

# Vladimir V Tolstikov

## List of Publications by Citations

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51  
papers

3,445  
citations

23  
h-index

55  
g-index

55  
ext. papers

3,972  
ext. citations

6.5  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
51	Intestinal inflammation allows Salmonella to use ethanolamine to compete with the microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 17480-5	11.5	423
50	Analysis of highly polar compounds of plant origin: combination of hydrophilic interaction chromatography and electrospray ion trap mass spectrometry. <i>Analytical Biochemistry</i> , <b>2002</b> , 301, 298-307	3.1	407
49	A comprehensive urinary metabolomic approach for identifying kidney cancer. <i>Analytical Biochemistry</i> , <b>2007</b> , 363, 185-95	3.1	405
48	Systems rebalancing of metabolism in response to sulfur deprivation, as revealed by metabolome analysis of Arabidopsis plants. <i>Plant Physiology</i> , <b>2005</b> , 138, 304-18	6.6	321
47	Retrograde signaling by the plastidial metabolite MEcPP regulates expression of nuclear stress-response genes. <i>Cell</i> , <b>2012</b> , 149, 1525-35	56.2	284
46	Monolithic silica-based capillary reversed-phase liquid chromatography/electrospray mass spectrometry for plant metabolomics. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 6737-40	7.8	236
45	Microbiota-driven transcriptional changes in prefrontal cortex override genetic differences in social behavior. <i>ELife</i> , <b>2016</b> , 5,	8.9	165
44	Differentiation and characterization of metabolically functioning hepatocytes from human embryonic stem cells. <i>Stem Cells</i> , <b>2010</b> , 28, 674-86	5.8	139
43	Divergent metabolome and proteome suggest functional independence of dual phloem transport systems in cucurbits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13532-7	11.5	116
42	Comprehensive mass spectrometry based metabolic profiling of blood plasma reveals potent discriminatory classifiers of pancreatic cancer. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 613-20	2.2	108
41	Linking protein fractionation with multidimensional monolithic reversed-phase peptide chromatography/mass spectrometry enhances protein identification from complex mixtures even in the presence of abundant proteins. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 643-50	2.2	73
40	Regulation of Human Adipose Tissue Activation, Gallbladder Size, and Bile Acid Metabolism by a $\beta$ -Adrenergic Receptor Agonist. <i>Diabetes</i> , <b>2018</b> , 67, 2113-2125	0.9	71
39	Highly efficient differentiation of functional hepatocytes from human induced pluripotent stem cells. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 409-19	6.9	68
38	Association genetics of the loblolly pine ( <i>Pinus taeda</i> , Pinaceae) metabolome. <i>New Phytologist</i> , <b>2012</b> , 193, 890-902	9.8	59
37	Metabolomics analysis of metabolic effects of nicotinamide phosphoribosyltransferase (NAMPT) inhibition on human cancer cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e114019	3.7	58
36	Very long O-antigen chains enhance fitness during Salmonella-induced colitis by increasing bile resistance. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002918	7.6	48
35	Application of liquid chromatography-mass spectrometry analysis in metabolomics: reversed-phase monolithic capillary chromatography and hydrophilic chromatography coupled to electrospray ionization-mass spectrometry. <i>Methods in Molecular Biology</i> , <b>2007</b> , 358, 141-55	1.4	34

