

# Blaz Stres

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

21,245  
citations

304743

22  
h-index

197818

49  
g-index

56  
all docs

56  
docs citations

56  
times ranked

27589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing mothur: Open-Source, Platform-Independent, Community-Supported Software for Describing and Comparing Microbial Communities. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7537-7541.	3.1	18,390
2	Quantitative Detection of the nosZ Gene, Encoding Nitrous Oxide Reductase, and Comparison of the Abundances of 16S rRNA, narG, nirK, and nosZ Genes in Soils. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5181-5189.	3.1	828
3	Phylogenetic Analysis of Nitrite, Nitric Oxide, and Nitrous Oxide Respiratory Enzymes Reveal a Complex Evolutionary History for Denitrification. <i>Molecular Biology and Evolution</i> , 2008, 25, 1955-1966.	8.9	424
4	Rhizosphere bacteria and fungi associated with plant growth in soils of three replanted apple orchards. <i>Plant and Soil</i> , 2015, 395, 317-333.	3.7	200
5	Influence of temperature and soil water content on bacterial, archaeal and denitrifying microbial communities in drained fen grassland soil microcosms. <i>FEMS Microbiology Ecology</i> , 2008, 66, 110-122.	2.7	177
6	Applications of Machine Learning in Human Microbiome Studies: A Review on Feature Selection, Biomarker Identification, Disease Prediction and Treatment. <i>Frontiers in Microbiology</i> , 2021, 12, 634511.	3.5	157
7	Nitrous Oxide Reductase ( nosZ ) Gene Fragments Differ between Native and Cultivated Michigan Soils. <i>Applied and Environmental Microbiology</i> , 2004, 70, 301-309.	3.1	94
8	The Core Gut Microbiome of Black Soldier Fly ( <i>Hermetia illucens</i> ) Larvae Raised on Low-Bioburden Diets. <i>Frontiers in Microbiology</i> , 2020, 11, 993.	3.5	91
9	Emissions of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O from Southern European peatlands. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1437-1446.	8.8	76
10	Recently Deglaciated High-Altitude Soils of the Himalaya: Diverse Environments, Heterogenous Bacterial Communities and Long-Range Dust Inputs from the Upper Troposphere. <i>PLoS ONE</i> , 2013, 8, e76440.	2.5	66
11	Microbial activity and community structure in two drained fen soils in the Ljubljana Marsh. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2762-2771.	8.8	62
12	Frequent freeze-thaw cycles yield diminished yet resistant and responsive microbial communities in two temperate soils: a laboratory experiment. <i>FEMS Microbiology Ecology</i> , 2010, 74, 323-335.	2.7	59
13	Statistical and Machine Learning Techniques in Human Microbiome Studies: Contemporary Challenges and Solutions. <i>Frontiers in Microbiology</i> , 2021, 12, 635781.	3.5	51
14	Ecological and conventional viticulture gives rise to distinct fungal and bacterial microbial communities in vineyard soils. <i>Applied Soil Ecology</i> , 2017, 113, 86-95.	4.3	39
15	Biotic and abiotic processes contribute to successful anaerobic degradation of cyanide by UASB reactor biomass treating brewery waste water. <i>Water Research</i> , 2013, 47, 3644-3653.	11.3	36
16	Impact of Processed Food (Canteen and Oil Wastes) on the Development of Black Soldier Fly ( <i>Hermetia</i> ) Tj ETQq0 0 0 rgBT / Qverlock 10	3.5	36
17	Addressing case specific biogas plant tasks: Industry oriented methane yields derived from 5L Automatic Methane Potential Test Systems in batch or semi-continuous tests using realistic inocula, substrate particle sizes and organic loading. <i>Bioresource Technology</i> , 2014, 153, 180-188.	9.6	35
18	Hypoxia and Inactivity Related Physiological Changes (Constipation, Inflammation) Are Not Reflected at the Level of Gut Metabolites and Butyrate Producing Microbial Community: The PlanHab Study. <i>Frontiers in Physiology</i> , 2017, 8, 250.	2.8	32

