Douglas M Templeton

List of Publications by Citations

120 papers	4,523 citations	34 h-index	64 g-index
5,161 ext. papers	4,859 ext. citations	6.6 avg, IF	5.39 L-index

#	Paper	IF	Citations
120	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	2.1	676
119	Long-term safety and effectiveness of iron-chelation therapy with deferiprone for thalassemia major. *New England Journal of Medicine*, **1998**, 339, 417-23	59.2	322
118	Iron-chelation therapy with oral deferiprone in patients with thalassemia major. *New England Journal of Medicine*, **1995**, 332, 918-22	59.2	270
117	Multiple roles of cadmium in cell death and survival. *Chemico-Biological Interactions*, **2010**, 188, 267-75	5	200
116	Comparison of oral iron chelator L1 and desferrioxamine in iron-loaded patients. *Lancet, The*, **1990**, 336, 1275-9	40	145
115	Interplay of calcium and cadmium in mediating cadmium toxicity. *Chemico-Biological Interactions*, **2014**, 211, 54-65	5	142
114	Glossary of terms used in toxicology, 2nd edition (IUPAC Recommendations 2007). *Pure and Applied Chemistry*, **2007**, 79, 1153-1344	2.1	126
113	Toxicological significance of metallothionein. *Methods in Enzymology*, **1991**, 205, 11-24	1.7	108
112	Absorption and retention of nickel from drinking water in relation to food intake and nickel sensitivity. *Toxicology and Applied Pharmacology*, **1999**, 154, 67-75	4.6	99
111	Growth failure and bony changes induced by deferoxamine. *Journal of Pediatric Hematology/Oncology*, **1992**, 14, 48-56	1.2	98
110	Genetic regulation of cell function in response to iron overload or chelation. *Biochimica Et Biophysica Acta - General Subjects*, **2003**, 1619, 113-24	4	89
109	Protective elevations of glutathione and metallothionein in cadmium-exposed mesangial cells. *Toxicology*, **1993**, 77, 145-56	4.4	83
108	Activation of parallel mitogen-activated protein kinase cascades and induction of c-fos by cadmium. *Toxicology and Applied Pharmacology*, **2000**, 162, 93-9	4.6	79
107	Induction of c-fos proto-oncogene in mesangial cells by cadmium. *Journal of Biological Chemistry*, **1998**, 273, 73-9	5.4	79
106	Cadmium activates CaMK-II and initiates CaMK-II-dependent apoptosis in mesangial cells. *FEBS Letters*, **2007**, 581, 1481-6	3.8	65
105	Proteoglycans in cell regulation. *Critical Reviews in Clinical Laboratory Sciences*, **1992**, 29, 141-84	9.4	65
104	The basis and applicability of the dimethylmethylene blue binding assay for sulfated glycosaminoglycans. *Connective Tissue Research*, **1988**, 17, 23-32	3.3	63

