Francis L Martin

List of Publications by Year
in descending order

315 papers	14,141 citations	25014 57 h-index	30058 103 g-index
325 all docs	325 docs citations	325 times ranked	15150 citing authors

#	Article	IF	Citations
1	Using Fourier transform IR spectroscopy to analyze biological materials. Nature Protocols, 2014, 9, 1771-1791.	5.5	1,385
2	Using Raman spectroscopy to characterize biological materials. Nature Protocols, 2016, 11, 664-687.	5.5	833
3	Exposure of Electronics Dismantling Workers to Polybrominated Diphenyl Ethers, Polychlorinated Biphenyls, and Organochlorine Pesticides in South China. Environmental Science & Technology, 2007, 41, 5647-5653.	4.6	328
4	Distinguishing cell types or populations based on the computational analysis of their infrared spectra. Nature Protocols, 2010, 5, 1748-1760.	5.5	294
5	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. Carcinogenesis, 2015, 36, S254-S296.	1.3	239
6	Diversity of TMPRSS2-ERG fusion transcripts in the human prostate. Oncogene, 2007, 26, 2667-2673.	2.6	223
7	Carcinogens and DNA damage. Biochemical Society Transactions, 2018, 46, 1213-1224.	1.6	203
8	Different Levels of Polybrominated Diphenyl Ethers (PBDEs) and Chlorinated Compounds in Breast Milk from Two U.K. Regions. Environmental Health Perspectives, 2004, 112, 1085-1091.	2.8	198
9	Extracting biological information with computational analysis of Fourier-transform infrared (FTIR) biospectroscopy datasets: current practices to future perspectives. Analyst, The, 2012, 137, 3202.	1.7	197
10	Fourier-transform infrared spectroscopy coupled with a classification machine for the analysis of blood plasma or serum: a novel diagnostic approach for ovarian cancer. Analyst, The, 2013, 138, 3917.	1.7	186
11	Tutorial: multivariate classification for vibrational spectroscopy in biological samples. Nature Protocols, 2020, 15, 2143-2162.	5.5	181
12	A strategy for designing inhibitors of α‐synuclein aggregation and toxicity as a novel treatment for Parkinson's disease and related disorders. FASEB Journal, 2004, 18, 1315-1317.	0.2	165
13	Biospectroscopy to metabolically profile biomolecular structure: a multistage approach linking computational analysis with biomarkers. Journal of Proteome Research, 2011, 10, 1437-1448.	1.8	163
14	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. Analyst, The, 2018, 143, 1735-1757.	1.7	163
15	Risk assessment of environmental mixture effects. RSC Advances, 2016, 6, 47844-47857.	1.7	148
16	Diagnostic segregation of human brain tumours using Fourier-transform infrared and/or Raman spectroscopy coupled with discriminant analysis. Analytical Methods, 2013, 5, 89-102.	1.3	140
17	IRootLab: a free and open-source MATLAB toolbox for vibrational biospectroscopy data analysis. Bioinformatics, 2013, 29, 1095-1097.	1.8	140
18	Understanding and Harnessing the Health Effects of Rapid Urbanization in China. Environmental Science & Technology, 2011, 45, 5099-5104.	4.6	139

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19	Differences in the carcinogenic evaluation of glyphosate between the International Agency for Research on Cancer (IARC) and the European Food Safety Authority (EFSA). Journal of Epidemiology and Community Health, 2016, 70, 741-745.	2.0	138
20	Vibrational spectroscopy of biofluids for disease screening or diagnosis: translation from the laboratory to a clinical setting. Journal of Biophotonics, 2014, 7, 153-165.	1.1	130
21	Infrared Spectroscopy with Multivariate Analysis Potentially Facilitates the Segregation of Different Types of Prostate Cell. Biophysical Journal, 2006, 90, 3783-3795.	0.2	129
22	IR microspectroscopy: potential applications in cervical cancer screening. Cancer Letters, 2007, 246, 1-11.	3.2	128
23	Differential diagnosis of Alzheimer's disease using spectrochemical analysis of blood. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7929-E7938.	3.3	125
24	SOX9 Elevation in the Prostate Promotes Proliferation and Cooperates with *PTEN* Loss to Drive Tumor Formation. Cancer Research, 2010, 70, 979-987.	0.4	119
25	Metabolic activation of carcinogens and expression of various cytochromes P450 in human prostate tissue. Carcinogenesis, 2000, 21, 1683-1689.	1.3	118
26	Chemical measures of bioavailability/bioaccessibility of PAHs in soil: Fundamentals to application. Journal of Hazardous Materials, 2013, 261, 687-700.	6.5	114
27	Identifying Variables Responsible for Clustering in Discriminant Analysis of Data from Infrared Microspectroscopy of a Biological Sample. Journal of Computational Biology, 2007, 14, 1176-1184.	0.8	111
28	CYP1B1 and hormone-induced cancer. Cancer Letters, 2012, 324, 13-30.	3.2	109
29	Occupational Exposure to Polycyclic Aromatic Hydrocarbons and Elevated Cancer Incidence in Firefighters. Scientific Reports, 2018, 8, 2476.	1.6	109
30	Fourier Transform Infrared Microspectroscopy Identifies Symmetric PO_2^- Modifications as a Marker of the Putative Stem Cell Region of Human Intestinal Crypts. Stem Cells, 2008, 26, 108-118.	1.4	105
31	Short and medium chain length chlorinated paraffins in UK human milk fat. Environment International, 2006, 32, 34-40.	4.8	104
32	Aluminium foil as a potential substrate for ATR-FTIR, transflection FTIR or Raman spectrochemical analysis of biological specimens. Analytical Methods, 2016, 8, 481-487.	1.3	99
33	Standardization of complex biologically derived spectrochemical datasets. Nature Protocols, 2019, 14, 1546-1577.	5.5	96
34	Heterocyclic aromatic amines induce DNA strand breaks and cell transformation. Carcinogenesis, 1999, 20, 545-551.	1.3	95
35	Oestrogen receptor splice variants in the pathogenesis of disease. Cancer Letters, 2010, 288, 133-148.	3.2	95
36	γ‐Synuclein and the progression of cancer. FASEB Journal, 2007, 21, 3419-3430.	0.2	94

