

Puneet Mishra

List of Publications by Year in descending order

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74
papers

2,142
citations

236612

25
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264894

42
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74
docs citations

74
times ranked

1279
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-output 1-dimensional convolutional neural networks for simultaneous prediction of different traits of fruit based on near-infrared spectroscopy. <i>Postharvest Biology and Technology</i> , 2022, 183, 111741.	2.9	31
2	Avocado dehydration negatively affects the performance of visible and near-infrared spectroscopy models for dry matter prediction. <i>Postharvest Biology and Technology</i> , 2022, 183, 111739.	2.9	7
3	All-in-one: A spectral imaging laboratory system for standardised automated image acquisition and real-time spectral model deployment. <i>Analytica Chimica Acta</i> , 2022, 1190, 339235.	2.6	11
4	Deep generative neural networks for spectral image processing. <i>Analytica Chimica Acta</i> , 2022, 1191, 339308.	2.6	1
5	Pre-processing ensembles with response oriented sequential alternation calibration (PROSAC): A step towards ending the pre-processing search and optimization quest for near-infrared spectral modelling. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 222, 104497.	1.8	11
6	Domain invariant covariate selection (Di-CovSel) for selecting generalized features across domains. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 222, 104499.	1.8	5
7	Improved understanding and prediction of pear fruit firmness with variation partitioning and sequential multi-block modelling. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 222, 104517.	1.8	4
8	High-throughput plant phenotyping: a role for metabolomics?. <i>Trends in Plant Science</i> , 2022, 27, 549-563.	4.3	44
9	Response oriented covariates selection (ROCS) for fast block order- and scale-independent variable selection in multi-block scenarios. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, , 104551.	1.8	3
10	A tutorial on automatic hyperparameter tuning of deep spectral modelling for regression and classification tasks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 223, 104520.	1.8	52
11	Combining deep learning with chemometrics when it is really needed: A case of real time object detection and spectral model application for spectral image processing. <i>Analytica Chimica Acta</i> , 2022, 1202, 339668.	2.6	11
12	A brief note on a new faster covariate's selection (fCovSel) algorithm. <i>Journal of Chemometrics</i> , 2022, 36, .	0.7	2
13	Swiss knife partial least squares (SKPLS): One tool for modelling single block, multiblock, multiway, multiway multiblock including multi-responses and meta information under the ROSA framework. <i>Analytica Chimica Acta</i> , 2022, 1206, 339786.	2.6	6
14	Complementary deep learning and chemometrics: A case of pear fruit centroid detection and spectral model application for fruit spectral image processing. <i>Postharvest Biology and Technology</i> , 2022, 192, 112013.	2.9	2
15	The canonical partial least squares approach to analysing multiway datasetsâ€”Nâ€™CPLS. <i>Journal of Chemometrics</i> , 2022, 36, .	0.7	6
16	META-PLS modelling: An integrated approach to automatic model optimization for near-infrared spectra. <i>Analytica Chimica Acta</i> , 2022, 1221, 340142.	2.6	3
17	Improved prediction of tablet properties with near-infrared spectroscopy by a fusion of scatter correction techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 192, 113684.	1.4	22
18	Improved prediction of fuel properties with near-infrared spectroscopy using a complementary sequential fusion of scatter correction techniques. <i>Talanta</i> , 2021, 223, 121693.	2.9	14

