

# Hajo Haase

## List of Publications by Year in descending order

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138  
papers

8,407  
citations

57758

44  
h-index

49909

87  
g-index

141  
all docs

141  
docs citations

141  
times ranked

9367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc availability from zinc-enriched yeast studied with an in vitro digestion/Caco-2 cell culture model. <i>Journal of Trace Elements in Medicine and Biology</i> , 2022, 71, 126934.	3.0	12
2	Systematic Studies on the Antioxidant Capacity and Volatile Compound Profile of Yellow Mealworm Larvae ( <i>T. molitor</i> L.) under Different Drying Regimes. <i>Insects</i> , 2022, 13, 166.	2.2	10
3	Free Zinc as a Predictive Marker for COVID-19 Mortality Risk. <i>Nutrients</i> , 2022, 14, 1407.	4.1	20
4	Investigating copper levels via instrumental analytics and fluorescent dyes in <i>Caenorhabditis elegans</i> . <i>Lebensmittelchemie</i> , 2022, 76, .	0.0	0
5	Comparison of Free Zinc Levels Determined by Fluorescent Probes in THP1 Cells Using Microplate Reader and Flow Cytometer. <i>Biological Trace Element Research</i> , 2021, 199, 2414-2419.	3.5	8
6	Trace element profile and incidence of type 2 diabetes, cardiovascular disease and colorectal cancer: results from the EPIC-Potsdam cohort study. <i>European Journal of Nutrition</i> , 2021, 60, 3267-3278.	3.9	47
7	Arylphosphonate- $\pi$ -Tethered Porphyrins: Fluorescence Silencing Speaks a Metal Language in Living Enterocytes**. <i>ChemBioChem</i> , 2021, 22, 1925-1931.	2.6	3
8	Interactions of zinc- and redox-signaling pathways. <i>Redox Biology</i> , 2021, 41, 101916.	9.0	67
9	Cleaving Ergot Alkaloids by Hydrazinolysis—A Promising Approach for a Sum Parameter Screening Method. <i>Toxins</i> , 2021, 13, 342.	3.4	3
10	Ageing-associated effects of a long-term dietary modulation of four trace elements in mice. <i>Redox Biology</i> , 2021, 46, 102083.	9.0	7
11	The CRECHE study: testing the urban myth that chocolate Santa Clauses are re-wrapped Easter Bunnies. <i>Medical Journal of Australia</i> , 2021, 215, 531-535.	1.7	1
12	Impact of Media Heat Treatment on Cell Morphology and Stability of <i>L. acidophilus</i> , <i>L. johnsonii</i> and <i>L. delbrueckii</i> subsp. <i>delbrueckii</i> during Fermentation and Processing. <i>Fermentation</i> , 2020, 6, 94.	3.0	1
13	Ca-Zn-Ag Alginate Aerogels for Wound Healing Applications: Swelling Behavior in Simulated Human Body Fluids and Effect on Macrophages. <i>Polymers</i> , 2020, 12, 2741.	4.5	18
14	Dietary zinc enrichment reduces the cadmium burden of mealworm beetle ( <i>Tenebrio molitor</i> ) larvae. <i>Scientific Reports</i> , 2020, 10, 20033.	3.3	3
15	Zinc Deficiency Disturbs Mucin Expression, O-Glycosylation and Secretion by Intestinal Goblet Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6149.	4.1	27
16	Time- and Zinc-Related Changes in Biomechanical Properties of Human Colorectal Cancer Cells Examined by Atomic Force Microscopy. <i>Biology</i> , 2020, 9, 468.	2.8	1
17	Revised D-A-CH-reference values for the intake of zinc. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 61, 126536.	3.0	29
18	A Guide to Human Zinc Absorption: General Overview and Recent Advances of In Vitro Intestinal Models. <i>Nutrients</i> , 2020, 12, 762.	4.1	172

