Achim Kohler

List of Publications by Year
in descending order

184	6,190	57719	95218
papers	citations	44 h-index	68 g-index

193	193	193	5824
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preprocessing Strategies for Sparse Infrared Spectroscopy: A Case Study on Cartilage Diagnostics. Molecules, 2022, 27, 873.	1.7	9
2	The Use of Constituent Spectra and Weighting in Extended Multiplicative Signal Correction in Infrared Spectroscopy. Molecules, 2022, 27, 1900.	1.7	6
3	Preclassification of Broadband and Sparse Infrared Data by Multiplicative Signal Correction Approach. Molecules, 2022, 27, 2298.	1.7	1
4	Infrared spectroscopy is suitable for objective assessment of articular cartilage health. Osteoarthritis and Cartilage Open, 2022, 4, 100250.	0.9	2
5	Genetic variants associated with two major bovine milk fatty acids offer opportunities to breed for altered milk fat composition. Genetics Selection Evolution, 2022, 54, .	1.2	5
6	Temperature- and Nutrients-Induced Phenotypic Changes of Antarctic Green Snow Bacteria Probed by High-Throughput FTIR Spectroscopy. Biology, 2022, 11, 890.	1.3	7
7	An exact ray model for oblique incident light on planar films. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114374.	1.3	1
8	A robust metabolomics approach for the evaluation of human embryos fromin vitrofertilization. Analyst, The, 2021, 146, 6156-6169.	1.7	7
9	Animal Fat as a Substrate for Production of n-6 Fatty Acids by Fungal Solid-State Fermentation. Microorganisms, 2021, 9, 170.	1.6	9
10	The effect of deformation of absorbing scatterers on Mie-type signatures in infrared microspectroscopy. Scientific Reports, 2021, 11, 4675.	1.6	11
11	Infrared Fiber-Optic Spectroscopy Detects Bovine Articular Cartilage Degeneration. Cartilage, 2021, 13, 285S-294S.	1.4	10
12	Evaluation and optimisation of direct transesterification methods for the assessment of lipid accumulation in oleaginous filamentous fungi. Microbial Cell Factories, 2021, 20, 59.	1.9	18
13	Calcium Affects Polyphosphate and Lipid Accumulation in Mucoromycota Fungi. Journal of Fungi (Basel, Switzerland), 2021, 7, 300.	1.5	16
14	Oleaginous yeasts respond differently to carbon sources present in lignocellulose hydrolysate. Biotechnology for Biofuels, 2021, 14, 124.	6.2	37
15	Wave chaos enhanced light trapping in optically thin solar cells. Chaos, 2021, 31, 063136.	1.0	0
16	Investigation of resonance structures in optically thin solar cells. Journal of Photonics for Energy, 2021, 11, .	0.8	1
17	Assessment of Biotechnologically Important Filamentous Fungal Biomass by Fourier Transform Raman Spectroscopy. International Journal of Molecular Sciences, 2021, 22, 6710.	1.8	13
18	Correcting replicate variation in spectroscopic data by machine learning and model-based pre-processing. Chemometrics and Intelligent Laboratory Systems, 2021, 215, 104350.	1.8	12

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19	Exploring Dry-Film FTIR Spectroscopy to Characterize Milk Composition and Subclinical Ketosis throughout a Cowâ€™s Lactation. Foods, 2021, 10, 2033.	1.9	3
20	Comparison of augmentation and pre-processing for deep learning and chemometric classification of infrared spectra. Chemometrics and Intelligent Laboratory Systems, 2021, 215, 104367.	1.8	35
21	An automated approach for fringe frequency estimation and removal in infrared spectroscopy and hyperspectral imaging of biological samples. Journal of Biophotonics, 2021, 14, e202100148.	1.1	3
22	Starch Rich Chlorella vulgaris: High-Throughput Screening and Up-Scale for Tailored Biomass Production. Applied Sciences (Switzerland), 2021, 11, 9025.	1.3	9
23	Isolation and characterization of fastâ€growing green snow bacteria from coastal East Antarctica. MicrobiologyOpen, 2021, 10, e1152.	1.2	15
24	Submerged Fermentation of Animal Fat By-Products by Oleaginous Filamentous Fungi for the Production of Unsaturated Single Cell Oil. Fermentation, 2021, 7, 300.	1.4	4
25	Extended multiplicative signal correction for FTIR spectral quality test and preâ€processing of infrared imaging data. Journal of Biophotonics, 2020, 13, e201960112.	1.1	21
