

Francis L Martin

List of Publications by Citations

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305
papers

10,860
citations

53
h-index

90
g-index

325
ext. papers

12,539
ext. citations

5.8
avg, IF

6.31
L-index

#	Paper	IF	Citations
305	Using Fourier transform IR spectroscopy to analyze biological materials. <i>Nature Protocols</i> , 2014 , 9, 1771-78	18.8	977
304	Using Raman spectroscopy to characterize biological materials. <i>Nature Protocols</i> , 2016 , 11, 664-87	18.8	570
303	Exposure of electronics dismantling workers to polybrominated diphenyl ethers, polychlorinated biphenyls, and organochlorine pesticides in South China. <i>Environmental Science & Technology</i> , 2007 , 41, 5647-53	10.3	304
302	Distinguishing cell types or populations based on the computational analysis of their infrared spectra. <i>Nature Protocols</i> , 2010 , 5, 1748-60	18.8	235
301	Diversity of TMPRSS2-ERG fusion transcripts in the human prostate. <i>Oncogene</i> , 2007 , 26, 2667-73	9.2	198
300	Different levels of polybrominated diphenyl ethers (PBDEs) and chlorinated compounds in breast milk from two U.K. Regions. <i>Environmental Health Perspectives</i> , 2004 , 112, 1085-91	8.4	180
299	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. <i>Carcinogenesis</i> , 2015 , 36 Suppl 1, S254-96	4.6	176
298	Extracting biological information with computational analysis of Fourier-transform infrared (FTIR) biospectroscopy datasets: current practices to future perspectives. <i>Analyst, The</i> , 2012 , 137, 3202-15	5	167
297	Fourier-transform infrared spectroscopy coupled with a classification machine for the analysis of blood plasma or serum: a novel diagnostic approach for ovarian cancer. <i>Analyst, The</i> , 2013 , 138, 3917-26	5	152
296	A strategy for designing inhibitors of alpha-synuclein aggregation and toxicity as a novel treatment for Parkinson disease and related disorders. <i>FASEB Journal</i> , 2004 , 18, 1315-7	0.9	146
295	Biospectroscopy to metabolically profile biomolecular structure: a multistage approach linking computational analysis with biomarkers. <i>Journal of Proteome Research</i> , 2011 , 10, 1437-48	5.6	140
294	Infrared spectroscopy with multivariate analysis potentially facilitates the segregation of different types of prostate cell. <i>Biophysical Journal</i> , 2006 , 90, 3783-95	2.9	119
293	Diagnostic segregation of human brain tumours using Fourier-transform infrared and/or Raman spectroscopy coupled with discriminant analysis. <i>Analytical Methods</i> , 2012 , 5, 89-102	3.2	118
292	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , 2018 , 143, 1735-1757	5	114
291	Metabolic activation of carcinogens and expression of various cytochromes P450 in human prostate tissue. <i>Carcinogenesis</i> , 2000 , 21, 1683-9	4.6	114
290	Carcinogens and DNA damage. <i>Biochemical Society Transactions</i> , 2018 , 46, 1213-1224	5.1	114
289	IRootLab: a free and open-source MATLAB toolbox for vibrational biospectroscopy data analysis. <i>Bioinformatics</i> , 2013 , 29, 1095-7	7.2	112

