

# Miroslav Styblo

## List of Publications by Year in descending order

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119  
papers

9,863  
citations

36691

53  
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39744

98  
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122  
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122  
docs citations

122  
times ranked

6255  
citing authors

#	ARTICLE	IF	CITATIONS
1	The pharmacokinetics of therapeutic arsenic trioxide in acute promyelocytic leukemia patients. <i>Leukemia and Lymphoma</i> , 2022, 63, 653-663.	0.6	3
2	Candidate master microRNA regulator of arsenic-induced pancreatic beta cell impairment revealed by multi-omics analysis. <i>Archives of Toxicology</i> , 2022, 96, 1685-1699.	1.9	6
3	Arsenic 3 methyltransferase (AS3MT) automethylates on cysteine residues in vitro. <i>Archives of Toxicology</i> , 2022, 96, 1371-1386.	1.9	2
4	Maternal serum concentrations of one-carbon metabolism factors modify the association between biomarkers of arsenic methylation efficiency and birth weight. <i>Environmental Health</i> , 2022, 21, .	1.7	2
5	An interaction of inorganic arsenic exposure with body weight and composition on type 2 diabetes indicators in Diversity Outbred mice. <i>Mammalian Genome</i> , 2022, 33, 575-589.	1.0	4
6	Sex-dependent effects of preconception exposure to arsenite on gene transcription in parental germ cells and on transcriptomic profiles and diabetic phenotype of offspring. <i>Archives of Toxicology</i> , 2021, 95, 473-488.	1.9	7
7	Origins, fate, and actions of methylated trivalent metabolites of inorganic arsenic: progress and prospects. <i>Archives of Toxicology</i> , 2021, 95, 1547-1572.	1.9	42
8	Diverse genetic backgrounds play a prominent role in the metabolic phenotype of CC021/Unc and CC027/GeniUNC mice exposed to inorganic arsenic. <i>Toxicology</i> , 2021, 452, 152696.	2.0	2
9	Nutritional modulation of fetal susceptibility to iAs-associated gene expression underlying oxidative stress and inflammation in cord blood. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
10	Metabolism of Inorganic Arsenic in Mice Lacking Genes Encoding GST-P, GST-M, and GST-T. <i>Chemical Research in Toxicology</i> , 2020, 33, 2043-2046.	1.7	3
11	Arsenic Metabolism in Mice Carrying a <i>BORCS7/AS3MT</i> Locus Humanized by Syntenic Replacement. <i>Environmental Health Perspectives</i> , 2020, 128, 87003.	2.8	27
12	Exposure to inorganic arsenic and its methylated metabolites alters metabolomics profiles in INS-1 832/13 insulinoma cells and isolated pancreatic islets. <i>Archives of Toxicology</i> , 2020, 94, 1955-1972.	1.9	17
13	Arsenite and its trivalent methylated metabolites inhibit glucose-stimulated calcium influx and insulin secretion in murine pancreatic islets. <i>Archives of Toxicology</i> , 2019, 93, 2525-2533.	1.9	20
14	Effects of Preconception and in Utero Inorganic Arsenic Exposure on the Metabolic Phenotype of Genetically Diverse Collaborative Cross Mice. <i>Chemical Research in Toxicology</i> , 2019, 32, 1487-1490.	1.7	7
15	Differential metabolism of inorganic arsenic in mice from genetically diverse Collaborative Cross strains. <i>Archives of Toxicology</i> , 2019, 93, 2811-2822.	1.9	15
16	Arsenic is more potent than cadmium or manganese in disrupting the INS-1 beta cell microRNA landscape. <i>Archives of Toxicology</i> , 2019, 93, 3099-3109.	1.9	20
17	Dose and Diet – Sources of Arsenic Intake in Mouse <i>in Utero</i> Exposure Scenarios. <i>Chemical Research in Toxicology</i> , 2018, 31, 156-164.	1.7	18
18	Prenatal arsenic exposure and dietary folate and methylcobalamin supplementation alter the metabolic phenotype of C57BL/6J mice in a sex-specific manner. <i>Archives of Toxicology</i> , 2018, 92, 1925-1937.	1.9	43

