

# 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	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
2	Functions of zinc in signaling, proliferation and differentiation of mammalian cells. BioMetals, 2001, 14, 331-341.	4.1	531
3	Functional Significance of Zinc-Related Signaling Pathways in Immune Cells. Annual Review of Nutrition, 2009, 29, 133-152.	10.1	274
4	Zinc homeostasis and immunity. Trends in Immunology, 2007, 28, 1-4.	6.8	249
5	Zinc Signals Are Essential for Lipopolysaccharide-Induced Signal Transduction in Monocytes. Journal of Immunology, 2008, 181, 6491-6502.	0.8	247
6	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
7	The immune system and the impact of zinc during aging. Immunity and Ageing, 2009, 6, 9.	4.2	233
8	Zinc and immunity: An essential interrelation. Archives of Biochemistry and Biophysics, 2016, 611, 58-65.	3.0	221
9	Zinc signals and immune function. BioFactors, 2014, 40, 27-40.	5.4	218
10	A Guide to Human Zinc Absorption: General Overview and Recent Advances of In Vitro Intestinal Models. Nutrients, 2020, 12, 762.	4.1	172
11	Multiple impacts of zinc on immune function. Metallomics, 2014, 6, 1175.	2.4	168
12	Modulating the immune response by oral zinc supplementation: a single approach for multiple diseases. Archivum Immunologiae Et Therapiae Experimentalis, 2008, 56, 15-30.	2.3	164
13	Zinc supplementation for the treatment or prevention of disease: Current status and future perspectives. Experimental Gerontology, 2008, 43, 394-408.	2.8	155
14	Protein Tyrosine Phosphatases as Targets of the Combined Insulinomimetic Effects of Zinc and Oxidants. BioMetals, 2005, 18, 333-338.	4.1	150
15	Flow cytometric measurement of labile zinc in peripheral blood mononuclear cells. Analytical Biochemistry, 2006, 352, 222-230.	2.4	150
16	Zinc signals promote IL-2-dependent proliferation of T cells. European Journal of Immunology, 2010, 40, 1496-1503.	2.9	141
17	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. Journal of Immunology, 2005, 175, 4697-4705.	0.8	140
18	Correlation between zinc status and immune function in the elderly. Biogerontology, 2006, 7, 421-428.	3.9	137

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19	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
20	Signal transduction in monocytes: the role of zinc ions. <i>BioMetals</i> , 2007, 20, 579-585.	4.1	127
21	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
22	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
23	Induction of apoptosis in mammalian cells by cadmium and zinc.. <i>Environmental Health Perspectives</i> , 2002, 110, 865-867.	6.0	104
24	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
25	Induction of Apoptosis in Mammalian Cells by Cadmium and Zinc. <i>Environmental Health Perspectives</i> , 2002, 110, 865-867.	6.0	100
26	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
27	Zinc supplementation induces regulatory T cells by inhibition of Sirt6 deacetylase in mixed lymphocyte cultures. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 661-671.	3.3	89
28	T-Lymphocytes: A Target for Stimulatory and Inhibitory Effects of Zinc Ions. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2009, 9, 132-144.	1.2	87
29	Intracellular zinc distribution and transport in C6 rat glioma cells. <i>Biochemical and Biophysical Research Communications</i> , 2002, 296, 923-928.	2.1	85
30	The ligand environment of zinc stored in vesicles. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 198-203.	2.1	79
31	Effect of Different Drying Methods on Nutrient Quality of the Yellow Mealworm ( <i>Tenebrio molitor</i> ) Tj ETQq1 1 0.784314 rgBT/Overlo 2.2 75	2.2	75
32	The biochemical effects of extracellular Zn <sup>2+</sup> and other metal ions are severely affected by their speciation in cell culture media. <i>Metallomics</i> , 2015, 7, 102-111.	2.4	74
33	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
34	Susceptibility to tuberculosis is associated with TLR1 polymorphisms resulting in a lack of TLR1 cell surface expression. <i>Journal of Leukocyte Biology</i> , 2011, 90, 377-388.	3.3	71
35	Impact of perfluorooctanesulfonate and perfluorooctanoic acid on human peripheral leukocytes. <i>Toxicology in Vitro</i> , 2011, 25, 960-968.	2.4	70
36	Interactions of zinc- and redox-signaling pathways. <i>Redox Biology</i> , 2021, 41, 101916.	9.0	67

