

GraÅ¼yna Chwatko

List of Publications by Year in descending order

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61
papers

1,867
citations

331670

21
h-index

265206

42
g-index

62
all docs

62
docs citations

62
times ranked

2135
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of cysteine in human plasma by high-performance liquid chromatography and ultraviolet detection after pre-column derivatization with 2-chloro-1-methylpyridinium iodide. <i>Talanta</i> , 2000, 52, 509-515.	5.5	193
2	Analysis of plasma thiols by high-performance liquid chromatography with ultraviolet detection. <i>Journal of Chromatography A</i> , 2004, 1032, 109-115.	3.7	124
3	The determination of homocysteineâ€“thiolactone in human plasma. <i>Analytical Biochemistry</i> , 2005, 337, 271-277.	2.4	118
4	Determination of endogenous thiols and thiol drugs in urine by HPLC with ultraviolet detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 3300-3308.	2.3	115
5	Mutations in methylenetetrahydrofolate reductase or cystathionine Î²â€“synthase gene, or a highâ€“methionine diet, increase homocysteine thiolactone levels in humans and mice. <i>FASEB Journal</i> , 2007, 21, 1707-1713.	0.5	108
6	Ultraviolet derivatization of low-molecular-mass thiols for high performance liquid chromatography and capillary electrophoresis analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 1290-1307.	2.3	105
7	Prevention of brain disease from severe 5,10-methylenetetrahydrofolate reductase deficiency. <i>Molecular Genetics and Metabolism</i> , 2007, 91, 165-175.	1.1	104
8	Urinary Excretion of Homocysteine-Thiolactone in Humans. <i>Clinical Chemistry</i> , 2005, 51, 408-415.	3.2	83
9	Urinary excretion measurement of cysteine and homocysteine in the form of their S-pyridinium derivatives by high-performance liquid chromatography with ultraviolet detection. <i>Journal of Chromatography A</i> , 1998, 798, 27-35.	3.7	82
10	The effects of garlicâ€“derived sulfur compounds on cell proliferation, caspase 3 activity, thiol levels and anaerobic sulfur metabolism in human hepatoblastoma HepG2 cells. <i>Cell Biochemistry and Function</i> , 2012, 30, 198-204.	2.9	50
11	Determination of cysteine and glutathione in cucumber leaves by HPLC with UV detection. <i>Analytical Methods</i> , 2014, 6, 8039-8044.	2.7	50
12	Total plasma homocysteine and insulin levels in type 2 diabetic patients with secondary failure to oral agents. <i>Diabetes Care</i> , 1999, 22, 2097-2099.	8.6	49
13	Simultaneous determination of total homocysteine, cysteine, glutathione, and <i>N</i> -acetylcysteine in brain homogenates by HPLC. <i>Journal of Separation Science</i> , 2018, 41, 3241-3249.	2.5	48
14	Maternal transfer of methimazole and effects on thyroid hormone availability in embryonic tissues. <i>Journal of Endocrinology</i> , 2013, 218, 105-115.	2.6	47
15	Determination of different species of homocysteine in human plasma by high-performance liquid chromatography with ultraviolet detection. <i>Journal of Chromatography A</i> , 2002, 949, 141-151.	3.7	46
16	Liquid chromatographic assessment of total and protein-bound homocysteine in human plasma. <i>Talanta</i> , 2000, 50, 1233-1243.	5.5	41
17	Determination of thiosulfate in human urine by high performance liquid chromatography. <i>Talanta</i> , 2009, 79, 229-234.	5.5	36
18	Effect of metallothionein 2A gene polymorphism on allele-specific gene expression and metal content in prostate cancer. <i>Toxicology and Applied Pharmacology</i> , 2013, 268, 278-285.	2.8	33