26	Analysis of Megavariate Data in Functional Omics. , 2020, , 515-567.		2
27	Metal and Phosphate Ions Show Remarkable Influence on the Biomass Production and Lipid Accumulation in Oleaginous Mucor circinelloides. Journal of Fungi (Basel, Switzerland), 2020, 6, 260.	1.5	19
28	Obesity-Related Metabolome and Gut Microbiota Profiles of Juvenile GÃ¶ttingen Minipigsâ€”Long-Term Intake of Fructose and Resistant Starch. Metabolites, 2020, 10, 456.	1.3	16
29	Revealing the Potential of Lipid and Î²-Glucans Coproduction in Basidiomycetes Yeast. Microorganisms, 2020, 8, 1034.	1.6	20
30	Biotransformation of Animal Fat-By Products into ARA-Enriched Fermented Bioproducts by Solid-State Fermentation of Mortierella alpina. Journal of Fungi (Basel, Switzerland), 2020, 6, 236.	1.5	18
31	Deep convolutional neural network recovers pure absorbance spectra from highly scatterâ€distorted spectra of cells. Journal of Biophotonics, 2020, 13, e202000204.	1.1	14
32	The influence of phosphorus source and the nature of nitrogen substrate on the biomass production and lipid accumulation in oleaginous Mucoromycota fungi. Applied Microbiology and Biotechnology, 2020, 104, 8065-8076.	1.7	31
33	Grayscale representation of infrared microscopy images by extended multiplicative signal correction for registration with histological images. Journal of Biophotonics, 2020, 13, e201960223.	1.1	8
34	Microcultivation and FTIR spectroscopy-based screening revealed a nutrient-induced co-production of high-value metabolites in oleaginous Mucoromycota fungi. PLoS ONE, 2020, 15, e0234870.	1.1	42
35	Discrimination of grass pollen of different species by FTIR spectroscopy of individual pollen grains. Analytical and Bioanalytical Chemistry, 2020, 412, 6459-6474.	1.9	16
36	Origin of micro-scale heterogeneity in polymerisation of photo-activated resin composites. Nature Communications, 2020, 11, 1849.	5.8	18

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37	Model-Based Pre-Processing in Vibrational Spectroscopy. , 2020, , 83-100.		5
38	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
39	Does chaotic scattering affect the extinction efficiency in quasi-spherical scatterers?. , 2020, , .		2
40	Title is missing!. , 2020, 15, e0234870.		0
41	Title is missing!. , 2020, 15, e0234870.		0
42	Title is missing!. , 2020, 15, e0234870.		0
43	Title is missing!. , 2020, 15, e0234870.		0
44	A Laboratory-Built Fully Automated Ultrasonication Robot for Filamentous Fungi Homogenization. SLAS Technology, 2019, 24, 583-595.	1.0	9
45	Chaos: A new mechanism for enhancing the optical generation rate in optically thin solar cells. Chaos, 2019, 29, 093132.	1.0	5
46	Green solvent extraction of microbial lipids. Journal of Biotechnology, 2019, 305, S15-S16.	1.9	0
47	A Fully Automated Robot for the Preparation of Fungal Samples for FTIR Spectroscopy Using Deep Learning. IEEE Access, 2019, 7, 132763-132774.	2.6	12
48	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
49	The use of Fourierâ€transform infrared spectroscopy to characterize connective tissue components in skeletal muscle of Atlantic cod (Gadus morhua L.). Journal of Biophotonics, 2019, 12, e201800436.	1.1	29
50	Extracting pure absorbance spectra in infrared microspectroscopy by modeling absorption bands as Fano resonances. Journal of Chemical Physics, 2019, 150, 154124.	1.2	6
51	An openâ€source code for Mie extinction extended multiplicative signal correction for infrared microscopy spectra of cells and tissues. Journal of Biophotonics, 2019, 12, e201800415.	1.1	28
52	Exact ray theory for the calculation of the optical generation rate in optically thin solar cells. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 105, 125-138.	1.3	7
53	Combining Chemical Information From Grass Pollen in Multimodal Characterization. Frontiers in Plant Science, 2019, 10, 1788.	1.7	18
54	Chaos: a new mechanism for enhancing the optical generation rate in optically thin solar cells. , 2019, , .		0