288	Understanding and harnessing the health effects of rapid urbanization in China. <i>Environmental Science & Technology</i> , 2011 , 45, 5099-104	10.3	112
287	IR microspectroscopy: potential applications in cervical cancer screening. <i>Cancer Letters</i> , 2007 , 246, 1-11	9.9	112
286	Vibrational spectroscopy of biofluids for disease screening or diagnosis: translation from the laboratory to a clinical setting. <i>Journal of Biophotonics</i> , 2014 , 7, 153-65	3.1	104
285	SOX9 elevation in the prostate promotes proliferation and cooperates with PTEN loss to drive tumor formation. <i>Cancer Research</i> , 2010 , 70, 979-87	10.1	104
284	Differences in the carcinogenic evaluation of glyphosate between the International Agency for Research on Cancer (IARC) and the European Food Safety Authority (EFSA). <i>Journal of Epidemiology and Community Health</i> , 2016 , 70, 741-5	5.1	104
283	Identifying variables responsible for clustering in discriminant analysis of data from infrared microspectroscopy of a biological sample. <i>Journal of Computational Biology</i> , 2007 , 14, 1176-84	1.7	103
282	Risk assessment of environmental mixture effects. <i>RSC Advances</i> , 2016 , 6, 47844-47857	3.7	102
281	Chemical measures of bioavailability/bioaccessibility of PAHs in soil: fundamentals to application. <i>Journal of Hazardous Materials</i> , 2013 , 261, 687-700	12.8	101
280	Fourier transform infrared microspectroscopy identifies symmetric PO(2)(-) modifications as a marker of the putative stem cell region of human intestinal crypts. <i>Stem Cells</i> , 2008 , 26, 108-18	5.8	94
279	CYP1B1 and hormone-induced cancer. <i>Cancer Letters</i> , 2012 , 324, 13-30	9.9	90
278	Short and medium chain length chlorinated paraffins in UK human milk fat. <i>Environment International</i> , 2006 , 32, 34-40	12.9	87
277	Heterocyclic aromatic amines induce DNA strand breaks and cell transformation. <i>Carcinogenesis</i> , 1999 , 20, 545-51	4.6	86
276	Oestrogen receptor splice variants in the pathogenesis of disease. <i>Cancer Letters</i> , 2010 , 288, 133-48	9.9	83
275	Differential diagnosis of Alzheimer's disease using spectrochemical analysis of blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7929-E7938	11.5	79
274	Gamma-synuclein and the progression of cancer. <i>FASEB Journal</i> , 2007 , 21, 3419-30	0.9	76
273	Tutorial: multivariate classification for vibrational spectroscopy in biological samples. <i>Nature Protocols</i> , 2020 , 15, 2143-2162	18.8	73
272	Vibrational biospectroscopy coupled with multivariate analysis extracts potentially diagnostic features in blood plasma/serum of ovarian cancer patients. <i>Journal of Biophotonics</i> , 2014 , 7, 200-9	3.1	73
271	Aluminium foil as a potential substrate for ATR-FTIR, transfection FTIR or Raman spectrochemical analysis of biological specimens. <i>Analytical Methods</i> , 2016 , 8, 481-487	3.2	71

270	Genotoxic effects of oestrogens in breast cells detected by the micronucleus assay and the Comet assay. <i>Mutagenesis</i> , 2002 , 17, 345-52	2.8	69
269	ATR-FTIR spectroscopy coupled with chemometric analysis discriminates normal, borderline and malignant ovarian tissue: classifying subtypes of human cancer. <i>Analyst, The</i> , 2016 , 141, 585-94	5	66
268	ATR microspectroscopy with multivariate analysis segregates grades of exfoliative cervical cytology. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 352, 213-9	3.4	66
267	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. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999 , 445, 21-43	3	66
266	Occupational Exposure to Polycyclic Aromatic Hydrocarbons and Elevated Cancer Incidence in Firefighters. <i>Scientific Reports</i> , 2018 , 8, 2476	4.9	65
265	Monitoring cell cycle distributions in MCF-7 cells using near-field photothermal microspectroscopy. <i>Biophysical Journal</i> , 2005 , 88, 3699-706	2.9	63
264	Cell transformation assays for prediction of carcinogenic potential: state of the science and future research needs. <i>Mutagenesis</i> , 2012 , 27, 93-101	2.8	62
263	Standardization of complex biologically derived spectrochemical datasets. <i>Nature Protocols</i> , 2019 , 14, 1546-1577	18.8	61
262	Metabolic reprogramming and dysregulated metabolism: cause, consequence and/or enabler of environmental carcinogenesis?. <i>Carcinogenesis</i> , 2015 , 36 Suppl 1, S203-31	4.6	61
261	Low dose induction of micronuclei by lindane. <i>Carcinogenesis</i> , 2004 , 25, 613-22	4.6	59
260	Comparison of paracetamol-induced hepatotoxicity in the rat in vivo with progression of cell injury in vitro in rat liver slices. <i>Drug and Chemical Toxicology</i> , 1998 , 21, 477-94	2.3	59
259	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. <i>Environmental Science & Technology</i> , 2010 , 44, 3992-8	10.3	57
258	Low-dose treatment with polybrominated diphenyl ethers (PBDEs) induce altered characteristics in MCF-7 cells. <i>Mutagenesis</i> , 2006 , 21, 351-60	2.8	56
257	Combining immunolabeling and surface-enhanced Raman spectroscopy on cell membranes. <i>ACS Nano</i> , 2011 , 5, 9535-41	16.7	55
256	The initiation of breast and prostate cancer. <i>Carcinogenesis</i> , 2002 , 23, 1095-102	4.6	55
255	Perfluorooctanoic acid induces apoptosis through the p53-dependent mitochondrial pathway in human hepatic cells: a proteomic study. <i>Toxicology Letters</i> , 2013 , 223, 211-20	4.4	54
254	Tracking the cell hierarchy in the human intestine using biochemical signatures derived by mid-infrared microspectroscopy. <i>Stem Cell Research</i> , 2009 , 3, 15-27	1.6	54
253	CYP1B1 expression in prostate is higher in the peripheral than in the transition zone. <i>Cancer Letters</i> , 2004 , 215, 69-78	9.9	53

