Douglas M Templeton

List of Publications by Year
in descending order

121 papers	5,388 citations	94269 37 h-index	88477 70 g-index
4998 all docs	4998 docs citations	4998 times ranked	4875 citing authors

#	Article	IF	Citations
1	Cadmium favors F-actin depolymerization in rat renal mesangial cells by site-specific, disulfide-based dimerization of the CAP1 protein. Archives of Toxicology, 2018, 92, 1049-1064.	1.9	16
2	Protective effect of cadmium-induced autophagy in rat renal mesangial cells. Archives of Toxicology, 2018, 92, 619-631.	1.9	28
3	Interactions of Cadmium with Signaling Molecules. , 2018, , 53-81.		0
4	Terminology of elemental speciation â€“ An IUPAC perspective. Coordination Chemistry Reviews, 2017, 352, 424-431.	9.5	40
5	Undergraduate Specialist Program in Pathobiology at the University of Toronto. Academic Pathology, 2017, 4, 2374289517747594.	0.7	0
6	Glossary of terms used in developmental and reproductive toxicology (IUPAC Recommendations 2016). Pure and Applied Chemistry, 2016, 88, 713-830.	0.9	1
7	Immunochemical Recognition and its Diagnostic and Therapeutic Applications. Chemistry International, 2015, 37, .	0.3	0
8	Speciation in Metal Toxicity and Metal-Based Therapeutics. Toxics, 2015, 3, 170-186.	1.6	24
9	Iron-dependent turnover of IRP-1/c-aconitase in kidney cells. Metallomics, 2015, 7, 766-775.	1.0	6
10	IUPAC Glossary of terms used in neurotoxicology (IUPAC Recommendations 2015). Pure and Applied Chemistry, 2015, 87, 841-927.	0.9	3
11	Heparin interaction with a receptor on hyperglycemic dividing cells prevents intracellular hyaluronan synthesis and autophagy responses in models of type 1 diabetes. Matrix Biology, 2015, 48, 36-41.	1.5	17
12	Immunodiagnostics and immunosensor design (IUPAC Technical Report). Pure and Applied Chemistry, 2014, 86, 1539-1571.	0.9	9
13	Applications of immunochemistry in human health: advances in vaccinology and antibody design (IUPAC Technical Report). Pure and Applied Chemistry, 2014, 86, 1573-1617.	0.9	3
14	Structural aspects of molecular recognition in the immune system. Part I: Acquired immunity (IUPAC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	2
15	Immunochemical Recognition and Applications. Pure and Applied Chemistry, 2014, 86, 1433-1434.	0.9	0
16	Interplay of calcium and cadmium in mediating cadmium toxicity. Chemico-Biological Interactions, 2014, 211, 54-65.	1.7	198
17	Cadmium-induced aggregation of iron regulatory protein-1. Toxicology, 2014, 324, 108-115.	2.0	6
18	Cadmium-induced glutathionylation of actin occurs through a ROS-independent mechanism: Implications for cytoskeletal integrity. Toxicology and Applied Pharmacology, 2013, 272, 423-430.	1.3	20

