

# Douglas M Templeton

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Cadmium favors F-actin depolymerization in rat renal mesangial cells by site-specific, disulfide-based dimerization of the CAP1 protein. <i>Archives of Toxicology</i> , <b>2018</b> , 92, 1049-1064	5.8	12
119	Interactions of Cadmium with Signaling Molecules <b>2018</b> , 53-81		
118	Protective effect of cadmium-induced autophagy in rat renal mesangial cells. <i>Archives of Toxicology</i> , <b>2018</b> , 92, 619-631	5.8	20
117	Terminology of elemental speciation [An IUPAC perspective]. <i>Coordination Chemistry Reviews</i> , <b>2017</b> , 352, 424-431	23.2	24
116	Undergraduate Specialist Program in Pathobiology at the University of Toronto. <i>Academic Pathology</i> , <b>2017</b> , 4, 2374289517747594	1.3	
115	Glossary of terms used in developmental and reproductive toxicology (IUPAC Recommendations 2016). <i>Pure and Applied Chemistry</i> , <b>2016</b> , 88, 713-830	2.1	1
114	IUPAC Glossary of terms used in neurotoxicology (IUPAC Recommendations 2015). <i>Pure and Applied Chemistry</i> , <b>2015</b> , 87, 841-927	2.1	1
113	Heparin interaction with a receptor on hyperglycemic dividing cells prevents intracellular hyaluronan synthesis and autophagy responses in models of type 1 diabetes. <i>Matrix Biology</i> , <b>2015</b> , 48, 36-41	11.4	10
112	Speciation in Metal Toxicity and Metal-Based Therapeutics. <i>Toxics</i> , <b>2015</b> , 3, 170-186	4.7	20
111	Iron-dependent turnover of IRP-1/c-aconitase in kidney cells. <i>Metallomics</i> , <b>2015</b> , 7, 766-75	4.5	3
110	Interplay of calcium and cadmium in mediating cadmium toxicity. <i>Chemico-Biological Interactions</i> , <b>2014</b> , 211, 54-65	5	142
109	Cadmium-induced aggregation of iron regulatory protein-1. <i>Toxicology</i> , <b>2014</b> , 324, 108-15	4.4	5
108	Immunodiagnostics and immunosensor design (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1539-1571	2.1	8
107	Applications of immunochemistry in human health: advances in vaccinology and antibody design (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1573-1617	2.1	1
106	Structural aspects of molecular recognition in the immune system. Part I: Acquired immunity (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1435-1481	2.1	1
105	Immunochemical Recognition and Applications. <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1433-1434	2.1	
104	Cadmium-induced glutathionylation of actin occurs through a ROS-independent mechanism: implications for cytoskeletal integrity. <i>Toxicology and Applied Pharmacology</i> , <b>2013</b> , 272, 423-30	4.6	18

103	Involvement of CaMK-II and gelsolin in Cd(2+) -dependent cytoskeletal effects in mesangial cells. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 78-86	7	8
102	Cadmium affects focal adhesion kinase (FAK) in mesangial cells: involvement of CaMK-II and the actin cytoskeleton. <i>Journal of Cellular Biochemistry</i> , <b>2013</b> , 114, 1832-42	4-7	17
101	Effects of cadmium on the actin cytoskeleton in renal mesangial cells. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2013</b> , 91, 1-7	2-4	14
100	Cell density-dependent shift in activity of iron regulatory protein 1 (IRP-1)/cytosolic (c-)aconitase. <i>Metallomics</i> , <b>2012</b> , 4, 693-9	4-5	4
99	Elemental Speciation in Clinical Sciences <b>2012</b> , 157-177		
98	IUPAC glossary of terms used in immunotoxicology (IUPAC Recommendations 2012). <i>Pure and Applied Chemistry</i> , <b>2012</b> , 84, 1113-1295	2-1	2
97	Explanatory dictionary of key terms in toxicology: Part II (IUPAC Recommendations 2010). <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 679-751	2-1	12
96	Role of the cytoskeleton in Cd2+-induced death of mouse mesangial cells. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2010</b> , 88, 341-52	2-4	15
95	Interaction of iron regulatory protein-1 (IRP-1) with ATP/ADP maintains a non-IRE-binding state. <i>Biochemical Journal</i> , <b>2010</b> , 430, 315-24	3-8	9