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19	Arsenite and methylarsonite inhibit mitochondrial metabolism and glucose-stimulated insulin secretion in INS-1 832/13 $\beta^2$ cells. Archives of Toxicology, 2018, 92, 693-704.	1.9	39
20	Metabolic Phenotype of Wild-Type and <i>As3mt</i> -Knockout C57BL/6J Mice Exposed to Inorganic Arsenic: The Role of Dietary Fat and Folate Intake. Environmental Health Perspectives, 2018, 126, 127003.	2.8	22
21	Circulating miRNAs Associated with Arsenic Exposure. Environmental Science & Technology, 2018, 52, 14487-14495.	4.6	25
22	Impact of in vitro heavy metal exposure on pancreatic $\beta^2$ -cell function. Toxicology Letters, 2018, 299, 137-144.	0.4	27
23	Maternal one carbon metabolism and arsenic methylation in a pregnancy cohort in Mexico. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 505-514.	1.8	19
24	Metabolomic profiles of arsenic (+3 oxidation state) methyltransferase knockout mice: effect of sex and arsenic exposure. Archives of Toxicology, 2017, 91, 189-202.	1.9	24
25	Arsenic Exposure and Type 2 Diabetes: MicroRNAs as Mechanistic Links?. Current Diabetes Reports, 2017, 17, 18.	1.7	30
26	Genetic and epigenetic mechanisms underlying arsenic-associated diabetes mellitus: a perspective of the current evidence. Epigenomics, 2017, 9, 701-710.	1.0	43
27	Efflux Transporters Regulate Arsenite-Induced Genotoxicity in Double Negative and Double Positive T Cells. Toxicological Sciences, 2017, 158, 127-139.	1.4	10
28	Neonatal Metabolomic Profiles Related to Prenatal Arsenic Exposure. Environmental Science & Technology, 2017, 51, 625-633.	4.6	30
29	Exposures to arsenite and methylarsonite produce insulin resistance and impair insulin-dependent glycogen metabolism in hepatocytes. Archives of Toxicology, 2017, 91, 3811-3821.	1.9	28
30	Genotoxicity induced by monomethylarsonous acid (MMA +3 ) in mouse thymic developing T cells. Toxicology Letters, 2017, 279, 60-66.	0.4	14
31	Direct Speciation Analysis of Arsenic in Whole Blood and Blood Plasma at Low Exposure Levels by Hydride Generation-Cryotrapping-Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2017, 89, 9633-9637.	3.2	39
32	Knockout of arsenic (+3 oxidation state) methyltransferase is associated with adverse metabolic phenotype in mice: the role of sex and arsenic exposure. Archives of Toxicology, 2017, 91, 2617-2627.	1.9	36
33	The Association of Arsenic Exposure and Metabolism With Type 1 and Type 2 Diabetes in Youth: The SEARCH Case-Control Study. Diabetes Care, 2017, 40, 46-53.	4.3	61
34	Chronic Exposure to Arsenic and Markers of Cardiometabolic Risk: A Cross-Sectional Study in Chihuahua, Mexico. Environmental Health Perspectives, 2016, 124, 104-111.	2.8	96
35	Expression of the Longest RGS4 Splice Variant in the Prefrontal Cortex Is Associated with Single Nucleotide Polymorphisms in Schizophrenia Patients. Frontiers in Psychiatry, 2016, 7, 26.	1.3	8
36	Association Between Variants in Arsenic (+3 Oxidation State) Methyltransferase ( <i>AS3MT</i> ) and Urinary Metabolites of Inorganic Arsenic: Role of Exposure Level. Toxicological Sciences, 2016, 153, 112-123.	1.4	14