34	Metabolite profiling of antidepressant drug action reveals novel drug targets beyond monoamine elevation. <i>Translational Psychiatry</i> , <b>2011</b> , 1, e58	8.6	33
33	Metabolomics: Bridging the Gap between Pharmaceutical Development and Population Health. <i>Metabolites</i> , <b>2016</b> , 6,	5.6	33
32	Integrated Metabolomics Assessment of Human Dried Blood Spots and Urine Strips. <i>Metabolites</i> , <b>2017</b> , 7,	5.6	31
31	CRISPR-engineered human brown-like adipocytes prevent diet-induced obesity and ameliorate metabolic syndrome in mice. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	31
30	Differential oxidative metabolism and 5-ketoclofazone accumulation are involved in Echinochloa phyllopogon resistance to clofazone. <i>Plant Physiology</i> , <b>2010</b> , 153, 319-26	6.6	25
29	Multi-omic serum biomarkers for prognosis of disease progression in prostate cancer. <i>Journal of Translational Medicine</i> , <b>2020</b> , 18, 10	8.5	24
28	Dynamic and temporal assessment of human dried blood spot MS/MS shotgun lipidomics analysis. <i>Nutrition and Metabolism</i> , <b>2017</b> , 14, 28	4.6	23
27	Influence of endosome-destabilizing peptides on efficacy of anti-HIV immunotoxins. <i>Bioconjugate Chemistry</i> , <b>1997</b> , 8, 38-43	6.3	22
26	Probing genetic algorithms for feature selection in comprehensive metabolic profiling approach. <i>Rapid Communications in Mass Spectrometry</i> , <b>2008</b> , 22, 1312-24	2.2	22
25	A comprehensive workflow of mass spectrometry-based untargeted metabolomics in cancer metabolic biomarker discovery using human plasma and urine. <i>Metabolites</i> , <b>2013</b> , 3, 787-819	5.6	19
24	Current Status of Metabolomic Biomarker Discovery: Impact of Study Design and Demographic Characteristics. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	18
23	Pattern Recognition and Pathway Analysis with Genetic Algorithms in Mass Spectrometry Based Metabolomics. <i>Algorithms</i> , <b>2009</b> , 2, 638-666	1.8	14
22	Urinary metabolomic analysis for the identification of renal injury in patients with acute heart failure. <i>Academic Emergency Medicine</i> , <b>2012</b> , 19, 18-23	3.4	11
21	Chronic stress and antidepressant treatment alter purine metabolism and beta oxidation within mouse brain and serum. <i>Scientific Reports</i> , <b>2020</b> , 10, 18134	4.9	11
20	Divergence in the metabolome between natural aging and Alzheimer's disease. <i>Scientific Reports</i> , <b>2020</b> , 10, 12171	4.9	10
19	Predicting Prostate Cancer Progression as a Function of ETS-related Gene Status, Race, and Obesity in a Longitudinal Patient Cohort. <i>European Urology Focus</i> , <b>2018</b> , 4, 818-824	5.1	9
18	Older adults with sarcopenia have distinct skeletal muscle phosphodiester, phosphocreatine, and phospholipid profiles. <i>Aging Cell</i> , <b>2020</b> , 19, e13135	9.9	8
17	Integrated metabolomics reveals altered lipid metabolism in adipose tissue in a model of extreme longevity. <i>GeroScience</i> , <b>2020</b> , 42, 1527-1546	8.9	8

16	The ABRF Metabolomics Research Group 2013 Study: Investigation of Spiked Compound Differences in a Human Plasma Matrix. <i>Journal of Biomolecular Techniques</i> , <b>2015</b> , 26, 83-9	1.1	8
15	Effect of <i>Acinetobacter</i> sp on metalaxyl degradation and metabolite profile of potato seedlings ( <i>Solanum tuberosum</i> L.) alpha variety. <i>PLoS ONE</i> , <b>2012</b> , 7, e31221	3.7	8
14	Metabolomic effects of androgen deprivation therapy treatment for prostate cancer. <i>Cancer Medicine</i> , <b>2020</b> , 9, 3691-3702	4.8	8
13	Brown Fat-Activating Lipokine 12,13-diHOME in Human Milk Is Associated With Infant Adiposity. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> , 106, e943-e956	5.6	8
12	TRALI is due to pulmonary venule damage from leucocytes with cholesterol crystal formation. <i>Vox Sanguinis</i> , <b>2010</b> , 98, 130-7	3.1	7
11	Metabolic analysis. <i>Methods in Molecular Biology</i> , <b>2009</b> , 544, 343-53	1.4	7
10	Bacterial neurotoxic metabolites in multiple sclerosis cerebrospinal fluid and plasma. <i>Brain</i> , <b>2021</b> ,	11.2	6
9	Urinary metabolomic analysis to detect changes after intravenous, non-ionic, low osmolar iodinated radiocontrast for computerized tomographic imaging. <i>Western Journal of Emergency Medicine</i> , <b>2014</b> , 15, 152-7	3.3	3
8	Children Developing Celiac Disease Have a Distinct and Proinflammatory Gut Microbiota in the First 5 Years of Life		3
7	Multi-OMIC analysis of brain and serum from chronically-stressed mice reveals network disruptions in purine metabolism, fatty acid beta-oxidation, and antioxidant activity that are reversed by antidepressant treatment		3
6	The influence of low-carbohydrate diets on the metabolic response to androgen-deprivation therapy in prostate cancer. <i>Prostate</i> , <b>2021</b> , 81, 618-628	4.2	3
5	Diagnostic Utility of Serum and Urinary Metabolite Analysis in Patients with Interstitial Cystitis/Painful Bladder Syndrome. <i>Urology</i> , <b>2021</b> ,	1.6	2
4	High-Performance Liquid Chromatography for Metabolomics: High-Efficiency Separations Utilizing Monolithic Silica Columns <b>2005</b> , 107-126		1
3	Paracardial fat remodeling affects systemic metabolism through alcohol dehydrogenase 1. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	1
2	Impact of hemolysis on multi-OMIC pancreatic biomarker discovery to derisk biomarker development in precision medicine studies.. <i>Scientific Reports</i> , <b>2022</b> , 12, 1186	4.9	0
1	Multiplexed LC-MS/MS analysis of methylsuccinic acid, ethylmalonic acid, and glutaric acid in plasma and urine.. <i>Analytical Biochemistry</i> , <b>2022</b> , 114604	3.1	0