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55	Optimized solar cells based on changes in resonance structure as a function of the refractive index and the thickness. , 2019, , .		1
56	Assessment of the scalability of a microtiter plate system for screening of oleaginous microorganisms. Applied Microbiology and Biotechnology, 2018, 102, 4915-4925.	1.7	27
57	Unravelling genetic variation underlying de novo-synthesis of bovine milk fatty acids. Scientific Reports, 2018, 8, 2179.	1.6	34
58	High-throughput screening of Mucoromycota fungi for production of low- and high-value lipids. Biotechnology for Biofuels, 2018, 11, 66.	6.2	60
59	Hierarchical classification of microorganisms based on highâ€dimensional phenotypic data. Journal of Biophotonics, 2018, 11, e201700047.	1.1	16
60	An improved algorithm for fast resonant Mie scatter correction of infrared spectra of cells and tissues. Journal of Biophotonics, 2018, 11, e201600307.	1.1	23
61	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS) shows adaptation of grass pollen composition. Scientific Reports, 2018, 8, 16591.	1.6	9
62	Estimating and correcting interference fringes in infrared spectra in infrared hyperspectral imaging. Analyst, The, 2018, 143, 4674-4683.	1.7	14
63	Extended Multiplicative Signal Correction Based Model Transfer for Raman Spectroscopy in Biological Applications. Analytical Chemistry, 2018, 90, 9787-9795.	3.2	32
64	Observation of Mie ripples in the synchrotron Fourier transform infrared spectra of spheroidal pollen grains. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1769.	0.8	12
65	A highâ€throughput FTIR spectroscopy approach to assess adaptive variation in the chemical composition of pollen. Ecology and Evolution, 2017, 7, 10839-10849.	0.8	29
66	Genome-wide association mapping for milk fat composition and fine mapping of a QTL for de novo synthesis of milk fatty acids on bovine chromosome 13. Genetics Selection Evolution, 2017, 49, 20.	1.2	16
67	Microtiter plate cultivation of oleaginous fungi and monitoring of lipogenesis by high-throughput FTIR spectroscopy. Microbial Cell Factories, 2017, 16, 101.	1.9	62
68	A novel library-independent approach based on high-throughput cultivation in Bioscreen and fingerprinting by FTIR spectroscopy for microbial source tracking in food industry. Letters in Applied Microbiology, 2017, 64, 335-342.	1.0	16
69	Monitoring of plantâ€“environment interactions by highâ€throughput <scp>FTIR</scp> spectroscopy of pollen. Methods in Ecology and Evolution, 2017, 8, 870-880.	2.2	42
70	FTIR spectroscopy as a unified method for simultaneous analysis of intra- and extracellular metabolites in high-throughput screening of microbial bioprocesses. Microbial Cell Factories, 2017, 16, 195.	1.9	52
71	FTIR Spectroscopy for Evaluation and Monitoring of Lipid Extraction Efficiency for Oleaginous Fungi. PLoS ONE, 2017, 12, e0170611.	1.1	118
72	Merging FT-IR and NGS for simultaneous phenotypic and genotypic identification of pathogenic Candida species. PLoS ONE, 2017, 12, e0188104.	1.1	31

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73	Mie scatter corrections in single cell infrared microspectroscopy. Faraday Discussions, 2016, 187, 235-257.	1.6	40
74	Infrared refractive index dispersion of polymethyl methacrylate spheres from Mie ripples in Fourier-transform infrared microscopy extinction spectra. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1687.	0.8	23
75	Modelâ€based preâ€processing in Raman spectroscopy of biological samples. Journal of Raman Spectroscopy, 2016, 47, 643-650.	1.2	98
76	The PBMC transcriptome profile after intake of oxidized versus high-quality fish oil: an explorative study in healthy subjects. Genes and Nutrition, 2016, 11, 16.	1.2	10
77	Spectral Pathology: general discussion. Faraday Discussions, 2016, 187, 155-186.	1.6	5
78	Single cell analysis/data handling: general discussion. Faraday Discussions, 2016, 187, 299-327.	1.6	4
79	Analysis of Allergenic Pollen by FTIR Microspectroscopy. Analytical Chemistry, 2016, 88, 803-811.	3.2	47
80	A Modular Liquid Sample Handling Robot for High-Throughput Fourier Transform Infrared Spectroscopy. Mechanisms and Machine Science, 2016, , 769-778.	0.3	8