103	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		61
102	Brief report: 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, 1125-7	59.2	59
101	Mitochondrial involvement in genetically determined transition metal toxicity II. Copper toxicity. *Chemico-Biological Interactions*, **2006**, 163, 77-85	5	52
100	Initiation of caspase-independent death in mouse mesangial cells by Cd2+: involvement of p38 kinase and CaMK-II. *Journal of Cellular Physiology*, **2008**, 217, 307-18	7	48
99	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, 243-51	10.2	48
98	Subunit structure of bovine ESF (extracellular-matrix stabilizing factor(s)). A chondroitin sulfate proteoglycan with homology to human I alpha i (inter-alpha-trypsin inhibitors). *FEBS Letters*, **1993**, 318, 292-6	3.8	47
97	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, 373-80	4	45
96	Changes in gene expression with iron loading and chelation in cardiac myocytes and non-myocytic fibroblasts. *Journal of Molecular and Cellular Cardiology*, **2000**, 32, 233-46	5.8	44
95	Cellular factors mediate cadmium-dependent actin depolymerization. *Toxicology and Applied Pharmacology*, **1996**, 139, 115-21	4.6	42
94	Heparin inhibits mitogen-activated protein kinase-dependent and -independent c-fos induction in mesangial cells. *Journal of Biological Chemistry*, **1996**, 271, 17100-6	5.4	42
93	Copper complexation by 3-hydroxypyridin-4-one iron chelators: structural and iron competition studies. *Journal of Medicinal Chemistry*, **1994**, 37, 461-6	8.3	42
92	Calcium-independent effects of cadmium on actin assembly in mesangial and vascular smooth muscle cells. *Cytoskeleton*, **1996**, 33, 208-22		39
91	Characterization of Fe2+ and Fe3+ transport by iron-loaded cardiac myocytes. *Toxicology*, **1997**, 117, 141-51	4.4	37
90	Pleiotropic effects of cadmium in mesangial cells. *Toxicology and Applied Pharmacology*, **2009**, 238, 315-266	4	35
89	Biomedical aspects of trace element speciation. *FreseniusJournal of Analytical Chemistry*, **1999**, 363, 505-511		35
88	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	5.5	35
87	Speciation of tissue and cellular iron with on-line detection by inductively coupled plasma-mass spectrometry. *Analytical Biochemistry*, **1992**, 205, 278-84	3.1	34
86	Glossary of terms used in ecotoxicology (IUPAC Recommendations 2009). *Pure and Applied Chemistry*, **2009**, 81, 829-970	2.1	31

85	Differential accumulation of non-transferrin-bound iron by cardiac myocytes and fibroblasts. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 505-14	5.8	31
84	Inhibition of mitogenesis and c-fos induction in mesangial cells by heparin and heparan sulfates. *Kidney International*, **1996**, 49, 437-48	9.9	29
83	FletcherPowell minimization of analytical potentiometric data by microcomputer: application to the Cu(II) complexes of biological polyamines. *Canadian Journal of Chemistry*, **1985**, 63, 3122-3128	0.9	27
82	The importance of trace element speciation in biomedical science. *Analytical and Bioanalytical Chemistry*, **2003**, 375, 1062-6	4.4	26
81	Growth modulation and proteoglycan turnover in cultured mesangial cells. *Journal of Cellular Physiology*, **1994**, 159, 295-310	7	26
80	Involvement of gelsolin in cadmium-induced disruption of the mesangial cell cytoskeleton. *Toxicological Sciences*, **2006**, 89, 465-74	4.4	25
79	Cadmium inhibits both intrinsic and extrinsic apoptotic pathways in renal mesangial cells. *American Journal of Physiology - Renal Physiology*, **2006**, 290, F1074-82	4.3	25
78	Stress-activated protein kinase-dependent induction of c-fos by Cd(2+) is mediated by MKK7. *Biochemical and Biophysical Research Communications*, **2000**, 273, 718-22	3.4	25
77	Determination of Ni by ICP-MS: Correction of Calcium Oxide and Hydroxide Interferences Using Principal Components Analysis. *Applied Spectroscopy*, **1990**, 44, 1685-1689	3.1	25
76	Terminology of elemental speciation An IUPAC perspective. *Coordination Chemistry Reviews*, **2017**, 352, 424-431	23.2	24
75	Effects of CdCl2 and Cd-metallothionein on cultured mesangial cells. *Toxicology and Applied Pharmacology*, **1992**, 116, 133-41	4.6	24
74	Mitochondrial involvement in genetically determined transition metal toxicity I. Iron toxicity. *Chemico-Biological Interactions*, **2006**, 163, 68-76	5	23
73	Effect of hypoxia on the binding and subcellular distribution of iron regulatory proteins. *Molecular and Cellular Biochemistry*, **2007**, 301, 21-32	4.2	21
72	Effects of divalent metals on the isolated rat glomerulus. *Toxicology*, **1990**, 61, 119-33	4.4	21
71	Speciation in Metal Toxicity and Metal-Based Therapeutics. *Toxics*, **2015**, 3, 170-186	4.7	20
70	Protective effect of cadmium-induced autophagy in rat renal mesangial cells. *Archives of Toxicology*, **2018**, 92, 619-631	5.8	20
69	Iron accumulation and iron-regulatory protein activity in human hepatoma (HepG2) cells. *Molecular and Cellular Biochemistry*, **2004**, 265, 37-45	4.2	19
68	Cadmium and calcium-dependent c-fos expression in mesangial cells. *Toxicology Letters*, **1998**, 95, 1-8	4.4	19