94	Transport of iron chelators and chelates across MDCK cell monolayers: implications for iron excretion during chelation therapy. <i>International Journal of Hematology</i> , <b>2010</b> , 91, 401-12	2-3	4
93	Multiple roles of cadmium in cell death and survival. <i>Chemico-Biological Interactions</i> , <b>2010</b> , 188, 267-75	5	200
92	Low-concentration heparin suppresses ionomycin-activated CAMK-II/EGF receptor- and ERK-mediated signaling in mesangial cells. <i>Journal of Cellular Physiology</i> , <b>2010</b> , 224, 484-90	7	2
91	Immunological effects of mercury (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 153-167	16-1	13
90	Pleiotropic effects of cadmium in mesangial cells. <i>Toxicology and Applied Pharmacology</i> , <b>2009</b> , 238, 315-266	26-6	35
89	Glossary of terms used in ecotoxicology (IUPAC Recommendations 2009). <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 829-970	2-1	31
88	Lymphocyte subpopulations in human exposure to metals (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2008</b> , 80, 1349-1364	2-1	9
87	Initiation of caspase-independent death in mouse mesangial cells by Cd2+: involvement of p38 kinase and CaMK-II. <i>Journal of Cellular Physiology</i> , <b>2008</b> , 217, 307-18	7	48
86	Heparin suppresses lipid raft-mediated signaling and ligand-independent EGF receptor activation. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 211, 205-12	7	18

85	Inhibition of an iron-responsive element/iron regulatory protein-1 complex by ATP binding and hydrolysis. <i>FEBS Journal</i> , <b>2007</b> , 274, 3108-19	5.7	13
84	Effect of hypoxia on the binding and subcellular distribution of iron regulatory proteins. <i>Molecular and Cellular Biochemistry</i> , <b>2007</b> , 301, 21-32	4.2	21
83	Explanatory dictionary of key terms in toxicology (IUPAC Recommendations 2007). <i>Pure and Applied Chemistry</i> , <b>2007</b> , 79, 1583-1633	2.1	11
82	Glossary of terms used in toxicology, 2nd edition (IUPAC Recommendations 2007). <i>Pure and Applied Chemistry</i> , <b>2007</b> , 79, 1153-1344	2.1	126
81	Cadmium activates CaMK-II and initiates CaMK-II-dependent apoptosis in mesangial cells. <i>FEBS Letters</i> , <b>2007</b> , 581, 1481-6	3.8	65
80	Mitochondrial involvement in genetically determined transition metal toxicity I. Iron toxicity. <i>Chemico-Biological Interactions</i> , <b>2006</b> , 163, 68-76	5	23
79	Mitochondrial involvement in genetically determined transition metal toxicity II. Copper toxicity. <i>Chemico-Biological Interactions</i> , <b>2006</b> , 163, 77-85	5	52
78	Involvement of gelsolin in cadmium-induced disruption of the mesangial cell cytoskeleton. <i>Toxicological Sciences</i> , <b>2006</b> , 89, 465-74	4.4	25
77	Cadmium inhibits both intrinsic and extrinsic apoptotic pathways in renal mesangial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2006</b> , 290, F1074-82	4.3	25
76	Cytokine profiles in human exposure to metals (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2006</b> , 78, 2155-2168	2.1	10
75	Iron-loaded cardiac myocytes stimulate cardiac myofibroblast DNA synthesis. <i>Molecular and Cellular Biochemistry</i> , <b>2006</b> , 281, 77-85	4.2	9
74	Selected Examples of Important Metal-Protein Species <b>2005</b> , 638-649		2
73	A Northwestern blotting approach for studying iron regulatory element-binding proteins. <i>Molecular and Cellular Biochemistry</i> , <b>2005</b> , 268, 67-74	4.2	5
72	Ca(2+)/calmodulin-dependent protein kinase II inhibition by heparin in mesangial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2005</b> , 288, F142-9	4.3	7
71	Iron accumulation and iron-regulatory protein activity in human hepatoma (HepG2) cells. <i>Molecular and Cellular Biochemistry</i> , <b>2004</b> , 265, 37-45	4.2	19