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37	Metabolic reprogramming and dysregulated metabolism: cause, consequence and/or enabler of environmental carcinogenesis?. Carcinogenesis, 2015, 36, S203-S231.	1.3	93
38	Ultrarapid On-Site Detection of SARS-CoV-2 Infection Using Simple ATR-FTIR Spectroscopy and an Analysis Algorithm: High Sensitivity and Specificity. Analytical Chemistry, 2021, 93, 2950-2958.	3.2	92
39	ATR-FTIR spectroscopy coupled with chemometric analysis discriminates normal, borderline and malignant ovarian tissue: classifying subtypes of human cancer. Analyst, The, 2016, 141, 585-594.	1.7	88
40	Vibrational biospectroscopy coupled with multivariate analysis extracts potentially diagnostic features in blood plasma/serum of ovarian cancer patients. Journal of Biophotonics, 2014, 7, 200-209.	1.1	81
41	Genotoxic effects of oestrogens in breast cells detected by the micronucleus assay and the Comet assay. Mutagenesis, 2002, 17, 345-352.	1.0	79
42	Cell transformation assays for prediction of carcinogenic potential: state of the science and future research needs. Mutagenesis, 2012, 27, 93-101.	1.0	78
43	The DNA repair inhibitors hydroxyurea and cytosine arabinoside enhance the sensitivity of the alkaline single-cell gel electrophoresis (`comet') assay in metabolically-competent MCL-5 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1999, 445, 21-43.	0.9	73
44	Low dose induction of micronuclei by lindane. Carcinogenesis, 2003, 25, 613-622.	1.3	72
45	Improving data splitting for classification applications in spectrochemical analyses employing a random-mutation Kennard-Stone algorithm approach. Bioinformatics, 2019, 35, 5257-5263.	1.8	72
46	ATR microspectroscopy with multivariate analysis segregates grades of exfoliative cervical cytology. Biochemical and Biophysical Research Communications, 2007, 352, 213-219.	1.0	71
47	Monitoring Cell Cycle Distributions in MCF-7 Cells Using Near-Field Photothermal Microspectroscopy. Biophysical Journal, 2005, 88, 3699-3706.	0.2	70
48	The initiation of breast and prostate cancer. Carcinogenesis, 2002, 23, 1095-1102.	1.3	69
49	Perfluorooctanoic acid induces apoptosis through the p53-dependent mitochondrial pathway in human hepatic cells: A proteomic study. Toxicology Letters, 2013, 223, 211-220.	0.4	67
50	Functional Single-Cell Approach to Probing Nitrogen-Fixing Bacteria in Soil Communities by Resonance Raman Spectroscopy with $^{15}N_2$ Labeling. Analytical Chemistry, 2018, 90, 5082-5089.	3.2	67
51	Quantification of phase I/II metabolizing enzyme gene expression and polycyclic aromatic hydrocarbon–DNA adduct levels in human prostate. Prostate, 2009, 69, 505-519.	1.2	66
52	Application of vibrational spectroscopy techniques to non-destructively monitor plant health and development. Analytical Methods, 2015, 7, 4059-4070.	1.3	63
53	Comparison of Paracetamol-Induced Hepatotoxicity in the Rat in vivo with Progression of Cell Injury in Vitro in Rat Liver Slices. Drug and Chemical Toxicology, 1998, 21, 477-494.	1.2	62
54	Raman Spectroscopy to Diagnose Alzheimer's Disease and Dementia with Lewy Bodies in Blood. ACS Chemical Neuroscience, 2018, 9, 2786-2794.	1.7	62

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55	Low-dose treatment with polybrominated diphenyl ethers (PBDEs) induce altered characteristics in MCF-7 cells. Mutagenesis, 2006, 21, 351-360.	1.0	61
56	Binary Mixture Effects by PBDE Congeners (47, 153, 183, or 209) and PCB Congeners (126 or 153) in MCF-7 Cells: Biochemical Alterations Assessed by IR Spectroscopy and Multivariate Analysis. Environmental Science & Technology, 2010, 44, 3992-3998.	4.6	61
57	Tracking the cell hierarchy in the human intestine using biochemical signatures derived by mid-infrared microspectroscopy. Stem Cell Research, 2009, 3, 15-27.	0.3	60
58	A potential paradox in prostate adenocarcinoma progression: Oestrogen as the initiating driver. European Journal of Cancer, 2008, 44, 928-936.	1.3	59
59	Combining Immunolabeling and Surface-Enhanced Raman Spectroscopy on Cell Membranes. ACS Nano, 2011, 5, 9535-9541.	7.3	59
60	Concentration-dependent effects of carbon nanoparticles in gram-negative bacteria determined by infrared spectroscopy with multivariate analysis. Environmental Pollution, 2012, 163, 226-234.	3.7	59
61	4-Nonylphenol induces autophagy and attenuates mTOR-p70S6K/4EBP1 signaling by modulating AMPK activation in Sertoli cells. Toxicology Letters, 2017, 267, 21-31.	0.4	59
62	Potential of mid-infrared spectroscopy as a non-invasive diagnostic test in urine for endometrial or ovarian cancer. Analyst, The, 2018, 143, 3156-3163.	1.7	59
63	Segregation of human prostate tissues classified high-risk (UK) versus low-risk (India) for adenocarcinoma using Fourier-transform infrared or Raman microspectroscopy coupled with discriminant analysis. Analytical and Bioanalytical Chemistry, 2011, 401, 969-982.	1.9	58
64	Interactions of multiwalled carbon nanotubes with algal cells: Quantification of association, visualization of uptake, and measurement of alterations in the composition of cells. Environmental Pollution, 2015, 196, 431-439.	3.7	58
65	Low-dose carbon-based nanoparticle-induced effects in A549 lung cells determined by biospectroscopy are associated with increases in genomic methylation. Scientific Reports, 2016, 6, 20207.	1.6	58
66	Lycopene inhibits DNA synthesis in primary prostate epithelial cells in vitro and its administration is associated with a reduced prostate-specific antigen velocity in a phase II clinical study. Prostate Cancer and Prostatic Diseases, 2006, 9, 407-413.	2.0	57
67	CYP1B1 expression in prostate is higher in the peripheral than in the transition zone. Cancer Letters, 2004, 215, 69-78.	3.2	55
68	Association of DNA Methylation and Mitochondrial DNA Copy Number with Human Semen Quality1. Biology of Reproduction, 2014, 91, 101.	1.2	55
69	Selenite-Induced Toxicity in Cancer Cells Is Mediated by Metabolic Generation of Endogenous Selenium Nanoparticles. Journal of Proteome Research, 2015, 14, 1127-1136.	1.8	54
70	Increased exposure to pesticides and colon cancer: Early evidence in Brazil. Chemosphere, 2018, 209, 623-631.	4.2	54
71	Characterization of Putative Stem Cell Populations in the Cornea Using Synchrotron Infrared Microspectroscopy. , 2006, 47, 2417.		53
72	Metabolomic Analysis Reveals a Unique Urinary Pattern in Normozoospermic Infertile Men. Journal of Proteome Research, 2014, 13, 3088-3099.	1.8	53

