

Toms Adam

List of Publications by Citations

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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.

68

papers

924

citations

17

h-index

27

g-index

70

ext. papers

1,032

ext. citations

3.5

avg, IF

3.8

L-index

#	Paper	IF	Citations
68	Highly sensitive GC/MS/MS method for quantitation of amino and nonamino organic acids. <i>Analytical Chemistry</i> , 2011 , 83, 2705-11	7.8	105
67	PLS-DA for compositional data with application to metabolomics. <i>Journal of Chemometrics</i> , 2015 , 29, 21-28	1.6	53
66	Determination of creatinine in urine by tandem mass spectrometry. <i>Clinica Chimica Acta</i> , 2004 , 350, 99-106	10.6	44
65	Targeted metabolomic analysis of plasma samples for the diagnosis of inherited metabolic disorders. <i>Journal of Chromatography A</i> , 2012 , 1226, 11-7	4.5	40
64	Atmospheric pressure ionization mass spectrometry of purine and pyrimidine markers of inherited metabolic disorders. <i>Journal of Mass Spectrometry</i> , 2002 , 37, 1242-8	2.2	35
63	Flow injection analysis vs. ultra high performance liquid chromatography coupled with tandem mass spectrometry for determination of imatinib in human plasma. <i>Clinica Chimica Acta</i> , 2010 , 411, 1957-62	6.2	33
62	Capillary electrophoresis for detection of inherited disorders of purine and pyrimidine metabolism: a selective approach. <i>Electrophoresis</i> , 2002 , 23, 565-71	3.6	32
61	Oxidized phosphatidylcholines suggest oxidative stress in patients with medium-chain acyl-CoA dehydrogenase deficiency. <i>Talanta</i> , 2015 , 139, 62-6	6.2	29
60	A rapid and simple screening method for detection of orotic aciduria by capillary zone electrophoresis. <i>Clinica Chimica Acta</i> , 1997 , 259, 73-81	6.2	25
59	Capillary electrophoretic method for nucleotide analysis in cells: application on inherited metabolic disorders. <i>Electrophoresis</i> , 2007 , 28, 373-80	3.6	23
58	A fatal combination: a thymidylate synthase inhibitor with DNA damaging activity. <i>PLoS ONE</i> , 2015 , 10, e0117459	3.7	22
57	Molecular genetic analysis of SLC3A1 and SLC7A9 genes in Czech and Slovak cystinuric patients. <i>Annals of Human Genetics</i> , 2005 , 69, 501-7	2.2	21
56	Evaluation of comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry for the diagnosis of inherited metabolic disorders using an automated data processing strategy. <i>Journal of Chromatography A</i> , 2010 , 1217, 8054-61	4.5	20
55	Fenretinide prevents inflammation and airway hyperresponsiveness in a mouse model of allergic asthma. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014 , 51, 783-92	5.7	19
54	Metabolite Profiling of the Plasma and Leukocytes of Chronic Myeloid Leukemia Patients. <i>Journal of Proteome Research</i> , 2016 , 15, 3158-66	5.6	19
53	Imatinib trough plasma levels do not correlate with the response to therapy in patients with chronic myeloid leukemia in routine clinical setting. <i>Annals of Hematology</i> , 2012 , 91, 923-9	3	18
52	A fast and simple screening method for detection of 2,8-dihydroxyadenine urolithiasis by capillary zone electrophoresis. <i>Clinica Chimica Acta</i> , 1996 , 245, 85-92	6.2	18