67	Iron-hydroxypyridone redox chemistry: kinetic and thermodynamic limitations to Fenton activity. *Inorganica Chimica Acta*, **1996**, 245, 199-207	2.7	19
66	Cadmium-induced glutathionylation of actin occurs through a ROS-independent mechanism: implications for cytoskeletal integrity. *Toxicology and Applied Pharmacology*, **2013**, 272, 423-30	4.6	18
65	Heparin suppresses lipid raft-mediated signaling and ligand-independent EGF receptor activation. *Journal of Cellular Physiology*, **2007**, 211, 205-12	7	18
64	Posttranscriptional effects of glucose on proteoglycan expression in mesangial cells. *Metabolism: Clinical and Experimental*, **1996**, 45, 1136-46	12.7	18
63	Multielement analysis of biological samples by inductively coupled plasma-mass spectrometry. I. Preliminary considerations and analysis of rat liver and serum. *Biological Trace Element Research*, **1989**, 22, 17-33	4.5	18
62	Assessment of ICP-MS for routine multielement analysis of soil samples in environmental trace element studies. *FreseniusJournal of Analytical Chemistry*, **1990**, 336, 99-105		18
61	Cadmium affects focal adhesion kinase (FAK) in mesangial cells: involvement of CaMK-II and the actin cytoskeleton. *Journal of Cellular Biochemistry*, **2013**, 114, 1832-42	4.7	17
60	Role of the cytoskeleton in Cd2+-induced death of mouse mesangial cells. *Canadian Journal of Physiology and Pharmacology*, **2010**, 88, 341-52	2.4	15
59	Determination of nickel in serum and urine by inductively coupled plasma mass spectrometry. *Journal of Analytical Atomic Spectrometry*, **1993**, 8, 445	3.7	15
58	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, 369-77	6.5	15
57	Effects of cadmium on the actin cytoskeleton in renal mesangial cells. *Canadian Journal of Physiology and Pharmacology*, **2013**, 91, 1-7	2.4	14
56	Modulation of stellate cell proliferation and gene expression by rat hepatocytes: effect of toxic iron overload. *Toxicology Letters*, **2003**, 144, 225-33	4.4	14
55	Immunological effects of mercury (IUPAC Technical Report). *Pure and Applied Chemistry*, **2009**, 81, 153-167	2.1	13
54	Inhibition of an iron-responsive element/iron regulatory protein-1 complex by ATP binding and hydrolysis. *FEBS Journal*, **2007**, 274, 3108-19	5.7	13
53	Metal-binding properties of the isolated glomerular basement membrane. *Biochimica Et Biophysica Acta - General Subjects*, **1987**, 926, 94-105	4	13
52	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	5.8	12
51	Explanatory dictionary of key terms in toxicology: Part II (IUPAC Recommendations 2010). *Pure and Applied Chemistry*, **2010**, 82, 679-751	2.1	12
50	Isotope-specific analysis of Ni by ICP-MS: applications of stable isotope tracers to biokinetic studies. *Science of the Total Environment*, **1994**, 148, 253-62	10.2	12

