Vladimir V Tolstikov

List of Publications by Year
in descending order

51 papers	4,345 citations	201385 27 h-index	189595 50 g-index
55 all docs	55 docs citations	55 times ranked	7042 citing authors

#	Article	IF	Citations
1	Intestinal inflammation allows Salmonella to use ethanolamine to compete with the microbiota. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17480-17485.	3.3	551
2	Analysis of Highly Polar Compounds of Plant Origin: Combination of Hydrophilic Interaction Chromatography and Electrospray Ion Trap Mass Spectrometry. Analytical Biochemistry, 2002, 301, 298-307.	1.1	449
3	A comprehensive urinary metabolomic approach for identifying kidney cancer. Analytical Biochemistry, 2007, 363, 185-195.	1.1	427
4	Systems Rebalancing of Metabolism in Response to Sulfur Deprivation, as Revealed by Metabolome Analysis of Arabidopsis Plants. Plant Physiology, 2005, 138, 304-318.	2.3	377
5	Retrograde Signaling by the Plastidial Metabolite MEcPP Regulates Expression of Nuclear Stress-Response Genes. Cell, 2012, 149, 1525-1535.	13.5	368
6	Monolithic Silica-Based Capillary Reversed-Phase Liquid Chromatography/Electrospray Mass Spectrometry for Plant Metabolomics. Analytical Chemistry, 2003, 75, 6737-6740.	3.2	251
7	Microbiota-driven transcriptional changes in prefrontal cortex override genetic differences in social behavior. ELife, 2016, 5, .	2.8	226
8	Differentiation and Characterization of Metabolically Functioning Hepatocytes from Human Embryonic Stem Cells. Stem Cells, 2010, 28, 674-686.	1.4	154
9	Divergent metabolome and proteome suggest functional independence of dual phloem transport systems in cucurbits. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13532-13537.	3.3	136
10	Comprehensive mass spectrometry based metabolic profiling of blood plasma reveals potent discriminatory classifiers of pancreatic cancer. Rapid Communications in Mass Spectrometry, 2010, 24, 613-620.	0.7	123
11	Regulation of Human Adipose Tissue Activation, Gallbladder Size, and Bile Acid Metabolism by a Î²3-Adrenergic Receptor Agonist. Diabetes, 2018, 67, 2113-2125.	0.3	121
12	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. Rapid Communications in Mass Spectrometry, 2004, 18, 643-650.	0.7	80
13	CRISPR-engineered human brown-like adipocytes prevent diet-induced obesity and ameliorate metabolic syndrome in mice. Science Translational Medicine, 2020, 12, .	5.8	80
14	Association genetics of the loblolly pine (Pinus taeda, Pinaceae) metabolome. New Phytologist, 2012, 193, 890-902.	3.5	78
15	Highly Efficient Differentiation of Functional Hepatocytes From Human Induced Pluripotent Stem Cells. Stem Cells Translational Medicine, 2013, 2, 409-419.	1.6	78
16	Metabolomics Analysis of Metabolic Effects of Nicotinamide Phosphoribosyltransferase (NAMPT) Inhibition on Human Cancer Cells. PLoS ONE, 2014, 9, e114019.	1.1	73
17	Very Long O-antigen Chains Enhance Fitness during Salmonella-induced Colitis by Increasing Bile Resistance. PLoS Pathogens, 2012, 8, e1002918.	2.1	57
18	Current Status of Metabolomic Biomarker Discovery: Impact of Study Design and Demographic Characteristics. Metabolites, 2020, 10, 224.	1.3	56

