Thomas V O'halloran

List of Publications by Year
in descending order

162	17,516	10389	13379
papers	citations	72 h-index	130 g-index

165	165	165	15316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transition Metal Speciation in the Cell: Insights from the Chemistry of Metal Ion Receptors. Science, 2003, 300, 931-936.	12.6	1,032
2	Metallochaperones, an Intracellular Shuttle Service for Metal Ions. Journal of Biological Chemistry, 2000, 275, 25057-25060.	3.4	720
3	Molecular Basis of Metal-Ion Selectivity and Zeptomolar Sensitivity by CueR. Science, 2003, 301, 1383-1387.	12.6	598
4	The Independent cue and cusSystems Confer Copper Tolerance during Aerobic and Anaerobic Growth inEscherichia coli. Journal of Biological Chemistry, 2001, 276, 30670-30677.	3.4	492
5	Emission Ratiometric Imaging of Intracellular Zinc:Â Design of a Benzoxazole Fluorescent Sensor and Its Application in Two-Photon Microscopy. Journal of the American Chemical Society, 2004, 126, 712-713.	13.7	490
6	Function, Structure, and Mechanism of Intracellular Copper Trafficking Proteins. Annual Review of Biochemistry, 2001, 70, 677-701.	11.1	470
7	Activation of superoxide dismutases: Putting the metal to the pedal. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 747-758.	4.1	430
8	Conversion to the amyotrophic lateral sclerosis phenotype is associated with intermolecular linked insoluble aggregates of SOD1 in mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7142-7147.	7.1	393
9	A Role for the Saccharomyces cerevisiae ATX1 Gene in Copper Trafficking and Iron Transport. Journal of Biological Chemistry, 1997, 272, 9215-9220.	3.4	366
10	Structural basis for copper transfer by the metallochaperone for the Menkes/Wilson disease proteins. Nature Structural Biology, 2000, 7, 766-771.	9.7	352
11	Oxygen-induced maturation of SOD1: a key role for disulfide formation by the copper chaperone CCS. EMBO Journal, 2004, 23, 2872-2881.	7.8	319
12	Aqueous Coordination Chemistry of Quinoline-Based Fluorescence Probes for the Biological Chemistry of Zinc. Journal of the American Chemical Society, 1999, 121, 11448-11458.	13.7	314
13	Identification of a Copper-Responsive Two-Component System on the Chromosome of Escherichia coli K-12. Journal of Bacteriology, 2000, 182, 5864-5871.	2.2	299
14	The MerR heavy metal receptor mediates positive activation in a topologically novel transcription complex. Cell, 1989, 56, 119-129.	28.9	292
15	Transcriptional Activation of an Escherichia coliCopper Efflux Regulon by the Chromosomal MerR Homologue, CueR. Journal of Biological Chemistry, 2000, 275, 31024-31029.	3.4	288
16	Heterodimeric structure of superoxide dismutase in complex with its metallochaperone. Nature Structural Biology, 2001, 8, 751-755.	9.7	256
17	Metallochaperones and Metal-Transporting ATPases: A Comparative Analysis of Sequences and Structures. Genome Research, 2002, 12, 255-271.	5.5	232
18	Crystal structure of the Atx1 metallochaperone protein at 1.02 Ã... resolution. Structure, 1999, 7, 605-617.	3.3	229

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19	Amyotrophic Lateral Sclerosis Mutations Have the Greatest Destabilizing Effect on the Apo- and Reduced Form of SOD1, Leading to Unfolding and Oxidative Aggregation. Journal of Biological Chemistry, 2005, 280, 17266-17274.	3.4	224
20	The Unusually Stable Quaternary Structure of Human Cu,Zn-Superoxide Dismutase 1 Is Controlled by Both Metal Occupancy and Disulfide Status. Journal of Biological Chemistry, 2004, 279, 47998-48003.	3.4	223
21	Cu(I) recognition via cation-ï€ and methionine interactions in CusF. Nature Chemical Biology, 2008, 4, 107-109.	8.0	220
22	Polymer-Caged Lipsomes:â€‰ A pH-Responsive Delivery System with High Stability. Journal of the American Chemical Society, 2007, 129, 15096-15097.	13.7	219