49	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	10.2	12
48	Interaction of toxic cations with the glomerulus: binding of Ni to purified glomerular basement membrane. *Toxicology*, **1987**, 43, 1-15	4.4	12
47	Explanatory dictionary of key terms in toxicology (IUPAC Recommendations 2007). *Pure and Applied Chemistry*, **2007**, 79, 1583-1633	2.1	11
46	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	11.4	10
45	Cytokine profiles in human exposure to metals (IUPAC Technical Report). *Pure and Applied Chemistry*, **2006**, 78, 2155-2168	2.1	10
44	Measurement of platinum in biomedical silicones by ICP-MS. *Analytical Proceedings*, **1995**, 32, 293		10
43	General occurrence of isosbestic points in the metachromatic dye complexes of sulphated glycosaminoglycans. *International Journal of Biological Macromolecules*, **1988**, 10, 131-136	7.9	10
42	Effects of zinc deficiency on pre-existing cadmium-metallothionein in the pancreas. *Toxicology*, **1984**, 29, 251-60	4.4	10
41	Interaction of iron regulatory protein-1 (IRP-1) with ATP/ADP maintains a non-IRE-binding state. *Biochemical Journal*, **2010**, 430, 315-24	3.8	9
40	Lymphocyte subpopulations in human exposure to metals (IUPAC Technical Report). *Pure and Applied Chemistry*, **2008**, 80, 1349-1364	2.1	9
39	Iron-loaded cardiac myocytes stimulate cardiac myofibroblast DNA synthesis. *Molecular and Cellular Biochemistry*, **2006**, 281, 77-85	4.2	9
38	Heparan sulfate chains with antimitogenic properties arise from mesangial cell-surface proteoglycans. *Metabolism: Clinical and Experimental*, **1999**, 48, 1220-9	12.7	9
37	Molecular and Cellular Iron Transport **2002**,		9
36	Immunodiagnostics and immunosensor design (IUPAC Technical Report). *Pure and Applied Chemistry*, **2014**, 86, 1539-1571	2.1	8
35	Involvement of CaMK-II and gelsolin in Cd(2+) -dependent cytoskeletal effects in mesangial cells. *Journal of Cellular Physiology*, **2013**, 228, 78-86	7	8
34	Suppression of mitogen-activated protein kinase phosphatase-1 (MKP-1) by heparin in vascular smooth muscle cells. *Biochemical Pharmacology*, **2003**, 66, 769-76	6	8
33	Heterogeneity in the response of vascular smooth muscle to heparin: altered signaling in heparin-resistant cells. *Cardiovascular Research*, **2000**, 45, 503-12	9.9	8
32	Structure and metabolism of multiple heparan sulphate proteoglycans synthesized by the isolated rat glomerulus. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1992**, 1136, 119-28	4.9	8