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37	Cellular zinc homeostasis is a regulator in monocyte differentiation of HL-60 cells by 1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> . <i>Journal of Leukocyte Biology</i> , 2010, 87, 833-844.	3.3	66
38	Chelation of Free Zn <sup>2+</sup> Impairs Chemotaxis, Phagocytosis, Oxidative Burst, Degranulation, and Cytokine Production by Neutrophil Granulocytes. <i>Biological Trace Element Research</i> , 2016, 171, 79-88.	3.5	66
39	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
40	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
41	PTEN-inhibition by zinc ions augments interleukin-2-mediated Akt phosphorylation. <i>Metallomics</i> , 2014, 6, 1277.	2.4	59
42	Zinc and Sepsis. <i>Nutrients</i> , 2018, 10, 976.	4.1	56
43	Persistent low serum zinc is associated with recurrent sepsis in critically ill patients - A pilot study. <i>PLoS ONE</i> , 2017, 12, e0176069.	2.5	51
44	A differential assay for the reduced and oxidized states of metallothionein and thionein. <i>Analytical Biochemistry</i> , 2004, 333, 19-26.	2.4	47
45	Comparison of methods for determining the effectiveness of antibacterial functionalized textiles. <i>PLoS ONE</i> , 2017, 12, e0188304.	2.5	47
46	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
47	Impact of Silver Nanoparticles and Silver Ions on Innate Immune Cells. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1146-1156.	1.1	44
48	Differential Gene Expression after Zinc Supplementation and Deprivation in Human Leukocyte Subsets. <i>Molecular Medicine</i> , 2007, 13, 362-370.	4.4	43
49	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
50	Zn <sup>2+</sup> and Cd <sup>2+</sup> increase the cyclic GMP level in PC12 cells by inhibition of the cyclic nucleotide phosphodiesterase. <i>Toxicology</i> , 2001, 157, 167-175.	4.2	42
51	Zinc Induces Apoptosis That Can Be Suppressed by Lanthanum in C6 Rat Glioma Cells. <i>Biological Chemistry</i> , 2001, 382, 1227-1234.	2.5	41
52	Parameters Influencing Zinc in Experimental Systems in Vivo and in Vitro. <i>Metals</i> , 2016, 6, 71.	2.3	40
53	Alginate aerogels carrying calcium, zinc and silver cations for wound care: Fabrication and metal detection. <i>Journal of Supercritical Fluids</i> , 2019, 153, 104545.	3.2	40
54	The Synthetic Antimicrobial Peptide 19-2.5 Interacts with Heparanase and Heparan Sulfate in Murine and Human Sepsis. <i>PLoS ONE</i> , 2015, 10, e0143583.	2.5	39

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55	The crux of inept biomarkers for risks and benefits of trace elements. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 183-190.	11.4	39
56	Zinc differentially regulates mitogen-activated protein kinases in human T cells. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 18-26.	4.2	38
57	A short 18 items food frequency questionnaire biochemically validated to estimate zinc status in humans. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 285-295.	3.0	34
58	Ethylmercury and Hg <sup>2+</sup> induce the formation of neutrophil extracellular traps (NETs) by human neutrophil granulocytes. <i>Archives of Toxicology</i> , 2016, 90, 543-550.	4.2	33
59	A Zinpyr-1-based Fluorimetric Microassay for Free Zinc in Human Serum. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4006.	4.1	31
60	Peptide 19-2.5 Inhibits Heparan Sulfate-Triggered Inflammation in Murine Cardiomyocytes Stimulated with Human Sepsis Serum. <i>PLoS ONE</i> , 2015, 10, e0127584.	2.5	31
61	Innate Immune Cells Speak Manganese. <i>Immunity</i> , 2018, 48, 616-618.	14.3	30
62	Partial oxidation and oxidative polymerization of metallothionein. <i>Electrophoresis</i> , 2008, 29, 4169-4176.	2.4	29
63	Cadmium ions induce monocytic production of tumor necrosis factor-alpha by inhibiting mitogen activated protein kinase dephosphorylation. <i>Toxicology Letters</i> , 2010, 198, 152-158.	0.8	29
64	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
65	Alterations in zinc binding capacity, free zinc levels and total serum zinc in a porcine model of sepsis. <i>BioMetals</i> , 2015, 28, 693-700.	4.1	28
66	Effect pigments for textile coating: a review of the broad range of advantageous functionalization. <i>Journal of Coatings Technology Research</i> , 2017, 14, 35-55.	2.5	28
67	Youâ€™d Better Zincâ€™Trace Element Homeostasis in Infection and Inflammation. <i>Nutrients</i> , 2019, 11, 2078.	4.1	28
68	Expression analysis following argon treatment in an in vivo model of transient middle cerebral artery occlusion in rats. <i>Medical Gas Research</i> , 2014, 4, 11.	2.3	27
69	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
70	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
71	Immunotoxicity Monitoring in a Population Exposed to Polychlorinated Biphenyls. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 295.	2.6	25
72	Spatial mapping of metals in tissue-sections using combination of mass-spectrometry and histology through image registration. <i>Scientific Reports</i> , 2017, 7, 40169.	3.3	25