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19	Fluorescent Arylphosphonic Acids: Synergic Interactions between Bone and the Fluorescent Core. Chemistry - A European Journal, 2020, 26, 11129-11134.	3.3	9
20	Aging affects sex- and organ-specific trace element profiles in mice. Aging, 2020, 12, 13762-13790.	3.1	14
21	Alginate aerogels carrying calcium, zinc and silver cations for wound care: Fabrication and metal detection. Journal of Supercritical Fluids, 2019, 153, 104545.	3.2	40
22	A Zinpyr-1-based Fluorimetric Microassay for Free Zinc in Human Serum. International Journal of Molecular Sciences, 2019, 20, 4006.	4.1	31
23	Youâ€™d Better Zincâ€™Trace Element Homeostasis in Infection and Inflammation. Nutrients, 2019, 11, 2078.	4.1	28
24	Chitosan-modified silica sol applications for the treatment of textile fabrics: a view on hydrophilic, antistatic and antimicrobial properties. Journal of Sol-Gel Science and Technology, 2019, 91, 461-470.	2.4	21
25	Zn homeostasis in genetic models of Parkinsonâ€™s disease in Caenorhabditis elegans. Journal of Trace Elements in Medicine and Biology, 2019, 55, 44-49.	3.0	16
26	Alkali Phosphonate Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2019, 25, 11214-11217.	3.3	20
27	Effect of Different Drying Methods on Nutrient Quality of the Yellow Mealworm (Tenebrio molitor) Tj ETQq1 1 0.784314 rgBT/Overlo	2.2	75
28	Sarcosine is a prostate epigenetic modifier that elicits aberrant methylation patterns through the <sc>SAM</sc>â€™Dnmts axis. Molecular Oncology, 2019, 13, 1002-1017.	4.6	14
29	A short 18 items food frequency questionnaire biochemically validated to estimate zinc status in humans. Journal of Trace Elements in Medicine and Biology, 2018, 49, 285-295.	3.0	34
30	Innate Immune Cells Speak Manganese. Immunity, 2018, 48, 616-618.	14.3	30
31	Bioimaging of the elemental distribution in cocoa beans by means of LA-ICP-TQMS. Journal of Analytical Atomic Spectrometry, 2018, 33, 187-194.	3.0	15
32	Characterization of Caco-2 cells stably expressing the protein-based zinc probe eCalwy-5 as a model system for investigating intestinal zinc transport. Journal of Trace Elements in Medicine and Biology, 2018, 49, 296-304.	3.0	9
33	Mimicking cellular phospholipid bilayer packing creates predictable crystalline molecular metalâ€“organophosphonate macrocycles and cages. CrystEngComm, 2018, 20, 2152-2158.	2.6	6
34	The crux of inept biomarkers for risks and benefits of trace elements. TrAC - Trends in Analytical Chemistry, 2018, 104, 183-190.	11.4	39
35	Synthesis and Structural Identification of a Biaryl Ether-Linked Zearalenone Dimer. Molecules, 2018, 23, 2624.	3.8	0
36	Complexes of the Mycotoxins Citrinin and Ochratoxin A with Aluminum Ions and their Spectroscopic Properties. Toxins, 2018, 10, 538.	3.4	6

