of Cu Content on the Mechanical, Degradable, and Antibacterial Properties of the As-Cast Zn-3Al-xCu Alloys. Journal of Materials Engineering and Performance, 0, , .	1.2	0
1529	Pathophysiological Roles of Transient Receptor Potential (Trp) Channels and Zinc Toxicity in Brain Disease. International Journal of Molecular Sciences, 2023, 24, 6665.	1.8	1
1530	Influence of scandium on mechanical properties, degradation behavior, and cytocompatibility of Zn-3Cu-0.4Li-xSc alloys for implant applications. Materialia, 2023, 28, 101768.	1.3	2
1531	Fabrication of Supramolecular System Derived from Poly β-cyclodextrin Coupling Quinoline Dderivative and Its Fluorescence Sensing of Zinc Ion in Pure Water Environment. Journal of Fluorescence, 2023, 33, 2241-2252.	1.3	Ο
1532	Design, synthesis, experimental investigations, theoretical corroborations, and distinct applications of a futuristic fluorescence chemosensor for the unveiling of Zn2+ ions. Journal of Molecular Structure, 2023, 1281, 134991.	1.8	8
1533	Tumor microenvironment-triggered intratumoral in-situ biosynthesis of inorganic nanomaterials for precise tumor diagnostics. Coordination Chemistry Reviews, 2023, 484, 215115.	9.5	13
1534	Interfacial strengthening and antibacterial behavior in an ultrafine-grained Zn-Ag-based biocomposites fabricated by the Cu2O-induced in situ wetting approach. Journal of Materials Science and Technology, 2023, 152, 109-134.	5.6	4
1535	Luminescent lanthanide molecular materials as potential probes for the recognition of toxic and biologically important cations. Dyes and Pigments, 2023, 215, 111248.	2.0	5
1536	Neurodevelopmental Consequences of Dietary Zinc Deficiency: A Status Report. Biological Trace Element Research, 2023, 201, 5616-5639.	1.9	5
1537	å¥åº·ç¶æŒã«ä,啿¬ā‡ãfŸãfãf©ãf«ãf»äºœé‰›ã®æ©Ÿèf½ã,'探ã,‹. Kagaku To Seibutsu, 2022, 60, 22-29. 	0.0	0

#	Article	IF	CITATIONS
1538	Zinc Inhibits the GABAAR/ATPase during Postnatal Rat Development: The Role of Cysteine Residue. International Journal of Molecular Sciences, 2023, 24, 2764.	1.8	3
1539	Coordination Compounds of Cu, Zn, and Ni with Dicarboxylic Acids and N Donor Ligands, and Their Biological Activity: A Review. Molecules, 2023, 28, 1445.	1.7	5
1540	Sequential recognition capability of a novel flavin-dipicolyl analogue toward zinc and phosphate ion: A model capable of selective recognition of AMP over ADP/ATP. Dyes and Pigments, 2023, 212, 111148.	2.0	6
1541	Revisiting the Role of Vitamins and Minerals in Alzheimer's Disease. Antioxidants, 2023, 12, 415.	2.2	9
1542	Reactive oxygen species produced by Zn2+ influx after exposure to AMPA, but not NMDA and their capturing effect on nigral dopaminergic protection. NeuroToxicology, 2023, 95, 173-180.	1.4	1
1543	A genetically encoded far-red fluorescent indicator for imaging synaptically released Zn ²⁺ . Science Advances, 2023, 9, .	4.7	8
1544	Engineered multifunctional silk fibroin/gelatin hydrogel conduit loaded with miR-29a@ZIF-8 nanoparticles for peripheral nerve regeneration. Smart Materials in Medicine, 2023, 4, 480-492.	3.7	26
1545	Rational design of a genetically encoded NMR zinc sensor. Chemical Science, 2023, 14, 3809-3815.	3.7	1
1546	Vesicular Zinc Modulates Cell Proliferation and Survival in the Developing Hippocampus. Cells, 2023, 12, 880.	1.8	1
1548	A Timm-Nissl multiplane microscopic atlas of rat brain zincergic terminal fields and metal-containing glia. Scientific Data, 2023, 10, .	2.4	0
1549	Advances in the Detection of Metal Ions by Fluorescent Probes. Advances in Analytical Chemistry, 2023, 13, 97-104.	0.1	0
1550	Inorganic ion-sensitive imaging probes for biomedical applications. Chemical Communications, 2023, 59, 5807-5822.	2.2	2
1551	Conformation- and Coordination Mode-Dependent Stimuli-Responsive Salicylaldehyde Hydrazone Zn(II) Complexes. Inorganic Chemistry, 2023, 62, 6323-6331.	1.9	6
1552	Distribution of Copper, Iron, and Zinc in the Retina, Hippocampus, and Cortex of the Transgenic APP/PS1 Mouse Model of Alzheimer's Disease. Cells, 2023, 12, 1144.	1.8	3
1553	Subcellular Compartment-targeting Fluorescent Zn2+ Probes. , 2023, , 256-285.		2
1554	The Role of Glycogen Synthase Kinase-3β in the Zinc-Mediated Neuroprotective Effect of Metformin in Rats with Glutamate Neurotoxicity. Biological Trace Element Research, 2024, 202, 233-245.	1.9	2
1556	Considerations in production of the prokaryotic ZIP family transporters for structural and functional studies. Methods in Enzymology, 2023, , 1-30.	0.4	0
1577	Fluorescent dyes based on rhodamine derivatives for bioimaging and therapeutics: recent progress, challenges, and prospects. Chemical Society Reviews, 2023, 52, 5607-5651.	18.7	35

#	Article	IF	CITATIONS
1601	The Micronutrient Zinc in Human Health and Disease. , 2023, , 289-304.		0
1610	Cellular zinc metabolism and zinc signaling: from biological functions to diseases and therapeutic targets. Signal Transduction and Targeted Therapy, 2024, 9, .	7.1	0
1611	Research progress and perspective of metallic implant biomaterials for craniomaxillofacial surgeries. Biomaterials Science, 2024, 12, 252-269.	2.6	0
1623	Solid-state NMR spectroscopic analysis for structure determination of a zinc-bound catalytic amyloid fibril. Methods in Enzymology, 2024, , .	0.4	0