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73	Perfluorooctanoic acid induces gene promoter hypermethylation of glutathione-S-transferase Pi in human liver L02 cells. Toxicology, 2012, 296, 48-55.	2.0	52
74	Real-world carbon nanoparticle exposures induce brain and gonadal alterations in zebrafish (Danio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	52
75	Surface-Enhanced Raman Spectroscopy for Identification of Heavy Metal Arsenic(V)-Mediated Enhancing Effect on Antibiotic Resistance. Analytical Chemistry, 2016, 88, 3164-3170.	3.2	50
76	Raman spectroscopic techniques to detect ovarian cancer biomarkers in blood plasma. Talanta, 2018, 189, 281-288.	2.9	50
77	Ras-MEK-ERK signaling cascade regulates androgen receptor element-inducible gene transcription and DNA synthesis in prostate cancer cells. International Journal of Cancer, 2007, 121, 520-527.	2.3	49
78	Syrian hamster embryo (SHE) assay (pH 6.7) coupled with infrared spectroscopy and chemometrics towards toxicological assessment. Analyst, The, 2010, 135, 3266.	1.7	49
79	High contrast images of uterine tissue derived using Raman microspectroscopy with the empty modelling approach of multivariate curve resolution-alternating least squares. Analyst, The, 2011, 136, 4950.	1.7	49
80	Infrared spectroscopy with multivariate analysis to interrogate endometrial tissue: a novel and objective diagnostic approach. British Journal of Cancer, 2011, 104, 790-797.	2.9	49
81	Urinary metabolome identifies signatures of oligozoospermic infertile men. Fertility and Sterility, 2014, 102, 44-53.e12.	0.5	49
82	Tamoxifen: Important considerations of a multi-functional compound with organ-specific properties. Cancer Treatment Reviews, 2007, 33, 91-100.	3.4	47
83	Derivation by Infrared Spectroscopy with Multivariate Analysis of Bimodal Contaminant-Induced Dose-Response Effects in MCF-7 Cells. Environmental Science & Technology, 2011, 45, 6129-6135.	4.6	45
84	Segregation of ovarian cancer stage exploiting spectral biomarkers derived from blood plasma or serum analysis: <scp>ATR–FTIR</scp> spectroscopy coupled with variable selection methods. Biotechnology Progress, 2015, 31, 832-839.	1.3	45
85	DNA damage in breast epithelial cells: detection by the single-cell gel (comet) assay and induction by human mammary lipid extracts. Carcinogenesis, 1997, 18, 2299-2305.	1.3	44
86	Discrimination of zone-specific spectral signatures in normal human prostate using Raman spectroscopy. Analyst, The, 2010, 135, 3060.	1.7	44
87	4-Nonylphenol induces disruption of spermatogenesis associated with oxidative stress-related apoptosis by targeting p53-Bcl-2/Bax-Fas/FasL signaling. Environmental Toxicology, 2017, 32, 739-753.	2.1	44
88	Effects of Aberrant Pax6 Gene Dosage on Mouse Corneal Pathophysiology and Corneal Epithelial Homeostasis. PLoS ONE, 2011, 6, e28895.	1.1	44
89	Selenium- or quercetin-induced retardation of DNA synthesis in primary prostate cells occurs in the presence of a concomitant reduction in androgen-receptor activity. Cancer Letters, 2006, 239, 111-122.	3.2	43
90	Effects of 4-nonylphenol on spermatogenesis and induction of testicular apoptosis through oxidative stress-related pathways. Reproductive Toxicology, 2016, 62, 27-38.	1.3	43

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91	FTIR Microspectroscopy Coupled with Two-Class Discrimination Segregates Markers Responsible for Inter- and Intra-Category Variance in Exfoliative Cervical Cytology. Biomarker Insights, 2008, 3, BMI.S592.	1.0	42
92	Dose-Related Alterations of Carbon Nanoparticles in Mammalian Cells Detected Using Biospectroscopy: Potential for Real-World Effects. Environmental Science & Technology, 2013, 47, 10005-10011.	4.6	42
93	Histology Verification Demonstrates That Biospectroscopy Analysis of Cervical Cytology Identifies Underlying Disease More Accurately than Conventional Screening: Removing the Confounder of Discordance. PLoS ONE, 2014, 9, e82416.	1.1	42
94	Urinary Metabolic Biomarkers Link Oxidative Stress Indicators Associated with General Arsenic Exposure to Male Infertility In a Han Chinese Population. Environmental Science & Technology, 2013, 47, 130722083038001.	4.6	40
95	Determination of developmental and ripening stages of whole tomato fruit using portable infrared spectroscopy and Chemometrics. BMC Plant Biology, 2019, 19, 236.	1.6	40
96	A biomarker model of sublethal genotoxicity (DNA single-strand breaks and adducts) using the sentinel organism Aporrectodea longa in spiked soil. Environmental Pollution, 2005, 138, 307-315.	3.7	39
97	Polybrominated Diphenyl Ether-Associated Alterations in Cell Biochemistry as Determined by Attenuated Total Reflection Fourier-Transform Infrared Spectroscopy: a Comparison with DNA-Reactive and/or Endocrine-Disrupting Agents. Environmental Science & Technology, 2009, 43, 3356-3364.	4.6	39
98	Primary cultures of prostate cells and their ability to activate carcinogens. Prostate Cancer and Prostatic Diseases, 2002, 5, 96-104.	2.0	38
99	ATR-FTIR spectroscopy non-destructively detects damage-induced sour rot infection in whole tomato fruit. Planta, 2019, 249, 925-939.	1.6	38
100	Fe(II)-induced DNA damage in Î±-synuclein-transfected human dopaminergic BE(2)-M17 neuroblastoma cells: detection by the Comet assay. Journal of Neurochemistry, 2003, 87, 620-630.	2.1	37
101	Interrogating chemical variation via layer-by-layer SERS during biofouling and cleaning of nanofiltration membranes with further investigations into cleaning efficiency. Water Research, 2015, 87, 282-291.	5.3	37
102	Constitutive expression of bioactivating enzymes in normal human prostate suggests a capability to activate proâ€carcinogens to DNAâ€damaging metabolites. Prostate, 2010, 70, 1586-1599.	1.2	35
103	Characterisation of DNA methylation status using spectroscopy (midâ€IR <i>versus</i> Raman) with multivariate analysis. Journal of Biophotonics, 2011, 4, 345-354.	1.1	35
104	Biospectroscopy insights into the multi-stage process of cervical cancer development: probing for spectral biomarkers in cytology to distinguish grades. Analyst, The, 2013, 138, 3909.	1.7	35
105	Measurement of ZnO Nanoparticles Using Diffusive Gradients in Thin Films: Binding and Diffusional Characteristics. Analytical Chemistry, 2014, 86, 5906-5913.	3.2	35
106	Phthalates Induce Androgenic Effects at Exposure Levels That Can Be Environmentally Relevant in Humans. Environmental Science and Technology Letters, 2018, 5, 232-236.	3.9	35
107	Derivation of a subtype-specific biochemical signature of endometrial carcinoma using synchrotron-based Fourier-transform infrared microspectroscopy. Cancer Letters, 2009, 274, 208-217.	3.2	34
108	Exposure to arsenic via drinking water induces 5-hydroxymethylcytosine alteration in rat. Science of the Total Environment, 2014, 497-498, 618-625.	3.9	34

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109	Attenuated total reflection Fourier-transform infrared spectral discrimination in human bodily fluids of oesophageal transformation to adenocarcinoma. Analyst, The, 2019, 144, 7447-7456.	1.7	34
110	Evidence for a stem-cell lineage in corneal squamous cell carcinoma using synchrotron-based Fourier-transform infrared microspectroscopy and multivariate analysis. Analyst, The, 2010, 135, 3120.	1.7	33
111	Genotoxicity of human mammary lipid. Cancer Research, 1996, 56, 5342-6.	0.4	33
112	The influence of dietary and environmental factors on prostate cancer risk. Prostate Cancer and Prostatic Diseases, 2000, 3, 256-258.	2.0	32
113	Fourier-transform infrared spectroscopy discriminates a spectral signature of endometriosis independent of inter-individual variation. Analyst, The, 2011, 136, 2047.	1.7	32
114	Sublethal genotoxicity and cell alterations by organophosphorus pesticides in MCFâ€7 cells: Implications for environmentally relevant concentrations. Environmental Toxicology and Chemistry, 2011, 30, 632-639.	2.2	32
115	Detecting Endometrial Cancer by Blood Spectroscopy: A Diagnostic Cross-Sectional Study. Cancers, 2020, 12, 1256.	1.7	32
116	Diagnostic Biomarkers for Alzheimerâ€™s Disease Using Non-Invasive Specimens. Journal of Clinical Medicine, 2020, 9, 1673.	1.0	32
117	Discrimination of Base Differences in Oligonucleotides Using Mid-Infrared Spectroscopy and Multivariate Analysis. Analytical Chemistry, 2009, 81, 5314-5319.	3.2	31
118	The evolving role of MUC16 (CA125) in the transformation of ovarian cells and the progression of neoplasia. Carcinogenesis, 2021, 42, 327-343.	1.3	31
119	Microspectroscopy of spectral biomarkers associated with human corneal stem cells. Molecular Vision, 2010, 16, 359-68.	1.1	31
120	Robust classification of low-grade cervical cytology following analysis with ATR-FTIR spectroscopy and subsequent application of self-learning classifier eClass. Analytical and Bioanalytical Chemistry, 2010, 398, 2191-2201.	1.9	30
121	Gold nanoparticles as a substrate in bio-analytical near-infrared surface-enhanced Raman spectroscopy. Analyst, The, 2015, 140, 3090-3097.	1.7	30
122	Fingerprinting microbiomes towards screening for microbial antibiotic resistance. Integrative Biology (United Kingdom), 2017, 9, 406-417.	0.6	30
123	Infrared Spectroscopy Coupled with a Dispersion Model for Quantifying the Real-Time Dynamics of Kanamycin Resistance in Artificial Microbiota. Analytical Chemistry, 2017, 89, 9814-9821.	3.2	30
124	Raman spectroscopy as a potential diagnostic tool to analyse biochemical alterations in lung cancer. Analyst, The, 2020, 145, 385-392.	1.7	30
125	ATR-FTIR spectroscopy in blood plasma combined with multivariate analysis to detect HIV infection in pregnant women. Scientific Reports, 2020, 10, 20156.	1.6	29
126	Enhanced Micronucleus Formation and Modulation of Bcl-2:Bax in MCF-7 Cells after Exposure to Binary Mixtures. Environmental Health Perspectives, 2007, 115, 129-136.	2.8	28