23	Zinc availability regulates exit from meiosis in maturing mammalian oocytes. Nature Chemical Biology, 2010, 6, 674-681.	8.0	208
24	A place for thioether chemistry in cellular copper ion recognition and trafficking. Nature Chemical Biology, 2008, 4, 148-151.	8.0	204
25	Factors Controlling the Uptake of Yeast Copper/Zinc Superoxide Dismutase into Mitochondria. Journal of Biological Chemistry, 2003, 278, 28052-28059.	3.4	200
26	DNA-bend modulation in a repressor-to-activator switching mechanism. Nature, 1995, 374, 370-375.	27.8	195
27	Allosteric underwinding of DNA is a critical step in positive control of transcription by Hg-MerR. Nature, 1992, 355, 87-89.	27.8	194
28	Disulfide cross-linked protein represents a significant fraction of ALS-associated Cu, Zn-superoxide dismutase aggregates in spinal cords of model mice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7148-7153.	7.1	193
29	Polymer-Caged Nanobins for Synergistic Cisplatinâ"Doxorubicin Combination Chemotherapy. Journal of the American Chemical Society, 2010, 132, 17130-17138.	13.7	190
30	Quantitative mapping of zinc fluxes in the mammalian egg reveals the origin of fertilization-induced zinc sparks. Nature Chemistry, 2015, 7, 130-139.	13.6	185
31	Zinc Sparks Are Triggered by Fertilization and Facilitate Cell Cycle Resumption in Mammalian Eggs. ACS Chemical Biology, 2011, 6, 716-723.	3.4	184
32	DNA Distortion Mechanism for Transcriptional Activation by ZntR, a Zn(II)-responsive MerR Homologue in Escherichia coli. Journal of Biological Chemistry, 1999, 274, 37517-37524.	3.4	183
33	Complete Loss of Post-translational Modifications Triggers Fibrillar Aggregation of SOD1 in the Familial Form of Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2008, 283, 24167-24176.	3.4	179
34	Crystal structure of the copper chaperone for superoxide dismutase. Nature Structural Biology, 1999, 6, 724-729.	9.7	175
35	Solution Structure of the Cu(I) and Apo Forms of the Yeast Metallochaperone, Atx1â€,â€¡. Biochemistry, 2001, 40, 1528-1539.	2.5	172
36	Energetics of Copper Trafficking between the Atx1 Metallochaperone and the Intracellular Copper Transporter, Ccc2. Journal of Biological Chemistry, 2000, 275, 18611-18614.	3.4	163

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37	Multiple Protein Domains Contribute to the Action of the Copper Chaperone for Superoxide Dismutase. Journal of Biological Chemistry, 1999, 274, 23719-23725.	3.4	158
38	De NovoDesign of Mercury-Binding Two- and Three-Helical Bundles. Journal of the American Chemical Society, 1997, 119, 6195-6196.	13.7	157
39	Tetrathiomolybdate Inhibits Copper Trafficking Proteins Through Metal Cluster Formation. Science, 2010, 327, 331-334.	12.6	151
40	Folate-mediated intracellular drug delivery increases the anticancer efficacy of nanoparticulate formulation of arsenic trioxide. Molecular Cancer Therapeutics, 2009, 8, 1955-1963.	4.1	150
41	A physical sciences network characterization of non-tumorigenic and metastatic cells. Scientific Reports, 2013, 3, 1449.	3.3	146
42	Structure-Function Analyses of the ATX1 Metallochaperone. Journal of Biological Chemistry, 1999, 274, 15041-15045.	3.4	137
43	The Ferric Uptake Regulation (Fur) Repressor Is a Zinc Metalloprotein. Biochemistry, 1999, 38, 6559-6569.	2.5	136
44	Oxygen and the copper chaperone CCS regulate posttranslational activation of Cu,Zn superoxide dismutase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5518-5523.	7.1	134
45	Air Oxidation of a Five-Coordinate Mn(III) Dimer to a High-Valent Oxomanganese(V) Complex. Journal of the American Chemical Society, 1994, 116, 7431-7432.	13.7	132
46	Characterization of the Binding Interface between the Copper Chaperone Atx1 and the First Cytosolic Domain of Ccc2 ATPase. Journal of Biological Chemistry, 2001, 276, 41365-41376.	3.4	132
