

# Oleg A Mayboroda

## List of Publications by Year in descending order

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112  
papers

4,488  
citations

87888

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123424

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docs citations

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6121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycosphingolipid-Glycan Signatures of Acute Myeloid Leukemia Cell Lines Reflect Hematopoietic Differentiation. <i>Journal of Proteome Research</i> , 2022, 21, 1029-1040.	3.7	7
2	Changes in Plasma Lipid Levels Following Cortical Spreading Depolarization in a Transgenic Mouse Model of Familial Hemiplegic Migraine. <i>Metabolites</i> , 2022, 12, 220.	2.9	1
3	High Diversity of Glycosphingolipid Glycans of Colorectal Cancer Cell Lines Reflects the Cellular Differentiation Phenotype. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100239.	3.8	9
4	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.	3.1	3
5	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.	5.4	34
6	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.	3.7	24
7	Metabolic Homeostasis in Chronic Helminth Infection Is Sustained by Organ-Specific Metabolic Rewiring. <i>ACS Infectious Diseases</i> , 2021, 7, 906-916.	3.8	4
8	Metabolic Reprogramming of Mammary Epithelial Cells during TGF- $\beta$ -Induced Epithelial-to-Mesenchymal Transition. <i>Metabolites</i> , 2021, 11, 626.	2.9	7
9	Cross-Laboratory Standardization of Preclinical Lipidomics Using Differential Mobility Spectrometry and Multiple Reaction Monitoring. <i>Analytical Chemistry</i> , 2021, 93, 16369-16378.	6.5	40
10	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.	5.2	20
11	Biliary Microbiota and Bile Acid Composition in Cholelithiasis. <i>BioMed Research International</i> , 2020, 2020, 1-8.	1.9	13
12	Lipid metabolism of leukocytes in the unstimulated and activated states. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2353-2363.	3.7	28
13	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.	3.0	10
14	Scientific workflow managers in metabolomics: an overview. <i>Analyst</i> , The, 2020, 145, 3801-3808.	3.5	15
15	Analyzing the impact of <i>Mycobacterium tuberculosis</i> infection on primary human macrophages by combined exploratory and targeted metabolomics. <i>Scientific Reports</i> , 2020, 10, 7085.	3.3	27
16	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.	2.5	16
17	Urinary metabolites predict prolonged duration of delayed graft function in DCD kidney transplant recipients. <i>American Journal of Transplantation</i> , 2019, 19, 110-122.	4.7	15
18	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.	3.3	24

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19	Twenty Years on: Metabolomics in Helminth Research. Trends in Parasitology, 2019, 35, 282-288.	3.3	15
20	Urinary TIMP-2 Predicts the Presence and Duration of Delayed Graft Function in Donation After Circulatory Death Kidney Transplant Recipients. Transplantation, 2019, 103, 1014-1023.	1.0	23
21	Dynamic differences in dietary polyunsaturated fatty acid metabolism in sputum of COPD patients and controls. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 224-233.	2.4	26
22	Usefulness of zebrafish larvae to evaluate drug-induced functional and morphological renal tubular alterations. Archives of Toxicology, 2018, 92, 411-423.	4.2	39
23	Zebrafish Larvae Are a Suitable Model to Investigate the Metabolic Phenotype of Drug-Induced Renal Tubular Injury. Frontiers in Pharmacology, 2018, 9, 1193.	3.5	13
24	KIMBLE: A versatile visual NMR metabolomics workbench in KNIME. Analytica Chimica Acta, 2018, 1044, 66-76.	5.4	21
25	<sup>1</sup> H-NMR analysis of feces: new possibilities in the helminthes infections research. BMC Infectious Diseases, 2017, 17, 275.	2.9	21
26	Quantitative NMR analysis of intra- and extracellular metabolism of mammalian cells: A tutorial. Analytica Chimica Acta, 2017, 980, 1-24.	5.4	109
27	Sialic acid linkage differentiation of glycopeptides using capillary electrophoresis – electrospray ionization – mass spectrometry. Scientific Reports, 2017, 7, 3733.	3.3	82
28	Automated quantification of metabolites in blood-derived samples by NMR. Analytica Chimica Acta, 2017, 976, 52-62.	5.4	22
29	Investigation on the combined effect of cocaine and ethanol administration through a liquid chromatography–mass spectrometry metabolomics approach. Journal of Pharmaceutical and Biomedical Analysis, 2017, 140, 313-321.	2.8	12
30	The hypoxanthine-xanthine oxidase axis is not involved in the initial phase of clinical transplantation-related ischemia-reperfusion injury. American Journal of Physiology - Renal Physiology, 2017, 312, F457-F464.	2.7	7
31	A cross-platform metabolomics workflow for volume-restricted tissue samples: application to an animal model for polycystic kidney disease. Molecular BioSystems, 2017, 13, 1940-1945.	2.9	2
32	Current Methods of the Circulating Tumor Cells (CTC) Analysis: A Brief Overview. Current Pharmaceutical Design, 2017, 23, 4726-4728.	1.9	19
33	Exploratory metabolomics study of the experimental opisthorchiasis in a laboratory animal model (golden hamster, Mesocricetus auratus). PLoS Neglected Tropical Diseases, 2017, 11, e0006044.	3.0	15
34	Dopant Enriched Nitrogen Gas Combined with Sheathless Capillary Electrophoresis–Electrospray Ionization-Mass Spectrometry for Improved Sensitivity and Repeatability in Glycopeptide Analysis. Analytical Chemistry, 2016, 88, 5849-5856.	6.5	60
35	Metabolomic changes in CSF of migraine patients measured with <sup>1</sup> H-NMR spectroscopy. Molecular BioSystems, 2016, 12, 3674-3682.	2.9	10
36	Interspecies Interactions between Clostridium difficile and Candida albicans. MSphere, 2016, 1, .	2.9	74