81	High-Throughput Biochemical Fingerprinting of Saccharomyces cerevisiae by Fourier Transform Infrared Spectroscopy. PLoS ONE, 2015, 10, e0118052.	1.1	38
82	Characterizing Aeroallergens by Infrared Spectroscopy of Fungal Spores and Pollen. PLoS ONE, 2015, 10, e0124240.	1.1	40
83	A Multiscale Vibrational Spectroscopic Approach for Identification and Biochemical Characterization of Pollen. PLoS ONE, 2015, 10, e0137899.	1.1	63
84	Sparse multi-block PLSR for biomarker discovery when integrating data from LCâ€“MS and NMR metabolomics. Metabolomics, 2015, 11, 367-379.	1.4	27
85	Whole Grain Consumption Increases Gastrointestinal Content of Sulfate-Conjugated Oxylipins in Pigs â^’ A Multicompartmental Metabolomics Study. Journal of Proteome Research, 2015, 14, 3095-3110.	1.8	7
86	The relationship between fatty acid profiles in milk identified by Fourier transform infrared spectroscopy and onset of luteal activity in Norwegian dairy cattle. Journal of Dairy Science, 2015, 98, 5374-5384.	1.4	11
87	Fringes in FTIR spectroscopy revisited: understanding and modelling fringes in infrared spectroscopy of thin films. Analyst, The, 2015, 140, 3969-3980.	1.7	25
88	Vibrational microspectroscopy enables chemical characterization of single pollen grains as well as comparative analysis of plant species based on pollen ultrastructure. Planta, 2015, 242, 1237-1250.	1.6	49
89	Recovery of absorbance spectra of micrometer-sized biological and inanimate particles. Analyst, The, 2015, 140, 3273-3284.	1.7	25
90	Soft Texture of Atlantic Salmon Fillets Is Associated with Glycogen Accumulation. PLoS ONE, 2014, 9, e85551.	1.1	44

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91	Infrared Spectroscopy of Pollen Identifies Plant Species and Genus as Well as Environmental Conditions. PLoS ONE, 2014, 9, e95417.	1.1	83
92	Fourier transform infrared spectroscopy for the prediction of fatty acid profiles in Mucor fungi grown in media with different carbon sources. Microbial Cell Factories, 2014, 13, 86.	1.9	63
93	Fish oil supplementation induces expression of genes related to cell cycle, endoplasmic reticulum stress and apoptosis in peripheral blood mononuclear cells: a transcriptomic approach. Journal of Internal Medicine, 2014, 276, 498-511.	2.7	33
94	Multivariate analysis of multiblock and multigroup data. Chemometrics and Intelligent Laboratory Systems, 2014, 133, 63-69.	1.8	22
95	Algorithms for multiâ€group PLS. Journal of Chemometrics, 2014, 28, 192-201.	0.7	12
96	Hot PLSâ€”a framework for hierarchically ordered taxonomic classification by partial least squares. Chemometrics and Intelligent Laboratory Systems, 2014, 138, 41-47.	1.8	15
97	Towards models for the prediction of beef meat quality during cooking. Meat Science, 2014, 97, 323-331.	2.7	43
98	FTIR spectroscopic characterization of differently cultivated food related yeasts. Analyst, The, 2013, 138, 4129.	1.7	18
99	Comparison of Sparse and Jack-knife partial least squares regression methods for variable selection. Chemometrics and Intelligent Laboratory Systems, 2013, 122, 65-77.	1.8	27
100	Genetic and environmental information in goat milk Fourier transform infrared spectra. Journal of Dairy Science, 2013, 96, 3973-3985.	1.4	15
101	Deflation strategies for multi-block principal component analysis revisited. Chemometrics and Intelligent Laboratory Systems, 2013, 120, 154-168.	1.8	18
102	Characterising protein, salt and water interactions with combined vibrational spectroscopic techniques. Food Chemistry, 2013, 138, 679-686.	4.2	26
103	Characterizing salt substitution in beef meat processing by vibrational spectroscopy and sensory analysis. Meat Science, 2013, 95, 576-585.	2.7	17
104	Characterization of food spoilage fungi by FTIR spectroscopy. Journal of Applied Microbiology, 2013, 114, 788-796.	1.4	64
105	FTIR Imaging for Structural Analysis of Frankfurter Sausages Subjected to Salt Reduction and Salt Substitution. Journal of Agricultural and Food Chemistry, 2013, 61, 3219-3228.	2.4	6
