

# Oleg A Mayboroda

## List of Publications by Year in descending order

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112  
papers

4,488  
citations

100601

38  
h-index

139680

61  
g-index

113  
all docs

113  
docs citations

113  
times ranked

6659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upregulation of metabotropic glutamate receptor subtype mGluR3 and mGluR5 in reactive astrocytes in a rat model of mesial temporal lobe epilepsy. <i>European Journal of Neuroscience</i> , 2000, 12, 2333-2344.	1.2	259
2	Lipid and lipid mediator profiling of human synovial fluid in rheumatoid arthritis patients by means of LC-MS/MS. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1415-1424.	1.2	173
3	The Jak/Stat Pathway and Urokinase Receptor Signaling in Human Aortic Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 315-321.	1.6	165
4	High Capacity Capillary Electrophoresis-Electrospray Ionization Mass Spectrometry: Coupling a Porous Sheathless Interface with Transient-Isotachopheresis. <i>Analytical Chemistry</i> , 2010, 82, 9476-9483.	3.2	155
5	The interaction of the cell-contact proteins VASP and vinculin is regulated by phosphatidylinositol-4,5-bisphosphate. <i>Current Biology</i> , 1998, 8, 479-488.	1.8	153
6	Enhancing the Coverage of the Urinary Metabolome by Sheathless Capillary Electrophoresis-Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 885-892.	3.2	115
7	Functional Imaging of Mitochondria in Saponin-permeabilized Mice Muscle Fibers. <i>Journal of Cell Biology</i> , 1998, 140, 1091-1099.	2.3	113
8	CE-MS for metabolomics: Developments and applications in the period 2008-2010. <i>Electrophoresis</i> , 2011, 32, 52-65.	1.3	113
9	Quantitative NMR analysis of intra- and extracellular metabolism of mammalian cells: A tutorial. <i>Analytica Chimica Acta</i> , 2017, 980, 1-24.	2.6	109
10	Exploratory analysis of human urine by LC-ESI-TOF MS after high intake of olive oil: understanding the metabolism of polyphenols. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 463-475.	1.9	91
11	Ultra-Low Flow Electrospray Ionization-Mass Spectrometry for Improved Ionization Efficiency in Phosphoproteomics. <i>Analytical Chemistry</i> , 2012, 84, 4552-4559.	3.2	89
12	Urokinase-induced mitogenesis is mediated by casein kinase 2 and nucleolin. <i>Current Biology</i> , 1999, 9, 1468-1476.	1.8	87
13	Sialic acid linkage differentiation of glycopeptides using capillary electrophoresis - electrospray ionization - mass spectrometry. <i>Scientific Reports</i> , 2017, 7, 3733.	1.6	82
14	Gas Chromatography/Atmospheric Pressure Chemical Ionization-Time of Flight Mass Spectrometry: Analytical Validation and Applicability to Metabolic Profiling. <i>Analytical Chemistry</i> , 2009, 81, 10071-10079.	3.2	75
15	Interspecies Interactions between <i>Clostridium difficile</i> and <i>Candida albicans</i> . <i>MSphere</i> , 2016, 1, .	1.3	74
16	CE-MS for proteomics: Advances in interface development and application. <i>Journal of Proteomics</i> , 2012, 75, 3814-3828.	1.2	73
17	Comparing two metabolic profiling approaches (liquid chromatography and gas chromatography) Tj ETQq1 1 0.784314 rgBT /Overload classification perspective. <i>Journal of Chromatography A</i> , 2016, 1428, 267-279.	1.8	72
18	Gas chromatography-atmospheric pressure chemical ionization-time of flight mass spectrometry for profiling of phenolic compounds in extra virgin olive oil. <i>Journal of Chromatography A</i> , 2011, 1218, 959-971.	1.8	66