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19	Integrated Metabolomics Assessment of Human Dried Blood Spots and Urine Strips. Metabolites, 2017, 7, 35.	1.3	42
20	Metabolite profiling of antidepressant drug action reveals novel drug targets beyond monoamine elevation. Translational Psychiatry, 2011, 1, e58-e58.	2.4	41
21	Multi-omic serum biomarkers for prognosis of disease progression in prostate cancer. Journal of Translational Medicine, 2020, 18, 10.	1.8	41
22	Application of Liquid Chromatography-Mass Spectrometry Analysis in Metabolomics. Methods in Molecular Biology, 2007, 358, 141-155.	0.4	40
23	Bacterial neurotoxic metabolites in multiple sclerosis cerebrospinal fluid and plasma. Brain, 2022, 145, 569-583.	3.7	40
24	Metabolomics: Bridging the Gap between Pharmaceutical Development and Population Health. Metabolites, 2016, 6, 20.	1.3	38
25	Differential Oxidative Metabolism and 5-Ketoclomazone Accumulation Are Involved in Echinochloa phyllopogon Resistance to Clomazone Â Â Â. Plant Physiology, 2010, 153, 319-326.	2.3	32
26	Brown Fatâ€“Activating Lipokine 12,13-diHOME in Human Milk Is Associated With Infant Adiposity. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e943-e956.	1.8	32
27	A Comprehensive Workflow of Mass Spectrometry-Based Untargeted Metabolomics in Cancer Metabolic Biomarker Discovery Using Human Plasma and Urine. Metabolites, 2013, 3, 787-819.	1.3	31
28	Dynamic and temporal assessment of human dried blood spot MS/MSALL shotgun lipidomics analysis. Nutrition and Metabolism, 2017, 14, 28.	1.3	28
29	Chronic stress and antidepressant treatment alter purine metabolism and beta oxidation within mouse brain and serum. Scientific Reports, 2020, 10, 18134.	1.6	27
30	Probing genetic algorithms for feature selection in comprehensive metabolic profiling approach. Rapid Communications in Mass Spectrometry, 2008, 22, 1312-1324.	0.7	25
31	Influence of Endosome-Destabilizing Peptides on Efficacy of Anti-HIV Immunotoxins. Bioconjugate Chemistry, 1997, 8, 38-43.	1.8	24
32	Older adults with sarcopenia have distinct skeletal muscle phosphodiester, phosphocreatine, and phospholipid profiles. Aging Cell, 2020, 19, e13135.	3.0	22
33	Metabolomic effects of androgen deprivation therapy treatment for prostate cancer. Cancer Medicine, 2020, 9, 3691-3702.	1.3	22
34	Divergence in the metabolome between natural aging and Alzheimerâ€™s disease. Scientific Reports, 2020, 10, 12171.	1.6	21
35	Integrated metabolomics reveals altered lipid metabolism in adipose tissue in a model of extreme longevity. GeroScience, 2020, 42, 1527-1546.	2.1	20
36	Pattern Recognition and Pathway Analysis with Genetic Algorithms in Mass Spectrometry Based Metabolomics. Algorithms, 2009, 2, 638-666.	1.2	16

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37	Predicting Prostate Cancer Progression as a Function of ETS-related Gene Status, Race, and Obesity in a Longitudinal Patient Cohort. European Urology Focus, 2018, 4, 818-824.	1.6	16
38	Clinical metabolomics: a pivotal tool for companion diagnostic development and precision medicine. Expert Review of Molecular Diagnostics, 2017, 17, 411-413.	1.5	13
39	Urinary Metabolomic Analysis for the Identification of Renal Injury in Patients With Acute Heart Failure. Academic Emergency Medicine, 2012, 19, 18-23.	0.8	11
40	Paracardial fat remodeling affects systemic metabolism through alcohol dehydrogenase 1. Journal of Clinical Investigation, 2021, 131, .	3.9	11
41	The ABRF Metabolomics Research Group 2013 Study: Investigation of Spiked Compound Differences in a Human Plasma Matrix. Journal of Biomolecular Techniques, 2015, 26, 83-89.	0.8	9
42	TRALI is due to pulmonary venule damage from leucocytes with cholesterol crystal formation. Vox Sanguinis, 2010, 98, 130-137.	0.7	8
43	Effect of Acinetobacter sp on Metalaxyl Degradation and Metabolite Profile of Potato Seedlings (Solanum tuberosum L.) Alpha Variety. PLoS ONE, 2012, 7, e31221.	1.1	8
44	Metabolic Analysis. Methods in Molecular Biology, 2009, 544, 343-353.	0.4	8
45	Diagnostic Utility of Serum and Urinary Metabolite Analysis in Patients with Interstitial Cystitis/Painful Bladder Syndrome. Urology, 2021, 157, 85-92.	0.5	6
46	The influence of lowâ€carbohydrate diets on the metabolic response to androgenâ€deprivation therapy in prostate cancer. Prostate, 2021, 81, 618-628.	1.2	5
47	Serum metabolomic analysis of men on a low-carbohydrate diet for biochemically recurrent prostate cancer reveals the potential role of ketogenesis to slow tumor growth: a secondary analysis of the CAPS2 diet trial. Prostate Cancer and Prostatic Diseases, 2022, 25, 770-777.	2.0	5
48	Urinary Metabolomic Analysis to Detect Changes After Intravenous, Non-ionic, Low Osmolar Iodinated Radiocontrast for Computerized Tomographic Imaging. Western Journal of Emergency Medicine, 2014, 15, 152-157.	0.6	3
49	Impact of hemolysis on multi-OMIC pancreatic biomarker discovery to derisk biomarker development in precision medicine studies. Scientific Reports, 2022, 12, 1186.	1.6	3
50	High-Performance Liquid Chromatography for Metabolomics: High-Efficiency Separations Utilizing Monolithic Silica Columns. , 2005, , 107-126.		2
51	Multiplexed LC-MS/MS analysis of methylsuccinic acid, ethylmalonic acid, and glutaric acid in plasma and urine. Analytical Biochemistry, 2022, 645, 114604.	1.1	1