106	Extrusion of Barley and Oat Improves the Bioaccessibility of Dietary Phenolic Acids in Growing Pigs. Journal of Agricultural and Food Chemistry, 2013, 61, 2739-2747.	2.4	38
107	Highâ€throughput FTIR spectroscopy of intact HepG2 cells reveals additive and nonâ€additive effects of individual fatty acids when given as mixtures. Journal of Biophotonics, 2013, 6, 446-456.	1.1	3
108	Optimizing Savitzkyâ€“Golay Parameters for Improving Spectral Resolution and Quantification in Infrared Spectroscopy. Applied Spectroscopy, 2013, 67, 892-902.	1.2	186

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109	PLS-Based Multivariate Metamodeling of Dynamic Systems. Springer Proceedings in Mathematics and Statistics, 2013, , 3-30.	0.1	7
110	Multi-group PLS Regression: Application to Epidemiology. Springer Proceedings in Mathematics and Statistics, 2013, , 243-255.	0.1	4
111	Small leucine-rich proteoglycans in the vertebrae of Atlantic salmon Salmo salar. Diseases of Aquatic Organisms, 2013, 106, 57-68.	0.5	3
112	Model validation and error estimation in multi-block partial least squares regression. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 42-53.	1.8	13
113	Extended multiplicative signal correction in vibrational spectroscopy, a tutorial. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 92-99.	1.8	174
114	Pre-processing. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 55.	1.8	0
115	Degrees of freedom estimation in Principal Component Analysis and Consensus Principal Component Analysis. Chemometrics and Intelligent Laboratory Systems, 2012, 118, 246-259.	1.8	11
116	FTIR microscopy of biological cells and tissue: data analysis using resonant Mie scattering (RMieS) EMSC algorithm. Analyst, The, 2012, 137, 1370.	1.7	117
117	Fish Oil Supplementation Alters the Plasma Lipidomic Profile and Increases Long-Chain PUFAs of Phospholipids and Triglycerides in Healthy Subjects. PLoS ONE, 2012, 7, e42550.	1.1	63
118	Monitoring cellular responses upon fatty acid exposure by Fourier transform infrared spectroscopy and Raman spectroscopy. Analyst, The, 2011, 136, 1649.	1.7	29
119	Monitoring Protein Structural Changes and Hydration in Bovine Meat Tissue Due to Salt Substitutes by Fourier Transform Infrared (FTIR) Microspectroscopy. Journal of Agricultural and Food Chemistry, 2011, 59, 10052-10061.	2.4	73
120	The use of spectroscopic measurements from full scale industrial production to achieve stable end product quality. LWT - Food Science and Technology, 2011, 44, 2266-2272.	2.5	3
121	Connections between multiple co-inertia analysis and consensus principal component analysis. Chemometrics and Intelligent Laboratory Systems, 2011, 106, 37-40.	1.8	18
122	Physiological and Structural Differences Between Enterococcus faecalis JH2-2 and Mutant Strains Resistant to (P)-Divercin RV41. Probiotics and Antimicrobial Proteins, 2010, 2, 226-232.	1.9	3
123	A highâ€throughput microcultivation protocol for FTIR spectroscopic characterization and identification of fungi. Journal of Biophotonics, 2010, 3, 512-521.	1.1	56
124	RMieSâ€EMSC correction for infrared spectra of biological cells: Extension using full Mie theory and GPU computing. Journal of Biophotonics, 2010, 3, 609-620.	1.1	116
125	Shedding new light on Hierarchical Principal Component Analysis. Journal of Chemometrics, 2010, 24, 703-709.	0.7	26
126	Analysis of -omics data: Graphical interpretation- and validation tools in multi-block methods. Chemometrics and Intelligent Laboratory Systems, 2010, 104, 140-153.	1.8	42

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127	Synchrotron-based FTIR spectra of stained single cells. Towards a clinical application in pathology. Laboratory Investigation, 2010, 90, 797-807.	1.7	46
128	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. Spectroscopy, 2010, 24, 73-78.	0.8	8
129	Resonant Mie Scattering (RMieS) correction of infrared spectra from highly scattering biological samples. Analyst, The, 2010, 135, 268-277.	1.7	332
130	FTIR spectroscopic discrimination of Saccharomyces cerevisiae and Saccharomyces bayanus strains. Canadian Journal of Microbiology, 2010, 56, 793-801.	0.8	19