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127	Direct identification and visualisation of real-world contaminating microplastics using Raman spectral mapping with multivariate curve resolution-alternating least squares. Journal of Hazardous Materials, 2022, 422, 126892.	6.5	28
128	Activation of genotoxins to DNA-damaging species in exfoliated breast milk cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2000, 470, 115-124.	0.9	27
129	Growth kinetics in MCF-7 cells modulate benzo[a]pyrene-induced CYP1A1 up-regulation. Mutagenesis, 2007, 22, 111-116.	1.0	27
130	Elevated expression of CYP1A1 and Â-SYNUCLEIN in human ectopic (ovarian) endometriosis compared with eutopic endometrium. Molecular Human Reproduction, 2008, 14, 655-663.	1.3	27
131	Discrimination of a transformation phenotype in Syrian golden hamster embryo (SHE) cells using ATR-FTIR spectroscopy. Toxicology, 2009, 258, 33-38.	2.0	27
132	Alterations in the infrared spectral signature of avian feathers reflect potential chemical exposure: A pilot study comparing two sites in Pakistan. Environment International, 2012, 48, 39-46.	4.8	27
133	Association of environmental benzo[a]pyrene exposure and DNA methylation alterations in hepatocellular carcinoma: A Chinese caseâ€"control study. Science of the Total Environment, 2016, 541, 1243-1252.	3.9	27
134	α-Synuclein and the Pathogenesis of Parkinsons Disease. Protein and Peptide Letters, 2004, 11, 229-237.	0.4	27
135	Adenosine triphosphate (ATP) levels in paracetamol-induced cell injury in the rat in vivo and in vitro. Toxicology, 1995, 104, 91-97.	2.0	26
136	Isolating stem cells in the inter-follicular epidermis employing synchrotron radiation-based Fourier-transform infrared microspectroscopy and focal plane array imaging. Analytical and Bioanalytical Chemistry, 2012, 404, 1745-1758.	1.9	26
137	Blood-based near-infrared spectroscopy for the rapid low-cost detection of Alzheimer's disease. Analyst, The, 2018, 143, 5959-5964.	1.7	26
138	Uncertainty estimation and misclassification probability for classification models based on discriminant analysis and support vector machines. Analytica Chimica Acta, 2019, 1063, 40-46.	2.6	26
139	Classification of cervical cytology for human papilloma virus (HPV) infection using biospectroscopy and variable selection techniques. Analytical Methods, 2014, 6, 9643-9652.	1.3	25
140	Quantification of Chemotaxis-Related Alkane Accumulation in <i>Acinetobacter baylyi</i> Using Raman Microspectroscopy. Analytical Chemistry, 2017, 89, 3909-3918.	3.2	25
141	Detection of ovarian cancer (± neo-adjuvant chemotherapy effects) via ATR-FTIR spectroscopy: comparative analysis of blood and urine biofluids in a large patient cohort. Analytical and Bioanalytical Chemistry, 2021, 413, 5095-5107.	1.9	25
142	Characterization of human corneal stem cells by synchrotron infrared micro-spectroscopy. Molecular Vision, 2007, 13, 237-42.	1.1	25
143	A spectral phenotype of oncogenic human papillomavirus-infected exfoliative cervical cytology distinguishes women based on age. Clinica Chimica Acta, 2010, 411, 1027-1033.	0.5	24
144	Shining a new light into molecular workings. Nature Methods, 2011, 8, 385-387.	9.0	24

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145	Measuring similarity and improving stability in biomarker identification methods applied to Fourier-transform infrared (FTIR) spectroscopy. Journal of Biophotonics, 2014, 7, 254-265.	1.1	24
146	Carbon nanomaterials in clean and contaminated soils: environmental implications and applications. Soil, 2015, 1, 1-21.	2.2	24
147	Perfluoroalkylated Substance Effects in *Xenopus laevis* A6 Kidney Epithelial Cells Determined by ATR-FTIR Spectroscopy and Chemometric Analysis. Chemical Research in Toxicology, 2016, 29, 924-932.	1.7	24
148	Complex mixtures that may contain mutagenic and/or genotoxic components: a need to assess in vivo target-site effect(s) associated with in vitro-positive(s). Chemosphere, 2007, 69, 841-848.	4.2	23
149	Targeted Cornea Limbal Stem/Progenitor Cell Transfection in an Organ Culture Model. , 2008, 49, 3395.		23
150	Mechanistic insights into nanotoxicity determined by synchrotron radiation-based Fourier-transform infrared imaging and multivariate analysis. Environment International, 2012, 50, 56-65.	4.8	23
151	Phthalate side-chain structures and hydrolysis metabolism associated with steroidogenic effects in MLTC-1 Leydig cells. Toxicology Letters, 2019, 308, 56-64.	0.4	23
152	Diet-sourced carbon-based nanoparticles induce lipid alterations in tissues of zebrafish (*Danio*) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	22
153	Progress and Challenges in the Diagnosis of Dementia: A Critical Review. ACS Chemical Neuroscience, 2018, 9, 446-461.	1.7	22
154	Synchrotron- and focal plane array-based Fourier-transform infrared spectroscopy differentiates the basalis and functionalis epithelial endometrial regions and identifies putative stem cell regions of human endometrial glands. Analytical and Bioanalytical Chemistry, 2018, 410, 4541-4554.	1.9	22
155	A three-dimensional principal component analysis approach for exploratory analysis of hyperspectral data: identification of ovarian cancer samples based on Raman microspectroscopy imaging of blood plasma. Analyst, The, 2019, 144, 2312-2319.	1.7	22
156	Infrared microspectroscopy identifies biomolecular changes associated with chronic oxidative stress in mammary epithelium and stroma of breast tissues from healthy young women. Cancer Biology and Therapy, 2014, 15, 225-235.	1.5	21
157	Spectrochemical analysis of sycamore (Acer pseudoplatanus) leaves for environmental health monitoring. Analyst, The, 2016, 141, 2896-2903.	1.7	21
158	Subtle effects of environmental stress observed in the early life stages of the Common frog, Rana temporaria. Scientific Reports, 2017, 7, 44438.	1.6	21
159	Quantifiable mRNA transcripts for tamoxifen-metabolising enzymes in human endometrium. Toxicology, 2008, 249, 85-90.	2.0	20
160	Sub-cellular spectrochemical imaging of isolated human corneal cells employing synchrotron radiation-based Fourier-transform infrared microspectroscopy. Analyst, The, 2013, 138, 240-248.	1.7	20
161	Exploiting biospectroscopy as a novel screening tool for cervical cancer: towards a framework to validate its accuracy in a routine clinical setting. Bioanalysis, 2013, 5, 2697-2711.	0.6	20
162	Biospectroscopy reveals the effect of varying water quality on tadpole tissues of the common frog (Rana temporaria). Environmental Pollution, 2016, 213, 322-337.	3.7	20