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19	Urokinase Activates the Jak/Stat Signal Transduction Pathway in Human Vascular Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999, 19, 290-297.	1.1	61
20	Capillary electrophoresis–time of flight–mass spectrometry using noncovalently bilayer–coated capillaries for the analysis of amino acids in human urine. <i>Electrophoresis</i> , 2008, 29, 2714-2722.	1.3	61
21	Dopant Enriched Nitrogen Gas Combined with Sheathless Capillary Electrophoresis–Electrospray Ionization–Mass Spectrometry for Improved Sensitivity and Repeatability in Glycopeptide Analysis. <i>Analytical Chemistry</i> , 2016, 88, 5849-5856.	3.2	60
22	Amino acid profiling in urine by capillary zone electrophoresis – mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1159, 149-153.	1.8	57
23	Metabonomic investigation of human <i>Schistosoma mansoni</i> infection. <i>Molecular BioSystems</i> , 2011, 7, 1473.	2.9	57
24	Ultra high performance liquid chromatography-time of flight mass spectrometry for analysis of avocado fruit metabolites: Method evaluation and applicability to the analysis of ripening degrees. <i>Journal of Chromatography A</i> , 2011, 1218, 7723-7738.	1.8	56
25	Investigations on Aberrant Glycosylation of Glycosphingolipids in Colorectal Cancer Tissues Using Liquid Chromatography and Matrix-Assisted Laser Desorption Time-of-Flight Mass Spectrometry (MALDI-TOF-MS). <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3081-3093.	2.5	56
26	Differential colocalization of profilin with microfilaments in PtK2 cells. <i>Cytoskeleton</i> , 1997, 37, 166-177.	4.4	54
27	CE–ESI–MS for bottom–up proteomics: Advances in separation, interfacing and applications. <i>Mass Spectrometry Reviews</i> , 2016, 35, 259-271.	2.8	53
28	Metabolic profiling of human urine by CE-MS using a positively charged capillary coating and comparison with UPLC-MS. <i>Molecular BioSystems</i> , 2011, 7, 194-199.	2.9	52
29	Alignment of capillary electrophoresis–mass spectrometry datasets using accurate mass information. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2527-2533.	1.9	50
30	CE-MS for Metabolic Profiling of Volume-Limited Urine Samples: Application to Accelerated Aging TTD Mice. <i>Journal of Proteome Research</i> , 2010, 9, 4869-4874.	1.8	46
31	A novel peptidomics approach to detect markers of Alzheimer’s disease in cerebrospinal fluid. <i>Methods</i> , 2012, 56, 500-507.	1.9	46
32	Metabolic profiling of mouse cerebrospinal fluid by sheathless CE-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2895-2900.	1.9	44
33	Urokinase Induces Activation and Formation of Stat4 and Stat1-Stat2 Complexes in Human Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 24059-24065.	1.6	43
34	Derivatization of the tricarboxylic acid cycle intermediates and analysis by online solid-phase extraction-liquid chromatography–mass spectrometry with positive-ion electrospray ionization. <i>Journal of Chromatography A</i> , 2012, 1232, 19-26.	1.8	43
35	A Förster-resonance-energy transfer-based method for fluorescence detection of the protein redox state. <i>Analytical Biochemistry</i> , 2006, 350, 52-60.	1.1	42
36	Clinical Severity of Visceral Leishmaniasis Is Associated with Changes in Immunoglobulin G Fc N-Glycosylation. <i>MBio</i> , 2014, 5, e01844.	1.8	41