31	Electrochemical oxidation of some therapeutic 3-hydroxypyridin-4-one iron chelators. *Electrochimica Acta*, **1993**, 38, 2223-2230	6.7	8
30	Ca(2+)/calmodulin-dependent and cAMP-dependent kinases in induction of c-fos in human mesangial cells. *American Journal of Physiology - Renal Physiology*, **2002**, 283, F888-94	4.3	7
29	Ca(2+)/calmodulin-dependent protein kinase II inhibition by heparin in mesangial cells. *American Journal of Physiology - Renal Physiology*, **2005**, 288, F142-9	4.3	7
28	Conserved charge of glomerular and mesangial cell proteoglycans: possible role of amino acid-derived sulphate. *Canadian Journal of Physiology and Pharmacology*, **1992**, 70, 843-52	2.4	7
27	Synthesis of heparan sulfate proteoglycans by the isolated glomerulus. *Biochemistry and Cell Biology*, **1988**, 66, 1078-85	3.6	7
26	The effects of cardiac myocytes on interstitial fibroblasts in toxic iron overload. *Cardiovascular Toxicology*, **2001**, 1, 299-308	3.4	6
25	Cadmium-induced aggregation of iron regulatory protein-1. *Toxicology*, **2014**, 324, 108-15	4.4	5
24	A Northwestern blotting approach for studying iron regulatory element-binding proteins. *Molecular and Cellular Biochemistry*, **2005**, 268, 67-74	4.2	5
23	Variability of proteoglycan expression in the isolated rat glomerulus. *Biochimica Et Biophysica Acta - General Subjects*, **1990**, 1033, 235-42	4	5
22	Acceleration of the mercury-induced aquation of bromopentammine Co(III) by naturally occurring glycosaminoglycans. *Canadian Journal of Chemistry*, **1987**, 65, 2411-2420	0.9	5
21	Chemical modifications of metallothionein, II. Metabolic fate of cadmium bound to metallothionein polymers. *Toxicology Letters*, **1985**, 25, 279-86	4.4	5
20	Nickel binding to the C-terminal tryptic fragment of a peptide from human kidney. *Biochimica Et Biophysica Acta - General Subjects*, **1986**, 884, 383-6	4	5
19	Cell density-dependent shift in activity of iron regulatory protein 1 (IRP-1)/cytosolic (c-)aconitase. *Metallomics*, **2012**, 4, 693-9	4.5	4
18	Low molecular weight targets of metals in human kidney. *Acta Pharmacologica Et Toxicologica*, **1986**, 59 Suppl 7, 416-23		4
17	Transport of iron chelators and chelates across MDCK cell monolayers: implications for iron excretion during chelation therapy. *International Journal of Hematology*, **2010**, 91, 401-12	2.3	4
16	Iron-dependent turnover of IRP-1/c-aconitase in kidney cells. *Metallomics*, **2015**, 7, 766-75	4.5	3
15	Reversed-phase high-performance liquid chromatography of non-transferrin-bound iron and some hydroxypyridone and hydroxypyrone chelators. *Biomedical Applications*, **1994**, 658, 121-7		3
14	IUPAC glossary of terms used in immunotoxicology (IUPAC Recommendations 2012). *Pure and Applied Chemistry*, **2012**, 84, 1113-1295	2.1	2

13	Low-concentration heparin suppresses ionomycin-activated CAMK-II/EGF receptor- and ERK-mediated signaling in mesangial cells. *Journal of Cellular Physiology*, **2010**, 224, 484-90	7	2
12	Selected Examples of Important Metal Protein Species **2005**, 638-649		2
11	Inactivation of kinase cascades in mesangial cells grown on collagen type I. *American Journal of Physiology - Renal Physiology*, **1998**, 275, F585-94	4.3	2
10	IUPAC Glossary of terms used in neurotoxicology (IUPAC Recommendations 2015). *Pure and Applied Chemistry*, **2015**, 87, 841-927	2.1	1
9	Applications of immunochemistry in human health: advances in vaccinology and antibody design (IUPAC Technical Report). *Pure and Applied Chemistry*, **2014**, 86, 1573-1617	2.1	1
8	Structural aspects of molecular recognition in the immune system. Part I: Acquired immunity (IUPAC Technical Report). *Pure and Applied Chemistry*, **2014**, 86, 1435-1481	2.1	1
7	Acceleration of ionic reactions by naturally occurring glycosaminoglycans. II.. *Inorganica Chimica Acta*, **1988**, 153, 165-170	2.7	1
6	Comparative studies of glutathione reductase and lipoamide dehydrogenase. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1988**, 90, 335-9		1
5	Glossary of terms used in developmental and reproductive toxicology (IUPAC Recommendations 2016). *Pure and Applied Chemistry*, **2016**, 88, 713-830	2.1	1
4	Undergraduate Specialist Program in Pathobiology at the University of Toronto. *Academic Pathology*, **2017**, 4, 2374289517747594	1.3	
3	Immunochemical Recognition and Applications. *Pure and Applied Chemistry*, **2014**, 86, 1433-1434	2.1	
2	Elemental Speciation in Clinical Sciences **2012**, 157-177		
1	Interactions of Cadmium with Signaling Molecules **2018**, 53-81		