70	The importance of trace element speciation in biomedical science. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 375, 1062-6	4.4	26
69	Suppression of mitogen-activated protein kinase phosphatase-1 (MKP-1) by heparin in vascular smooth muscle cells. <i>Biochemical Pharmacology</i> , <b>2003</b> , 66, 769-76	6	8
68	Modulation of stellate cell proliferation and gene expression by rat hepatocytes: effect of toxic iron overload. <i>Toxicology Letters</i> , <b>2003</b> , 144, 225-33	4.4	14

67	Differential accumulation of non-transferrin-bound iron by cardiac myocytes and fibroblasts. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2003</b> , 35, 505-14	5.8	31
66	Genetic regulation of cell function in response to iron overload or chelation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2003</b> , 1619, 113-24	4	89
65	Ca(2+)/calmodulin-dependent and cAMP-dependent kinases in induction of c-fos in human mesangial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2002</b> , 283, F888-94	4.3	7
64	Molecular and Cellular Iron Transport <b>2002</b> ,		9
63	The effects of cardiac myocytes on interstitial fibroblasts in toxic iron overload. <i>Cardiovascular Toxicology</i> , <b>2001</b> , 1, 299-308	3.4	6
62	Activation of parallel mitogen-activated protein kinase cascades and induction of c-fos by cadmium. <i>Toxicology and Applied Pharmacology</i> , <b>2000</b> , 162, 93-9	4.6	79
61	Heterogeneity in the response of vascular smooth muscle to heparin: altered signaling in heparin-resistant cells. <i>Cardiovascular Research</i> , <b>2000</b> , 45, 503-12	9.9	8
60	Stress-activated protein kinase-dependent induction of c-fos by Cd(2+) is mediated by MKK7. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 273, 718-22	3.4	25
59	Changes in gene expression with iron loading and chelation in cardiac myocytes and non-myocytic fibroblasts. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2000</b> , 32, 233-46	5.8	44
58	Guidelines for terms related to chemical speciation and fractionation of elements. Definitions, structural aspects, and methodological approaches (IUPAC Recommendations 2000). <i>Pure and Applied Chemistry</i> , <b>2000</b> , 72, 1453-1470	2.1	676
57	Absorption and retention of nickel from drinking water in relation to food intake and nickel sensitivity. <i>Toxicology and Applied Pharmacology</i> , <b>1999</b> , 154, 67-75	4.6	99
56	Biomedical aspects of trace element speciation. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1999</b> , 363, 505-511		35
55	Heparan sulfate chains with antimitogenic properties arise from mesangial cell-surface proteoglycans. <i>Metabolism: Clinical and Experimental</i> , <b>1999</b> , 48, 1220-9	12.7	9
54	Long-term safety and effectiveness of iron-chelation therapy with deferiprone for thalassemia major. <i>New England Journal of Medicine</i> , <b>1998</b> , 339, 417-23	59.2	322
53	Cadmium and calcium-dependent c-fos expression in mesangial cells. <i>Toxicology Letters</i> , <b>1998</b> , 95, 1-8	4.4	19
52	Induction of c-fos proto-oncogene in mesangial cells by cadmium. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 73-9	5.4	79
51	Inactivation of kinase cascades in mesangial cells grown on collagen type I. <i>American Journal of Physiology - Renal Physiology</i> , <b>1998</b> , 275, F585-94	4.3	2
50	Characterization of Fe <sup>2+</sup> and Fe <sup>3+</sup> transport by iron-loaded cardiac myocytes. <i>Toxicology</i> , <b>1997</b> , 117, 141-51	4.4	37

49	Posttranscriptional effects of glucose on proteoglycan expression in mesangial cells. <i>Metabolism: Clinical and Experimental</i> , <b>1996</b> , 45, 1136-46	12.7	18
48	Cellular factors mediate cadmium-dependent actin depolymerization. <i>Toxicology and Applied Pharmacology</i> , <b>1996</b> , 139, 115-21	4.6	42
47	Calcium-independent effects of cadmium on actin assembly in mesangial and vascular smooth muscle cells. <i>Cytoskeleton</i> , <b>1996</b> , 33, 208-22		39