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19	Reanalysis of microbiomes in soils affected by apple replant disease (ARD): Old foes and novel suspects lead to the proposal of extended model of disease development. <i>Applied Soil Ecology</i> , 2018, 129, 24-33.	4.3	30
20	Diversity and seasonal variations of mycorrhiza and rhizosphere bacteria in three common plant species at the Slovenian Ljubljana Marsh. <i>Biology and Fertility of Soils</i> , 2009, 45, 573-583.	4.3	26
21	Potential for valorization of dehydrated paper pulp sludge for biogas production: Addition of selected hydrolytic enzymes in semi-continuous anaerobic digestion assays. <i>Energy</i> , 2017, 126, 326-334.	8.8	26
22	Intestinal Metagenomes and Metabolomes in Healthy Young Males: Inactivity and Hypoxia Generated Negative Physiological Symptoms Precede Microbial Dysbiosis. <i>Frontiers in Physiology</i> , 2018, 9, 198.	2.8	25
23	Methane Yield Database: Online infrastructure and bioresource for methane yield data and related metadata. <i>Bioresource Technology</i> , 2015, 189, 217-223.	9.6	21
24	Transformations of mineral nitrogen applied to peat soil during sequential oxic/anoxic cycling. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1338-1346.	8.8	20
25	Hypoxia and inactivity related physiological changes precede or take place in absence of significant rearrangements in bacterial community structure: The PlanHab randomized trial pilot study. <i>PLoS ONE</i> , 2017, 12, e0188556.	2.5	20
26	Effect of the Nursing Mother on the Gut Microbiome of the Offspring During Early Mouse Development. <i>Microbial Ecology</i> , 2019, 78, 517-527.	2.8	17
27	Integral analysis of hydrodynamic cavitation effects on waste activated sludge characteristics, potentially toxic metals, microorganisms and identification of microplastics. <i>Science of the Total Environment</i> , 2022, 806, 151414.	8.0	17
28	Spinal Muscular Atrophy after Nusinersen Therapy: Improved Physiology in Pediatric Patients with No Significant Change in Urine, Serum, and Liquor 1H-NMR Metabolomes in Comparison to an Age-Matched, Healthy Cohort. <i>Metabolites</i> , 2021, 11, 206.	2.9	16
29	Community effort endorsing multiscale modelling, multiscale data science and multiscale computing for systems medicine. <i>Briefings in Bioinformatics</i> , 2019, 20, 1057-1062.	6.5	15
30	1H NMR metabolomics of microbial metabolites in the four MW agricultural biogas plant reactors: A case study of inhibition mirroring the acute rumen acidosis symptoms. <i>Journal of Environmental Management</i> , 2018, 222, 428-435.	7.8	14
31	Shift in the paradigm towards next-generation microbiology. <i>FEMS Microbiology Letters</i> , 2019, 366, .	1.8	12
32	Computational Framework for High-Quality Production and Large-Scale Evolutionary Analysis of Metagenome Assembled Genomes. <i>Molecular Biology and Evolution</i> , 2020, 37, 593-598.	8.9	11
33	Mechanistic Modeling and Multiscale Applications for Precision Medicine: Theory and Practice. <i>Network and Systems Medicine</i> , 2020, 3, 36-56.	2.5	11
34	BEsTRF: a tool for optimal resolution of terminal-restriction fragment length polymorphism analysis based on user-defined primer-enzyme-sequence databases. <i>Bioinformatics</i> , 2009, 25, 1556-1558.	4.1	10
35	Mixture of primary and secondary municipal wastewater sludge as a short-term substrate in 2 MW agricultural biogas plant: site-specific sustainability of enzymatic and ultrasound pretreatments. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2769-2778.	3.2	10
36	New Frontiers in Soil Microbiology: How To Link Structure and Function of Microbial Communities?. , 2006, , 1-22.		9