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163	Genotoxins and the initiation of sporadic breast cancer. Mutagenesis, 2001, 16, 155-161.	1.0	19
164	Differential Effects in Mammalian Cells Induced by Chemical Mixtures in Environmental Biota As Profiled Using Infrared Spectroscopy. Environmental Science & Technology, 2011, 45, 10706-10712.	4.6	19
165	Surface-Enhanced Raman Spectroscopy of the Endothelial Cell Membrane. PLoS ONE, 2014, 9, e106283.	1.1	19
166	MGMT promoter hypermethylation and K-RAS, PTEN and TP53 mutations in tamoxifen-exposed and non-exposed endometrial cancer cases. British Journal of Cancer, 2014, 110, 2874-2880.	2.9	19
167	Fourierâ€transform infrared spectroscopy as a novel approach to providing effectâ€based endpoints in duckweed toxicity testing. Environmental Toxicology and Chemistry, 2017, 36, 346-353.	2.2	19
168	Detecting nutrient deficiency in plant systems using synchrotron Fourier-transform infrared microspectroscopy. Vibrational Spectroscopy, 2017, 90, 46-55.	1.2	19
169	Ex Vivo Raman Spectrochemical Analysis Using a Handheld Probe Demonstrates High Predictive Capability of Brain Tumour Status. Biosensors, 2019, 9, 49.	2.3	19
170	Raman spectral discrimination in human liquid biopsies of oesophageal transformation to adenocarcinoma. Journal of Biophotonics, 2020, 13, e201960132.	1.1	19
171	Paper Spray Ionization Mass Spectrometry as a Potential Tool for Early Diagnosis of Cervical Cancer. Journal of the American Society for Mass Spectrometry, 2020, 31, 1665-1672.	1.2	19
172	Inter-individual Differences in the Ability of Human Milk-Fat Extracts To Enhance the Genotoxic Potential of the Procarcinogen Benzo[a]pyrene in MCF-7 Breast Cells. Environmental Science & Technology, 2004, 38, 3614-3622.	4.6	18
173	Differential gene expression in the peripheral zone compared to the transition zone of the human prostate gland. Prostate Cancer and Prostatic Diseases, 2008, 11, 173-180.	2.0	18
174	Dynamic modeling of Î±-synuclein aggregation in dopaminergic neuronal system indicates points of neuroprotective intervention: experimental validation with implications for Parkinson's therapy. Neuroscience, 2011, 199, 303-317.	1.1	18
175	Identification of benzo[a]pyrene-induced cell cycle-associated alterations in MCF-7 cells using infrared spectroscopy with computational analysis. Toxicology, 2012, 298, 24-29.	2.0	18
176	Evaluation of ATR-FTIR Spectroscopy with Multivariate Analysis to Study the Binding Mechanisms of ZnO Nanoparticles or Zn^{2+} to Chelex-100 or Metsorb. Environmental Science & Technology, 2013, 47, 11115-11121.	4.6	18
177	Towards a non-animal risk assessment for anti-androgenic effects in humans. Environment International, 2015, 83, 94-106.	4.8	18
178	A Perspective Discussion on Rising Pesticide Levels and Colon Cancer Burden in Brazil. Frontiers in Public Health, 2017, 5, 273.	1.3	18
179	Spectrochemical analyses of growth phase-related bacterial responses to low (environmentally-relevant) concentrations of tetracycline and nanoparticulate silver. Analyst, The, 2018, 143, 768-776.	1.7	18
180	Determination of meningioma brain tumour grades using Raman microspectroscopy imaging. Analyst, The, 2019, 144, 7024-7031.	1.7	18

#	Article	IF	Citations
181	A comparative analysis of different biofluids towards ovarian cancer diagnosis using Raman microspectroscopy. Analytical and Bioanalytical Chemistry, 2021, 413, 911-922.	1.9	18
182	Oestrogens induce G1 arrest in benzo[a]pyrene-treated MCF-7 breast cells whilst enhancing genotoxicity and clonogenic survival. Mutagenesis, 2002, 17, 431-438.	1.0	17
183	Infrared spectroscopy with multivariate analysis segregates low-grade cervical cytology based on likelihood to regress, remain static or progress. Analytical Methods, 2014, 6, 4576-4584.	1.3	17
184	Extracting biomarkers of commitment to cancer development: potential role of vibrational spectroscopy in systems biology. Expert Review of Molecular Diagnostics, 2015, 15, 693-713.	1.5	17
185	Imaging cervical cytology with scanning near-field optical microscopy (SNOM) coupled with an IR-FEL. Scientific Reports, 2016, 6, 29494.	1.6	17
186	4-Nonylphenol effects on rat testis and sertoli cells determined by spectrochemical techniques coupled with chemometric analysis. Chemosphere, 2019, 218, 64-75.	4.2	17
187	Spectrochemical differentiation of meningioma tumours based on attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy. Analytical and Bioanalytical Chemistry, 2020, 412, 1077-1086.	1.9	17
188	Gene-environment interactions between GSTs polymorphisms and targeted epigenetic alterations in hepatocellular carcinoma following organochlorine pesticides (OCPs) exposure. Environment International, 2020, 134, 105313.	4.8	17
189	Spectrochemical analysis in blood plasma combined with subsequent chemometrics for fibromyalgia detection. Scientific Reports, 2020, 10, 11769.	1.6	17
190	Genotoxicity of Human Milk Extracts and Detection of DNA Damage in Exfoliated Cells Recovered from Breast Milk. Biochemical and Biophysical Research Communications, 1999, 257, 319-326.	1.0	16
191	DNA damage in human breast milk cells and its induction by Âearly and Âlate milk extracts. Carcinogenesis, 2000, 21, 799-804.	1.3	16
192	Infrared Spectral Analysis of MCF-7 Cells Treated with Serum-Lipid Extracts Segregates Predominantly Brominated Flame Retardant-Exposed Subjects from Those with Mainly Organochlorine Exposures. Environmental Science & Technology, 2007, 41, 5915-5922.	4.6	16
193	Quantified gene expression levels for phase I/II metabolizing enzyme and estrogen receptor levels in benign prostate from cohorts designated as high-risk (UK) versus low-risk (India) for adenocarcinoma at this organ site: a preliminary study. Asian Journal of Andrology, 2010, 12, 203-214.	0.8	16
194	Corneal epithelialisation on surface-modified hydrogel implants. Journal of Materials Science: Materials in Medicine, 2011, 22, 663-670.	1.7	16
195	A biospectroscopic interrogation of fine needle aspirates points towards segregation between graded categories: an initial study towards diagnostic screening. Analytical and Bioanalytical Chemistry, 2011, 401, 957-967.	1.9	16
196	Epigenetic Influences in the Aetiology of Cancers Arising from Breast and Prostate: A Hypothesised Transgenerational Evolution in Chromatin Accessibility. ISRN Oncology, 2013, 2013, 1-13.	2.1	16
197	Diagnose Pathogens in Drinking Water via Magnetic Surface-Enhanced Raman Scattering (SERS) Assay. Materials Today: Proceedings, 2017, 4, 25-31.	0.9	16
198	Aluminium foil as an alternative substrate for the spectroscopic interrogation of endometrial cancer. Journal of Biophotonics, 2018, 11, e201700372.	1.1	16