252	Application of vibrational spectroscopy techniques to non-destructively monitor plant health and development. <i>Analytical Methods</i> , 2015 , 7, 4059-4070	3.2	51
251	Characterization of putative stem cell populations in the cornea using synchrotron infrared microspectroscopy. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 2417-21		51
250	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. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 969-82	4.4	50
249	Low-dose carbon-based nanoparticle-induced effects in A549 lung cells determined by biospectroscopy are associated with increases in genomic methylation. <i>Scientific Reports</i> , 2016 , 6, 202074-9		49
248	Concentration-dependent effects of carbon nanoparticles in gram-negative bacteria determined by infrared spectroscopy with multivariate analysis. <i>Environmental Pollution</i> , 2012 , 163, 226-34	9.3	49
247	Interactions of multiwalled carbon nanotubes with algal cells: quantification of association, visualization of uptake, and measurement of alterations in the composition of cells. <i>Environmental Pollution</i> , 2015 , 196, 431-9	9.3	49
246	Quantification of phase I/II metabolizing enzyme gene expression and polycyclic aromatic hydrocarbon-DNA adduct levels in human prostate. <i>Prostate</i> , 2009 , 69, 505-19	4.2	47
245	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. <i>Prostate Cancer and Prostatic Diseases</i> , 2006 , 9, 407-13	6.2	47
244	A potential paradox in prostate adenocarcinoma progression: oestrogen as the initiating driver. <i>European Journal of Cancer</i> , 2008 , 44, 928-36	7.5	46
243	Real-world carbon nanoparticle exposures induce brain and gonadal alterations in zebrafish (<i>Danio rerio</i>) as determined by biospectroscopy techniques. <i>Analyst, The</i> , 2015 , 140, 2687-95	5	45
242	Perfluorooctanoic acid induces gene promoter hypermethylation of glutathione-S-transferase Pi in human liver L02 cells. <i>Toxicology</i> , 2012 , 296, 48-55	4.4	45
241	4-Nonylphenol induces autophagy and attenuates mTOR-p70S6K/4EBP1 signaling by modulating AMPK activation in Sertoli cells. <i>Toxicology Letters</i> , 2017 , 267, 21-31	4.4	44
240	Infrared spectroscopy with multivariate analysis to interrogate endometrial tissue: a novel and objective diagnostic approach. <i>British Journal of Cancer</i> , 2011 , 104, 790-7	8.7	44
239	Syrian hamster embryo (SHE) assay (pH 6.7) coupled with infrared spectroscopy and chemometrics towards toxicological assessment. <i>Analyst, The</i> , 2010 , 135, 3266-72	5	44
238	High contrast images of uterine tissue derived using Raman microspectroscopy with the empty modelling approach of multivariate curve resolution-alternating least squares. <i>Analyst, The</i> , 2011 , 136, 4950-9	5	44
237	Functional Single-Cell Approach to Probing Nitrogen-Fixing Bacteria in Soil Communities by Resonance Raman Spectroscopy with N Labeling. <i>Analytical Chemistry</i> , 2018 , 90, 5082-5089	7.8	43
236	Ras-MEK-ERK signaling cascade regulates androgen receptor element-inducible gene transcription and DNA synthesis in prostate cancer cells. <i>International Journal of Cancer</i> , 2007 , 121, 520-7	7.5	42
235	Tamoxifen: important considerations of a multi-functional compound with organ-specific properties. <i>Cancer Treatment Reviews</i> , 2007 , 33, 91-100	14.4	42