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37	Systems View of Deconditioning During Spaceflight Simulation in the PlanHab Project: The Departure of Urine 1 H-NMR Metabolomes From Healthy State in Young Males Subjected to Bedrest Inactivity and Hypoxia. <i>Frontiers in Physiology</i> , 2020, 11, 532271.	2.8	9
38	An Early Stage Researcher's Primer on Systems Medicine Terminology. <i>Network and Systems Medicine</i> , 2021, 4, 2-50.	2.5	9
39	Microbial community dynamics in mesophilic and thermophilic batch reactors under methanogenic, phenyl acid-forming conditions. <i>Biotechnology for Biofuels</i> , 2020, 13, 81.	6.2	8
40	Lignin intermediates lead to phenyl acid formation and microbial community shifts in meso- and thermophilic batch reactors. <i>Biotechnology for Biofuels</i> , 2021, 14, 27.	6.2	8
41	The Importance of Objective Stool Classification in Fecal 1H-NMR Metabolomics: Exponential Increase in Stool Crosslinking Is Mirrored in Systemic Inflammation and Associated to Fecal Acetate and Methionine. <i>Metabolites</i> , 2021, 11, 172.	2.9	8
42	Composition of the cutaneous bacterial community of a cave amphibian, <i>Proteus anguinus</i> . <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	7
43	Full-scale agricultural biogas plant metal content and process parameters in relation to bacterial and archaeal microbial communities over 2.5 year span. <i>Journal of Environmental Management</i> , 2018, 213, 566-574.	7.8	6
44	Original Leaf Colonisers Shape Fungal Decomposer Communities of <i>Phragmites australis</i> in Intermittent Habitats. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 284.	3.5	6
45	Exercise and Interorgan Communication: Short-Term Exercise Training Blunts Differences in Consecutive Daily Urine 1H-NMR Metabolomic Signatures between Physically Active and Inactive Individuals. <i>Metabolites</i> , 2022, 12, 473.	2.9	4
46	Distinct approaches for the detection and removal of chimeric 16S rRNA sequences can significantly affect the outcome of between-site comparisons. <i>Aquatic Microbial Ecology</i> , 2012, 66, 13-21.	1.8	3
47	Organisms of the Nitrogen Cycle Under Extreme Conditions: Low Temperature, Salinity, pH Value and Water Stress. , 2007, , 369-379.		2
48	Clustering and Classification of Human Microbiome Data: Evaluating the Impact of Different Settings in Bioinformatics Workflows. , 2019, , .		2
49	Broad diversity of bacteria degrading 17 $\beta$ -estradiol-3-sulfate isolated from river sediment and biofilm at a wastewater treatment plant discharge. <i>Archives of Microbiology</i> , 2021, 203, 4209-4219.	2.2	2
50	Student performance study: the outcomes of metabolic, molecular and physical-chemical characterization of intestinal tract microbiome on a four mammalian species model. <i>Acta Agriculturae Slovenica</i> , 2014, , 91-98.	0.3	2
51	Urine and Fecal 1H-NMR Metabolomes Differ Significantly between Pre-Term and Full-Term Born Physically Fit Healthy Adult Males. <i>Metabolites</i> , 2022, 12, 536.	2.9	2
52	The impact of crude glycerol from biodiesel production and its trace element content on biomethane production in a batch experiment: modelling as a step towards impartial routine comparison of results. <i>Acta Hydrotechnica</i> , 2021, , 11-24.	0.4	1
53	General Unified Microbiome Profiling Pipeline (GUMPP) for Large Scale, Streamlined and Reproducible Analysis of Bacterial 16S rRNA Data to Predicted Microbial Metagenomes, Enzymatic Reactions and Metabolic Pathways. <i>Metabolites</i> , 2021, 11, 336.	2.9	1
54	Antibiotic-resistant soil bacteria in high-altitude (5000-6000 m) soil of the Himalaya. <i>Acta Agriculturae Slovenica</i> , 2010, 96, .	0.3	0

#	ARTICLE	IF	CITATIONS
55	DNA encoding for an efficient 'Omics processing. Computer Methods and Programs in Biomedicine, 2010, 100, 175-190.	4.7	0