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73	In Vitro Studies on Zinc Binding and Buffering by Intestinal Mucins. International Journal of Molecular Sciences, 2018, 19, 2662.	4.1	25
74	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
75	Zinc ions cause the thimerosal-induced signal of fluorescent calcium probes in lymphocytes. Cell Calcium, 2009, 45, 185-191.	2.4	22
76	Impact of allicin on macrophage activity. Food Chemistry, 2012, 134, 141-148.	8.2	21
77	Influencing the adhesion properties and wettability of mucin protein films by variation of the environmental pH. Scientific Reports, 2018, 8, 9660.	3.3	21
78	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
79	Comparison of the effectiveness of different silver-containing textile products on bacteria and human cells. Journal of the Textile Institute, 2012, 103, 1262-1266.	1.9	20
80	Alkali Phosphonate Metal-Organic Frameworks. Chemistry - A European Journal, 2019, 25, 11214-11217.	3.3	20
81	Free Zinc as a Predictive Marker for COVID-19 Mortality Risk. Nutrients, 2022, 14, 1407.	4.1	20
82	Impact of lead and mercuric ions on the interleukin-2-dependent proliferation and survival of T cells. Archives of Toxicology, 2013, 87, 249-258.	4.2	19
83	Dendrimer stabilized silver particles for the antimicrobial finishing of textiles. Journal of the Textile Institute, 2013, 104, 1042-1048.	1.9	19
84	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
85	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
86	Ca-Zn-Ag Alginate Aerogels for Wound Healing Applications: Swelling Behavior in Simulated Human Body Fluids and Effect on Macrophages. Polymers, 2020, 12, 2741.	4.5	18
87	Mercuric ions inhibit mitogen-activated protein kinase dephosphorylation by inducing reactive oxygen species. Toxicology and Applied Pharmacology, 2011, 250, 78-86.	2.8	17
88	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
89	Toxicity Assay for Citrinin, Zearalenone and Zearalenone-14-Sulfate Using the Nematode Caenorhabditis elegans as Model Organism. Toxins, 2018, 10, 284.	3.4	17
90	Zn homeostasis in genetic models of Parkinson's disease in Caenorhabditis elegans. Journal of Trace Elements in Medicine and Biology, 2019, 55, 44-49.	3.0	16

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91	An Element of Life: Competition for Zinc in Host-Pathogen Interaction. <i>Immunity</i> , 2013, 39, 623-624.	14.3	15
92	Coating process for antimicrobial textile surfaces derived from a polyester dyeing process. <i>Journal of Coatings Technology Research</i> , 2015, 12, 1133-1141.	2.5	15
93	N-cadherin-mediated cell adhesion is regulated by extracellular Zn <sup>2+</sup> . <i>Metallomics</i> , 2015, 7, 355-362.	2.4	15
94	Zinc chelation decreases IFN- $\gamma$ -induced STAT1 upregulation and iNOS expression in RAW 264.7 macrophages. <i>Journal of Trace Elements in Medicine and Biology</i> , 2017, 44, 76-82.	3.0	15
95	Bioimaging of the elemental distribution in cocoa beans by means of LA-ICP-TQMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 187-194.	3.0	15
96	Preparation of Silver Nanoparticles Suitable for Textile Finishing Processes to Produce Textiles with Strong Antibacterial Properties against Different Bacteria Types. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2011, 66, 905-916.	0.7	14
97	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
98	Sarcosine is a prostate epigenetic modifier that elicits aberrant methylation patterns through the SAM $\rightarrow$ DNMTs axis. <i>Molecular Oncology</i> , 2019, 13, 1002-1017.	4.6	14
99	Aging affects sex- and organ-specific trace element profiles in mice. <i>Aging</i> , 2020, 12, 13762-13790.	3.1	14
100	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
101	Lead ions abrogate lipopolysaccharide-induced nitric monoxide toxicity by reducing the expression of STAT1 and iNOS. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 37, 117-124.	3.0	13
102	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
103	Nitric Oxide Inhibits the Cochaperone Activity of the RING Finger-like Protein DnaJ. <i>Nitric Oxide - Biology and Chemistry</i> , 2001, 5, 289-295.	2.7	11
104	Application of Zinpyr-1 for the investigation of zinc signals in Escherichia coli. <i>BioMetals</i> , 2013, 26, 167-177.	4.1	11
105	<i>Immunologie für Einsteiger</i> . , 2015, , .		10
106	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
107	Serum Free Zinc Is Associated With Vaccination Response to SARS-CoV-2. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	10
108	Characterization of Caco-2 cells stably expressing the protein-based zinc probe eCalwy-5 as a model system for investigating intestinal zinc transport. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 296-304.	3.0	9