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19	Involvement of CaMKâ€ÎÍ´ and gelsolin in Cd²⁺â€dependent cytoskeletal effects in mesangial cells. Journal of Cellular Physiology, 2013, 228, 78-86.	2.0	11
20	Cadmium affects focal adhesion kinase (FAK) in mesangial cells: Involvement of CaMKâ€Ⅱ and the actin cytoskeleton. Journal of Cellular Biochemistry, 2013, 114, 1832-1842.	1.2	19
21	Effects of cadmium on the actin cytoskeleton in renal mesangial cells. Canadian Journal of Physiology and Pharmacology, 2013, 91, 1-7.	0.7	17
22	IUPAC glossary of terms used in immunotoxicology (IUPAC Recommendations 2012). Pure and Applied Chemistry, 2012, 84, 1113-1295.	0.9	5
23	Cell density-dependent shift in activity of iron regulatory protein 1 (IRP-1)/cytosolic (c-)aconitase. Metallomics, 2012, 4, 693.	1.0	5
24	Interaction of iron regulatory protein-1 (IRP-1) with ATP/ADP maintains a non-IRE-binding state. Biochemical Journal, 2010, 430, 315-324.	1.7	9
25	Transport of iron chelators and chelates across MDCK cell monolayers: implications for iron excretion during chelation therapy. International Journal of Hematology, 2010, 91, 401-412.	0.7	5
26	Multiple roles of cadmium in cell death and survival. Chemico-Biological Interactions, 2010, 188, 267-275.	1.7	235
27	Lowâ€concentration heparin suppresses ionomycinâ€activated CAMKâ€Ⅱ/EGF receptorâ€•and ERKâ€mediated signaling in mesangial cells. Journal of Cellular Physiology, 2010, 224, 484-490.	2.0	2
28	Explanatory dictionary of key terms in toxicology: Part II (IUPAC Recommendations 2010). Pure and Applied Chemistry, 2010, 82, 679-751.	0.9	13
29	Role of the cytoskeleton in Cd²⁺-induced death of mouse mesangial cellsThis article 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, 341-352.	0.7	18
30	Immunological effects of mercury (IUPAC Technical Report). Pure and Applied Chemistry, 2009, 81, 153-167.	0.9	16
31	Pleiotropic effects of cadmium in mesangial cells. Toxicology and Applied Pharmacology, 2009, 238, 315-326.	1.3	42
32	Glossary of terms used in ecotoxicology (IUPAC Recommendations 2009). Pure and Applied Chemistry, 2009, 81, 829-970.	0.9	39
33	Initiation of caspaseâ€independent death in mouse mesangial cells by Cd²⁺: Involvement of p38 kinase and CaMKâ€Ⅱ. Journal of Cellular Physiology, 2008, 217, 307-318.	2.0	51
34	Lymphocyte subpopulations in human exposure to metals (IUPAC Technical Report). Pure and Applied Chemistry, 2008, 80, 1349-1364.	0.9	9
35	Explanatory dictionary of key terms in toxicology (IUPAC Recommendations 2007). Pure and Applied Chemistry, 2007, 79, 1583-1633.	0.9	13
36	Glossary of terms used in toxicology, 2nd edition (IUPAC Recommendations 2007). Pure and Applied Chemistry, 2007, 79, 1153-1344.	0.9	156

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37	Cadmium activates CaMK-II and initiates CaMK-II-dependent apoptosis in mesangial cells. FEBS Letters, 2007, 581, 1481-1486.	1.3	79
38	Heparin suppresses lipid raft-mediated signaling and ligand-independent EGF receptor activation. Journal of Cellular Physiology, 2007, 211, 205-212.	2.0	18
39	Inhibition of an iron-responsive element/iron regulatory protein-1 complex by ATP binding and hydrolysis. FEBS Journal, 2007, 274, 3108-3119.	2.2	14
40	Effect of hypoxia on the binding and subcellular distribution of iron regulatory proteins. Molecular and Cellular Biochemistry, 2007, 301, 21-32.	1.4	27
41	Cytokine profiles in human exposure to metals (IUPAC Technical Report). Pure and Applied Chemistry, 2006, 78, 2155-2168.	0.9	13
42	Iron-loaded cardiac myocytes stimulate cardiac myofibroblast DNA synthesis. Molecular and Cellular Biochemistry, 2006, 281, 77-85.	1.4	11
43	Mitochondrial involvement in genetically determined transition metal toxicity. Chemico-Biological Interactions, 2006, 163, 68-76.	1.7	29
44	Mitochondrial involvement in genetically determined transition metal toxicity. Chemico-Biological Interactions, 2006, 163, 77-85.	1.7	73
45	Involvement of Gelsolin in Cadmium-Induced Disruption of the Mesangial Cell Cytoskeleton. Toxicological Sciences, 2006, 89, 465-474.	1.4	26
46	Cadmium inhibits both intrinsic and extrinsic apoptotic pathways in renal mesangial cells. American Journal of Physiology - Renal Physiology, 2006, 290, F1074-F1082.	1.3	29
47	Selected Examples of Important Metal-Protein Species. , 2005, , 638-649.		3
48	A Northwestern blotting approach for studying iron regulatory element-binding proteins. Molecular and Cellular Biochemistry, 2005, 268, 67-74.	1.4	5
49	Ca2+/calmodulin-dependent protein kinase II inhibition by heparin in mesangial cells. American Journal of Physiology - Renal Physiology, 2005, 288, F142-F149.	1.3	8
50	Iron accumulation and iron-regulatory protein activity in human hepatoma (HepG2) cells. Molecular and Cellular Biochemistry, 2004, 265, 37-45.	1.4	21
51	The importance of trace element speciation in biomedical science. Analytical and Bioanalytical Chemistry, 2003, 375, 1062-1066.	1.9	32
52	Suppression of mitogen-activated protein kinase phosphatase-1 (MKP-1) by heparin in vascular smooth muscle cells. Biochemical Pharmacology, 2003, 66, 769-776.	2.0	8
53	Modulation of stellate cell proliferation and gene expression by rat hepatocytes: effect of toxic iron overload. Toxicology Letters, 2003, 144, 225-233.	0.4	18
54	Differential accumulation of non-transferrin-bound iron by cardiac myocytes and fibroblasts. Journal of Molecular and Cellular Cardiology, 2003, 35, 505-514.	0.9	37