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37	Evaluation of different column chemistries for fast urinary metabolic profiling. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 927, 90-96.	1.2	40
38	Quantitative characterization of important metabolites of avocado fruit by gas chromatography coupled to different detectors (APCI-TOF MS and FID). <i>Food Research International</i> , 2014, 62, 801-811.	2.9	40
39	Cross-Laboratory Standardization of Preclinical Lipidomics Using Differential Mobility Spectrometry and Multiple Reaction Monitoring. <i>Analytical Chemistry</i> , 2021, 93, 16369-16378.	3.2	40
40	Explorative Analysis of Urine by Capillary Electrophoresis-Mass Spectrometry in Chronic Patients with Complex Regional Pain Syndrome. <i>Journal of Proteome Research</i> , 2009, 8, 5559-5567.	1.8	39
41	Usefulness of zebrafish larvae to evaluate drug-induced functional and morphological renal tubular alterations. <i>Archives of Toxicology</i> , 2018, 92, 411-423.	1.9	39
42	Coupling porous sheathless interface <sc>MS</sc> with transient<sc>ITP</sc> in neutral capillaries for improved sensitivity in glycopeptide analysis. <i>Electrophoresis</i> , 2013, 34, 383-387.	1.3	38
43	Analysis of biologically-active, endogenous carboxylic acids based on chromatography-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 17-28.	5.8	37
44	Plasma metabolic profiling after cortical spreading depression in a transgenic mouse model of hemiplegic migraine by capillary electrophoresis & mass spectrometry. <i>Molecular BioSystems</i> , 2015, 11, 1462-1471.	2.9	37
45	Mass Spectrometric Identification of Aberrantly Glycosylated Human Apolipoprotein C-III Peptides in Urine from <i>Schistosoma mansoni</i> -infected Individuals. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 667-681.	2.5	36
46	Opisthorchiasis: An Overlooked Danger. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003563.	1.3	36
47	Helminth infections and type 2 diabetes: a cluster-randomized placebo controlled SUGARSPIN trial in Nangapanda, Flores, Indonesia. <i>BMC Infectious Diseases</i> , 2015, 15, 133.	1.3	34
48	Colorectal cancer cell lines show striking diversity of their O-glycome reflecting the cellular differentiation phenotype. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 337-350.	2.4	34
49	<sup>1</sup> H NMR-based metabolic profiling of urinary tract infection: combining multiple statistical models and clinical data. <i>Metabolomics</i> , 2012, 8, 1227-1235.	1.4	32
50	Metabolomic analysis of avocado fruits by GC-APCI-TOF MS: effects of ripening degrees and fruit varieties. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 547-555.	1.9	32
51	Metabolomic investigations of human infections. <i>Bioanalysis</i> , 2012, 4, 919-925.	0.6	31
52	Fibrinogen alpha chain O-glycopeptides as possible markers of urinary tract infection. <i>Journal of Proteomics</i> , 2012, 75, 1067-1073.	1.2	31
53	Evaluation of gas chromatography-atmospheric pressure chemical ionization-mass spectrometry as an alternative to gas chromatography-electron ionization-mass spectrometry: Avocado fruit as example. <i>Journal of Chromatography A</i> , 2013, 1313, 228-244.	1.8	31
54	Metabolic analysis of body fluids by capillary electrophoresis using noncovalently coated capillaries. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 370-374.	1.2	30

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55	Morphological and functional properties of rat dentate granule cells after adrenalectomy. <i>Neuroscience</i> , 2001, 108, 263-272.	1.1	29
56	Comprehensive gas chromatography-electron ionisation mass spectrometric analysis of fatty acids and sterols using sequential one-pot silylation: quantification and isotopologue analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1507-1514.	0.7	28
57	Capillary-Electrophoresis Mass Spectrometry for the Detection of Carbapenemases in (Multi-)Drug-Resistant Gram-Negative Bacteria. <i>Analytical Chemistry</i> , 2014, 86, 9154-9161.	3.2	28
58	Defective postreperfusion metabolic recovery directly associates with incident delayed graft function. <i>Kidney International</i> , 2016, 90, 181-191.	2.6	28
59	Lipid metabolism of leukocytes in the unstimulated and activated states. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2353-2363.	1.9	28
60	Metabolic Profiling of Accelerated Aging ERCC1d Mice. <i>Journal of Proteome Research</i> , 2010, 9, 3680-3687.	1.8	27
61	Analyzing the impact of Mycobacterium tuberculosis infection on primary human macrophages by combined exploratory and targeted metabolomics. <i>Scientific Reports</i> , 2020, 10, 7085.	1.6	27
62	A Systems Oncology Approach Identifies NT5E as a Key Metabolic Regulator in Tumor Cells and Modulator of Platinum Sensitivity. <i>Journal of Proteome Research</i> , 2016, 15, 280-290.	1.8	26
63	Dynamic differences in dietary polyunsaturated fatty acid metabolism in sputum of COPD patients and controls. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 224-233.	1.2	26
64	Sheathless CE-MS based metabolic profiling of kidney tissue section samples from a mouse model of Polycystic Kidney Disease. <i>Scientific Reports</i> , 2019, 9, 806.	1.6	24
65	Site-Specific N-Linked Glycosylation Analysis of Human Carcinoembryonic Antigen by Sheathless Capillary Electrophoresis-Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2021, 20, 1666-1675.	1.8	24
66	Urinary TIMP-2 Predicts the Presence and Duration of Delayed Graft Function in Donation After Circulatory Death Kidney Transplant Recipients. <i>Transplantation</i> , 2019, 103, 1014-1023.	0.5	23
67	Automated quantification of metabolites in blood-derived samples by NMR. <i>Analytica Chimica Acta</i> , 2017, 976, 52-62.	2.6	22
68	Quantitative cortical synapse proteomics of a transgenic migraine mouse model with mutated Ca <sub>v</sub> 2.1 calcium channels. <i>Proteomics</i> , 2010, 10, 2531-2535.	1.3	21
69	Cross-platform analysis of longitudinal data in metabolomics. <i>Molecular BioSystems</i> , 2011, 7, 3214.	2.9	21
70	<sup>1</sup> H-NMR analysis of feces: new possibilities in the helminthes infections research. <i>BMC Infectious Diseases</i> , 2017, 17, 275.	1.3	21
71	KIMBLE: A versatile visual NMR metabolomics workbench in KNIME. <i>Analytica Chimica Acta</i> , 2018, 1044, 66-76.	2.6	21
72	Mild and selective labeling of malondialdehyde with 2-aminoacridone: assessment of urinary malondialdehyde levels. <i>Analyst, The</i> , 2011, 136, 2763.	1.7	20