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37	Defective postreperfusion metabolic recovery directly associates with incident delayed graft function. <i>Kidney International</i> , 2016, 90, 181-191.	5.2	28
38	Exploratory urinary metabolomics of type 1 leprosy reactions. <i>International Journal of Infectious Diseases</i> , 2016, 45, 46-52.	3.3	15
39	HDL functionality in South Asians as compared to white Caucasians. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2016, 26, 697-705.	2.6	13
40	CE-ESI-MS for bottom-up proteomics: Advances in separation, interfacing and applications. <i>Mass Spectrometry Reviews</i> , 2016, 35, 259-271.	5.4	53
41	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.	3.1	17
42	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.	3.7	26
43	Comparing two metabolic profiling approaches (liquid chromatography and gas chromatography) Tj ETQq1 1 0.784314 rgBT /Overlooked classification perspective. <i>Journal of Chromatography A</i> , 2016, 1428, 267-279.	3.7	72
44	Ethanol contamination of cerebrospinal fluid during standardized sampling and its effect on 1H-NMR metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4835-4839.	3.7	12
45	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.	3.7	32
46	Effect of Suboptimal Sampling and Handling Conditions on Urinary Metabolic Profiles. <i>Chromatographia</i> , 2015, 78, 429-434.	1.3	2
47	Opisthorchiasis: An Overlooked Danger. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003563.	3.0	36
48	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.	2.9	34
49	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
50	Exploratory analysis of urinary tract infection using a GC-APCI-MS platform. <i>Analyst</i> , The, 2015, 140, 2834-2841.	3.5	7
51	Case study: urinary tract infection. , 2015, , 154-165.		0
52	Clinical Severity of Visceral Leishmaniasis Is Associated with Changes in Immunoglobulin G Fc N-Glycosylation. <i>MBio</i> , 2014, 5, e01844.	4.1	41
53	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.	1.5	28
54	Analysis of biologically-active, endogenous carboxylic acids based on chromatography-mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 17-28.	11.4	37

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55	Capillary-Electrophoresis Mass Spectrometry for the Detection of Carbapenemases in (Multi-)Drug-Resistant Gram-Negative Bacteria. <i>Analytical Chemistry</i> , 2014, 86, 9154-9161.	6.5	28
56	<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.	4.2	14
57	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.	6.2	40
58	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.	2.3	40
59	Online spectral library for GC-atmospheric pressure chemical ionization—ToF MS. <i>Bioanalysis</i> , 2013, 5, 1515-1525.	1.5	18
60	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.	3.7	31
61	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.	2.4	38
62	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.	6.5	15
63	An Automated RP—SCX Solid-Phase Extraction Procedure for Urinary Peptidomics Biomarker Discovery Studies. <i>Methods in Molecular Biology</i> , 2013, 1023, 169-180.	0.9	1
64	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.	3.8	56
65	Metabolomic investigations of human infections. <i>Bioanalysis</i> , 2012, 4, 919-925.	1.5	31
66	<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.	3.0	32
67	A novel peptidomics approach to detect markers of Alzheimer—™s disease in cerebrospinal fluid. <i>Methods</i> , 2012, 56, 500-507.	3.8	46
68	Enhancing the Coverage of the Urinary Metabolome by Sheathless Capillary Electrophoresis-Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 885-892.	6.5	115
69	Fibrinogen alpha chain O-glycopeptides as possible markers of urinary tract infection. <i>Journal of Proteomics</i> , 2012, 75, 1067-1073.	2.4	31
70	CE—MS for proteomics: Advances in interface development and application. <i>Journal of Proteomics</i> , 2012, 75, 3814-3828.	2.4	73
71	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.	2.4	173
72	Ultra-Low Flow Electrospray Ionization-Mass Spectrometry for Improved Ionization Efficiency in Phosphoproteomics. <i>Analytical Chemistry</i> , 2012, 84, 4552-4559.	6.5	89