#	Article	IF	Citations
199	Biphasic effects of perfluorooctanoic acid on steroidogenesis in mouse Leydig tumour cells. Reproductive Toxicology, 2019, 83, 54-62.	1.3	16
200	Mutagens in human breast lipid and milk: the search for environmental agents that initiate breast cancer. Environmental and Molecular Mutagenesis, 2002, 39, 143-149.	0.9	15
201	Risk of prostate cancer after detection of isolated high-grade prostatic intraepithelial neoplasia (HGPIN) on extended core needle biopsy: a UK hospital experience. BMC Urology, 2009, 9, 3.	0.6	15
202	Mid-infrared spectroscopic assessment of nanotoxicity in Gram-negative vs. Gram-positive bacteria. Analyst, The, 2014, 139, 896-905.	1.7	15
203	A biospectroscopic analysis of human prostate tissue obtained from different time periods points to a trans-generational alteration in spectral phenotype. Scientific Reports, 2015, 5, 13465.	1.6	15
204	Linking biochemical perturbations in tissues of the African catfish to the presence of polycyclic aromatic hydrocarbons in Ovia River, Niger Delta region. Environmental Pollution, 2015, 201, 42-49.	3.7	15
205	Levels of Organochlorine Pesticides Are Associated with Amyloid Aggregation in Apex Avian Brains. Environmental Science & Technology, 2017, 51, 8672-8681.	4.6	15
206	ATR-FTIR Spectroscopy Tools for Medical Diagnosis and Disease Investigation. , 2018, , 163-211.		15
207	New approach to investigate Common Variable Immunodeficiency patients using spectrochemical analysis of blood. Scientific Reports, 2019, 9, 7239.	1.6	15
208	Spectrochemical analysis of liquid biopsy harnessed to multivariate analysis towards breast cancer screening. Scientific Reports, 2020, 10, 12818.	1.6	15
209	Applying Raman Microspectroscopy to Evaluate the Effects of Nutrient Cations on Alkane Bioavailability to <i>Acinetobacter baylyi</i> ADP1. Environmental Science & Technology, 2020, 54, 15800-15810.	4.6	15
210	Genotoxicity of human breast milk from different countries. Mutagenesis, 2001, 16, 401-406.	1.0	14
211	An observational study of cancers among female partners of UK-resident prostate cancer patients. Cancer Letters, 2006, 242, 88-94.	3.2	14
212	ATR-FTIR spectroscopy detects alterations induced by organotin(IV) carboxylates in MCF-7 cells at sub-cytotoxic/-genotoxic concentrations. PMC Biophysics, 2008, 1, 3.	2.2	14
213	Association of <i>CYP1B1</i> Polymorphisms with Breast Cancer: A Case-Control Study in the Han Population in Ningxia Hui Autonomous Region, P. R. China. Biomarker Insights, 2010, 5, BMI.S4094.	1.0	14
214	The Unusual History and the Urological Applications of Botulinum Neurotoxin. Urologia Internationalis, 2010, 85, 125-130.	0.6	14
215	Novel biospectroscopy sensor technologies towards environmental health monitoring in urban environments. Environmental Pollution, 2013, 183, 46-53.	3.7	14
216	Bimodal responses of cells to trace elements: Insights into their mechanism of action using a biospectroscopy approach. Chemosphere, 2014, 112, 377-384.	4.2	14

#	Article	IF	Citations
217	Noninvasive Diagnostic for COVID-19 from Saliva Biofluid via FTIR Spectroscopy and Multivariate Analysis. Analytical Chemistry, 2022, 94, 2425-2433.	3.2	14
218	Novel sensor technologies towards environmental health monitoring in urban environments: A case study in the Niger Delta (Nigeria). Environmental Pollution, 2014, 192, 222-231.	3.7	13
219	ATR-FTIR spectroscopy reveals polycyclic aromatic hydrocarbon contamination despite relatively pristine site characteristics: Results of a field study in the Niger Delta. Environment International, 2016, 89-90, 93-101.	4.8	13
220	Biochemical alterations in duckweed and algae induced by carrier solvents: Selection of an appropriate solvent in toxicity testing. Environmental Toxicology and Chemistry, 2017, 36, 2631-2639.	2.2	13
221	Spectral classification for diagnosis involving numerous pathologies in a complex clinical setting: A neuro-oncology example. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 89-96.	2.0	13
222	Phenotyping Metastatic Brain Tumors Applying Spectrochemical Analyses: Segregation of Different Cancer Types. Analytical Letters, 2019, 52, 575-587.	1.0	13
223	Morphological Transformation of C3H/M2 Mouse Fibroblasts by Extracts of Human Mammary Lipid. Biochemical and Biophysical Research Communications, 1998, 251, 182-189.	1.0	12
224	Near-field photothermal microspectroscopy for adult stem-cell identification and characterization. Journal of Microscopy, 2007, 228, 366-372.	0.8	12
225	Chemical Composition and Sulfur Speciation in Bulk Tissue by X-Ray Spectroscopy and X-Ray Microscopy: Corneal Development during Embryogenesis. Biophysical Journal, 2012, 103, 357-364.	0.2	12
226	X-ray absorption near-edge structure (XANES) spectroscopy identifies differential sulfur speciation in corneal tissue. Analytical and Bioanalytical Chemistry, 2013, 405, 6613-6620.	1.9	12
227	Vibrational spectroscopy: a promising approach to discriminate neurodegenerative disorders. Molecular Neurodegeneration, 2018, 13, 20.	4.4	12
228	The multiple applications of tamoxifen: an example pointing to SERM modulation being the aspirin of the 21st century. Medical Science Monitor, 2008, 14, RA144-8.	0.5	12
229	Non-contact micro-cantilevers detect photothermally induced vibrations that can segregate different categories of exfoliative cervical cytology. Journal of Proteomics, 2007, 70, 675-677.	2.4	11
230	Co-exposure of C_{60} fullerene with benzo[a]pyrene results in enhanced biological effects in cells as determined by Fourier-transform infrared spectroscopy. Environmental Science: Nano, 2017, 4, 1404-1418.	2.2	11
231	Phages Enter the Fight against Colorectal Cancer. Trends in Cancer, 2019, 5, 577-579.	3.8	11
232	An analysis of benign human prostate offers insights into the mechanism of apocrine secretion and the origin of prostasomes. Scientific Reports, 2019, 9, 4582.	1.6	11
233	TTWD-DA: A MATLAB toolbox for discriminant analysis based on trilinear three-way data. Chemometrics and Intelligent Laboratory Systems, 2019, 188, 46-53.	1.8	11
234	Employing Dietary Comparators to Perform Risk Assessments for Anti-Androgens Without Using Animal Data. Toxicological Sciences, 2019, 167, 375-384.	1.4	11