47	A New Zincâ€“protein Coordination Site in Intracellular Metal Trafficking: Solution Structure of the Apo and Zn(II) forms of ZntA(46â€“118). Journal of Molecular Biology, 2002, 323, 883-897.	4.2	132
48	Solution Structure of the Yeast Copper Transporter Domain Ccc2a in the Apo and Cu(I)-loaded States. Journal of Biological Chemistry, 2001, 276, 8415-8426.	3.4	122
49	Posttranslational Modifications in Cu,Zn-Superoxide Dismutase and Mutations Associated with Amyotrophic Lateral Sclerosis. Antioxidants and Redox Signaling, 2006, 8, 847-867.	5.4	121
50	DNA distortion accompanies transcriptional activation by the metal-responsive gene-regulatory protein MerR. Biochemistry, 1990, 29, 4747-4751.	2.5	119
51	Trigonal mercuric complex of an aliphatic thiolate: a spectroscopic and structural model for the receptor site in the mercury(II) biosensor MerR. Journal of the American Chemical Society, 1990, 112, 2824-2826.	13.7	118
52	Metallothionein Is Part of a Zinc-scavenging Mechanism for Cell Survival under Conditions of Extreme Zinc Deprivation. Journal of Biological Chemistry, 1999, 274, 9183-9192.	3.4	118
53	Allosteric transcriptional regulation via changes in the overall topology of the core promoter. Science, 2015, 349, 877-881.	12.6	118
54	Molecular Pathways: Revisiting Glycogen Synthase Kinase-3Î² as a Target for the Treatment of Cancer. Clinical Cancer Research, 2017, 23, 1891-1897.	7.0	113

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55	A Novel Nanoparticulate Formulation of Arsenic Trioxide with Enhanced Therapeutic Efficacy in a Murine Model of Breast Cancer. Clinical Cancer Research, 2010, 16, 3607-3617.	7.0	109
56	Characterization of the Metal Receptor Sites inEscherichia coliZur, an Ultrasensitive Zinc(II) Metalloregulatory Proteinâ€. Biochemistry, 2001, 40, 10417-10423.	2.5	106
57	Lipid Encapsulation of Arsenic Trioxide Attenuates Cytotoxicity and Allows for Controlled Anticancer Drug Release. Journal of the American Chemical Society, 2006, 128, 13348-13349.	13.7	105
58	Mechanism of Cu,Zn-Superoxide Dismutase Activation by the Human Metallochaperone hCCS. Journal of Biological Chemistry, 2001, 276, 5166-5176.	3.4	104
59	Structural and Mechanistic Basis of Zinc Regulation Across the E. coli Zur Regulon. PLoS Biology, 2014, 12, e1001987.	5.6	97
60	Heterodimer Formation between Superoxide Dismutase and Its Copper Chaperone. Biochemistry, 2000, 39, 14720-14727.	2.5	93
61	Accumulation of cadmium in insulin-producing Î² cells. Islets, 2012, 4, 405-416.	1.8	93
62	Spectroscopy of Cu(II)-PcoC and the Multicopper Oxidase Function of PcoA, Two Essential Components ofEscherichia coli pcoCopper Resistance Operonâ€. Biochemistry, 2002, 41, 10046-10055.	2.5	92
63	Crystal Structure of the Second Domain of the Human Copper Chaperone for Superoxide Dismutaseâ€,â€¡. Biochemistry, 2000, 39, 1589-1595.	2.5	91
64	The zinc spark is an inorganic signature of human egg activation. Scientific Reports, 2016, 6, 24737.	3.3	91
65	Coordination chemistry of the Hg-MerR metalloregulatory protein: evidence for a novel tridentate mercury-cysteine receptor site. Journal of the American Chemical Society, 1990, 112, 2434-2435.	13.7	90
66	Overproduction, purification, and characterization of chlorocatechol dioxygenase, a non-heme iron dioxygenase with broad substrate tolerance. Biochemistry, 1991, 30, 7349-7358.	2.5	90
67	â€œClickableâ€•Polymer-Caged Nanobins as a Modular Drug Delivery Platform. Journal of the American Chemical Society, 2009, 131, 9311-9320.	13.7	88
68	Extreme Zinc-Binding Thermodynamics of the Metal Sensor/Regulator Protein, ZntR. Journal of the American Chemical Society, 2001, 123, 8614-8615.	13.7	87