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19	Simultaneous Determination of Methionine and Homocysteine by on-column derivatization with o-phthaldialdehyde. <i>Talanta</i> , 2016, 161, 917-924.	5.5	27
20	Thiosulfate in urine as a facilitator in the diagnosis of prostate cancer for patients with prostate-specific antigen less or equal 10 ng/mL. <i>Clinical Chemistry and Laboratory Medicine</i> , 2013, 51, 1825-31.	2.3	26
21	Disruption of thiol homeostasis in plasma of terminal renal failure patients. <i>Clinica Chimica Acta</i> , 2006, 366, 137-145.	1.1	24
22	Alterations in the Antioxidant Enzyme Activities in the Neurodevelopmental Rat Model of Schizophrenia Induced by Glutathione Deficiency during Early Postnatal Life. <i>Antioxidants</i> , 2020, 9, 538.	5.1	19
23	Effect of Cystamine on Blood Pressure and Vascular Characteristics in Spontaneously Hypertensive Rats. <i>Journal of Vascular Research</i> , 2011, 48, 476-484.	1.4	18
24	Involvement of ascorbate, glutathione, protein S-thiolation and salicylic acid in benzothiadiazole-inducible defence response of cucumber against <i>Pseudomonas syringae</i> pv <i>lachrymans</i> . <i>Physiological and Molecular Plant Pathology</i> , 2014, 86, 89-97.	2.5	18
25	Interactions of the Gasotransmitters Contribute to Microvascular Tone (Dys)regulation in the Preterm Neonate. <i>PLoS ONE</i> , 2015, 10, e0121621.	2.5	18
26	A Role for H ₂ S in the Microcirculation of Newborns: The Major Metabolite of H ₂ S (Thiosulphate) Is Increased in Preterm Infants. <i>PLoS ONE</i> , 2014, 9, e105085.	2.5	16
27	Simple micellar electrokinetic chromatography method for the determination of hydrogen sulfide in hen tissues. <i>Electrophoresis</i> , 2015, 36, 1028-1032.	2.4	15
28	Glutathione Deficiency and Alterations in the Sulfur Amino Acid Homeostasis during Early Postnatal Development as Potential Triggering Factors for Schizophrenia-Like Behavior in Adult Rats. <i>Molecules</i> , 2019, 24, 4253.	3.8	15
29	Determination of lipoic acid in biological samples. <i>Bioanalysis</i> , 2015, 7, 1785-1798.	1.5	14
30	Determination of lipoic acid in human plasma by high-performance liquid chromatography with ultraviolet detection. <i>Arabian Journal of Chemistry</i> , 2019, 12, 4878-4886.	4.9	13
31	Treatment of chronic hemodialysis patients with low-dose fenofibrate effectively reduces plasma lipids and affects plasma redox status. <i>Lipids in Health and Disease</i> , 2012, 11, 47.	3.0	12
32	Association between the c.*229C>T polymorphism of the topoisomerase II β binding protein 1 (TopBP1) gene and breast cancer. <i>Molecular Biology Reports</i> , 2013, 40, 3493-3502.	2.3	12
33	Salicylic acid and cysteine contribute to arbutin-induced alleviation of angular leaf spot disease development in cucumber. <i>Journal of Plant Physiology</i> , 2015, 181, 9-13.	3.5	12
34	Application of GC-MS technique for the determination of homocysteine thiolactone in human urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1099, 18-24.	2.3	12
35	Quantification of homocysteine thiolactone in human saliva and urine by gas chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1149, 122155.	2.3	12
36	The effects of modulation of γ -glutamyl transpeptidase activity in HepG2 cells on thiol homeostasis and caspase-3-activity. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 201-208.	4.1	11