46	Iron-hydroxypyridone redox chemistry: kinetic and thermodynamic limitations to Fenton activity. <i>Inorganica Chimica Acta</i> , <b>1996</b> , 245, 199-207	2.7	19
45	Inhibition of mitogenesis and c-fos induction in mesangial cells by heparin and heparan sulfates. <i>Kidney International</i> , <b>1996</b> , 49, 437-48	9.9	29
44	Heparin inhibits mitogen-activated protein kinase-dependent and -independent c-fos induction in mesangial cells. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 17100-6	5.4	42
43	Iron-chelation therapy with oral deferiprone in patients with thalassemia major. <i>New England Journal of Medicine</i> , <b>1995</b> , 332, 918-22	59.2	270
42	Modulation by iron loading and chelation of the uptake of non-transferrin-bound iron by human liver cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1995</b> , 1243, 373-80	4	45
41	Measurement of platinum in biomedical silicones by ICP-MS. <i>Analytical Proceedings</i> , <b>1995</b> , 32, 293		10
40	Brief report: combined liver and heart transplantation for end-stage iron-induced organ failure in an adult with homozygous beta-thalassemia. <i>New England Journal of Medicine</i> , <b>1994</b> , 330, 1125-7	59.2	59
39	Growth modulation and proteoglycan turnover in cultured mesangial cells. <i>Journal of Cellular Physiology</i> , <b>1994</b> , 159, 295-310	7	26
38	Reversed-phase high-performance liquid chromatography of non-transferrin-bound iron and some hydroxypyridone and hydroxypyronone chelators. <i>Biomedical Applications</i> , <b>1994</b> , 658, 121-7		3
37	Tentative reference values for nickel concentrations in human serum, plasma, blood, and urine: evaluation according to the TRACY protocol. <i>Science of the Total Environment</i> , <b>1994</b> , 148, 243-51	10.2	48
36	Isotope-specific analysis of Ni by ICP-MS: applications of stable isotope tracers to biokinetic studies. <i>Science of the Total Environment</i> , <b>1994</b> , 148, 253-62	10.2	12
35	Copper complexation by 3-hydroxypyridin-4-one iron chelators: structural and iron competition studies. <i>Journal of Medicinal Chemistry</i> , <b>1994</b> , 37, 461-6	8.3	42
34	Determination of nickel in serum and urine by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1993</b> , 8, 445	3.7	15
33	Protective elevations of glutathione and metallothionein in cadmium-exposed mesangial cells. <i>Toxicology</i> , <b>1993</b> , 77, 145-56	4.4	83
32	Electrochemical oxidation of some therapeutic 3-hydroxypyridin-4-one iron chelators. <i>Electrochimica Acta</i> , <b>1993</b> , 38, 2223-2230	6.7	8

31	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). <i>FEBS Letters</i> , <b>1993</b> , 318, 292-6	3.8	47
30	Proteoglycans in cell regulation. <i>Critical Reviews in Clinical Laboratory Sciences</i> , <b>1992</b> , 29, 141-84	9.4	65
29	Conserved charge of glomerular and mesangial cell proteoglycans: possible role of amino acid-derived sulphate. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1992</b> , 70, 843-52	2.4	7
28	Structure and metabolism of multiple heparan sulphate proteoglycans synthesized by the isolated rat glomerulus. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1992</b> , 1136, 119-28	4.9	8
27	Effects of CdCl <sub>2</sub> and Cd-metallothionein on cultured mesangial cells. <i>Toxicology and Applied Pharmacology</i> , <b>1992</b> , 116, 133-41	4.6	24
26	Speciation of tissue and cellular iron with on-line detection by inductively coupled plasma-mass spectrometry. <i>Analytical Biochemistry</i> , <b>1992</b> , 205, 278-84	3.1	34
25	Growth failure and bony changes induced by deferoxamine. <i>Journal of Pediatric Hematology/Oncology</i> , <b>1992</b> , 14, 48-56	1.2	98
24	Toxicological significance of metallothionein. <i>Methods in Enzymology</i> , <b>1991</b> , 205, 11-24	1.7	108