234	Selenite-induced toxicity in cancer cells is mediated by metabolic generation of endogenous selenium nanoparticles. <i>Journal of Proteome Research</i> , 2015 , 14, 1127-36	5.6	41
233	Derivation by infrared spectroscopy with multivariate analysis of bimodal contaminant-induced dose-response effects in MCF-7 cells. <i>Environmental Science & Technology</i> , 2011 , 45, 6129-35	10.3	40
232	Improving data splitting for classification applications in spectrochemical analyses employing a random-mutation Kennard-Stone algorithm approach. <i>Bioinformatics</i> , 2019 , 35, 5257-5263	7.2	39
231	Urinary metabolome identifies signatures of oligozoospermic infertile men. <i>Fertility and Sterility</i> , 2014 , 102, 44-53.e12	4.8	39
230	Histology verification demonstrates that biospectroscopy analysis of cervical cytology identifies underlying disease more accurately than conventional screening: removing the confounder of discordance. <i>PLoS ONE</i> , 2014 , 9, e82416	3.7	39
229	FTIR Microspectroscopy Coupled with Two-Class Discrimination Segregates Markers Responsible for Inter- and Intra-Category Variance in Exfoliative Cervical Cytology. <i>Biomarker Insights</i> , 2008 , 3, 179-189	3.5	39
228	Surface-Enhanced Raman Spectroscopy for Identification of Heavy Metal Arsenic(V)-Mediated Enhancing Effect on Antibiotic Resistance. <i>Analytical Chemistry</i> , 2016 , 88, 3164-70	7.8	38
227	Raman Spectroscopy to Diagnose Alzheimer's Disease and Dementia with Lewy Bodies in Blood. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 2786-2794	5.7	38
226	Discrimination of zone-specific spectral signatures in normal human prostate using Raman spectroscopy. <i>Analyst</i> , 2010 , 135, 3060-9	5	38
225	Segregation of ovarian cancer stage exploiting spectral biomarkers derived from blood plasma or serum analysis: ATR-FTIR spectroscopy coupled with variable selection methods. <i>Biotechnology Progress</i> , 2015 , 31, 832-9	2.8	37
224	Metabolomic analysis reveals a unique urinary pattern in normozoospermic infertile men. <i>Journal of Proteome Research</i> , 2014 , 13, 3088-99	5.6	37
223	Dose-related alterations of carbon nanoparticles in mammalian cells detected using biospectroscopy: potential for real-world effects. <i>Environmental Science & Technology</i> , 2013 , 47, 10005-11	10.3	37
222	4-Nonylphenol induces disruption of spermatogenesis associated with oxidative stress-related apoptosis by targeting p53-Bcl-2/Bax-Fas/FasL signaling. <i>Environmental Toxicology</i> , 2017 , 32, 739-753	4.2	36
221	A biomarker model of sublethal genotoxicity (DNA single-strand breaks and adducts) using the sentinel organism <i>Aporrectodea longa</i> in spiked soil. <i>Environmental Pollution</i> , 2005 , 138, 307-15	9.3	36
220	Primary cultures of prostate cells and their ability to activate carcinogens. <i>Prostate Cancer and Prostatic Diseases</i> , 2002 , 5, 96-104	6.2	36
219	Fe(II)-induced DNA damage in alpha-synuclein-transfected human dopaminergic BE(2)-M17 neuroblastoma cells: detection by the Comet assay. <i>Journal of Neurochemistry</i> , 2003 , 87, 620-30	6	36
218	DNA damage in breast epithelial cells: detection by the single-cell gel (comet) assay and induction by human mammary lipid extracts. <i>Carcinogenesis</i> , 1997 , 18, 2299-305	4.6	35
217	Selenium- or quercetin-induced retardation of DNA synthesis in primary prostate cells occurs in the presence of a concomitant reduction in androgen-receptor activity. <i>Cancer Letters</i> , 2006 , 239, 111-22	9.9	35