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55	Genetic regulation of cell function in response to iron overload or chelation. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 113-124.	1.1	96
56	Ca2+/calmodulin-dependent and cAMP-dependent kinases in induction of c-fos in human mesangial cells. American Journal of Physiology - Renal Physiology, 2002, 283, F888-F894.	1.3	10
57	Transport of Non-Transferrin-Bound Iron by Hepatocytes. , 2002, , .		1
58	The Effects of Cardiac Myocytes on Interstitial Fibroblasts in Toxic Iron Overload. Cardiovascular Toxicology, 2001, 1, 299-308.	1.1	7
59	Activation of Parallel Mitogen-Activated Protein Kinase Cascades and Induction of c-fos by Cadmium. Toxicology and Applied Pharmacology, 2000, 162, 93-99.	1.3	82
60	Heterogeneity in the response of vascular smooth muscle to heparin: altered signaling in heparin-resistant cells. Cardiovascular Research, 2000, 45, 503-512.	1.8	8
61	Stress-Activated Protein Kinase-Dependent Induction of c-fos by Cd2+ Is Mediated by MKK7. Biochemical and Biophysical Research Communications, 2000, 273, 718-722.	1.0	26
62	Changes in Gene Expression with Iron Loading and Chelation in Cardiac Myocytes and Non-myocytic Fibroblasts. Journal of Molecular and Cellular Cardiology, 2000, 32, 233-246.	0.9	44
63	Guidelines for terms related to chemical speciation and fractionation of elements. Definitions, structural aspects, and methodological approaches (IUPAC Recommendations 2000). Pure and Applied Chemistry, 2000, 72, 1453-1470.	0.9	810
64	Absorption and Retention of Nickel from Drinking Water in Relation to Food Intake and Nickel Sensitivity. Toxicology and Applied Pharmacology, 1999, 154, 67-75.	1.3	119
65	Biomedical aspects of trace element speciation. Fresenius' Journal of Analytical Chemistry, 1999, 363, 505-511.	1.5	41
66	Heparan sulfate chains with antimitogenic properties arise from mesangial cell-surface proteoglycans. Metabolism: Clinical and Experimental, 1999, 48, 1220-1229.	1.5	9
67	Long-Term Safety and Effectiveness of Iron-Chelation Therapy with Deferiprone for Thalassemia Major. New England Journal of Medicine, 1998, 339, 417-423.	13.9	389
68	Cadmium and calcium-dependent c-fos expression in mesangial cells. Toxicology Letters, 1998, 95, 1-8.	0.4	24
69	Induction of c-fos Proto-oncogene in Mesangial Cells by Cadmium. Journal of Biological Chemistry, 1998, 273, 73-79.	1.6	96
70	Inactivation of kinase cascades in mesangial cells grown on collagen type I. American Journal of Physiology - Renal Physiology, 1998, 275, F585-F594.	1.3	3
71	Characterization of Fe2+ and Fe3+ transport by iron-loaded cardiac myocytes. Toxicology, 1997, 117, 141-151.	2.0	39
72	Posttranscriptional effects of glucose on proteoglycan expression in mesangial cells. Metabolism: Clinical and Experimental, 1996, 45, 1136-1146.	1.5	18

