

Bekzod B Khakimov

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,087
citations

185998

28
h-index

264894

42
g-index

76
all docs

76
docs citations

76
times ranked

3292
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas chromatography â€“ mass spectrometry data processing made easy. <i>Journal of Chromatography A</i> , 2017, 1503, 57-64.	1.8	218
2	UDP-Glycosyltransferases from the UGT73C Subfamily in <i>Barbarea vulgaris</i> Catalyze Sapogenin 3-O-Glucosylation in Saponin-Mediated Insect Resistance. <i>Plant Physiology</i> , 2012, 160, 1881-1895.	2.3	134
3	High-throughput cereal metabolomics: Current analytical technologies, challenges and perspectives. <i>Journal of Cereal Science</i> , 2014, 59, 393-418.	1.8	93
4	Identification and genome organization of saponin pathway genes from a wild crucifer, and their use for transient production of saponins in <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2015, 84, 478-490.	2.8	73
5	New Nordic Diet versus Average Danish Diet: A Randomized Controlled Trial Revealed Healthy Long-Term Effects of the New Nordic Diet by GCâ€“MS Blood Plasma Metabolomics. <i>Journal of Proteome Research</i> , 2016, 15, 1939-1954.	1.8	61
6	CoMiniGutâ€”a small volume <i>in vitro</i> colon model for the screening of gut microbial fermentation processes. <i>PeerJ</i> , 2018, 6, e4268.	0.9	60
7	Trends in the application of chemometrics to foodomics studies. <i>Acta Alimentaria</i> , 2015, 44, 4-31.	0.3	59
8	Effect of fecal microbiota transplantation route of administration on gut colonization and host response in preterm pigs. <i>ISME Journal</i> , 2019, 13, 720-733.	4.4	59
9	The use of trimethylsilyl cyanide derivatization for robust and broad-spectrum high-throughput gas chromatographyâ€“mass spectrometry based metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9193-9205.	1.9	56
10	A comprehensive and comparative GCâ€“MS metabolomics study of non-volatiles in Tanzanian grown mango, pineapple, jackfruit, baobab and tamarind fruits. <i>Food Chemistry</i> , 2016, 213, 691-699.	4.2	56
11	WHEY - The waste-stream that became more valuable than the food product. <i>Trends in Food Science and Technology</i> , 2021, 118, 230-241.	7.8	56
12	Comprehensive and Comparative Metabolomic Profiling of Wheat, Barley, Oat and Rye Using Gas Chromatography-Mass Spectrometry and Advanced Chemometrics. <i>Foods</i> , 2014, 3, 569-585.	1.9	54
13	Signature Mapping (SigMa): An efficient approach for processing complex human urine ¹ H NMR metabolomics data. <i>Analytica Chimica Acta</i> , 2020, 1108, 142-151.	2.6	53
14	Quantification of lipoprotein profiles by nuclear magnetic resonance spectroscopy and multivariate data analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 94, 210-219.	5.8	52
15	Plant metabolomics: Resolution and quantification of elusive peaks in liquid chromatographyâ€“mass spectrometry profiles of complex plant extracts using multi-way decomposition methods. <i>Journal of Chromatography A</i> , 2012, 1266, 84-94.	1.8	51
16	Quinoa seed coats as an expanding and sustainable source of bioactive compounds: An investigation of genotypic diversity in saponin profiles. <i>Industrial Crops and Products</i> , 2017, 104, 156-163.	2.5	48
17	Toward Reliable Lipoprotein Particle Predictions from NMR Spectra of Human Blood: An Interlaboratory Ring Test. <i>Analytical Chemistry</i> , 2017, 89, 8004-8012.	3.2	46
18	Synthetic Biology of Cannabinoids and Cannabinoid Glucosides in <i>Nicotiana benthamiana</i> and <i>Saccharomyces cerevisiae</i> . <i>Journal of Natural Products</i> , 2020, 83, 2877-2893.	1.5	46