216	Increased exposure to pesticides and colon cancer: Early evidence in Brazil. <i>Chemosphere</i> , 2018 , 209, 623-631	8.4	33
215	Measurement of ZnO nanoparticles using diffusive gradients in thin films: binding and diffusional characteristics. <i>Analytical Chemistry</i> , 2014 , 86, 5906-13	7.8	33
214	Association of DNA methylation and mitochondrial DNA copy number with human semen quality. <i>Biology of Reproduction</i> , 2014 , 91, 101	3.9	33
213	Potential of mid-infrared spectroscopy as a non-invasive diagnostic test in urine for endometrial or ovarian cancer. <i>Analyst, The</i> , 2018 , 143, 3156-3163	5	32
212	Biospectroscopy insights into the multi-stage process of cervical cancer development: probing for spectral biomarkers in cytology to distinguish grades. <i>Analyst, The</i> , 2013 , 138, 3909-16	5	32
211	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. <i>Environmental Science & Technology</i> , 2009 , 43, 3356-64	10.3	32
210	Constitutive expression of bioactivating enzymes in normal human prostate suggests a capability to activate pro-carcinogens to DNA-damaging metabolites. <i>Prostate</i> , 2010 , 70, 1586-99	4.2	32
209	Effects of aberrant Pax6 gene dosage on mouse corneal pathophysiology and corneal epithelial homeostasis. <i>PLoS ONE</i> , 2011 , 6, e28895	3.7	32
208	Ultrarapid On-Site Detection of SARS-CoV-2 Infection Using Simple ATR-FTIR Spectroscopy and an Analysis Algorithm: High Sensitivity and Specificity. <i>Analytical Chemistry</i> , 2021 , 93, 2950-2958	7.8	32
207	Interrogating chemical variation via layer-by-layer SERS during biofouling and cleaning of nanofiltration membranes with further investigations into cleaning efficiency. <i>Water Research</i> , 2015 , 87, 282-91	12.5	31
206	Effects of 4-nonylphenol on spermatogenesis and induction of testicular apoptosis through oxidative stress-related pathways. <i>Reproductive Toxicology</i> , 2016 , 62, 27-38	3.4	31
205	Raman spectroscopic techniques to detect ovarian cancer biomarkers in blood plasma. <i>Talanta</i> , 2018 , 189, 281-288	6.2	31
204	Urinary metabolic biomarkers link oxidative stress indicators associated with general arsenic exposure to male infertility in a han chinese population. <i>Environmental Science & Technology</i> , 2013 , 47, 8843-51	10.3	30
203	Sublethal genotoxicity and cell alterations by organophosphorus pesticides in MCF-7 cells: implications for environmentally relevant concentrations. <i>Environmental Toxicology and Chemistry</i> , 2011 , 30, 632-9	3.8	30
202	Evidence for a stem-cell lineage in corneal squamous cell carcinoma using synchrotron-based Fourier-transform infrared microspectroscopy and multivariate analysis. <i>Analyst, The</i> , 2010 , 135, 3120-5	5	30
201	Fourier-transform infrared spectroscopy discriminates a spectral signature of endometriosis independent of inter-individual variation. <i>Analyst, The</i> , 2011 , 136, 2047-55	5	30
200	Derivation of a subtype-specific biochemical signature of endometrial carcinoma using synchrotron-based Fourier-transform infrared microspectroscopy. <i>Cancer Letters</i> , 2009 , 274, 208-17	9.9	30
199	The influence of dietary and environmental factors on prostate cancer risk. <i>Prostate Cancer and Prostatic Diseases</i> , 2000 , 3, 256-258	6.2	30