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37	In Vitro Studies on Zinc Binding and Buffering by Intestinal Mucins. International Journal of Molecular Sciences, 2018, 19, 2662.	4.1	25
38	Antimicrobial Coatings Obtained by Sol-Gel Method. , 2018, , 3461-3487.		2
39	The impact of apical and basolateral albumin on intestinal zinc resorption in the Caco-2/HT-29-MTX co-culture model. Metallomics, 2018, 10, 979-991.	2.4	17
40	Zinc and Sepsis. Nutrients, 2018, 10, 976.	4.1	56
41	Influencing the adhesion properties and wettability of mucin protein films by variation of the environmental pH. Scientific Reports, 2018, 8, 9660.	3.3	21
42	Toxicity Assay for Citrinin, Zearalenone and Zearalenone-14-Sulfate Using the Nematode Caenorhabditis elegans as Model Organism. Toxins, 2018, 10, 284.	3.4	17
43	Microwave Assisted Conversion of an Amino Acid into a Fluorescent Solution. Acta Chimica Slovenica, 2018, 65, 865-874.	0.6	1
44	Microwave Assisted Conversion of an Amino Acid Into a Fluorescent Solution. Acta Chimica Slovenica, 2018, 65, 865-874.	0.6	2
45	Polyvinylamine application for functionalization of polyethylene fiber materials. Journal of the Textile Institute, 2017, 108, 615-621.	1.9	5
46	Spatial mapping of metals in tissue-sections using combination of mass-spectrometry and histology through image registration. Scientific Reports, 2017, 7, 40169.	3.3	25
47	Electrochemical simulation of biotransformation reactions of citrinin and dihydroergocristine compared to UV irradiation and Fenton-like reaction. Analytical and Bioanalytical Chemistry, 2017, 409, 4037-4045.	3.7	8
48	Effect pigments for textile coating: a review of the broad range of advantageous functionalization. Journal of Coatings Technology Research, 2017, 14, 35-55.	2.5	28
49	Zinc chelation decreases IFN- $\gamma$ -induced STAT1 upregulation and iNOS expression in RAW 264.7 macrophages. Journal of Trace Elements in Medicine and Biology, 2017, 44, 76-82.	3.0	15
50	Hydroxylation and dimerization of zearalenone: comparison of chemical, enzymatic and electrochemical oxidation methods. World Mycotoxin Journal, 2017, 10, 297-307.	1.4	5
51	Persistent low serum zinc is associated with recurrent sepsis in critically ill patients - A pilot study. PLoS ONE, 2017, 12, e0176069.	2.5	51
52	Comparison of methods for determining the effectiveness of antibacterial functionalized textiles. PLoS ONE, 2017, 12, e0188304.	2.5	47
53	Zinc Signals and Immune Function. , 2017, , 261-271.		0
54	Immunotoxicity Monitoring in a Population Exposed to Polychlorinated Biphenyls. International Journal of Environmental Research and Public Health, 2016, 13, 295.	2.6	25

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55	Parameters Influencing Zinc in Experimental Systems in Vivo and in Vitro. Metals, 2016, 6, 71.	2.3	40
56	Zinc supplementation induces regulatory T cells by inhibition of Sirt6 deacetylase in mixed lymphocyte cultures. Molecular Nutrition and Food Research, 2016, 60, 661-671.	3.3	89
57	Lead ions abrogate lipopolysaccharide-induced nitric monoxide toxicity by reducing the expression of STAT1 and iNOS. Journal of Trace Elements in Medicine and Biology, 2016, 37, 117-124.	3.0	13
58	Zinc and immunity: An essential interrelation. Archives of Biochemistry and Biophysics, 2016, 611, 58-65.	3.0	221
59	Antimicrobial Coatings Obtained by Sol-Gel Method. , 2016, , 1-27.		3
60	Ethylmercury and Hg2+ induce the formation of neutrophil extracellular traps (NETs) by human neutrophil granulocytes. Archives of Toxicology, 2016, 90, 543-550.	4.2	33
61	Influence of DNA-methylation on zinc homeostasis in myeloid cells: Regulation of zinc transporters and zinc binding proteins. Journal of Trace Elements in Medicine and Biology, 2016, 37, 125-133.	3.0	18
62	Chelation of Free Zn2+ Impairs Chemotaxis, Phagocytosis, Oxidative Burst, Degranulation, and Cytokine Production by Neutrophil Granulocytes. Biological Trace Element Research, 2016, 171, 79-88.	3.5	66
63	The Synthetic Antimicrobial Peptide 19-2.5 Interacts with Heparanase and Heparan Sulfate in Murine and Human Sepsis. PLoS ONE, 2015, 10, e0143583.	2.5	39
64	Alterations in zinc binding capacity, free zinc levels and total serum zinc in a porcine model of sepsis. BioMetals, 2015, 28, 693-700.	4.1	28
65	Coating process for antimicrobial textile surfaces derived from a polyester dyeing process. Journal of Coatings Technology Research, 2015, 12, 1133-1141.	2.5	15
66	Immunologie für Einsteiger. , 2015, , .		10
67	N-cadherin-mediated cell adhesion is regulated by extracellular Zn2+. Metallomics, 2015, 7, 355-362.	2.4	15
68	The biochemical effects of extracellular Zn2+ and other metal ions are severely affected by their speciation in cell culture media. Metallomics, 2015, 7, 102-111.	2.4	74
69	Peptide 19-2.5 Inhibits Heparan Sulfate-Triggered Inflammation in Murine Cardiomyocytes Stimulated with Human Sepsis Serum. PLoS ONE, 2015, 10, e0127584.	2.5	31
70	Molekulare Immunologie. , 2015, , 89-100.		0
71	Comparison of the effects of xenon and sevoflurane anaesthesia on leucocyte function in surgical patients: a randomized trial – This article is accompanied by Editorial III.. British Journal of Anaesthesia, 2014, 112, 272-280.	3.4	24
72	Expression analysis following argon treatment in an in vivo model of transient middle cerebral artery occlusion in rats. Medical Gas Research, 2014, 4, 11.	2.3	27