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19	The cytochrome P450 CYP72A552 is key to production of hederagenin-based saponins that mediate plant defense against herbivores. <i>New Phytologist</i> , 2019, 222, 1599-1609.	3.5	42
20	Physical fitness in community-dwelling older adults is linked to dietary intake, gut microbiota, and metabolomic signatures. <i>Aging Cell</i> , 2020, 19, e13105.	3.0	41
21	The use of rapid spectroscopic screening methods to detect adulteration of food raw materials and ingredients. <i>Current Opinion in Food Science</i> , 2016, 10, 45-51.	4.1	39
22	Co-expression of squalene epoxidases with triterpene cyclases boosts production of triterpenoids in plants and yeast. <i>Metabolic Engineering</i> , 2018, 49, 1-12.	3.6	38
23	Counteracting Age-related Loss of Skeletal Muscle Mass: a clinical and ethnological trial on the role of protein supplementation and training load (CALM Intervention Study): study protocol for a randomized controlled trial. <i>Trials</i> , 2016, 17, 397.	0.7	36
24	Biomarkers of Individual Foods, and Separation of Diets Using Untargeted LC-MS-based Plasma Metabolomics in a Randomized Controlled Trial. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800215.	1.5	34
25	Screening for Triterpenoid Saponins in Plants Using Hyphenated Analytical Platforms. <i>Molecules</i> , 2016, 21, 1614.	1.7	31
26	GC-MS Metabolite Profiling of Extreme Southern Pinot noir Wines: Effects of Vintage, Barrel Maturation, and Fermentation Dominate over Vineyard Site and Clone Selection. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2342-2351.	2.4	31
27	Generation of short-chained granular corn starch by maltogenic α -amylase and transglucosidase treatment. <i>Carbohydrate Polymers</i> , 2021, 251, 117056.	5.1	31
28	Digestion patterns of proteins in pasteurized and ultra-high temperature milk using in vitro gastric models of adult and elderly. <i>Journal of Food Engineering</i> , 2021, 292, 110305.	2.7	29
29	From metabolome to phenotype: GC-MS metabolomics of developing mutant barley seeds reveals effects of growth, temperature and genotype. <i>Scientific Reports</i> , 2017, 7, 8195.	1.6	25
30	Human Faecal ¹ H NMR Metabolomics: Evaluation of Solvent and Sample Processing on Coverage and Reproducibility of Signature Metabolites. <i>Analytical Chemistry</i> , 2020, 92, 9546-9555.	3.2	22
31	Antibiotic Treatment Preventing Necrotising Enterocolitis Alters Urinary and Plasma Metabolomes in Preterm Pigs. <i>Journal of Proteome Research</i> , 2017, 16, 3547-3557.	1.8	21
32	Sequential maltogenic α -amylase and branching enzyme treatment to modify granular corn starch. <i>Food Hydrocolloids</i> , 2021, 120, 106904.	5.6	21
33	Lepidopteran defence droplets - a composite physical and chemical weapon against potential predators. <i>Scientific Reports</i> , 2016, 6, 22407.	1.6	20
34	Resveratrol in the foodomics era: 1:25,000. <i>Annals of the New York Academy of Sciences</i> , 2017, 1403, 48-58.	1.8	19
35	A Single Oxidosqualene Cyclase Produces the <i>Seco</i> -Triterpenoid α -Onocerin. <i>Plant Physiology</i> , 2018, 176, 1469-1484.	2.3	18
36	The effect of charcoal on medicinal compounds of seeds of fenugreek (<i>Trigonella foenum-graecum</i> L.) exposed to drought stress. <i>Industrial Crops and Products</i> , 2019, 131, 323-329.	2.5	16

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37	Influence of Age, Sex, and Diet on the Human Fecal Metabolome Investigated by ¹ H NMR Spectroscopy. <i>Journal of Proteome Research</i> , 2021, 20, 3642-3653.	1.8	16
38	Isolation and Structural Characterization of Echinocystic Acid Triterpenoid Saponins from the Australian Medicinal and Food Plant <i>Acacia ligulata</i> . <i>Journal of Natural Products</i> , 2017, 80, 2692-2698.	1.5	15
39	Cool-Climate Red Wines—Chemical Composition and Comparison of Two Protocols for ¹ H NMR Analysis. <i>Molecules</i> , 2018, 23, 160.	1.7	15
40	Ethanol pretreatment increases the efficiency of maltogenic α -amylase and branching enzyme to modify the structure of granular native maize starch. <i>Food Hydrocolloids</i> , 2022, 123, 107118.	5.6	15
41	Identification of weak and gender specific effects in a short 3 weeks intervention study using barley and oat mixed linkage β -glucan dietary supplements: a human fecal metabolome study by GC-MS. <i>Metabolomics</i> , 2017, 13, 108.	1.4	14
42	The foodome of bivalve molluscs: From hedonic eating to healthy diet. <i>Journal of Food Composition and Analysis</i> , 2018, 69, 13-19.	1.9	13
43	Cascading Effects of Root Microbial Symbiosis on the Development and Metabolome of the Insect Herbivore <i>Manduca sexta</i> L.. <i>Metabolites</i> , 2021, 11, 731.	1.3	13
44	A Multi-Omics Approach Reveals New Signatures in Obese Allergic Asthmatic Children. <i>Biomedicines</i> , 2020, 8, 359.	1.4	12
45	Gastric Digestion of Milk Proteins in Adult and Elderly: Effect of High-Pressure Processing. <i>Foods</i> , 2021, 10, 786.	1.9	12
46	Biogenic amines: a key freshness parameter of animal protein products in the coming circular economy. <i>Current Opinion in Food Science</i> , 2018, 22, 167-173.	4.1	12
47	Chemical characterization by gas chromatography-mass spectrometry and inductively coupled plasma-optical emission spectroscopy of membrane permeates from an industrial dairy ingredient production used as process water. <i>Journal of Dairy Science</i> , 2018, 101, 135-146.	1.4	11
48	Human urine ¹ H NMR metabolomics reveals alterations of protein and carbohydrate metabolism when comparing habitual Average Danish diet vs. healthy New Nordic diet. <i>Nutrition</i> , 2020, 79-80, 110867.	1.1	11
49	Untargeted GC-MS Metabolomics Reveals Changes in the Metabolite Dynamics of Industrial Scale Batch Fermentations of <i>Streptococcus thermophilus</i> Broth. <i>Biotechnology Journal</i> , 2017, 12, 1700400.	1.8	10
50	Investigation of Variations in the Human Urine Metabolome amongst European Populations: An Exploratory Search for Biomarkers of People at Risk of Poverty. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800216.	1.5	10
51	Non-volatile molecular composition and discrimination of single grape white wines of Chardonnay, Riesling, Sauvignon Blanc and Silvaner using untargeted GC-MS analysis. <i>Food Chemistry</i> , 2022, 369, 130878.	4.2	10
52	Structurally different mixed linkage β -glucan supplements differentially increase secondary bile acid excretion in hypercholesterolaemic rat faeces. <i>Food and Function</i> , 2020, 11, 514-523.	2.1	9
53	The plasma metabolome of Atlantic salmon as studied by ¹ H NMR spectroscopy using standard operating procedures: effect of aquaculture location and growth stage. <i>Metabolomics</i> , 2021, 17, 50.	1.4	9
54	Human Blood Lipoprotein Predictions from ¹ H NMR Spectra: Protocol, Model Performances, and Cage of Covariance. <i>Analytical Chemistry</i> , 2022, 94, 628-636.	3.2	9