198	Microspectroscopy of spectral biomarkers associated with human corneal stem cells. <i>Molecular Vision</i> , 2010 , 16, 359-68	2.3	30
197	Genotoxicity of human mammary lipid. <i>Cancer Research</i> , 1996 , 56, 5342-6	10.1	30
196	Exposure to arsenic via drinking water induces 5-hydroxymethylcytosine alteration in rat. <i>Science of the Total Environment</i> , 2014 , 497-498, 618-625	10.2	28
195	Gold nanoparticles as a substrate in bio-analytical near-infrared surface-enhanced Raman spectroscopy. <i>Analyst, The</i> , 2015 , 140, 3090-7	5	27
194	Discrimination of base differences in oligonucleotides using mid-infrared spectroscopy and multivariate analysis. <i>Analytical Chemistry</i> , 2009 , 81, 5314-9	7.8	26
193	Enhanced micronucleus formation and modulation of BCL-2:BAX in MCF-7 cells after exposure to binary mixtures. <i>Environmental Health Perspectives</i> , 2007 , 115 Suppl 1, 129-36	8.4	26
192	Isolating stem cells in the inter-follicular epidermis employing synchrotron radiation-based Fourier-transform infrared microspectroscopy and focal plane array imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1745-58	4.4	25
191	Characterisation of DNA methylation status using spectroscopy (mid-IR versus Raman) with multivariate analysis. <i>Journal of Biophotonics</i> , 2011 , 4, 345-54	3.1	25
190	Robust classification of low-grade cervical cytology following analysis with ATR-FTIR spectroscopy and subsequent application of self-learning classifier eClass. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2191-201	4.4	25
189	Elevated expression of CYP1A1 and gamma-SYNUCLEIN in human ectopic (ovarian) endometriosis compared with eutopic endometrium. <i>Molecular Human Reproduction</i> , 2008 , 14, 655-63	4.4	25
188	Classification of cervical cytology for human papilloma virus (HPV) infection using biospectroscopy and variable selection techniques. <i>Analytical Methods</i> , 2014 , 6, 9643-9652	3.2	24
187	Alterations in the infrared spectral signature of avian feathers reflect potential chemical exposure: a pilot study comparing two sites in Pakistan. <i>Environment International</i> , 2012 , 48, 39-46	12.9	24
186	Growth kinetics in MCF-7 cells modulate benzo[a]pyrene-induced CYP1A1 up-regulation. <i>Mutagenesis</i> , 2007 , 22, 111-6	2.8	24
185	Activation of genotoxins to DNA-damaging species in exfoliated breast milk cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2000 , 470, 115-24	3	24
184	Characterization of human corneal stem cells by synchrotron infrared micro-spectroscopy. <i>Molecular Vision</i> , 2007 , 13, 237-42	2.3	24
183	Attenuated total reflection Fourier-transform infrared spectral discrimination in human bodily fluids of oesophageal transformation to adenocarcinoma. <i>Analyst, The</i> , 2019 , 144, 7447-7456	5	24
182	Measuring similarity and improving stability in biomarker identification methods applied to Fourier-transform infrared (FTIR) spectroscopy. <i>Journal of Biophotonics</i> , 2014 , 7, 254-65	3.1	23
181	Discrimination of a transformation phenotype in Syrian golden hamster embryo (SHE) cells using ATR-FTIR spectroscopy. <i>Toxicology</i> , 2009 , 258, 33-8	4.4	23

180	A spectral phenotype of oncogenic human papillomavirus-infected exfoliative cervical cytology distinguishes women based on age. <i>Clinica Chimica Acta</i> , 2010 , 411, 1027-33	6.2	22
179	Adenosine triphosphate (ATP) levels in paracetamol-induced cell injury in the rat in vivo and in vitro. <i>Toxicology</i> , 1995 , 104, 91-7	4.4	22
178	Alpha-synuclein and the pathogenesis of Parkinson's disease. <i>Protein and Peptide Letters</i> , 2004 , 11, 229-379		22
177	Fingerprinting microbiomes towards screening for microbial antibiotic resistance. <i>Integrative Biology (United Kingdom)</i> , 2017 , 9, 406-417	3.7	21
176	Infrared Spectroscopy Coupled with a Dispersion Model for Quantifying the Real-Time Dynamics of Kanamycin Resistance in Artificial Microbiota. <i>Analytical Chemistry</i> , 2017 , 89, 9814-9821	7.8	21
175	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). <i>Chemosphere</i> , 2007 , 69, 841-8	8.4	21
174	Association of environmental benzo[a]pyrene exposure and DNA methylation alterations in hepatocellular carcinoma: A Chinese case-control study. <i>Science of the Total Environment</i> , 2016 , 541, 1243-1252	10.2	20
173	Mechanistic insights into nanotoxicity determined by synchrotron radiation-based Fourier-transform infrared imaging and multivariate analysis. <i>Environment International</i> , 2012 , 50, 56-65	12.9	20
172	ATR-FTIR spectroscopy non-destructively detects damage-induced sour rot infection in whole tomato fruit. <i>Planta</i> , 2019 , 249, 925-939	4.7	19
171	Phthalates Induce Androgenic Effects at Exposure Levels That Can Be Environmentally Relevant in Humans. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 232-236	11	19
170	Targeted cornea limbal stem/progenitor cell transfection in an organ culture model 2008 , 49, 3395-401		19
169	Quantification of Chemotaxis-Related Alkane Accumulation in <i>Acinetobacter baylyi</i> Using Raman Microspectroscopy. <i>Analytical Chemistry</i> , 2017 , 89, 3909-3918	7.8	18
168	Towards a non-animal risk assessment for anti-androgenic effects in humans. <i>Environment International</i> , 2015 , 83, 94-106	12.9	18
167	Blood-based near-infrared spectroscopy for the rapid low-cost detection of Alzheimer's disease. <i>Analyst, The</i> , 2018 , 143, 5959-5964	5	18
166	Identification of benzo[a]pyrene-induced cell cycle-associated alterations in MCF-7 cells using infrared spectroscopy with computational analysis. <i>Toxicology</i> , 2012 , 298, 24-9	4.4	18
165	Diet-sourced carbon-based nanoparticles induce lipid alterations in tissues of zebrafish (<i>Danio rerio</i>) with genomic hypermethylation changes in brain. <i>Mutagenesis</i> , 2017 , 32, 91-103	2.8	18
164	Surface-enhanced Raman spectroscopy of the endothelial cell membrane. <i>PLoS ONE</i> , 2014 , 9, e106283	3.7	18
163	Differential effects in mammalian cells induced by chemical mixtures in environmental biota as profiled using infrared spectroscopy. <i>Environmental Science & Technology</i> , 2011 , 45, 10706-12	10.3	18