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37	Knockout of arsenic (+3 oxidation state) methyltransferase results in sex-dependent changes in phosphatidylcholine metabolism in mice. <i>Archives of Toxicology</i> , 2016, 90, 3125-3128.	1.9	6
38	Oxidation state specific analysis of arsenic species in tissues of wild-type and arsenic (+ 3 oxidation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.2	32
39	Differential sensitivities of bone marrow, spleen and thymus to genotoxicity induced by environmentally relevant concentrations of arsenite. <i>Toxicology Letters</i> , 2016, 262, 55-61.	0.4	26
40	Phase I and pharmacokinetic evaluation of the anti-telomerase agent KML-001 with cisplatin in advanced solid tumors. <i>Cancer Chemotherapy and Pharmacology</i> , 2016, 78, 959-967.	1.1	9
41	Biological and behavioral factors modify urinary arsenic metabolic profiles in a U.S. population. <i>Environmental Health</i> , 2016, 15, 62.	1.7	43
42	Analysis of maternal polymorphisms in arsenic (+3 oxidation state)-methyltransferase AS3MT and fetal sex in relation to arsenic metabolism and infant birth outcomes: Implications for risk analysis. <i>Reproductive Toxicology</i> , 2016, 61, 28-38.	1.3	26
43	A Concurrent Exposure to Arsenic and Fluoride from Drinking Water in Chihuahua, Mexico. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 4587-4601.	1.2	71
44	Identification of Novel Gene Targets and Putative Regulators of Arsenic-Associated DNA Methylation in Human Urothelial Cells and Bladder Cancer. <i>Chemical Research in Toxicology</i> , 2015, 28, 1144-1155.	1.7	26
45	Prenatal Arsenic Exposure and the Epigenome: Identifying Sites of 5-methylcytosine Alterations that Predict Functional Changes in Gene Expression in Newborn Cord Blood and Subsequent Birth Outcomes. <i>Toxicological Sciences</i> , 2015, 143, 97-106.	1.4	157
46	Metabolomic Characteristics of Arsenic-Associated Diabetes in a Prospective Cohort in Chihuahua, Mexico. <i>Toxicological Sciences</i> , 2015, 144, 338-346.	1.4	44
47	Maternal Arsenic Exposure, Arsenic Methylation Efficiency, and Birth Outcomes in the Biomarkers of Exposure to ARsenic (BEAR) Pregnancy Cohort in Mexico. <i>Environmental Health Perspectives</i> , 2015, 123, 186-192.	2.8	121
48	Associations between Arsenic Species in Exfoliated Urothelial Cells and Prevalence of Diabetes among Residents of Chihuahua, Mexico. <i>Environmental Health Perspectives</i> , 2014, 122, 1088-1094.	2.8	48
49	Prenatal arsenic exposure and the epigenome: Altered microRNAs associated with innate and adaptive immune signaling in newborn cord blood. <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 196-208.	0.9	171
50	Speciation Analysis of Arsenic by Selective Hydride Generation-Cryotrapping-Atomic Fluorescence Spectrometry with Flame-in-Gas-Shield Atomizer: Achieving Extremely Low Detection Limits with Inexpensive Instrumentation. <i>Analytical Chemistry</i> , 2014, 86, 10422-10428.	3.2	50
51	Selective hydride generation-cryotrapping-ICP-MS for arsenic speciation analysis at picogram levels: analysis of river and sea water reference materials and human bladder epithelial cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1456.	1.6	47
52	Comparative oxidation state specific analysis of arsenic species by high-performance liquid chromatography-inductively coupled plasma-mass spectrometry and hydride generation-cryotrapping-atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 843.	1.6	19
53	Methylated trivalent arsenicals are potent inhibitors of glucose stimulated insulin secretion by murine pancreatic islets. <i>Toxicology and Applied Pharmacology</i> , 2013, 267, 11-15.	1.3	98
54	Arsenic and the Epigenome: Interindividual Differences in Arsenic Metabolism Related to Distinct Patterns of DNA Methylation. <i>Journal of Biochemical and Molecular Toxicology</i> , 2013, 27, 106-115.	1.4	97