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19	Improving moisture and soluble solids content prediction in pear fruit using near-infrared spectroscopy with variable selection and model updating approach. <i>Postharvest Biology and Technology</i> , 2021, 171, 111348.	2.9	69
20	FRUITNIR-GUI: A graphical user interface for correcting external influences in multi-batch near infrared experiments related to fruit quality prediction. <i>Postharvest Biology and Technology</i> , 2021, 175, 111414.	2.9	8
21	Improved prediction of potassium and nitrogen in dried bell pepper leaves with visible and near-infrared spectroscopy utilising wavelength selection techniques. <i>Talanta</i> , 2021, 225, 121971.	2.9	19
22	Parallel pre-processing through orthogonalization (PORTO) and its application to near-infrared spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 212, 104190.	1.8	21
23	Identifying key wavenumbers that improve prediction of amylose in rice samples utilizing advanced wavenumber selection techniques. <i>Talanta</i> , 2021, 224, 121908.	2.9	18
24	Sequential fusion of information from two portable spectrometers for improved prediction of moisture and soluble solids content in pear fruit. <i>Talanta</i> , 2021, 223, 121733.	2.9	61
25	Improved prediction of minced pork meat chemical properties with near-infrared spectroscopy by a fusion of scatter-correction techniques. <i>Infrared Physics and Technology</i> , 2021, 113, 103643.	1.3	14
26	Improved prediction of protein content in wheat kernels with a fusion of scatter correction methods in NIR data modelling. <i>Biosystems Engineering</i> , 2021, 203, 93-97.	1.9	23
27	Recent trends in multi-block data analysis in chemometrics for multi-source data integration. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 137, 116206.	5.8	86
28	Realizing transfer learning for updating deep learning models of spectral data to be used in new scenarios. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 212, 104283.	1.8	37
29	A synergistic use of chemometrics and deep learning improved the predictive performance of near-infrared spectroscopy models for dry matter prediction in mango fruit. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 212, 104287.	1.8	62
30	Deep multiblock predictive modelling using parallel input convolutional neural networks. <i>Analytica Chimica Acta</i> , 2021, 1163, 338520.	2.6	14
31	Assessing firmness in mango comparing broadband and miniature spectrophotometers. <i>Infrared Physics and Technology</i> , 2021, 115, 103733.	1.3	13
32	A short note on achieving similar performance to deep learning with practical chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 214, 104336.	1.8	7
33	CT-GUI: A graphical user interface to perform calibration transfer for multivariate calibrations. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 214, 104338.	1.8	5
34	Complementary chemometrics and deep learning for semantic segmentation of tall and wide visible and near-infrared spectral images of plants. <i>Computers and Electronics in Agriculture</i> , 2021, 186, 106226.	3.7	15
35	Chemometric pre-processing can negatively affect the performance of near-infrared spectroscopy models for fruit quality prediction. <i>Talanta</i> , 2021, 229, 122303.	2.9	53
36	Deep chemometrics: Validation and transfer of a global deep near-infrared fruit model to use it on a new portable instrument. <i>Journal of Chemometrics</i> , 2021, 35, e3367.	0.7	21

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37	Identifying the best rice physical form for non-destructive prediction of protein content utilising near-infrared spectroscopy to support digital phenotyping. <i>Infrared Physics and Technology</i> , 2021, 116, 103757.	1.3	10
38	GAN meets chemometrics: Segmenting spectral images with pixel2pixel image translation with conditional generative adversarial networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 215, 104362.	1.8	10
39	An automated deep learning pipeline based on advanced optimisations for leveraging spectral classification modelling. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 215, 104354.	1.8	21
40	Deep calibration transfer: Transferring deep learning models between infrared spectroscopy instruments. <i>Infrared Physics and Technology</i> , 2021, 117, 103863.	1.3	27
41	A generic workflow combining deep learning and chemometrics for processing close-range spectral images to detect drought stress in <i>Arabidopsis thaliana</i> to support digital phenotyping. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 216, 104373.	1.8	9
42	A brief note on application of domain-invariant PLS for adapting near-infrared spectroscopy calibrations between different physical forms of samples. <i>Talanta</i> , 2021, 232, 122461.	2.9	14
43	Handling batch-to-batch variability in portable spectroscopy of fresh fruit with minimal parameter adjustment. <i>Analytica Chimica Acta</i> , 2021, 1177, 338771.	2.6	15
44	Translating near-infrared spectroscopy from laboratory to commercial slaughterhouse: Existing challenges and solutions. <i>Infrared Physics and Technology</i> , 2021, 119, 103918.	1.3	9
45	Are standard sample measurements still needed to transfer multivariate calibration models between near-infrared spectrometers? The answer is not always. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116331.	5.8	39
46	Assessing avocado firmness at different dehydration levels in a multi-sensor framework. <i>Infrared Physics and Technology</i> , 2021, 118, 103901.	1.3	5
47	Chemometric approaches for calibrating high-throughput spectral imaging setups to support digital plant phenotyping by calibrating and transferring spectral models from a point spectrometer. <i>Analytica Chimica Acta</i> , 2021, 1187, 339154.	2.6	7
48	Classifying green teas with near infrared hyperspectral imaging. <i>NIR News</i> , 2020, 31, 20-23.	1.6	2
49	MBA-GUI: A chemometric graphical user interface for multi-block data visualisation, regression, classification, variable selection and automated pre-processing. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 205, 104139.	1.8	36
50	Utilising variable sorting for normalisation to correct illumination effects in close-range spectral images of potato plants. <i>Biosystems Engineering</i> , 2020, 197, 318-323.	1.9	17
51	Improved prediction of 'Kent' mango firmness during ripening by near-infrared spectroscopy supported by interval partial least square regression. <i>Infrared Physics and Technology</i> , 2020, 110, 103459.	1.3	33
52	New data preprocessing trends based on ensemble of multiple preprocessing techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116045.	5.8	173
53	Partial least square regression versus domain invariant partial least square regression with application to near-infrared spectroscopy of fresh fruit. <i>Infrared Physics and Technology</i> , 2020, 111, 103547.	1.3	39
54	Two standard-free approaches to correct for external influences on near-infrared spectra to make models widely applicable. <i>Postharvest Biology and Technology</i> , 2020, 170, 111326.	2.9	36