131	Predicting the Fatty Acid Composition of Milk: A Comparison of Two Fourier Transform Infrared Sampling Techniques. Applied Spectroscopy, 2010, 64, 700-707.	1.2	42
132	Caprine CSN1S1 haplotype effect on gene expression and milk composition measured by Fourier transform infrared spectroscopy. Journal of Dairy Science, 2010, 93, 4340-4350.	1.4	15
133	Mathematics and Measurements for High-throughput Quantitative Biology. Biological Theory, 2009, 4, 29-43.	0.8	9
134	Complex Phenotypic and Genotypic Responses of Listeria monocytogenes Strains Exposed to the Class IIa Bacteriocin Sakacin P. Applied and Environmental Microbiology, 2009, 75, 6973-6980.	1.4	53
135	Noncontact Salt and Fat Distributional Analysis in Salted and Smoked Salmon Fillets Using X-ray Computed Tomography and NIR Interactance Imaging. Journal of Agricultural and Food Chemistry, 2009, 57, 1705-1710.	2.4	58
136	Monitoring Secondary Structural Changes in Salted and Smoked Salmon Muscle Myofiber Proteins by FT-IR Microspectroscopy. Journal of Agricultural and Food Chemistry, 2009, 57, 3563-3570.	2.4	41
137	Reducing Inter-Replicate Variation in Fourier Transform Infrared Spectroscopy by Extended Multiplicative Signal Correction. Applied Spectroscopy, 2009, 63, 296-305.	1.2	38
138	Standard Normal Variate, Multiplicative Signal Correction and Extended Multiplicative Signal Correction Preprocessing in Biospectroscopy. , 2009, , 139-162.		16
139	Global responses ofEscherichia colito adverse conditions determined by microarrays and FT-IR spectroscopy. Canadian Journal of Microbiology, 2009, 55, 714-728.	0.8	44
140	Analysis of Megavariate Data in Functional Genomics. , 2009, , 221-278.		12
141	Spectroscopic signatures of single, isolated cancer cell nuclei using synchrotron infrared microscopy. Analyst, The, 2009, 134, 1176.	1.7	48
142	FT-IR microspectroscopy: a promising method for the rapid identification ofListeriaspecies. FEMS Microbiology Letters, 2008, 278, 164-170.	0.7	43
143	Characterizing mixed microbial population dynamics using time-series analysis. ISME Journal, 2008, 2, 707-715.	4.4	37
144	Determination of Sodium Chloride in Pork Meat by Computed Tomography at Different Voltages. Journal of Food Science, 2008, 73, E333-9.	1.5	23

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145	Estimating and Correcting Mie Scattering in Synchrotron-Based Microscopic Fourier Transform Infrared Spectra by Extended Multiplicative Signal Correction. Applied Spectroscopy, 2008, 62, 259-266.	1.2	158
146	Effects of Brine Salting with Regard to Raw Material Variation of Atlantic Salmon (<i>Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T Agricultural and Food Chemistry, 2008, 56, 5129-5137.	2.4	41
147	Revealing Covariance Structures in Fourier Transform Infrared and Raman Microspectroscopy Spectra: A Study on Pork Muscle Fiber Tissue Subjected to Different Processing Parameters. Applied Spectroscopy, 2007, 61, 1032-1039.	1.2	83
148	Myowater Dynamics and Protein Secondary Structural Changes As Affected by Heating Rate in Three Pork Qualities:Â A Combined FT-IR Microspectroscopic and1H NMR Relaxometry Study. Journal of Agricultural and Food Chemistry, 2007, 55, 3990-3997.	2.4	49
149	Multivariate image analysis of a set of FTIR microspectroscopy images of aged bovine muscle tissue combining image and design information. Analytical and Bioanalytical Chemistry, 2007, 389, 1143-1153.	1.9	57
150	Salt-Induced Changes in Pork Myofibrillar Tissue Investigated by FT-IR Microspectroscopy and Light Microscopy. Journal of Agricultural and Food Chemistry, 2006, 54, 6733-6740.	2.4	65
151	Heat-Induced Changes in Myofibrillar Protein Structures and Myowater of Two Pork Qualities. A Combined FT-IR Spectroscopy and Low-Field NMR Relaxometry Study. Journal of Agricultural and Food Chemistry, 2006, 54, 1740-1746.	2.4	130
152	Influence of Aging and Salting on Protein Secondary Structures and Water Distribution in Uncooked and Cooked Pork. A Combined FT-IR Microspectroscopy and 1H NMR Relaxometry Study. Journal of Agricultural and Food Chemistry, 2006, 54, 8589-8597.	2.4	98
