

Valeria Tafintseva

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

580
citations

686830

13
h-index

642321

23
g-index

40
all docs

40
docs citations

40
times ranked

561
citing authors

#	ARTICLE	IF	CITATIONS
1	Preprocessing Strategies for Sparse Infrared Spectroscopy: A Case Study on Cartilage Diagnostics. <i>Molecules</i> , 2022, 27, 873.	1.7	9
2	The Use of Constituent Spectra and Weighting in Extended Multiplicative Signal Correction in Infrared Spectroscopy. <i>Molecules</i> , 2022, 27, 1900.	1.7	6
3	Preclassification of Broadband and Sparse Infrared Data by Multiplicative Signal Correction Approach. <i>Molecules</i> , 2022, 27, 2298.	1.7	1
4	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, .	1.2	5
5	Temperature- and Nutrients-Induced Phenotypic Changes of Antarctic Green Snow Bacteria Probed by High-Throughput FTIR Spectroscopy. <i>Biology</i> , 2022, 11, 890.	1.3	7
6	A robust metabolomics approach for the evaluation of human embryos from <i>in vitro</i> fertilization. <i>Analyst</i> , The, 2021, 146, 6156-6169.	1.7	7
7	Infrared Fiber-Optic Spectroscopy Detects Bovine Articular Cartilage Degeneration. <i>Cartilage</i> , 2021, 13, 285S-294S.	1.4	10
8	Assessment of Biotechnologically Important Filamentous Fungal Biomass by Fourier Transform Raman Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6710.	1.8	13
9	Correcting replicate variation in spectroscopic data by machine learning and model-based pre-processing. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 215, 104350.	1.8	12
10	Exploring Dry-Film FTIR Spectroscopy to Characterize Milk Composition and Subclinical Ketosis throughout a Cow's Lactation. <i>Foods</i> , 2021, 10, 2033.	1.9	3
11	Extended multiplicative signal correction for FTIR spectral quality test and pre-processing of infrared imaging data. <i>Journal of Biophotonics</i> , 2020, 13, e201960112.	1.1	21
12	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.	1.5	19
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.	1.3	16
14	Deep convolutional neural network recovers pure absorbance spectra from highly scattered distorted spectra of cells. <i>Journal of Biophotonics</i> , 2020, 13, e202000204.	1.1	14
15	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.	1.7	31
16	Grayscale representation of infrared microscopy images by extended multiplicative signal correction for registration with histological images. <i>Journal of Biophotonics</i> , 2020, 13, e201960223.	1.1	8
17	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.	1.1	42
18	Discrimination of grass pollen of different species by FTIR spectroscopy of individual pollen grains. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6459-6474.	1.9	16

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19	Model-Based Pre-Processing in Vibrational Spectroscopy. , 2020, , 83-100.		5
20	Fourier transform infrared spectroscopy of milk samples as a tool to estimate energy balance, energy- and dry matter intake in lactating dairy cows. Journal of Dairy Research, 2020, 87, 436-443.	0.7	4
21	Title is missing!. , 2020, 15, e0234870.		0
22	Title is missing!. , 2020, 15, e0234870.		0
23	Title is missing!. , 2020, 15, e0234870.		0
24	Title is missing!. , 2020, 15, e0234870.		0
25	Biochemical profiling, prediction of total lipid content and fatty acid profile in oleaginous yeasts by FTIR spectroscopy. Biotechnology for Biofuels, 2019, 12, 140.	6.2	70
26	Combining Chemical Information From Grass Pollen in Multimodal Characterization. Frontiers in Plant Science, 2019, 10, 1788.	1.7	18
27	Unravelling genetic variation underlying de novo-synthesis of bovine milk fatty acids. Scientific Reports, 2018, 8, 2179.	1.6	34
28	Hierarchical classification of microorganisms based on high-dimensional phenotypic data. Journal of Biophotonics, 2018, 11, e201700047.	1.1	16
29	Piecewise synergetic systems and applications in biochemical systems theory. Georgian Mathematical Journal, 2017, 24, 135-148.	0.2	0
30	A high-throughput FTIR spectroscopy approach to assess adaptive variation in the chemical composition of pollen. Ecology and Evolution, 2017, 7, 10839-10849.	0.8	29
31	Microtiter plate cultivation of oleaginous fungi and monitoring of lipogenesis by high-throughput FTIR spectroscopy. Microbial Cell Factories, 2017, 16, 101.	1.9	62
32	Merging FT-IR and NGS for simultaneous phenotypic and genotypic identification of pathogenic Candida species. PLoS ONE, 2017, 12, e0188104.	1.1	31
33	Analysis of Allergenic Pollen by FTIR Microspectroscopy. Analytical Chemistry, 2016, 88, 803-811.	3.2	47
34	Convergence Properties of Piecewise Power Approximations. Applied Mathematics, 2016, 07, 1440-1445.	0.1	1
35	Global structure of sloppiness in a nonlinear model. Journal of Chemometrics, 2014, 28, 645-655.	0.7	12
36	Polynomial representations of piecewise-linear differential equations arising from gene regulatory networks. Nonlinear Analysis: Real World Applications, 2013, 14, 1732-1754.	0.9	3

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37	PLS-Based Multivariate Metamodeling of Dynamic Systems. Springer Proceedings in Mathematics and Statistics, 2013, , 3-30.	0.1	7
38	Power-Law Formalism in Gene Regulatory Networks. , 2011, , .		0