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73	Results of an explorative clinical evaluation suggest immediate and persistent post-reperfusion metabolic paralysis drives kidney ischemia reperfusion injury. <i>Kidney International</i> , 2020, 98, 1476-1488.	2.6	20
74	Novel Automated Biomarker Discovery Work Flow for Urinary Peptidomics. <i>Clinical Chemistry</i> , 2009, 55, 117-125.	1.5	19
75	Current Methods of the Circulating Tumor Cells (CTC) Analysis: A Brief Overview. <i>Current Pharmaceutical Design</i> , 2017, 23, 4726-4728.	0.9	19
76	Evaluation of GC-APCI/MS and GC-FID as a complementary platform. <i>Journal of Biomolecular Techniques</i> , 2010, 21, 205-13.	0.8	19
77	Online spectral library for GC-atmospheric pressure chemical ionization- <sup>3</sup> ToF MS. <i>Bioanalysis</i> , 2013, 5, 1515-1525.	0.6	18
78	Hemozoin is a product of heme detoxification in the gut of the most medically important species of the family Opisthorchiidae. <i>International Journal for Parasitology</i> , 2016, 46, 147-156.	1.3	17
79	Urinary metabolites associate with the rate of kidney function decline in patients with autosomal dominant polycystic kidney disease. <i>PLoS ONE</i> , 2020, 15, e0233213.	1.1	16
80	Rapid mitogen-induced aminopeptidase N surface expression in human T cells is dominated by mechanisms independent of de novo protein biosynthesis. <i>Immunobiology</i> , 1997, 197, 55-69.	0.8	15
81	Detection and Structural Elucidation of Esterified Oxylipids in Human Synovial Fluid by Electrospray Ionization-Fourier Transform Ion-Cyclotron Mass Spectrometry and Liquid Chromatography-Ion Trap-MS <sup>3</sup> : Detection of Esterified Hydroxylated Docosapentaenoic Acid Containing Phospholipids. <i>Analytical Chemistry</i> , 2013, 85, 6003-6010.	3.2	15
82	Exploratory urinary metabolomics of type 1 leprosy reactions. <i>International Journal of Infectious Diseases</i> , 2016, 45, 46-52.	1.5	15
83	Exploratory metabolomics study of the experimental opisthorchiasis in a laboratory animal model (golden hamster, <i>Mesocricetus auratus</i> ). <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0006044.	1.3	15
84	Urinary metabolites predict prolonged duration of delayed graft function in DCD kidney transplant recipients. <i>American Journal of Transplantation</i> , 2019, 19, 110-122.	2.6	15
85	Twenty Years on: Metabolomics in Helminth Research. <i>Trends in Parasitology</i> , 2019, 35, 282-288.	1.5	15
86	Scientific workflow managers in metabolomics: an overview. <i>Analyst, The</i> , 2020, 145, 3801-3808.	1.7	15
87	<sup>1</sup> H-NMR metabolic profiling of cerebrospinal fluid in patients with complex regional pain syndrome-related dystonia. <i>Pain</i> , 2014, 155, 190-196.	2.0	14
88	HDL functionality in South Asians as compared to white Caucasians. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2016, 26, 697-705.	1.1	13
89	Zebrafish Larvae Are a Suitable Model to Investigate the Metabolic Phenotype of Drug-Induced Renal Tubular Injury. <i>Frontiers in Pharmacology</i> , 2018, 9, 1193.	1.6	13
90	Biliary Microbiota and Bile Acid Composition in Cholelithiasis. <i>BioMed Research International</i> , 2020, 2020, 1-8.	0.9	13