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55	Environmental exposure to arsenic, AS3MT polymorphism and prevalence of diabetes in Mexico. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2013, 23, 151-155.	1.8	51
56	B-vitamins influence arsenic metabolism in Mexico. <i>FASEB Journal</i> , 2013, 27, 1077-20.	0.2	1
57	Evaluation of the Association between Arsenic and Diabetes: A National Toxicology Program Workshop Review. <i>Environmental Health Perspectives</i> , 2012, 120, 1658-1670.	2.8	299
58	Identification of the GST-T1 and GST-M1 Null Genotypes Using High Resolution Melting Analysis. <i>Chemical Research in Toxicology</i> , 2012, 25, 216-224.	1.7	8
59	Methylation of arsenic by recombinant human wild-type arsenic (+3 oxidation state) methyltransferase and its methionine 287 threonine (M287T) polymorph: Role of glutathione. <i>Toxicology and Applied Pharmacology</i> , 2012, 264, 121-130.	1.3	46
60	The epigenetic effects of a high prenatal folate intake in male mouse fetuses exposed in utero to arsenic. <i>Toxicology and Applied Pharmacology</i> , 2012, 264, 439-450.	1.3	54
61	Direct analysis and stability of methylated trivalent arsenic metabolites in cells and tissues. <i>Metallomics</i> , 2011, 3, 1347.	1.0	29
62	Direct Analysis of Methylated Trivalent Arsenicals in Mouse Liver by Hydride Generation-Cryotrapping-Atomic Absorption Spectrometry. <i>Chemical Research in Toxicology</i> , 2011, 24, 478-480.	1.7	32
63	Epigenetic Changes in Individuals with Arsenicosis. <i>Chemical Research in Toxicology</i> , 2011, 24, 165-167.	1.7	147
64	Exposure to arsenic in drinking water is associated with increased prevalence of diabetes: a cross-sectional study in the Zimapán and Lagunera regions in Mexico. <i>Environmental Health</i> , 2011, 10, 73.	1.7	182
65	Characterization of the Impaired Glucose Homeostasis Produced in C57BL/6 Mice by Chronic Exposure to Arsenic and High-Fat Diet. <i>Environmental Health Perspectives</i> , 2011, 119, 1104-1109.	2.8	116
66	Metabolism of arsenic in human liver: the role of membrane transporters. <i>Archives of Toxicology</i> , 2010, 84, 3-16.	1.9	111
67	Interspecies differences in metabolism of arsenic by cultured primary hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2010, 245, 47-56.	1.3	56
68	Arsenic (+3 oxidation state) methyltransferase genotype affects steady-state distribution and clearance of arsenic in arsenate-treated mice. <i>Toxicology and Applied Pharmacology</i> , 2010, 249, 217-223.	1.3	63
69	Requirement of Arsenic Biomethylation for Oxidative DNA Damage. <i>Journal of the National Cancer Institute</i> , 2009, 101, 1670-1681.	3.0	110
70	Association of AS3MT polymorphisms and the risk of premalignant arsenic skin lesions. <i>Toxicology and Applied Pharmacology</i> , 2009, 239, 200-207.	1.3	104
71	Disruption of the Arsenic (+3 Oxidation State) Methyltransferase Gene in the Mouse Alters the Phenotype for Methylation of Arsenic and Affects Distribution and Retention of Orally Administered Arsenate. <i>Chemical Research in Toxicology</i> , 2009, 22, 1713-1720.	1.7	145
72	An Overview of Arsenic Metabolism and Toxicity. <i>Current Protocols in Toxicology / Editorial Board</i> , Mahin D Maines (editor-in-chief) [et al ], 2009, 42, 4.31.1-4.31.6.	1.1	55