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73	Metabolic profiling of mouse cerebrospinal fluid by sheathless CE-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2895-2900.	3.7	44
74	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.	3.7	43
75	Cross-platform analysis of longitudinal data in metabolomics. <i>Molecular BioSystems</i> , 2011, 7, 3214.	2.9	21
76	Metabonomic investigation of human <i>Schistosoma mansoni</i> infection. <i>Molecular BioSystems</i> , 2011, 7, 1473.	2.9	57
77	Mild and selective labeling of malondialdehyde with 2-aminoacridone: assessment of urinary malondialdehyde levels. <i>Analyst</i> , 2011, 136, 2763.	3.5	20
78	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
79	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.	3.7	56
80	CE-MS for metabolomics: Developments and applications in the period 2008-2010. <i>Electrophoresis</i> , 2011, 32, 52-65.	2.4	113
81	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.	3.7	66
82	Simple Rapid Near-Patient Diagnostics for Tuberculosis Remain Elusive-Is a "Treat-to-Test" Strategy More Realistic?. <i>PLoS Pathogens</i> , 2011, 7, e1002207.	4.7	10
83	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.	3.7	91
84	The feasibility of MS and advanced data processing for monitoring <i>Schistosoma mansoni</i> infection. <i>Proteomics - Clinical Applications</i> , 2010, 4, 499-510.	1.6	11
85	Quantitative cortical synapse proteomics of a transgenic migraine mouse model with mutated $Ca_v2.1$ calcium channels. <i>Proteomics</i> , 2010, 10, 2531-2535.	2.2	21
86	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.	3.8	36
87	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.	3.7	46
88	High Capacity Capillary Electrophoresis-Electrospray Ionization Mass Spectrometry: Coupling a Porous Sheathless Interface with Transient-Isotachophoresis. <i>Analytical Chemistry</i> , 2010, 82, 9476-9483.	6.5	155
89	Metabolic Profiling of Accelerated Aging ERCC1d <sup>+/+</sup> Mice. <i>Journal of Proteome Research</i> , 2010, 9, 3680-3687.	3.7	27
90	Evaluation of GC-APCI/MS and GC-FID as a complementary platform. <i>Journal of Biomolecular Techniques</i> , 2010, 21, 205-13.	1.5	19

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91	Novel Automated Biomarker Discovery Work Flow for Urinary Peptidomics. <i>Clinical Chemistry</i> , 2009, 55, 117-125.	3.2	19
92	Alignment of capillary electrophoresis-mass spectrometry datasets using accurate mass information. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2527-2533.	3.7	50
93	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.	6.5	75
94	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.	3.7	39
95	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.	2.3	30
96	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.	2.4	61
97	Amino acid profiling in urine by capillary zone electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1159, 149-153.	3.7	57
98	A Förster-resonance-energy transfer-based method for fluorescence detection of the protein redox state. <i>Analytical Biochemistry</i> , 2006, 350, 52-60.	2.4	42
99	Initial guesses generation for fluorescence intensity distribution analysis. <i>European Biophysics Journal</i> , 2006, 35, 410-423.	2.2	5
100	A new approach for fluorescence correlation spectroscopy (FCS) based immunoassays. <i>Journal of Biotechnology</i> , 2004, 107, 185-192.	3.8	11
101	Morphological and functional properties of rat dentate granule cells after adrenalectomy. <i>Neuroscience</i> , 2001, 108, 263-272.	2.3	29
102	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.	2.6	259
103	Urokinase Activates the Jak/Stat Signal Transduction Pathway in Human Vascular Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999, 19, 290-297.	2.4	61
104	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.	3.4	43
105	Urokinase-induced mitogenesis is mediated by casein kinase 2 and nucleolin. <i>Current Biology</i> , 1999, 9, 1468-1476.	3.9	87
106	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.	3.9	153
107	Functional Imaging of Mitochondria in Saponin-permeabilized Mice Muscle Fibers. <i>Journal of Cell Biology</i> , 1998, 140, 1091-1099.	5.2	113
108	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.	3.4	165

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109	Rapid mitogen-induced aminopeptidase N surface expression in human T cells is dominated by mechanisms independent of de novo protein biosynthesis. Immunobiology, 1997, 197, 55-69.	1.9	15
110	Differential colocalization of profilin with microfilaments in PtK2 cells. Cytoskeleton, 1997, 37, 166-177.	4.4	54
111	Differential colocalization of profilin with microfilaments in PtK2 cells. Cytoskeleton, 1997, 37, 166-177.	4.4	1
112	Dipeptidyl Peptidase IV (CD26) and Alzheimer Amyloid Protein Precursor (APP) in Polymyositis. Advances in Experimental Medicine and Biology, 1997, 421, 273-277.	1.6	3