153	Physics-Based Multiplicative Scatter Correction Approaches for Improving the Performance of Calibration Models. Applied Spectroscopy, 2006, 60, 315-321.	1.2	50
154	Correcting Attenuated Total Reflectionâ€"Fourier Transform Infrared Spectra for Water Vapor and Carbon Dioxide. Applied Spectroscopy, 2006, 60, 1029-1039.	1.2	70
155	Analysis of covariance patterns in gene expression data and FT-IR spectra. Journal of Microbiological Methods, 2006, 65, 573-584.	0.7	28
156	FT-IR microspectroscopy for early identification of some clinically relevant pathogens. Journal of Applied Microbiology, 2006, 101, 785-797.	1.4	42
157	Microstructure and sensory properties of high pressure processed dressings stabilized by different whey proteins. Food Hydrocolloids, 2006, 20, 650-662.	5.6	15
158	Pre-processing in biochemometrics: correction for path-length and temperature effects of water in FTIR bio-spectroscopy by EMSC. Journal of Chemometrics, 2006, 20, 402-417.	0.7	43
159	Application of PLS-DA in multivariate image analysis. Journal of Chemometrics, 2006, 20, 221-229.	0.7	136
160	Fourier Transform Infrared and Raman Spectroscopy for Characterization of Listeria monocytogenes Strains. Applied and Environmental Microbiology, 2006, 72, 228-232.	1.4	79
161	FT-IR microspectroscopy as a tool to assess lung cancer cells response to chemotherapy. Vibrational Spectroscopy, 2005, 38, 179-184.	1.2	45
162	Explorative Multifactor Approach for Investigating Global Survival Mechanisms of Campylobacter jejuni under Environmental Conditions. Applied and Environmental Microbiology, 2005, 71, 2086-2094.	1.4	83

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163	Extended Multiplicative Signal Correction as a Tool for Separation and Characterization of Physical and Chemical Information in Fourier Transform Infrared Microscopy Images of Cryo-Sections of Beef Loin. Applied Spectroscopy, 2005, 59, 707-716.	1.2	142
164	Determination of C22:5 and C22:6 marine fatty acids in pork fat with Fourier transform mid-infrared spectroscopy. Meat Science, 2005, 69, 433-440.	2.7	42
165	Sensory qualities of whole wheat pan breadâ€"influence of farming system, milling and baking technique. Journal of Cereal Science, 2004, 39, 67-84.	1.8	116
166	Evaluation of the robustness of FT-IR spectra of lactobacilli towards changes in the bacterial growth conditions. FEMS Microbiology Letters, 2004, 239, 111-116.	0.7	28
167	Prediction of oxygen transmission rate for thermoformed trays. Packaging Technology and Science, 2004, 17, 321-332.	1.3	5
168	Monitoring of Denaturation Processes in Aged Beef Loin by Fourier Transform Infrared Microspectroscopy. Journal of Agricultural and Food Chemistry, 2004, 52, 3920-3929.	2.4	76
169	FT-IR spectroscopy for identification of closely related lactobacilli. Journal of Microbiological Methods, 2004, 59, 149-162.	0.7	97
170	Identification of fat, protein matrix, and water/starch on microscopy images of sausages by a principal component analysisâ€based segmentation scheme. Scanning, 2003, 25, 109-115.	0.7	2
171	Sorting salted cod fillets by computer vision: a pilot study. Computers and Electronics in Agriculture, 2002, 36, 3-16.	3.7	18
172	Predicting changes in oxygen concentration in the headspace of nitrogen flushed packages by the ambient oxygen ingress rate method. Packaging Technology and Science, 2002, 15, 139-146.	1.3	12
173	Parametric correlations of the energy levels of ray-splitting billiards. Physical Review E, 2001, 64, 036211.	0.8	47
174	Image analysis of particle dispersions in microscopy images of cryoâ€sectioned sausages. Scanning, 2001, 23, 165-174.	0.7	6
175	Ambient oxygen ingress rate method?an alternative method to Ox-Tran for measuring oxygen transmission rate of whole packages. Packaging Technology and Science, 2000, 13, 233-241.	1.3	46
176	Autocorrelation function of level velocities for ray-splitting billiards. Physical Review E, 2000, 61, 366-370.	0.8	30
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