69	A Zinc-Dependent Mechanism Regulates Meiotic Progression in Mammalian Oocytes1. Biology of Reproduction, 2012, 86, 114.	2.7	84
70	Development of Novel Therapeutics Targeting the Urokinase Plasminogen Activator Receptor (uPAR) and Their Translation Toward the Clinic. Current Pharmaceutical Design, 2011, 17, 1970-1978.	1.9	82
71	Anticancer Activity of Small-Molecule and Nanoparticulate Arsenic(III) Complexes. Inorganic Chemistry, 2013, 52, 12292-12304.	4.0	81
72	Patient-Derived Tumor Xenografts Are Susceptible to Formation of Human Lymphocytic Tumors. Neoplasia, 2015, 17, 735-741.	5.3	79

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73	Zinc Requirement During Meiosis Iâ€“Meiosis II Transition in Mouse Oocytes Is Independent of the MOS-MAPK Pathway1. Biology of Reproduction, 2011, 84, 526-536.	2.7	77
74	Physicochemical mechanotransduction alters nuclear shape and mechanics via heterochromatin formation. Molecular Biology of the Cell, 2019, 30, 2320-2330.	2.1	77
75	Mercury(II)-Thiolate Chemistry and the Mechanism of the Heavy Metal Biosensor MerR. Progress in Inorganic Chemistry, 2007, , 323-412.	3.0	74
76	Zinc sparks induce physiochemical changes in the egg zona pellucida that prevent polyspermy. Integrative Biology (United Kingdom), 2017, 9, 135-144.	1.3	72
77	[4] Biochemical and spectroscopic probes of mercury(II) coordination environments in proteins. Methods in Enzymology, 1993, 226, 71-97.	1.0	70
78	Biological Evaluation of pH-Responsive Polymer-Caged Nanobins for Breast Cancer Therapy. ACS Nano, 2010, 4, 4971-4978.	14.6	70
79	Coencapsulation of Arsenicâ€•and Platinumâ€based Drugs for Targeted Cancer Treatment. Angewandte Chemie - International Edition, 2009, 48, 9295-9299.	13.8	69
80	Evolution of a heavy metal homeostasis/resistance island reflects increasing copper stress in Enterobacteria. Genome Biology and Evolution, 2016, 8, evw031.	2.5	68
81	Nano-Encapsulation of Arsenic Trioxide Enhances Efficacy against Murine Lymphoma Model while Minimizing Its Impact on Ovarian Reserve In Vitro and In Vivo. PLoS ONE, 2013, 8, e58491.	2.5	63
82	Role of CTR4 in the Virulence of Cryptococcus neoformans. MBio, 2012, 3, .	4.1	61
83	The PcoC Copper Resistance Protein Coordinates Cu(I) via Novel S-Methionine Interactions. Journal of the American Chemical Society, 2003, 125, 342-343.	13.7	60
84	Fluxes in â€œFreeâ€•and Total Zinc Are Essential for Progression of Intraerythrocytic Stages of Plasmodium falciparum. Chemistry and Biology, 2012, 19, 731-741.	6.0	60
85	GSK-3 inhibition overcomes chemoresistance in human breast cancer. Cancer Letters, 2016, 380, 384-392.	7.2	55
86	An Atypical Linear Cu(I)â^'S2Center Constitutes the High-Affinity Metal-Sensing Site in the CueR Metalloregulatory Protein. Journal of the American Chemical Society, 2003, 125, 12088-12089.	13.7	54
87	Modular Polymerâ€Caged Nanobins as a Theranostic Platform with Enhanced Magnetic Resonance Relaxivity and pHâ€Responsive Drug Release. Angewandte Chemie - International Edition, 2010, 49, 9960-9964.	13.8	53
88	The fertilization-induced zinc spark is a novel biomarker of mouse embryo quality and early development. Scientific Reports, 2016, 6, 22772.	3.3	52
89	Robust Structure and Reactivity of Aqueous Arsenous Acidâ€“Platinum(II) Anticancer Complexes. Angewandte Chemie - International Edition, 2013, 52, 10749-10752.	13.8	51
90	The 199Hg Chemical Shift as a Probe of Coordination Environments in Blue Copper Proteins. Inorganic Chemistry, 1995, 34, 2497-2498.	4.0	48

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91	Triggered Release of Pharmacophores from [Ni(HAsO₃)]-Loaded Polymer-Caged Nanobin Enhances Pro-apoptotic Activity: A Combined Experimental and Theoretical Study. ACS Nano, 2011, 5, 3961-3969.	14.6	48