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37	Fast and simple MEKC sweeping method for determination of thiosulfate in urine. <i>Electrophoresis</i> , 2016, 37, 1155-1160.	2.4	11
38	A Simplified Method for Simultaneous Determination of $\hat{\pm}$ -Lipoic Acid and Low-Molecular-Mass Thiols in Human Plasma. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1049.	4.1	11
39	Intensive statin therapy, used alone or in combination with ezetimibe, improves homocysteine level and lipid peroxidation to a similar degree in patients with coronary artery diseases. <i>Pharmacological Reports</i> , 2016, 68, 344-348.	3.3	10
40	Rapid electroanalytical procedure for sesamol determination in real samples. <i>Food Chemistry</i> , 2020, 309, 125789.	8.2	10
41	Determination of Lipoic Acid in the form of 2-S-pyridinium Derivative by High-performance Liquid Chromatography with Ultraviolet Detection. <i>Current Analytical Chemistry</i> , 2014, 10, 320-325.	1.2	10
42	The use of high-performance liquid chromatography with diode array detector for the determination of sulfide ions in human urine samples using pyrylium salts. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1157, 122309.	2.3	9
43	Capillary Electrophoresis Determination of Tiopronin in Human Urine After Derivatization with 2-chloro-1-methylquinolinium Tetrafluoroborate. <i>Current Analytical Chemistry</i> , 2014, 10, 375-380.	1.2	9
44	Redox Status of Main Urinary Sulfur Amino Acids Evaluation by Liquid Chromatography. <i>Chromatographia</i> , 2008, 68, 91-95.	1.3	8
45	Urinary thiosulfate as failed prostate cancer biomarker – an exemplary multicenter re-evaluation study. <i>Clinical Chemistry and Laboratory Medicine</i> , 2015, 53, 477-83.	2.3	7
46	Peritoneal clearance of homocysteine with icodextrin or standard glucose solution exchange. <i>Nephrology</i> , 2005, 10, 571-575.	1.6	6
47	The first method for determination of lipoyllysine in human urine after oral lipoic acid supplementation. <i>Bioanalysis</i> , 2019, 11, 1359-1373.	1.5	6
48	Estimation of Lipoyllysine Content in Meat and Its Antioxidative Capacity. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10992-10999.	5.2	6
49	Spectrophotometric method for the determination of total thiols in human urine. <i>Annals of Clinical and Laboratory Science</i> , 2013, 43, 424-8.	0.2	6
50	The Effects of Cocaine on Different Redox Forms of Cysteine and Homocysteine, and on Labile, Reduced Sulfur in the Rat Plasma Following Active versus Passive Drug Injections. <i>Neurotoxicity Research</i> , 2013, 24, 377-392.	2.7	5
51	A method for the determination of total and reduced methimazole in various biological samples. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2014, 31, 1009-1016.	2.3	5
52	Microvascular circulatory dysregulation driven in part by cystathionine gamma-lyase: A new paradigm for cardiovascular compromise in the preterm newborn. <i>Microcirculation</i> , 2019, 26, e12507.	1.8	5
53	Simultaneous Determination of Human Serum Albumin and Low-Molecular-Weight Thiols after Derivatization with Monobromobimane. <i>Molecules</i> , 2021, 26, 3321.	3.8	5
54	Application of High-Performance Liquid Chromatography for Simultaneous Determination of Tenofovir and Creatinine in Human Urine and Plasma Samples. <i>Pharmaceuticals</i> , 2020, 13, 367.	3.8	4

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55	Application of Butylamine as a Conjugative Reagent to On-Column Derivatization for the Determination of Antioxidant Amino Acids in Brain Tissue, Plasma, and Urine Samples. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3340.	4.1	2
56	Application of simultaneous separation and derivatization for the determination of Lipoic acid in urine samples by high-performance liquid chromatography with spectrofluorimetric detection. <i>Biomedical Chromatography</i> , 2019, 33, e4576.	1.7	2
57	Production of Bioactive Compounds by Food Associated <i>Galactomyces geotrichum</i> 38, as Determined by Proteome Analysis. <i>Nutrients</i> , 2019, 11, 471.	4.1	1
58	Does habitat otherness affect weatherfish <i>Misgurnus fossilis</i> reproductive traits?. , 2021, 88, 328-339.		1
59	Application of Separation Techniques in Analytics of Biologically Relevant Sulfur Compounds. , 2022, , 233-256.		1
60	Letter to the editor. <i>Cell Biochemistry and Function</i> , 2013, 31, 180-180.	2.9	0
61	O-028...Microvascular Tone In The Preterm Neonate: Gasotransmitter Interactions May Be The Key. <i>Archives of Disease in Childhood</i> , 2014, 99, A32.2-A32.	1.9	0