51	Influence of Mass Resolving Power in Orbital Ion-Trap Mass Spectrometry-Based Metabolomics. <i>Analytical Chemistry</i> , 2016 , 88, 11429-11435	7.8	16
50	A lower dosage of imatinib is sufficient to maintain undetectable disease in patients with chronic myeloid leukemia with long-term low-grade toxicity of the treatment. <i>Leukemia and Lymphoma</i> , 2016 , 57, 370-375	1.9	16
49	Isotope dilution direct injection mass spectrometry method for determination of four tyrosine kinase inhibitors in human plasma. <i>Talanta</i> , 2012 , 93, 307-13	6.2	16
48	Determination of adenosine deaminase activity in human erythrocytes by on-column capillary isotachopheresis-capillary zone electrophoresis in the presence of electroosmotic flow. <i>Electrophoresis</i> , 1999 , 20, 564-8	3.6	16
47	Structural elucidation of novel biomarkers of known metabolic disorders based on multistage fragmentation mass spectra. <i>Journal of Inherited Metabolic Disease</i> , 2018 , 41, 407-414	5.4	16
46	Patent Foramen Ovale and the Risk of Cerebral Infarcts in Acute Pulmonary Embolism-A Prospective Observational Study. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018 , 27, 357-364	2.8	15
45	Citrulline as a biomarker of gastrointestinal toxicity in patients with rectal carcinoma treated with chemoradiation. <i>Clinical Chemistry and Laboratory Medicine</i> , 2016 , 54, 305-14	5.9	15
44	Screening method for inherited disorders of purine and pyrimidine metabolism by capillary electrophoresis with reversed electroosmotic flow. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 767, 333-40	3.2	15
43	Imatinib dose escalation in two patients with chronic myeloid leukemia, with low trough imatinib plasma levels measured at various intervals from the beginning of therapy and with suboptimal treatment response, leads to the achievement of higher plasma levels and major molecular response. <i>International Journal of Hematology</i> , 2010 , 91, 897-902	2.3	12
42	Analytical derivatization-a tool for determination of orotic acid. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 799, 303-9	3.2	12
41	Untargeted metabolomic analysis of urine samples in the diagnosis of some inherited metabolic disorders. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2015 , 159, 582-5	1.7	12
40	Dr Jekyll and Mr Hyde: a strange case of 5-ethynyl-2-adeoxyuridine and 5-ethynyl-2-adeoxycytidine. <i>Open Biology</i> , 2016 , 6, 150172	7	12
39	Risk factors of atherosclerosis during systemic therapy targeting vascular endothelial growth factor. <i>Oncology Letters</i> , 2016 , 11, 939-944	2.6	11
38	Systemic Inflammatory Response After Open, Laparoscopic and Robotic Surgery in Endometrial Cancer Patients. <i>Anticancer Research</i> , 2016 , 36, 2909-22	2.3	11
37	Detailed study of imatinib metabolization using high-resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2015 , 1409, 173-81	4.5	10
36	Normalization techniques for PARAFAC modeling of urine metabolomic data. <i>Metabolomics</i> , 2016 , 12, 1	4.7	10
35	Study of cytokinin separation using capillary electrophoresis with cyclodextrin additives. <i>Journal of Chromatography A</i> , 1998 , 818, 231-238	4.5	10
34	Novel sulphur-containing imatinib metabolites found by untargeted LC-HRMS analysis. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 104, 335-343	5.1	9

33	Mass spectrometric analysis of purine de novo biosynthesis intermediates. <i>PLoS ONE</i> , 2018 , 13, e0208947	7	9
32	CROP: correlation-based reduction of feature multiplicities in untargeted metabolomic data. <i>Bioinformatics</i> , 2020 , 36, 2941-2942	7.2	8
31	Metabolic status of CSF distinguishes rats with tauopathy from controls. <i>Alzheimer's Research and Therapy</i> , 2017 , 9, 78	9	7
30	Determination of purine nucleoside phosphorylase activity in human erythrocytes by capillary electrophoresis. <i>Biomedical Applications</i> , 1997 , 698, 308-11		7
29	Analysis of intracellular nucleotides by capillary electrophoresis-mass spectrometry. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2006 , 25, 1233-6	1.4	7
28	Diagnosing AICA-ribosiduria by capillary electrophoresis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 843, 15-9	3.2	7
27	Epidemiology of rare diseases detected by newborn screening in the Czech Republic. <i>Central European Journal of Public Health</i> , 2019 , 27, 153-159	1.2	7
26	Impact of sample dimensionality on orthogonality metrics in comprehensive two-dimensional separations. <i>Analytica Chimica Acta</i> , 2019 , 1064, 138-149	6.6	6
25	Ultrafast Online SPE-MS/MS Method for Quantification of 3 Tyrosine Kinase Inhibitors in Human Plasma. <i>Therapeutic Drug Monitoring</i> , 2016 , 38, 516-24	3.2	6
24	Risk factors of atherosclerosis in patients with history of breast cancer. <i>Pteridines</i> , 2013 , 24, 201-210	0.6	6
23	Detection of the major mutation M467T causing cystinuria by single-strand conformation polymorphism analysis using capillary electrophoresis. <i>Electrophoresis</i> , 2004 , 25, 57-64	3.6	6
22	Prognostic Significance of Serum and Urinary Neopterin Concentrations in Patients with Rectal Carcinoma Treated with Chemoradiation. <i>Anticancer Research</i> , 2016 , 36, 287-92	2.3	6
21	Correlations of neutrophil-to-lymphocyte, lymphocyte-to-monocyte and platelet-to-lymphocyte ratios with biomarkers of atherosclerosis risk and inflammatory response in patients with a history of breast cancer. <i>Pteridines</i> , 2015 , 26, 161-172	0.6	5
20	Toll-Like Receptor 7/8 Ligand, S28463, Suppresses <i>Ascaris suum</i> -induced Allergic Asthma in Nonhuman Primates. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 58, 55-65	5.7	4
19	Urease-immobilized magnetic microparticles in urine sample preparation for metabolomic analysis by gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2019 , 1605, 360355	4.5	4
18	Application of comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry in human metabolomic studies. <i>Journal of Analytical Chemistry</i> , 2011 , 66, 1333-1340	1.1	4
17	Capillary electrophoresis determination of thiopurine methyl transferase activity in erythrocytes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 1943-5	3.2	4
16	Determination of ITPase activity by capillary electrophoresis. <i>Clinical Chemistry</i> , 2007 , 53, 1164-5	5.5	4