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73	Cellular Factors Mediate Cadmium-Dependent Actin Depolymerization. Toxicology and Applied Pharmacology, 1996, 139, 115-121.	1.3	44
74	Calcium-independent effects of cadmium on actin assembly in mesangial and vascular smooth muscle cells. , 1996, 33, 208-222.		49
75	Iron-hydroxypyridone redox chemistry: kinetic and thermodynamic limitations to Fenton activity. Inorganica Chimica Acta, 1996, 245, 199-207.	1.2	20
76	Glypicans: a growing trend. Nature Genetics, 1996, 12, 225-227.	9.4	74
77	Inhibition of mitogenesis and c-fos induction in mesangial cells by heparin and heparan sulfates. Kidney International, 1996, 49, 437-448.	2.6	32
78	Heparin Inhibits Mitogen-activated Protein Kinase-dependent and -independent c- Induction in Mesangial Cells. Journal of Biological Chemistry, 1996, 271, 17100-17106.	1.6	51
79	Iron-Chelation Therapy with Oral Deferiprone in Patients with Thalassemia Major. New England Journal of Medicine, 1995, 332, 918-922.	13.9	306
80	Modulation by iron loading and chelation of the uptake of non-transferrin-bound iron by human liver cells. Biochimica Et Biophysica Acta - General Subjects, 1995, 1243, 373-380.	1.1	54
81	Measurement of platinum in biomedical silicones by ICP-MS. Analytical Proceedings, 1995, 32, 293.	0.4	14
82	Combined Liver and Heart Transplantation for End-Stage Iron-Induced Organ Failure in an Adult with Homozygous Beta-Thalassemia. New England Journal of Medicine, 1994, 330, 1125-1127.	13.9	64
83	Growth modulation and proteoglycan turnover in cultured mesangial cells. Journal of Cellular Physiology, 1994, 159, 295-310.	2.0	29
84	Reversed-phase high-performance liquid chromatography of non-transferrin-bound iron and some hydroxypyridone and hydroxypyrone chelators. Biomedical Applications, 1994, 658, 121-127.	1.7	3
85	Tentative reference values for nickel concentrations in human serum, plasma, blood, and urine: evaluation according to the TRACY protocol. Science of the Total Environment, 1994, 148, 243-251.	3.9	68
86	Isotope-specific analysis of Ni by ICP-MS: applications of stable isotope tracers to biokinetic studies. Science of the Total Environment, 1994, 148, 253-262.	3.9	16
87	Copper Complexation by 3-Hydroxypyridin-4-one Iron Chelators: Structural and Iron Competition Studies. Journal of Medicinal Chemistry, 1994, 37, 461-466.	2.9	45
88	Protective elevations of glutathione and metallothionein in cadmium-exposed mesangial cells. Toxicology, 1993, 77, 145-156.	2.0	86
89	Electrochemical oxidation of some therapeutic 3-hydroxypyridin-4-one iron chelators. Electrochimica Acta, 1993, 38, 2223-2230.	2.6	9
90	Subunit structure of bovine ESF (extracellular-matrix stabilizing factor(s)). FEBS Letters, 1993, 318, 292-296.	1.3	52