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55	Close-range hyperspectral imaging of whole plants for digital phenotyping: Recent applications and illumination correction approaches. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105780.	3.7	67
56	Close Range Spectral Imaging for Disease Detection in Plants Using Autonomous Platforms: a Review on Recent Studies. <i>Current Robotics Reports</i> , 2020, 1, 43-48.	5.1	47
57	SPORT pre-processing can improve near-infrared quality prediction models for fresh fruits and agro-materials. <i>Postharvest Biology and Technology</i> , 2020, 168, 111271.	2.9	48
58	Non-destructive measurement of internal browning in mangoes using visible and near-infrared spectroscopy supported by artificial neural network analysis. <i>Postharvest Biology and Technology</i> , 2020, 166, 111206.	2.9	37
59	Fusing spectral and textural information in near-infrared hyperspectral imaging to improve green tea classification modelling. <i>Journal of Food Engineering</i> , 2019, 249, 40-47.	2.7	43
60	Homogenising and Segmenting Hyperspectral Images of Plants and Testing Chemicals in a High-Throughput Plant Phenotyping Setup. , 2019, , .		2
61	Rapid detection of grape syrup adulteration with an array of metal oxide sensors and chemometrics. <i>Engineering in Agriculture, Environment and Food</i> , 2019, 12, 351-359.	0.2	9
62	Early Detection Of Drought Stress in Arabidopsis Thaliana Utilising a Portable Hyperspectral Imaging Setup. , 2019, , .		8
63	Automatic de-noising of close-range hyperspectral images with a wavelength-specific shearlet-based image noise reduction method. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 1034-1044.	4.0	27
64	Temperature modulation of electronic nose combined with multi-class support vector machine classification for identifying export caraway cultivars. <i>Postharvest Biology and Technology</i> , 2018, 138, 134-139.	2.9	16
65	Monitoring oxidation changes in commercial extra virgin olive oils with fluorescence spectroscopy-based prototype. <i>European Food Research and Technology</i> , 2018, 244, 565-575.	1.6	26
66	Close-range hyperspectral image analysis for the early detection of stress responses in individual plants in a high-throughput phenotyping platform. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 138, 121-138.	4.9	111
67	Potential of two dielectric spectroscopy techniques and chemometric analyses for detection of adulteration in grape syrup. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 127, 518-524.	2.5	18
68	Near-infrared hyperspectral imaging for non-destructive classification of commercial tea products. <i>Journal of Food Engineering</i> , 2018, 238, 70-77.	2.7	65
69	Close range hyperspectral imaging of plants: A review. <i>Biosystems Engineering</i> , 2017, 164, 49-67.	1.9	197
70	Discrimination of peanuts from bulk cereals and nuts by near infrared reflectance spectroscopy. <i>Biosystems Engineering</i> , 2016, 151, 178-186.	1.9	19
71	Modeling effects of illumination and plant geometry on leaf reflectance spectra in close-range hyperspectral imaging. , 2016, , .		5
72	Application of independent components analysis with the JADE algorithm and NIR hyperspectral imaging for revealing food adulteration. <i>Journal of Food Engineering</i> , 2016, 168, 7-15.	2.7	61

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73	Detection and Quantification of Peanut Traces in Wheat Flour by near Infrared Hyperspectral Imaging Spectroscopy Using Principal-Component Analysis. Journal of Near Infrared Spectroscopy, 2015, 23, 15-22.	0.8	52
74	Hyperspectral to multispectral imaging for detection of tree nuts and peanut traces in wheat flour. Journal of Spectral Imaging, 0, , .	0.0	1