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73	Coatings with metallic effect pigments for antimicrobial and conductive coating of textiles with electromagnetic shielding properties. <i>Journal of Coatings Technology Research</i> , 2014, 11, 943-957.	2.5	43
74	PTEN-inhibition by zinc ions augments interleukin-2-mediated Akt phosphorylation. <i>Metallomics</i> , 2014, 6, 1277.	2.4	59
75	Differential impact of zinc deficiency on phagocytosis, oxidative burst, and production of pro-inflammatory cytokines by human monocytes. <i>Metallomics</i> , 2014, 6, 1288.	2.4	73
76	Multiple impacts of zinc on immune function. <i>Metallomics</i> , 2014, 6, 1175.	2.4	168
77	Zinc signals and immune function. <i>BioFactors</i> , 2014, 40, 27-40.	5.4	218
78	Impact of Silver Nanoparticles and Silver Ions on Innate Immune Cells. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1146-1156.	1.1	44
79	An Element of Life: Competition for Zinc in Host-Pathogen Interaction. <i>Immunity</i> , 2013, 39, 623-624.	14.3	15
80	Differential Regulation of TLR-Dependent MyD88 and TRIF Signaling Pathways by Free Zinc Ions. <i>Journal of Immunology</i> , 2013, 191, 1808-1817.	0.8	109
81	Impact of lead and mercuric ions on the interleukin-2-dependent proliferation and survival of T cells. <i>Archives of Toxicology</i> , 2013, 87, 249-258.	4.2	19
82	Application of Zinpyr-1 for the investigation of zinc signals in <i>Escherichia coli</i> . <i>BioMetals</i> , 2013, 26, 167-177.	4.1	11
83	Zinc deficiency induces production of the proinflammatory cytokines IL-1 $\beta$ and TNF $\alpha$ in promyeloid cells via epigenetic and redox-dependent mechanisms. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 289-297.	4.2	114
84	Modification of algae with zinc, copper and silver ions for usage as natural composite for antibacterial applications. <i>Materials Science and Engineering C</i> , 2013, 33, 979-983.	7.3	26
85	Dendrimer stabilized silver particles for the antimicrobial finishing of textiles. <i>Journal of the Textile Institute</i> , 2013, 104, 1042-1048.	1.9	19
86	Zinc signals in neutrophil granulocytes are required for the formation of neutrophil extracellular traps. <i>Innate Immunity</i> , 2013, 19, 253-264.	2.4	89
87	Comparison of the effectiveness of different silver-containing textile products on bacteria and human cells. <i>Journal of the Textile Institute</i> , 2012, 103, 1262-1266.	1.9	20
88	Hydroxyl functional polyester dendrimers as stabilizing agent for preparation of colloidal silver particles—a study in respect to antimicrobial properties and toxicity against human cells. <i>Colloid and Polymer Science</i> , 2012, 290, 1413-1421.	2.1	14
89	Impact of allicin on macrophage activity. <i>Food Chemistry</i> , 2012, 134, 141-148.	8.2	21
90	The noble gas argon modifies extracellular signal-regulated kinase 1/2 signaling in neurons and glial cells. <i>European Journal of Pharmacology</i> , 2012, 674, 104-111.	3.5	64

