

# Valeria Tafintseva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/485653/publications.pdf>

Version: 2024-02-01

38  
papers

580  
citations

687363

13  
h-index

642732

23  
g-index

40  
all docs

40  
docs citations

40  
times ranked

561  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemical profiling, prediction of total lipid content and fatty acid profile in oleaginous yeasts by FTIR spectroscopy. <i>Biotechnology for Biofuels</i> , 2019, 12, 140.	6.2	70
2	Microtiter plate cultivation of oleaginous fungi and monitoring of lipogenesis by high-throughput FTIR spectroscopy. <i>Microbial Cell Factories</i> , 2017, 16, 101.	4.0	62
3	Analysis of Allergenic Pollen by FTIR Microspectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 803-811.	6.5	47
4	Microcultivation and FTIR spectroscopy-based screening revealed a nutrient-induced co-production of high-value metabolites in oleaginous Mucoromycota fungi. <i>PLoS ONE</i> , 2020, 15, e0234870.	2.5	42
5	Unravelling genetic variation underlying de novo-synthesis of bovine milk fatty acids. <i>Scientific Reports</i> , 2018, 8, 2179.	3.3	34
6	Merging FT-IR and NGS for simultaneous phenotypic and genotypic identification of pathogenic <i>Candida</i> species. <i>PLoS ONE</i> , 2017, 12, e0188104.	2.5	31
7	The influence of phosphorus source and the nature of nitrogen substrate on the biomass production and lipid accumulation in oleaginous Mucoromycota fungi. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8065-8076.	3.6	31
8	A high-throughput FTIR spectroscopy approach to assess adaptive variation in the chemical composition of pollen. <i>Ecology and Evolution</i> , 2017, 7, 10839-10849.	1.9	29
9	Extended multiplicative signal correction for FTIR spectral quality test and pre-processing of infrared imaging data. <i>Journal of Biophotonics</i> , 2020, 13, e201960112.	2.3	21
10	Metal and Phosphate Ions Show Remarkable Influence on the Biomass Production and Lipid Accumulation in Oleaginous <i>Mucor circinelloides</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 260.	3.5	19
11	Combining Chemical Information From Grass Pollen in Multimodal Characterization. <i>Frontiers in Plant Science</i> , 2019, 10, 1788.	3.6	18
12	Hierarchical classification of microorganisms based on high-dimensional phenotypic data. <i>Journal of Biophotonics</i> , 2018, 11, e201700047.	2.3	16
13	Obesity-Related Metabolome and Gut Microbiota Profiles of Juvenile Göttingen Minipigs' Long-Term Intake of Fructose and Resistant Starch. <i>Metabolites</i> , 2020, 10, 456.	2.9	16
14	Discrimination of grass pollen of different species by FTIR spectroscopy of individual pollen grains. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6459-6474.	3.7	16
15	Deep convolutional neural network recovers pure absorbance spectra from highly scatter-distorted spectra of cells. <i>Journal of Biophotonics</i> , 2020, 13, e202000204.	2.3	14
16	Assessment of Biotechnologically Important Filamentous Fungal Biomass by Fourier Transform Raman Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6710.	4.1	13
17	Global structure of sloppiness in a nonlinear model. <i>Journal of Chemometrics</i> , 2014, 28, 645-655.	1.3	12
18	Correcting replicate variation in spectroscopic data by machine learning and model-based pre-processing. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 215, 104350.	3.5	12

#	ARTICLE	IF	CITATIONS
19	Infrared Fiber-Optic Spectroscopy Detects Bovine Articular Cartilage Degeneration. <i>Cartilage</i> , 2021, 13, 285S-294S.	2.7	10
20	Preprocessing Strategies for Sparse Infrared Spectroscopy: A Case Study on Cartilage Diagnostics. <i>Molecules</i> , 2022, 27, 873.	3.8	9
21	Grayscale representation of infrared microscopy images by extended multiplicative signal correction for registration with histological images. <i>Journal of Biophotonics</i> , 2020, 13, e201960223.	2.3	8
22	A robust metabolomics approach for the evaluation of human embryos from <i>in vitro</i> fertilization. <i>Analyst</i> , 2021, 146, 6156-6169.	3.5	7
23	PLS-Based Multivariate Metamodeling of Dynamic Systems. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013, , 3-30.	0.2	7
24	Temperature- and Nutrients-Induced Phenotypic Changes of Antarctic Green Snow Bacteria Probed by High-Throughput FTIR Spectroscopy. <i>Biology</i> , 2022, 11, 890.	2.8	7
25	The Use of Constituent Spectra and Weighting in Extended Multiplicative Signal Correction in Infrared Spectroscopy. <i>Molecules</i> , 2022, 27, 1900.	3.8	6
26	Model-Based Pre-Processing in Vibrational Spectroscopy. , 2020, , 83-100.		5
27	Genetic variants associated with two major bovine milk fatty acids offer opportunities to breed for altered milk fat composition. <i>Genetics Selection Evolution</i> , 2022, 54, .	3.0	5
28	Fourier transform infrared spectroscopy of milk samples as a tool to estimate energy balance, energy- and dry matter intake in lactating dairy cows. <i>Journal of Dairy Research</i> , 2020, 87, 436-443.	1.4	4
29	Polynomial representations of piecewise-linear differential equations arising from gene regulatory networks. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 1732-1754.	1.7	3
30	Exploring Dry-Film FTIR Spectroscopy to Characterize Milk Composition and Subclinical Ketosis throughout a Cow's Lactation. <i>Foods</i> , 2021, 10, 2033.	4.3	3
31	Convergence Properties of Piecewise Power Approximations. <i>Applied Mathematics</i> , 2016, 07, 1440-1445.	0.4	1
32	Preclassification of Broadband and Sparse Infrared Data by Multiplicative Signal Correction Approach. <i>Molecules</i> , 2022, 27, 2298.	3.8	1
33	Power-Law Formalism in Gene Regulatory Networks. , 2011, , .		0
34	Piecewise synergetic systems and applications in biochemical systems theory. <i>Georgian Mathematical Journal</i> , 2017, 24, 135-148.	0.6	0
35	Title is missing!. , 2020, 15, e0234870.		0
36	Title is missing!. , 2020, 15, e0234870.		0

#	ARTICLE	IF	CITATIONS
37	Title is missing!. , 2020, 15, e0234870.		0
38	Title is missing!. , 2020, 15, e0234870.		0