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73	Analysis of Arsenical Metabolites in Biological Samples. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al ], 2009, 42, 4.33.1-4.33.17.	1.1	6
74	Oxidation state specific generation of arsines from methylated arsenicals based on l-cysteine treatment in buffered media for speciation analysis by hydride generation-automated cryotrapping-gas chromatography-atomic absorption spectrometry with the multiatomizer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 396-406.	1.5	81
75	Tissue dosimetry, metabolism and excretion of pentavalent and trivalent dimethylated arsenic in mice after oral administration. Toxicology and Applied Pharmacology, 2008, 227, 26-35.	1.3	47
76	Speciation analysis of arsenic in biological matrices by automated hydride generation-cryotrapping-atomic absorption spectrometry with multiple microflame quartz tube atomizer (multiatomizer). Journal of Analytical Atomic Spectrometry, 2008, 23, 342-351.	1.6	102
77	Speciation of Arsenic in Exfoliated Urinary Bladder Epithelial Cells from Individuals Exposed to Arsenic in Drinking Water. Environmental Health Perspectives, 2008, 116, 1656-1660.	2.8	33
78	Environmental arsenic as a disruptor of insulin signaling. Me, 2008, 10, 1-7.	1.0	16
79	Molecular Mechanisms of the Diabetogenic Effects of Arsenic: Inhibition of Insulin Signaling by Arsenite and Methylarsonous Acid. Environmental Health Perspectives, 2007, 115, 734-742.	2.8	138
80	Examination of the effects of arsenic on glucose homeostasis in cell culture and animal studies: Development of a mouse model for arsenic-induced diabetes. Toxicology and Applied Pharmacology, 2007, 222, 305-314.	1.3	121
81	Activation of superoxide dismutase in selenium-deficient mice infected with influenza virus. Journal of Trace Elements in Medicine and Biology, 2007, 21, 52-62.	1.5	21
82	Arsenic (+3 oxidation state) methyltransferase and the methylation of arsenicals. Experimental Biology and Medicine, 2007, 232, 3-13.	1.1	179
83	shRNA Silencing of AS3MT Expression Minimizes Arsenic Methylation Capacity of HepG2 Cells. Chemical Research in Toxicology, 2006, 19, 894-898.	1.7	74
84	Methylarsonous Acid Transport by Aquaglyceroporins. Environmental Health Perspectives, 2006, 114, 527-531.	2.8	66
85	Selenoprotein P is not essential for an effective immune response to influenza infection in mice. FASEB Journal, 2006, 20, A1067.	0.2	0
86	Glutathione-S-transferase $\gamma$ inhibits As <sub>2</sub> O <sub>3</sub> -induced apoptosis in lymphoma cells: involvement of hydrogen peroxide catabolism. Blood, 2005, 105, 1198-1203.	0.6	60
87	Molecular events associated with arsenic-induced malignant transformation of human prostatic epithelial cells: aberrant genomic DNA methylation and K-ras oncogene activation. Toxicology and Applied Pharmacology, 2005, 206, 288-298.	1.3	155
88	Arsenic (+3 oxidation state) methyltransferase and the inorganic arsenic methylation phenotype. Toxicology and Applied Pharmacology, 2005, 204, 164-169.	1.3	60
89	Metabolism and toxicity of arsenic in human urothelial cells expressing rat arsenic (+3 oxidation) Tj ETQq1 1 0.784314 rgBT /Overlock 11	1.3	122
90	Tissue dosimetry, metabolism and excretion of pentavalent and trivalent monomethylated arsenic in mice after oral administration. Toxicology and Applied Pharmacology, 2005, 208, 186-197.	1.3	49