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91	Zinc differentially regulates mitogen-activated protein kinases in human T cells. Journal of Nutritional Biochemistry, 2012, 23, 18-26.	4.2	38
92	Molekulare Immunologie. , 2012, , 105-118.		0
93	Einfluss auf das Immunsystem. , 2012, , 247-261.		1
94	Susceptibility to tuberculosis is associated with TLR1 polymorphisms resulting in a lack of TLR1 cell surface expression. Journal of Leukocyte Biology, 2011, 90, 377-388.	3.3	71
95	Impact of perfluorooctanesulfonate and perfluorooctanoic acid on human peripheral leukocytes. Toxicology in Vitro, 2011, 25, 960-968.	2.4	70
96	Preparation of Silver Nanoparticles Suitable for Textile Finishing Processes to Produce Textiles with Strong Antibacterial Properties against Different Bacteria Types. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2011, 66, 905-916.	0.7	14
97	Mercuric ions inhibit mitogen-activated protein kinase dephosphorylation by inducing reactive oxygen species. Toxicology and Applied Pharmacology, 2011, 250, 78-86.	2.8	17
98	Xenon Enhances LPS-Induced IL-1 $\beta$ Expression in Microglia via the Extracellular Signal-Regulated Kinase 1/2 Pathway. Journal of Molecular Neuroscience, 2011, 45, 48-59.	2.3	18
99	Zinc signals promote IL-2-dependent proliferation of T cells. European Journal of Immunology, 2010, 40, 1496-1503.	2.9	141
100	Das essenzielle Spurenelement Zink. Ein Metall in Biologie und Medizin. Biologie in Unserer Zeit, 2010, 40, 314-321.	0.2	5
101	Cellular zinc homeostasis is a regulator in monocyte differentiation of HL-60 cells by 1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> . Journal of Leukocyte Biology, 2010, 87, 833-844.	3.3	66
102	Cadmium ions promote monocytic differentiation of human leukemia HL-60 cells treated with 1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> . Biological Chemistry, 2010, 391, 1295-303.	2.5	8
103	Cadmium ions induce monocytic production of tumor necrosis factor-alpha by inhibiting mitogen activated protein kinase dephosphorylation. Toxicology Letters, 2010, 198, 152-158.	0.8	29
104	The Essential Toxin: Impact of Zinc on Human Health. International Journal of Environmental Research and Public Health, 2010, 7, 1342-1365.	2.6	1,047
105	The Regulatory and Signaling Functions of Zinc Ions in Human Cellular Physiology. , 2010, , 181-212.		4
106	T-Lymphocytes: A Target for Stimulatory and Inhibitory Effects of Zinc Ions. Endocrine, Metabolic and Immune Disorders - Drug Targets, 2009, 9, 132-144.	1.2	87
107	Zinc ions cause the thimerosal-induced signal of fluorescent calcium probes in lymphocytes. Cell Calcium, 2009, 45, 185-191.	2.4	22
108	The immune system and the impact of zinc during aging. Immunity and Ageing, 2009, 6, 9.	4.2	233