15	Analysis of aminoimidazole ribosides by capillary electrophoresis--diagnosing defects in second part of purine biosynthetic pathway. <i>Clinica Chimica Acta</i> , 2007 , 376, 184-9	6.2	4
14	Sample-independent approach to normalize two-dimensional data for orthogonality evaluation using whole separation space scaling. <i>Journal of Chromatography A</i> , 2017 , 1511, 1-8	4.5	3
13	Neoadjuvant combination therapy with trastuzumab in a breast cancer patient with synchronous rectal carcinoma: a case report and biomarker study. <i>Pteridines</i> , 2017 , 28, 233-241	0.6	3
12	Synthesis and mass spectrometric fragmentation characteristics of imidazole ribosides-analogs of intermediates of purine de novo synthetic pathway. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2006 , 25, 1237-40	1.4	3
11	A newborn screening approach to diagnose 3-hydroxy-3-methylglutaryl-CoA lyase deficiency. <i>JIMD Reports</i> , 2020 , 54, 79-86	1.9	3
10	Systemic immune response and peripheral blood cell count in patients with a history of breast cancer. <i>Pteridines</i> , 2013 , 24, 211-217	0.6	2
9	Cellwise outlier detection and biomarker identification in metabolomics based on pairwise log ratios. <i>Journal of Chemometrics</i> , 2020 , 34, e3182	1.6	2
8	Determination of purine enzyme activities in human erythrocytes by capillary electrophoresis. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 431, 759-63	3.6	2
7	Mass Spectrometry for the Sensitive Analysis of Intracellular Nucleotides and Analogues 2017 ,		1
6	Oligodendroglia from ADSL-deficient patient produce SAICArbotide and SAMP. <i>Molecular Genetics and Metabolism</i> , 2010 , 101, 286-8	3.7	1
5	Analysis of thymidine kinase serum levels by novel method DiviTum in multiple myeloma and monoclonal gammopathy of undetermined significance - comparison with imaging methods 99mTc-MIBI scintigraphy and 18F-FDG PET/CT. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2015 , 159, 135-8	1.7	1
4	Bayesian multiple hypotheses testing in compositional analysis of untargeted metabolomic data. <i>Analytica Chimica Acta</i> , 2020 , 1097, 49-61	6.6	1
3	Prognostic value of cystatin C in relation to other markers of renal function in early prediction of hospital mortality and major cardiac adverse events in patients with ST elevation myocardial infarction treated by primary percutaneous coronary intervention. <i>Cor Et Vasa</i> , 2018 , 60, e352-e360	0.3	
2	Role of echocardiography and cardiac biomarkers in prediction of in-hospital mortality and long-term risk of brain infarction in pulmonary embolism patients. <i>Cor Et Vasa</i> , 2018 , 60, e105-e113	0.3	
1	Serum concentrations of TFF3, S100-A11 and AIF-1 in association with systemic inflammatory response, disease stage and nodal involvement in endometrial cancer. <i>Pteridines</i> , 2018 , 29, 6-12	0.6	