92	Acute cytokine-mediated downregulation of the zinc transporter ZnT8 alters pancreatic Î²-cell function. Journal of Endocrinology, 2010, 206, 159-169.	2.6	47
93	Macrogenomic engineering via modulation of the scaling of chromatin packing density. Nature Biomedical Engineering, 2017, 1, 902-913.	22.5	47
94	Copper Stabilizes a Heterodimer of the yCCS Metallochaperone and Its Target Superoxide Dismutase. Journal of Biological Chemistry, 2001, 276, 38410-38416.	3.4	45
95	Solid-state mercury-199 nuclear magnetic resonance as a probe of coordination number and geometry in Hg(II) complexes. Journal of the American Chemical Society, 1990, 112, 3255-3257.	13.7	44
96	Zinc Maintains Prophase I Arrest in Mouse Oocytes Through Regulation of the MOS-MAPK Pathway1. Biology of Reproduction, 2012, 87, 11, 1-12.	2.7	44
97	Arsenoplatin-1 Is a Dual Pharmacophore Anticancer Agent. Journal of the American Chemical Society, 2019, 141, 6453-6457.	13.7	40
98	Evidence for retention of biological activity of a non-heme iron enzyme adsorbed on a silver colloid: A surface-enhanced resonance Raman scattering study. Biochemistry, 1993, 32, 13771-13776.	2.5	39
99	The Many Spaces of uPAR: Delivery of Theranostic Agents and Nanobins to Multiple Tumor Compartments through a Single Target. Theranostics, 2013, 3, 496-506.	10.0	39
100	CueR activates transcription through a DNA distortion mechanism. Nature Chemical Biology, 2021, 17, 57-64.	8.0	39
101	A new role for Zinc limitation in bacterial pathogenicity: modulation of Î±-hemolysin from uropathogenic Escherichia coli. Scientific Reports, 2018, 8, 6535.	3.3	37
102	Probing Copperâ^'Thioether Coordination Chemistry in Rusticyanin and Azurin by 2D1Hâ^'199Hg NMR. Inorganic Chemistry, 1997, 36, 2926-2927.	4.0	35
103	Urokinase Plasminogen Activator Systemâ€"Targeted Delivery of Nanobins as a Novel Ovarian Cancer Therapy. Molecular Cancer Therapeutics, 2013, 12, 2628-2639.	4.1	34
104	Bovine eggs release zinc in response to parthenogenetic and sperm-induced egg activation. Theriogenology, 2019, 127, 41-48.	2.1	34
105	Identification of a New Epitope in uPAR as a Target for the Cancer Therapeutic Monoclonal Antibody ATN-658, a Structural Homolog of the uPAR Binding Integrin CD11b (Î±M). PLoS ONE, 2014, 9, e85349.	2.5	34
106	High-Throughput Screen for Identifying Small Molecules That Target Fungal Zinc Homeostasis. PLoS ONE, 2011, 6, e25136.	2.5	33
107	Combination Treatment with the GSK-3 Inhibitor 9-ING-41 and CCNU Cures Orthotopic Chemoresistant Glioblastoma in Patient-Derived Xenograft Models. Translational Oncology, 2017, 10, 669-678.	3.7	32
108	UVRR Spectroscopy and Vibrational Analysis of Mercury Thiolate Compounds Resembling d10Metal Binding Sites in Proteins. Inorganic Chemistry, 1999, 38, 3523-3528.	4.0	30

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109	The bacterial multidrug resistance regulator BmrR distorts promoter DNA to activate transcription. Nature Communications, 2020, 11, 6284.	12.8	28
110	3D tumor tissue analogs and their orthotopic implants for understanding tumor-targeting of microenvironment-responsive nanosized chemotherapy and radiation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 2013-2023.	3.3	26
111	Zinc, insulin, and the liver: a mÃ©nage Ã trois. Journal of Clinical Investigation, 2013, 123, 4136-4139.	8.2	26
112	The inorganic anatomy of the mammalian preimplantation embryo and the requirement of zinc during the first mitotic divisions. Developmental Dynamics, 2015, 244, 935-947.	1.8	25
113	Stabilization of High-Valent Terminal-Oxo Complexes:â€‰ Interplay of d-Orbital Occupancy and Coordination Geometry. Journal of the American Chemical Society, 1996, 118, 481-482.	13.7	24
114	Direct Binding of Arsenic Trioxide to AMPK and Generation of Inhibitory Effects on Acute Myeloid Leukemia Precursors. Molecular Cancer Therapeutics, 2015, 14, 202-212.	4.1	24