#	Article	IF	Citations
235	Mid-infrared spectral classification of endometrial cancer compared to benign controls in serum or plasma samples. Analyst, The, 2021, 146, 5631-5642.	1.7	11
236	Biomarkers in ANCA-Associated Vasculitis: Potential Pitfalls and Future Prospects. Kidney360, 2021, 2, 586-597.	0.9	11
237	The proteolytic release of genotoxins from cooked beef. Biochemical and Biophysical Research Communications, 2002, 293, 1497-1501.	1.0	10
238	An Investigation Into Corneal Alkali Burns Using an Organ Culture Model. Cornea, 2009, 28, 541-546.	0.9	10
239	Elevated Oestrogen Receptor Splice Variant ERÎ±Î"5 Expression in Tumour-adjacent Hormone-responsive Tissue. International Journal of Environmental Research and Public Health, 2010, 7, 3871-3889.	1.2	10
240	Biospectroscopy for Plant and Crop Science. Comprehensive Analytical Chemistry, 2018, 80, 15-49.	0.7	10
241	The Syrian hamster embryo (SHE) assay (pH 6.7): mechanisms of cell transformation and application of vibrational spectroscopy to objectively score endpoint alterations. Mutagenesis, 2012, 27, 257-266.	1.0	9
242	Cytochrome P1B1 (CYP1B1) polymorphisms and ovarian cancer risk: A meta-analysis. Toxicology, 2012, 302, 157-162.	2.0	9
243	Attenuated total reflection Fourierâ€transform infrared (<scp>ATR</scp>â€<scp>FTIR</scp>) spectroscopy to diagnose osteoarthritis in equine serum. Equine Veterinary Journal, 2020, 52, 46-51.	0.9	9
244	Discrimination of fresh frozen non-tumour and tumour brain tissue using spectrochemical analyses and a classification model. British Journal of Neurosurgery, 2020, 34, 40-45.	0.4	9
245	A three-dimensional discriminant analysis approach for hyperspectral images. Analyst, The, 2020, 145, 5915-5924.	1.7	9
246	Raman vs. Fourier transform spectroscopy in diagnostic medicine. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, E1.	3.3	8
247	Imaging sclera with hard X-ray microscopy. Micron, 2011, 42, 506-511.	1.1	8
248	Alterations in the Biomolecular Signatures of Developing Chick Corneas as Determined by Biospectroscopy and Multivariate Analysis. , 2012, 53, 1162.		8
249	Establishing spectrochemical changes in the natural history of oesophageal adenocarcinoma from tissue Raman mapping analysis. Analytical and Bioanalytical Chemistry, 2020, 412, 4077-4087.	1.9	8
250	Distinguishing active from quiescent disease in ANCA-associated vasculitis using attenuated total reflection Fourier-transform infrared spectroscopy. Scientific Reports, 2021, 11, 9981.	1.6	8
251	Cell protection by fructose is independent of adenosine triphosphate (ATP) levels in paracetamol injury to rat liver slices. Toxicology, 1996, 107, 177-187.	2.0	7
252	Discrimination of human stem cells by photothermal microspectroscopy. Vibrational Spectroscopy, 2009, 49, 22-27.	1.2	7

#	Article	IF	Citations
253	Determination Using Synchrotron Radiation-Based Fourier Transform Infrared Microspectroscopy of Putative Stem Cells in Human Adenocarcinoma of the Intestine: Corresponding Benign Tissue as a Template. Applied Spectroscopy, 2014, 68, 812-822.	1.2	7
254	Spectrochemical determination of unique bacterial responses following long-term low-level exposure to antimicrobials. Analytical Methods, 2018, 10, 1602-1611.	1.3	7
255	Comparison of protection by fructose against paracetamol injury with protection by glucose and fructose-1,6-diphosphate. Toxicology, 1996, 108, 175-184.	2.0	6
256	Classification of test agent-specific effects in the Syrian hamster embryo assay (pH 6.7) using infrared spectroscopy with computational analysis. Mutagenesis, 2012, 27, 375-382.	1.0	6
257	Distinguishing nuclei-specific benzo[a]pyrene-induced effects from whole-cell alterations in MCF-7 cells using Fourier-transform infrared spectroscopy. Toxicology, 2015, 335, 27-34.	2.0	6
258	Infrared spectroscopy detects changes in an amphibian cell line induced by fungicides: Comparison of single and mixture effects. Aquatic Toxicology, 2016, 178, 8-18.	1.9	6
259	Underlying role of mitochondrial mutagenesis in the pathogenesis of a disease and current approaches for translational research. Mutagenesis, 2017, 32, gew058.	1.0	6
260	Assessing Binary Mixture Effects from Genotoxic and Endocrine Disrupting Environmental Contaminants Using Infrared Spectroscopy. ACS Omega, 2018, 3, 13399-13412.	1.6	6
261	Interrogating the Transient Selectivity of Bacterial Chemotaxis-Driven Affinity and Accumulation of Carbonaceous Substances via Raman Microspectroscopy. Frontiers in Microbiology, 2019, 10, 2215.	1.5	6
262	A human-derived prostate co-culture microtissue model using epithelial (RWPE-1) and stromal (WPMY-1) cell lines. Toxicology in Vitro, 2019, 60, 203-211.	1.1	6
263	Observation of nutrient uptake at the adaxial surface of leaves of tomato (<i>Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.0	6
264	Raman spectroscopy of blood and urine liquid biopsies for ovarian cancer diagnosis: identification of chemotherapy effects. Journal of Biophotonics, 2021, 14, e202100195.	1.1	6
265	Intelligent interrogation of mid-IR spectroscopy data from exfoliative cervical cytology using self-learning classifier eClass. International Journal of Computational Intelligence Research, 2008, 4, .	0.3	6
266	Regional differences in clonal Japanese knotweed revealed by chemometrics-linked attenuated total reflection Fourier-transform infrared spectroscopy. BMC Plant Biology, 2021, 21, 522.	1.6	6
267	An integrated laparoscopic simulator (i-Simâ„¢) to develop surgical skills outside the operating theatre: A novel means to improve training facilities in the UK. International Journal of Surgery, 2008, 6, 64-70.	1.1	5
268	Tracking the Impact of Excisional Cervical Treatment on the Cervix using Biospectroscopy. Scientific Reports, 2016, 6, 38921.	1.6	5
269	Vibrational biospectroscopy characterizes biochemical differences between cell types used for toxicological investigations and identifies alterations induced by environmental contaminants. Environmental Toxicology and Chemistry, 2017, 36, 3127-3137.	2.2	5
270	Age-Related and Gender-Related Increases in Colorectal Cancer Mortality Rates in Brazil Between 1979 and 2015: Projections for Continuing Rises in Disease. Journal of Gastrointestinal Cancer, 2021, 52, 280-288.	0.6	5