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109	The ligand environment of zinc stored in vesicles. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 198-203.	2.1	79
110	Functional Significance of Zinc-Related Signaling Pathways in Immune Cells. <i>Annual Review of Nutrition</i> , 2009, 29, 133-152.	10.1	274
111	Zinc as an Alternative Signal to Calcium. <i>FASEB Journal</i> , 2009, 23, LB408.	0.5	0
112	Effects of long-term zinc supplementation and deprivation on gene expression in human THP-1 mononuclear cells. <i>Journal of Trace Elements in Medicine and Biology</i> , 2008, 22, 325-336.	3.0	13
113	Modulating the immune response by oral zinc supplementation: a single approach for multiple diseases. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2008, 56, 15-30.	2.3	164
114	Partial oxidation and oxidative polymerization of metallothionein. <i>Electrophoresis</i> , 2008, 29, 4169-4176.	2.4	29
115	Zinc supplementation for the treatment or prevention of disease: Current status and future perspectives. <i>Experimental Gerontology</i> , 2008, 43, 394-408.	2.8	155
116	Zinc Signals Are Essential for Lipopolysaccharide-Induced Signal Transduction in Monocytes. <i>Journal of Immunology</i> , 2008, 181, 6491-6502.	0.8	247
117	Zinc-Dependent Suppression of TNF- $\alpha$ Production Is Mediated by Protein Kinase A-Induced Inhibition of Raf-1, I $\kappa$ B Kinase $\beta$ , and NF- $\kappa$ B. <i>Journal of Immunology</i> , 2007, 179, 4180-4186.	0.8	134
118	Zinc homeostasis and immunity. <i>Trends in Immunology</i> , 2007, 28, 1-4.	6.8	249
119	Differential Gene Expression after Zinc Supplementation and Deprivation in Human Leukocyte Subsets. <i>Molecular Medicine</i> , 2007, 13, 362-370.	4.4	43
120	Signal transduction in monocytes: the role of zinc ions. <i>BioMetals</i> , 2007, 20, 579-585.	4.1	127
121	Zinc and the Altered Immune System in the Elderly. , 2007, , 121-128.		0
122	Flow cytometric measurement of labile zinc in peripheral blood mononuclear cells. <i>Analytical Biochemistry</i> , 2006, 352, 222-230.	2.4	150
123	Correlation between zinc status and immune function in the elderly. <i>Biogerontology</i> , 2006, 7, 421-428.	3.9	137
124	Fluctuations of cellular, available zinc modulate insulin signaling via inhibition of protein tyrosine phosphatases. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 19, 37-42.	3.0	102
125	Protein Tyrosine Phosphatases as Targets of the Combined Insulinomimetic Effects of Zinc and Oxidants. <i>BioMetals</i> , 2005, 18, 333-338.	4.1	150
126	Zinc-Mediated Inhibition of Cyclic Nucleotide Phosphodiesterase Activity and Expression Suppresses TNF- $\alpha$ and IL-1 $\beta$ Production in Monocytes by Elevation of Guanosine 3',5'-Cyclic Monophosphate. <i>Journal of Immunology</i> , 2005, 175, 4697-4705.	0.8	140



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127	A differential assay for the reduced and oxidized states of metallothionein and thionein. Analytical Biochemistry, 2004, 333, 19-26.	2.4	47
128	Intracellular zinc fluctuations modulate protein tyrosine phosphatase activity in insulin/insulin-like growth factor-1 signaling. Experimental Cell Research, 2003, 291, 289-298.	2.6	246
129	Intracellular zinc distribution and transport in C6 rat glioma cells. Biochemical and Biophysical Research Communications, 2002, 296, 923-928.	2.1	85
130	Induction of apoptosis in mammalian cells by cadmium and zinc.. Environmental Health Perspectives, 2002, 110, 865-867.	6.0	104
131	Induction of Apoptosis in Mammalian Cells by Cadmium and Zinc. Environmental Health Perspectives, 2002, 110, 865-867.	6.0	100
132	Nitric Oxide Inhibits the Cochaperone Activity of the RING Finger-like Protein DnaJ. Nitric Oxide - Biology and Chemistry, 2001, 5, 289-295.	2.7	11
133	Zn <sup>2+</sup> and Cd <sup>2+</sup> increase the cyclic GMP level in PC12 cells by inhibition of the cyclic nucleotide phosphodiesterase. Toxicology, 2001, 157, 167-175.	4.2	42
134	Functions of zinc in signaling, proliferation and differentiation of mammalian cells. BioMetals, 2001, 14, 331-341.	4.1	531
135	Zinc Induces Apoptosis That Can Be Suppressed by Lanthanum in C6 Rat Glioma Cells. Biological Chemistry, 2001, 382, 1227-1234.	2.5	41
136	Functions of zinc in signaling, proliferation and differentiation of mammalian cells. , 2001, , 145-155.		5
137	Uptake and intracellular distribution of labile and total Zn(II) in C6 rat glioma cells investigated with fluorescent probes and atomic absorption. , 1999, 12, 247-254.		61
138	Serum Free Zinc Is Associated With Vaccination Response to SARS-CoV-2. Frontiers in Immunology, 0, 13, .	4.8	10