115	9-ING-41, a small-molecule glycogen synthase kinase-3 inhibitor, is active in neuroblastoma. Anti-Cancer Drugs, 2018, 29, 717-724.	1.4	24
116	Alignment of low-dose X-ray fluorescence tomographyÂimages using differential phase contrast. Journal of Synchrotron Radiation, 2014, 21, 229-234.	2.4	24
117	Development and modeling of arsenic-trioxideâ€“loaded thermosensitive liposomes for anticancer drug delivery. Journal of Liposome Research, 2011, 21, 106-115.	3.3	22
118	Beyond cisplatin: Combination therapy with arsenic trioxide. Inorganica Chimica Acta, 2019, 496, 119030.	2.4	20
119	A copper hyperaccumulation phenotype correlates with pathogenesis in Cryptococcus neoformans. Metallomics, 2013, 5, 363.	2.4	19
120	Metal ion fluxes controlling amphibian fertilization. Nature Chemistry, 2021, 13, 683-691.	13.6	18
121	UVRR Spectroscopy of the Metal Receptor Site in MerR. Journal of the American Chemical Society, 1998, 120, 12690-12691.	13.7	17
122	Glutathione depletion enhances arsenic trioxideâ€induced apoptosis in lymphoma cells through mitochondrialâ€independent mechanisms. British Journal of Haematology, 2010, 150, 365-369.	2.5	16
123	Improved anti-proliferative effect of doxorubicin-containing polymer nanoparticles upon surface modification with cationic groups. Journal of Materials Chemistry, 2012, 22, 25463.	6.7	16
124	Zinc availability during germline development impacts embryo viability in Caenorhabditis elegans. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 191, 194-202.	2.6	15
125	Interrogating Intracellular Zinc Chemistry with a Long Stokes Shift Zinc Probe ZincBY-4. Journal of the American Chemical Society, 2019, 141, 16696-16705.	13.7	15
126	Radiation-enhanced therapeutic targeting of galectin-1 enriched malignant stroma in triple negative breast cancer. Oncotarget, 0, 7, 41559-41574.	1.8	15

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127	Rapid and Accurate Analysis of an X-Ray Fluorescence Microscopy Data Set through Gaussian Mixture-Based Soft Clustering Methods. Microscopy and Microanalysis, 2013, 19, 1281-1289.	0.4	14
128	Aberrant expression of glycogen synthase kinaseâ€'3Î² in human breast and head and neck cancer. Oncology Letters, 2018, 16, 6437-6444.	1.8	14
129	Enhanced Cross Polarization in Magic Angle Spinning NMR of Metal Complexes. Inorganic Chemistry, 1995, 34, 1187-1192.	4.0	13
130	An Investigation of the Effect of Modifying Stimulation Profile Shape on the Loading Response Phase of Gait, during FES-Corrected Drop Foot: Stimulation Profile and Loading Response. Neuromodulation, 2004, 7, 113-125.	0.8	13
131	Zinc Dynamics during Drosophila Oocyte Maturation and Egg Activation. IScience, 2020, 23, 101275.	4.1	13
132	pHâ€Responsive Theranostic Polymerâ€Caged Nanobins: Enhanced Cytotoxicity and T₁ MRI Contrast by Her2 Targeting. Particle and Particle Systems Characterization, 2013, 30, 770-774.	2.3	11
133	Size Control of Arsenic Trioxide Nanocrystals Grown in Nanowells. Journal of the American Chemical Society, 2009, 131, 10863-10865.	13.7	10
134	Design, Implementation, Simulation, and Visualization of a Highly Efficient RIM Microfluidic Mixer for Rapid Freeze-Quench of Biological Samples. Applied Magnetic Resonance, 2011, 40, 415-425.	1.2	10
135	Whole-body Imaging of Cell Death Provides a Systemic, Minimally Invasive, Dynamic, and Near-real Time Indicator for Chemotherapeutic Drug Toxicity. Clinical Cancer Research, 2019, 25, 1331-1342.	7.0	10
136	Zinc exocytosis is sensitive to myosin light chain kinase inhibition in mouse and human eggs. Molecular Human Reproduction, 2020, 26, 228-239.	2.8	8
137	Bio-inorganic chemistry: what is it, and what's so exciting?. Current Opinion in Chemical Biology, 1999, 3, 129-130.	6.1	6