#	Article	IF	Citations
271	Diagnostic segregation of human breast tumours using Fourier-transform infrared spectroscopy coupled with multivariate analysis: Classifying cancer subtypes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 255, 119694.	2.0	5
272	Expression of ERα, its ERαΔ3 Splice Variant and γ-SYNUCLEIN in Ovarian Cancer: A Pilot Study. British Journal of Medicine and Medical Research, 2011, 1, 430-444.	0.2	5
273	Raman hyperspectral imaging coupled to three-dimensional discriminant analysis: classification of meningiomas brain tumour grades. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121018.	2.0	5
274	Classification of agents using Syrian hamster embryo (SHE) cell transformation assay (CTA) with ATR-FTIR spectroscopy and multivariate analysis. Mutagenesis, 2015, 30, 603-612.	1.0	4
275	Are new technologies translatable to point-of-care testing?. Lancet, The, 2017, 390, 2765-2766.	6.3	4
276	Phenotypic responses in <i>Caenorhabditis elegans</i> following chronic low‐level exposures to inorganic and organic compounds. Environmental Toxicology and Chemistry, 2018, 37, 920-930.	2.2	4
277	Fourier transform infrared and Raman‐based biochemical profiling of different grades of pure foetal‐type hepatoblastoma. Journal of Biophotonics, 2019, 12, e201800304.	1.1	4
278	Variable Selection Towards Classification of Digital Images: Identification of Altered Glucose Levels in Serum. Analytical Letters, 2019, 52, 2239-2250.	1.0	4
279	Spectrochemical identification of kanamycin resistance genes in artificial microbial communities using Clover-assay. Journal of Pharmaceutical and Biomedical Analysis, 2020, 181, 113108.	1.4	4
280	A comparative analysis of different biofluids using Raman spectroscopy to determine disease activity in ANCA ‐associated vasculitis. Journal of Biophotonics, 2021, 14, e202000426.	1.1	4
281	Near-infrared spectroscopy of blood plasma with chemometrics towards HIV discrimination during pregnancy. Scientific Reports, 2021, 11, 22609.	1.6	4
282	Genotoxicity of human milk extracts and detection of DNA damage in exfoliated cells recovered from breast milk. Biochemical and Biophysical Research Communications, 1999, 259, 319-26.	1.0	4
283	Automated Computational Detection of Disease Activity in ANCA-Associated Glomerulonephritis Using Raman Spectroscopy: A Pilot Study. Molecules, 2022, 27, 2312.	1.7	4
284	Epigenomics and disease, 10th anniversary winter meeting of the UK Molecular Epidemiology Group (MEG), The Royal Statistical Society, London, UK, 8th December 2006. Mutagenesis, 2007, 22, 425-427.	1.0	3
285	Incorporation of deuterium oxide in MCF-7 cells to shed further mechanistic insights into benzo[a]pyrene-induced low-dose effects discriminated by ATR-FTIR spectroscopy. Analyst, The, 2013, 138, 2583.	1.7	3
286	An imaging dataset of cervical cells using scanning near-field optical microscopy coupled to an infrared free electron laser. Scientific Data, 2017, 4, 170084.	2.4	3
287	Colourimetric Determination of High-Density Lipoprotein (HDL) Cholesterol Using Red–Green–Blue Digital Colour Imaging. Analytical Letters, 2018, 51, 2860-2867.	1.0	3
288	Machine Learning Approach Using a Handheld Near-Infrared (NIR) Device to Predict the Effect of Storage Conditions on Tomato Biomarkers. ACS Food Science & Technology, 2022, 2, 187-194.	1.3	3

#	Article	IF	Citations
289	Cell transformation and genotoxicity induced by Bis(2,3-dichloro-1-propyl) ether. Environmental and Molecular Mutagenesis, 2000, 35, 312-318.	0.9	2
290	Morphological transformation of C3H/M2 mouse fibroblasts by, and genotoxicity of, extracts of human milk. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2001, 498, 207-217.	0.9	2
291	Donepezil for severe Alzheimer's disease. Lancet, The, 2006, 368, 361.	6.3	2
292	Use of tissue ink to maintain identification of individual cores on needle biopsies of the prostate. Journal of Clinical Pathology, 2008, 61, 1055-1057.	1.0	2
293	Attenuated total reflection Fourier-transform infrared spectroscopy coupled with chemometrics directly detects pre- and post-symptomatic changes in tomato plants infected with Botrytis cinerea. Vibrational Spectroscopy, 2020, 111, 103171.	1.2	2
294	Discrimination of oesophageal transformation stages to adenocarcinoma in human tissue samples using Raman microspectroscopy. Vibrational Spectroscopy, 2020, 111, 103141.	1.2	2
295	The role of T-cells in neurobehavioural development: Insights from the immunodeficient nude mice. Behavioural Brain Research, 2022, 418, 113629.	1.2	2
296	Rat Liver Hyperplasia: Polyamine Concentrations Maintained Despite Ornithine Decarboxylase Inhibition. International Journal of Toxicology, 1998, 17, 35-45.	0.6	1
297	THE RISK OF PROSTATE CANCER AMONGST SOUTH ASIAN MEN IN SOUTHERN ENGLAND: THE PROCESS COHORT STUDY. BJU International, 2009, 103, 553-553.	1.3	1
298	Treatment of breast cancer during pregnancy. Lancet Oncology, The, 2012, 13, e460.	5.1	1
299	Environmental chemical stressors as epigenome modifiers: a new horizon in assessment of toxicological effects. Science Bulletin, 2014, 59, 349-355.	1.7	1
300	Spatial and temporal age-related spectral alterations in benign human breast tissue. Journal of Molecular Structure, 2016, 1106, 390-398.	1.8	1
301	Need for early, minimally invasive cancer diagnosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4752-4752.	3.3	1
302	Vibrational spectroscopy in protein research toward virus identification: challenges, new research, and future perspectives. , 2020, , 315-335.		1
303	Spectrochemical determination of effects on rat liver of binary exposure to benzo[a]pyrene and 2,2â€²,4,4â€²â€‐tetrabromodiphenyl ether. Journal of Applied Toxicology, 2021, 41, 1816-1825.	1.4	1
304	Genotoxicity of human milk extracts and detection of DNA damage in exfoliated cells recovered from breast milk. Biochemical and Biophysical Research Communications, 1999, 257, 319-26.	1.0	1
305	DNA Repair Protocols: Eukaryotic Systems. Mutagenesis, 1999, 14, 657-657.	1.0	0
306	DNA Recombination and Repair. Mutagenesis, 2000, 15, 185-185.	1.0	0

#	Article	IF	Citations
307	An Introduction to Human Molecular Genetics: Mechanisms of Inherited Diseases. Mutagenesis, 2000, 15, 287-287.	1.0	0
308	Annual Review of Genomics and Human Genetics: Edited by Eric Lander (Editor), David Page and Richard Lipton (Associate Editors) Annual Reviews (2000) 582 Pages Price $165.00 (hardback) ISBN 0-8243-3701-8. Mutagenesis, 2001, 16, 289-289.	1.0	0
309	GENE EXPRESSION PROFILING OF THE HUMAN PROSTATE ZONES. BJU International, 2007, 99, 212-212.	1.3	0
310	Re: Urs E. Studer, Laurence Collette, Peter Whelan, et al. Using PSA to Guide Timing of Androgen Deprivation in Patients with T0â€"4 N0â€"2 M0 Prostate Cancer not Suitable for Local Curative Treatment (EORTC 30891). Eur Urol 2008;53:941â€"9. European Urology, 2009, 55, e43-e44.	0.9	0
311	Prostate Cancer Genetic Toxicology. , 2011, , 3033-3037.		0
312	Stem Cell Imaging. , 2014, , 4331-4338.		0
313	Stem Cell Imaging. , 2014, , 1-8.		0
314	Prostate Cancer Genetic Toxicology. , 2016, , 3756-3761.		0
315	Detecting Endometrial Cancer by Blood Spectroscopy: A Diagnostic Cross-Sectional Study. SSRN Electronic Journal, 0, , .	0.4	0