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91	Determination of nickel in serum and urine by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1993, 8, 445.	1.6	19
92	Proteoglycans in Cell Regulation. Critical Reviews in Clinical Laboratory Sciences, 1992, 29, 141-184.	2.7	72
93	Conserved charge of glomerular and mesangial cell proteoglycans: possible role of amino acid-derived sulphate. Canadian Journal of Physiology and Pharmacology, 1992, 70, 843-852.	0.7	9
94	Structure and metabolism of multiple heparan sulphate proteoglycans synthesized by the isolated rat glomerulus. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1136, 119-128.	1.9	9
95	Effects of CdCl2 and Cd-metallothionein on cultured mesangial cells. Toxicology and Applied Pharmacology, 1992, 116, 133-141.	1.3	27
96	Speciation of tissue and cellular iron with on-line detection by inductively coupled plasma-mass spectrometry. Analytical Biochemistry, 1992, 205, 278-284.	1.1	40
97	Growth Failure and Bony Changes Induced by Deferoxamine. Journal of Pediatric Hematology/Oncology, 1992, 14, 48-56.	0.3	121
98	Multielement analysis of biological samples by inductively coupled plasma-mass spectrometry. II. Rapid survey method for profiling trace elements in body fluids. Clinical Chemistry, 1991, 37, 210-215.	1.5	44
99	[3] Toxicological significance of metallothionein. Methods in Enzymology, 1991, 205, 11-24.	0.4	130
100	Assessment of ICP-MS for routine multielement analysis of soil samples in environmental trace element studies. Fresenius' Journal of Analytical Chemistry, 1990, 336, 99-105.	1.5	26
101	Effects of divalent metals on the isolated rat glomerulus. Toxicology, 1990, 61, 119-133.	2.0	22
102	Variability of proteoglycan expression in the isolated rat glomerulus. Biochimica Et Biophysica Acta - General Subjects, 1990, 1033, 235-242.	1.1	5
103	Comparison of oral iron chelator L1 and desferrioxamine in iron-loaded patients. Lancet, The, 1990, 336, 1275-1279.	6.3	163
104	Evaluation of the Oral Iron Chelator 1,2-Dimethyl-3-hydroxypyrid-4-one (L1) in Iron-Loaded Patients. Annals of the New York Academy of Sciences, 1990, 612, 369-377.	1.8	16
105	Determination of Ni by ICP-MS: Correction of Calcium Oxide and Hydroxide Interferences Using Principal Components Analysis. Applied Spectroscopy, 1990, 44, 1685-1689.	1.2	41
106	Multielement analysis of biological samples by inductively coupled plasma-mass spectrometry. Biological Trace Element Research, 1989, 22, 17-33.	1.9	24
107	Use of inductively coupled plasma-mass spectrometry (icp-ms) for assessing trace element contamination in blood sampling devices. Science of the Total Environment, 1989, 89, 343-352.	3.9	15
108	Acceleration of ionic reactions by naturally occurring glycosaminoglycans. II.. Inorganica Chimica Acta, 1988, 153, 165-170.	1.2	1

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109	General occurrence of isosbestic points in the metachromatic dye complexes of sulphated glycosaminoglycans. International Journal of Biological Macromolecules, 1988, 10, 131-136.	3.6	10
110	The Basis and Applicability of the Dimethylmethylene Blue Binding Assay for Sulfated Glycosaminoglycans. Connective Tissue Research, 1988, 17, 23-32.	1.1	77
111	Comparative studies of glutathione reductase and lipoamide dehydrogenase. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1988, 90, 335-339.	0.2	2
112	Synthesis of heparan sulfate proteoglycans by the isolated glomerulus. Biochemistry and Cell Biology, 1988, 66, 1078-1085.	0.9	7
113	Metal-binding properties of the isolated glomerular basement membrane. Biochimica Et Biophysica Acta - General Subjects, 1987, 926, 94-105.	1.1	15
114	Acceleration of the mercury-induced aquation of bromopentammine Co(III) by naturally occurring glycosaminoglycans. Canadian Journal of Chemistry, 1987, 65, 2411-2420.	0.6	5
115	Interaction of toxic cations with the glomerulus: Binding of Ni to purified glomerular basement membrane. Toxicology, 1987, 43, 1-15.	2.0	13
116	Nickel binding to the C-terminal tryptic fragment of a peptide from human kidney. Biochimica Et Biophysica Acta - General Subjects, 1986, 884, 383-386.	1.1	6
117	LOW MOLECULAR WEIGHT TARGETS OF METALS IN HUMAN KIDNEY. Acta Pharmacologica Et Toxicologica, 1986, 59, 416-423.	0.0	4
118	Metallothionein synthesis and localization in relation to metal storage in rat liver during gestation. Canadian Journal of Biochemistry and Cell Biology, 1985, 63, 16-22.	1.3	72
119	Chemical modifications of metallothionein, II. Metabolic fate of cadmium bound to metallothionein polymers. Toxicology Letters, 1985, 25, 279-286.	0.4	5
120	Fletcherâ€“Powell minimization of analytical potentiometric data by microcomputer: application to the Cu(II) complexes of biological polyamines. Canadian Journal of Chemistry, 1985, 63, 3122-3128.	0.6	29
121	Effects of zinc deficiency of pre-existing cadmium-metallothionein in the pancreas. Toxicology, 1984, 29, 251-260.	2.0	13