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109	Fluorescent Arylphosphonic Acids: Synergic Interactions between Bone and the Fluorescent Core. Chemistry - A European Journal, 2020, 26, 11129-11134.	3.3	9
110	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
111	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
112	Comparison of Free Zinc Levels Determined by Fluorescent Probes in THP1 Cells Using Microplate Reader and Flow Cytometer. Biological Trace Element Research, 2021, 199, 2414-2419.	3.5	8
113	Ageing-associated effects of a long-term dietary modulation of four trace elements in mice. Redox Biology, 2021, 46, 102083.	9.0	7
114	Mimicking cellular phospholipid bilayer packing creates predictable crystalline molecular metal-organophosphonate macrocycles and cages. CrystEngComm, 2018, 20, 2152-2158.	2.6	6
115	Complexes of the Mycotoxins Citrinin and Ochratoxin A with Aluminum Ions and their Spectroscopic Properties. Toxins, 2018, 10, 538.	3.4	6
116	Das essenzielle Spurenelement Zink. Ein Metall in Biologie und Medizin. Biologie in Unserer Zeit, 2010, 40, 314-321.	0.2	5
117	Polyvinylamine application for functionalization of polyethylene fiber materials. Journal of the Textile Institute, 2017, 108, 615-621.	1.9	5
118	Hydroxylation and dimerization of zearalenone: comparison of chemical, enzymatic and electrochemical oxidation methods. World Mycotoxin Journal, 2017, 10, 297-307.	1.4	5
119	Functions of zinc in signaling, proliferation and differentiation of mammalian cells. , 2001, , 145-155.		5
120	The Regulatory and Signaling Functions of Zinc Ions in Human Cellular Physiology. , 2010, , 181-212.		4
121	Antimicrobial Coatings Obtained by Sol-Gel Method. , 2016, , 1-27.		3
122	Dietary zinc enrichment reduces the cadmium burden of mealworm beetle (Tenebrio molitor) larvae. Scientific Reports, 2020, 10, 20033.	3.3	3
123	Arylphosphonate-Tethered Porphyrins: Fluorescence Silencing Speaks a Metal Language in Living Enterocytes**. ChemBioChem, 2021, 22, 1925-1931.	2.6	3
124	Cleaving Ergot Alkaloids by Hydrazinolysis-A Promising Approach for a Sum Parameter Screening Method. Toxins, 2021, 13, 342.	3.4	3
125	Antimicrobial Coatings Obtained by Sol-Gel Method. , 2018, , 3461-3487.		2
126	Microwave Assisted Conversion of an Amino Acid Into a Fluorescent Solution. Acta Chimica Slovenica, 2018, 65, 865-874.	0.6	2



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127	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
128	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
129	Einfluss auf das Immunsystem. , 2012, , 247-261.		1
130	Microwave Assisted Conversion of an Amino Acid into a Fluorescent Solution. <i>Acta Chimica Slovenica</i> , 2018, 65, 865-874.	0.6	1
131	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
132	Zinc Signals and Immune Function. , 2017, , 261-271.		0
133	Synthesis and Structural Identification of a Biaryl Ether-Linked Zearalenone Dimer. <i>Molecules</i> , 2018, 23, 2624.	3.8	0
134	Zinc as an Alternative Signal to Calcium. <i>FASEB Journal</i> , 2009, 23, LB408.	0.5	0
135	Molekulare Immunologie. , 2012, , 105-118.		0
136	Molekulare Immunologie. , 2015, , 89-100.		0
137	Zinc and the Altered Immune System in the Elderly. , 2007, , 121-128.		0
138	Investigating copper levels via instrumental analytics and fluorescent dyes in <i>Caenorhabditis elegans</i> . <i>Lebensmittelchemie</i> , 2022, 76, .	0.0	0