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91	Elucidating the pathway for arsenic methylation*1. <i>Toxicology and Applied Pharmacology</i> , 2004, 198, 319-326.	1.3	262
92	Inhibition of insulin-dependent glucose uptake by trivalent arsenicals: possible mechanism of arsenic-induced diabetes. <i>Toxicology and Applied Pharmacology</i> , 2004, 198, 424-433.	1.3	161
93	Interindividual variation in the metabolism of arsenic in cultured primary human hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2004, 201, 166-177.	1.3	78
94	Glutathione Modulates Recombinant Rat Arsenic (+3 Oxidation State) Methyltransferase-Catalyzed Formation of Trimethylarsine Oxide and Trimethylarsine. <i>Chemical Research in Toxicology</i> , 2004, 17, 1621-1629.	1.7	63
95	Endogenous Reductants Support the Catalytic Function of Recombinant Rat Cyt19, an Arsenic Methyltransferase. <i>Chemical Research in Toxicology</i> , 2004, 17, 404-409.	1.7	111
96	Comprehensive analysis of arsenic metabolites by pH-specific hydride generation atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1460-1467.	1.6	69
97	Arsenite induces delayed mutagenesis and transformation in human osteosarcoma cells at extremely low concentrations. <i>Environmental and Molecular Mutagenesis</i> , 2003, 41, 322-331.	0.9	43
98	Selenium Compounds Modulate the Activity of Recombinant Rat AsIII-Methyltransferase and the Methylation of Arsenite by Rat and Human Hepatocytes. <i>Chemical Research in Toxicology</i> , 2003, 16, 261-265.	1.7	78
99	Differential activation of APâ€1 in human bladder epithelial cells by inorganic and methylated arsenicals. <i>FASEB Journal</i> , 2003, 17, 67-69.	0.2	70
100	Metabolism of arsenic and gene transcription regulation. , 2003, , 267-281.		2
101	Methylated metabolites of arsenic trioxide are more potent than arsenic trioxide as apoptotic but not differentiation inducers in leukemia and lymphoma cells. <i>Cancer Research</i> , 2003, 63, 1853-9.	0.4	76
102	A Novel S-Adenosyl-l-methionine:Artenic(III) Methyltransferase from Rat Liver Cytosol. <i>Journal of Biological Chemistry</i> , 2002, 277, 10795-10803.	1.6	299
103	The role of biomethylation in toxicity and carcinogenicity of arsenic: a research update.. <i>Environmental Health Perspectives</i> , 2002, 110, 767-771.	2.8	296
104	Pharmacokinetic modeling of arsenite uptake and metabolism in hepatocytes--mechanistic insights and implications for further experiments. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2002, 29, 207-234.	0.8	18
105	Methylated Trivalent Arsenic Species Are Genotoxic. <i>Chemical Research in Toxicology</i> , 2001, 14, 355-361.	1.7	479
106	Arsenicals Inhibit Thioredoxin Reductase in Cultured Rat Hepatocytes. <i>Chemical Research in Toxicology</i> , 2001, 14, 305-311.	1.7	152
107	Selenium Modifies the Metabolism and Toxicity of Arsenic in Primary Rat Hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2001, 172, 52-61.	1.3	87
108	Differential Effects of Trivalent and Pentavalent Arsenicals on Cell Proliferation and Cytokine Secretion in Normal Human Epidermal Keratinocytes. <i>Toxicology and Applied Pharmacology</i> , 2001, 172, 225-232.	1.3	257



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109	Determination of Trivalent Methylated Arsenicals in Biological Matrices. Toxicology and Applied Pharmacology, 2001, 174, 282-293.	1.3	217
110	The Cellular Metabolism and Systemic Toxicity of Arsenic. Toxicology and Applied Pharmacology, 2001, 176, 127-144.	1.3	540
111	Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in rat and human cells. Archives of Toxicology, 2000, 74, 289-299.	1.9	881
112	Metabolism of Arsenic in Primary Cultures of Human and Rat Hepatocytes. Chemical Research in Toxicology, 1999, 12, 560-565.	1.7	132
113	Metabolism and Toxicity of Arsenicals in Cultured Cells. , 1999, , 311-323.		15
114	Comparative Inhibition of Yeast Glutathione Reductase by Arsenicals and Arsenothiols. Chemical Research in Toxicology, 1997, 10, 27-33.	1.7	272
115	Binding of Arsenicals to Proteins in an in Vitro Methylation System. Toxicology and Applied Pharmacology, 1997, 147, 1-8.	1.3	87
116	Mono- and dimethylation of arsenic in rat liver cytosol in vitro. Chemico-Biological Interactions, 1996, 99, 147-164.	1.7	90
117	Liberation and analysis of protein-bound arsenicals. Biomedical Applications, 1996, 677, 161-166.	1.7	59
118	Time dependence of accumulation and binding of inorganic and organic arsenic species in rabbit erythrocytes. Chemico-Biological Interactions, 1995, 98, 69-83.	1.7	45
119	Complexation of Arsenic Species in Rabbit Erythrocytes. Chemical Research in Toxicology, 1994, 7, 621-627.	1.7	91