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55	An Independent Evolutionary Origin for Insect Deterrent Cucurbitacins in <i>Iberis amara</i> . <i>Molecular Biology and Evolution</i> , 2021, 38, 4659-4673.	3.5	8
56	Reciprocal mutations of two multifunctional β -amyrin synthases from <i>Barbarea vulgaris</i> shift β -amyrin ratios. <i>Plant Physiology</i> , 2022, 188, 1483-1495.	2.3	8
57	First-principles identification of C-methyl-scylo-inositol (mytilitol) – A new species-specific metabolite indicator of geographic origin for marine bivalve molluscs (<i>Mytilus</i> and <i>Ruditapes</i> spp.). <i>Food Chemistry</i> , 2020, 328, 126959.	4.2	7
58	High throughput in vitro characterization of pectins for pig(let) nutrition. <i>Animal Microbiome</i> , 2021, 3, 69.	1.5	7
59	Human Fecal Metabolome Reflects Differences in Body Mass Index, Physical Fitness, and Blood Lipoproteins in Healthy Older Adults. <i>Metabolites</i> , 2021, 11, 717.	1.3	7
60	Comparison of statistical methods for predicting penetration capacity of drugs into human breast milk using physicochemical, pharmacokinetic and chromatographic descriptors. <i>SAR and QSAR in Environmental Research</i> , 2020, 31, 457-475.	1.0	5
61	Gut colonization in preterm infants supplemented with bovine colostrum in the first week of life: An explorative pilot study. <i>Journal of Parenteral and Enteral Nutrition</i> , 2022, 46, 592-599.	1.3	5
62	Plasma Metabolomics to Evaluate Progression of Necrotising Enterocolitis in Preterm Pigs. <i>Metabolites</i> , 2021, 11, 283.	1.3	4
63	NMR Foodomics. <i>New Developments in NMR</i> , 2018, , 183-245.	0.1	4
64	Progression of Postprandial Blood Plasma Phospholipids Following Acute Intake of Different Dairy Matrices: A Randomized Crossover Trial. <i>Metabolites</i> , 2021, 11, 454.	1.3	2
65	IDDF2020-ABS-0174 – Onset of hypertriglyceridemia in relation to dietary intake, gut microbiome and metabolomics signatures among home dwelling elderly. , 2020, , .		2
66	Effect of Supplementing Dairy Goat Diets With Rapeseed Oil or Sunflower Oil on Performance, Milk Composition, Milk Fatty Acid Profile, and in vitro Fermentation Kinetics. <i>Frontiers in Veterinary Science</i> , 0, 9, .	0.9	2
67	Physiological Genetics Reformed: Bridging the Genome-to-Phenome Gap by Coherent Chemical Fingerprints – the Global Coordinator. <i>Trends in Plant Science</i> , 2021, 26, 324-337.	4.3	1
68	Goat Milk Foodomics. Dietary Supplementation of Sunflower Oil and Rapeseed Oil Modify Milk Amino Acid and Organic Acid Profiles in Dairy Goats. <i>Frontiers in Veterinary Science</i> , 2022, 9, 837229.	0.9	1
69	Urinary and plasma metabolome of farm mink (<i>Neovison vison</i>) after an intervention with raw or cooked poultry offal: a ¹ H NMR investigation. <i>Archives of Animal Nutrition</i> , 2022, 76, 74-91.	0.9	0