23	Multielement analysis of biological samples by inductively coupled plasma-mass spectrometry. II. Rapid survey method for profiling trace elements in body fluids. <i>Clinical Chemistry</i> , <b>1991</b> , 37, 210-215	5.5	35
22	Assessment of ICP-MS for routine multielement analysis of soil samples in environmental trace element studies. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1990</b> , 336, 99-105		18
21	Effects of divalent metals on the isolated rat glomerulus. <i>Toxicology</i> , <b>1990</b> , 61, 119-33	4.4	21
20	Variability of proteoglycan expression in the isolated rat glomerulus. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1990</b> , 1033, 235-42	4	5
19	Comparison of oral iron chelator L1 and desferrioxamine in iron-loaded patients. <i>Lancet, The</i> , <b>1990</b> , 336, 1275-9	4.0	145
18	Evaluation of the oral iron chelator 1,2-dimethyl-3-hydroxypyrid-4-one (L1) in iron-loaded patients. <i>Annals of the New York Academy of Sciences</i> , <b>1990</b> , 612, 369-77	6.5	15
17	Determination of Ni by ICP-MS: Correction of Calcium Oxide and Hydroxide Interferences Using Principal Components Analysis. <i>Applied Spectroscopy</i> , <b>1990</b> , 44, 1685-1689	3.1	25
16	Multielement analysis of biological samples by inductively coupled plasma-mass spectrometry. I. Preliminary considerations and analysis of rat liver and serum. <i>Biological Trace Element Research</i> , <b>1989</b> , 22, 17-33	4.5	18
15	Use of inductively coupled plasma-mass spectrometry (icp-ms) for assessing trace element contamination in blood sampling devices. <i>Science of the Total Environment</i> , <b>1989</b> , 89, 343-352	10.2	12
14	Acceleration of ionic reactions by naturally occurring glycosaminoglycans. II.. <i>Inorganica Chimica Acta</i> , <b>1988</b> , 153, 165-170	2.7	1

13	General occurrence of isosbestic points in the metachromatic dye complexes of sulphated glycosaminoglycans. <i>International Journal of Biological Macromolecules</i> , <b>1988</b> , 10, 131-136	7.9	10
12	The basis and applicability of the dimethylmethylene blue binding assay for sulfated glycosaminoglycans. <i>Connective Tissue Research</i> , <b>1988</b> , 17, 23-32	3.3	63
11	Comparative studies of glutathione reductase and lipoamide dehydrogenase. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , <b>1988</b> , 90, 335-9		1
10	Synthesis of heparan sulfate proteoglycans by the isolated glomerulus. <i>Biochemistry and Cell Biology</i> , <b>1988</b> , 66, 1078-85	3.6	7
9	Metal-binding properties of the isolated glomerular basement membrane. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1987</b> , 926, 94-105	4	13
8	Acceleration of the mercury-induced aquation of bromopentammine Co(III) by naturally occurring glycosaminoglycans. <i>Canadian Journal of Chemistry</i> , <b>1987</b> , 65, 2411-2420	0.9	5
7	Interaction of toxic cations with the glomerulus: binding of Ni to purified glomerular basement membrane. <i>Toxicology</i> , <b>1987</b> , 43, 1-15	4.4	12
6	Low molecular weight targets of metals in human kidney. <i>Acta Pharmacologica Et Toxicologica</i> , <b>1986</b> , 59 Suppl 7, 416-23		4
5	Nickel binding to the C-terminal tryptic fragment of a peptide from human kidney. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1986</b> , 884, 383-6	4	5
4	Metallothionein synthesis and localization in relation to metal storage in rat liver during gestation. <i>Canadian Journal of Biochemistry and Cell Biology</i> , <b>1985</b> , 63, 16-22		61
3	Chemical modifications of metallothionein, II. Metabolic fate of cadmium bound to metallothionein polymers. <i>Toxicology Letters</i> , <b>1985</b> , 25, 279-86	4.4	5
2	Fletcher-Powell minimization of analytical potentiometric data by microcomputer: application to the Cu(II) complexes of biological polyamines. <i>Canadian Journal of Chemistry</i> , <b>1985</b> , 63, 3122-3128	0.9	27
1	Effects of zinc deficiency on pre-existing cadmium-metallothionein in the pancreas. <i>Toxicology</i> , <b>1984</b> , 29, 251-60	4.4	10