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91	Ethanol contamination of cerebrospinal fluid during standardized sampling and its effect on <sup>1</sup> H-NMR metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4835-4839.	1.9	12
92	Investigation on the combined effect of cocaine and ethanol administration through a liquid chromatography–mass spectrometry metabolomics approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 140, 313-321.	1.4	12
93	A new approach for fluorescence correlation spectroscopy (FCS) based immunoassays. <i>Journal of Biotechnology</i> , 2004, 107, 185-192.	1.9	11
94	The feasibility of MS and advanced data processing for monitoring <i>Schistosoma mansoni</i> infection. <i>Proteomics - Clinical Applications</i> , 2010, 4, 499-510.	0.8	11
95	Simple Rapid Near-Patient Diagnostics for Tuberculosis Remain Elusive—Is a “Treat-to-Test” Strategy More Realistic?. <i>PLoS Pathogens</i> , 2011, 7, e1002207.	2.1	10
96	Metabolomic changes in CSF of migraine patients measured with <sup>1</sup> H-NMR spectroscopy. <i>Molecular BioSystems</i> , 2016, 12, 3674-3682.	2.9	10
97	Plasma metabolomics of the time resolved response to <i>Opisthorchis felinus</i> infection in an animal model (golden hamster, <i>Mesocricetus auratus</i> ). <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008015.	1.3	10
98	High Diversity of Glycosphingolipid Glycans of Colorectal Cancer Cell Lines Reflects the Cellular Differentiation Phenotype. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100239.	2.5	9
99	Exploratory analysis of urinary tract infection using a GC-APCI-MS platform. <i>Analyst</i> , The, 2015, 140, 2834-2841.	1.7	7
100	The hypoxanthine-xanthine oxidase axis is not involved in the initial phase of clinical transplantation-related ischemia-reperfusion injury. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F457-F464.	1.3	7
101	Metabolic Reprogramming of Mammary Epithelial Cells during TGF- $\beta$ <sup>2</sup> -Induced Epithelial-to-Mesenchymal Transition. <i>Metabolites</i> , 2021, 11, 626.	1.3	7
102	Glycosphingolipid-Glycan Signatures of Acute Myeloid Leukemia Cell Lines Reflect Hematopoietic Differentiation. <i>Journal of Proteome Research</i> , 2022, 21, 1029-1040.	1.8	7
103	Initial guesses generation for fluorescence intensity distribution analysis. <i>European Biophysics Journal</i> , 2006, 35, 410-423.	1.2	5
104	Metabolic Homeostasis in Chronic Helminth Infection Is Sustained by Organ-Specific Metabolic Rewiring. <i>ACS Infectious Diseases</i> , 2021, 7, 906-916.	1.8	4
105	Dipeptidyl Peptidase IV (CD26) and Alzheimer Amyloid Protein Precursor (APP) in Polymyositis. <i>Advances in Experimental Medicine and Biology</i> , 1997, 421, 273-277.	0.8	3
106	Change in Urinary Myoinositol/Citrate Ratio Associates with Progressive Loss of Renal Function in ADPKD Patients. <i>American Journal of Nephrology</i> , 2022, 53, 470-480.	1.4	3
107	Effect of Suboptimal Sampling and Handling Conditions on Urinary Metabolic Profiles. <i>Chromatographia</i> , 2015, 78, 429-434.	0.7	2
108	A cross-platform metabolomics workflow for volume-restricted tissue samples: application to an animal model for polycystic kidney disease. <i>Molecular BioSystems</i> , 2017, 13, 1940-1945.	2.9	2

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109	An Automated RPâ€“SCX Solid-Phase Extraction Procedure for Urinary Peptidomics Biomarker Discovery Studies. <i>Methods in Molecular Biology</i> , 2013, 1023, 169-180.	0.4	1
110	Differential colocalization of profilin with microfilaments in PtK2 cells. <i>Cytoskeleton</i> , 1997, 37, 166-177.	4.4	1
111	Changes in Plasma Lipid Levels Following Cortical Spreading Depolarization in a Transgenic Mouse Model of Familial Hemiplegic Migraine. <i>Metabolites</i> , 2022, 12, 220.	1.3	1
112	Case study: urinary tract infection. , 2015, , 154-165.		0