138	Physicochemical mechanotransduction alters nuclear shape and mechanics via heterochromatin formation. Molecular Biology of the Cell, 2019, , mbc.E19-05-0286.	2.1	6
139	Dynamic zinc fluxes regulate meiotic progression in Caenorhabditis elegans. Biology of Reproduction, 2022, 107, 406-418.	2.7	5
140	Zinc as a Key Meiotic Cell-Cycle Regulator in the Mammalian Oocyte. , 2014, , 315-333.		4
141	A zinc chaperone mediates the flow of an inorganic commodity to an important cellular client. Cell, 2022, 185, 2013-2015.	28.9	4
142	Iodide Analogs of Arsenoplatinsâ€"Potential Drug Candidates for Triple Negative Breast Cancers. Molecules, 2021, 26, 5421.	3.8	3
143	Quantitative imaging approaches to understanding biological processing of metal ions. Current Opinion in Chemical Biology, 2022, 69, 102152.	6.1	3
144	Inorganic Reagents as Probes for the Mechanism of a Metal-Responsive Genetic Switch. ACS Symposium Series, 1989, , 97-105.	0.5	2

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145	Structural Characterization of the Binding Site in the MerR Metalloregulatory Protein. Japanese Journal of Applied Physics, 1993, 32, 536.	1.5	2
146	Abstract 4389: Liposomes containing piperazine compounds inhibit tumor growth in a patient-derived xenograft model of glioblastoma multiforme. , 2015, , .		2
147	Twenty-Five Years Agoâ”€Remembering the Life and Loss of Professor Karen E. Wetterhahn. Journal of Chemical Health and Safety, 2022, 29, 325-326.	2.1	2
148	Mechanisms of Copper Chaperone Proteins. , 1999, , 365-374.		1
149	Zinc Requirement During Meiosis I-Meiosis II Transition in Mouse Oocytes Is Independent of the Mos-MAPK Pathway.. Biology of Reproduction, 2010, 83, 561-561.	2.7	1
150	Zinc transporters ZIPT-2.4 and ZIPT-15 are required for normal C. elegans fecundity. Journal of Assisted Reproduction and Genetics, 2022, 39, 1261-1276.	2.5	1
151	Emission ratiometric probes for zinc ion. Journal of Inorganic Biochemistry, 2003, 96, 237.	3.5	0
152	Acute cytokine-mediated downregulation of the zinc transporter ZnT8 alters pancreatic Î²-cell function. Journal of Endocrinology, 2010, 206, 336.	2.6	0
153	Abstract LB-202: Therapeutic efficacy of coencapsulated cisplatin and arsenic trioxide nanobins in murine models of breast cancer. , 2011, , .		0
154	Abstract 4644: A novel strategy for targeted drug delivery to the tumor vasculature by radiation-induced receptor expression on endothelial cells. , 2012, , .		0
155	Abstract 2885: Urokinase plasminogen activator system targeted delivery of arsenic trioxide loaded nanobins as a novel ovarian cancer therapeutic. , 2012, , .		0
156	Abstract 4589: Impact of tumor microenvironment on tumor growth, metastasis and response to combination therapy via microenvironment-responsive dual drug-loaded nanoparticles and radiation. , 2014, , .		0
157	Abstract POSTER-THER-1440: Targeted delivery of doxorubicin loaded nanobins to ovarian cancer cells through the urokinase plasminogen activator system. , 2015, , .		0
158	Abstract 3287: Targeting GSK-3: a new approach for the treatment of neuroblastoma. , 2015, , .		0
159	Abstract 1464: Patient-derived tumor xenograft are susceptible to formation of B-cell lymphoma after initial transplantation of human carcinoma to immunodeficient mice. , 2015, , .		0
160	Abstract 2699: Targeting GSK-3: a novel approach to enhance glioblastoma chemosensitivity. , 2015, , .		0
161	Abstract 1046: Developing patient-derived xenograft tumor models that recapture clinical manifestation of inflammatory breast cancer patients. , 2018, , .		0
162	Abstract P1-03-06: Development of patient-derived xenograft tumor models and 3D spheroid culture from advanced hormone receptor-positive inflammatory breast cancer patients for evaluation of new therapeutics. , 2020, , .		0