162	Quantifiable mRNA transcripts for tamoxifen-metabolising enzymes in human endometrium. <i>Toxicology</i> , 2008 , 249, 85-90	4.4	18
161	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. <i>Environmental Science & Technology</i> , 2004 , 38, 3614-22	10.3	18
160	Evaluation of ATR-FTIR spectroscopy with multivariate analysis to study the binding mechanisms of ZnO nanoparticles or Zn ²⁺ to Chelex-100 or metsorb. <i>Environmental Science & Technology</i> , 2013 , 47, 11115-21	10.3	17
159	Infrared microspectroscopy identifies biomolecular changes associated with chronic oxidative stress in mammary epithelium and stroma of breast tissues from healthy young women: implications for latent stages of breast carcinogenesis. <i>Cancer Biology and Therapy</i> , 2014 , 15, 225-35	4.6	17
158	Dynamic modeling of β -synuclein aggregation in dopaminergic neuronal system indicates points of neuroprotective intervention: experimental validation with implications for Parkinson's therapy. <i>Neuroscience</i> , 2011 , 199, 303-17	3.9	17
157	Perfluoroalkylated Substance Effects in <i>Xenopus laevis</i> A6 Kidney Epithelial Cells Determined by ATR-FTIR Spectroscopy and Chemometric Analysis. <i>Chemical Research in Toxicology</i> , 2016 , 29, 924-32	4	17
156	Spectrochemical analysis of sycamore (<i>Acer pseudoplatanus</i>) leaves for environmental health monitoring. <i>Analyst, The</i> , 2016 , 141, 2896-903	5	17
155	Uncertainty estimation and misclassification probability for classification models based on discriminant analysis and support vector machines. <i>Analytica Chimica Acta</i> , 2019 , 1063, 40-46	6.6	17
154	Subtle effects of environmental stress observed in the early life stages of the Common frog, <i>Rana temporaria</i> . <i>Scientific Reports</i> , 2017 , 7, 44438	4.9	16
153	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. <i>Analyst, The</i> , 2019 , 144, 2312-2319	5	16
152	Progress and Challenges in the Diagnosis of Dementia: A Critical Review. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 446-461	5.7	16
151	Infrared spectroscopy with multivariate analysis segregates low-grade cervical cytology based on likelihood to regress, remain static or progress. <i>Analytical Methods</i> , 2014 , 6, 4576-4584	3.2	16
150	Exploiting biospectroscopy as a novel screening tool for cervical cancer: towards a framework to validate its accuracy in a routine clinical setting. <i>Bioanalysis</i> , 2013 , 5, 2697-711	2.1	16
149	A biospectroscopic interrogation of fine needle aspirates points towards segregation between graded categories: an initial study towards diagnostic screening. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 957-67	4.4	16
148	Differential gene expression in the peripheral zone compared to the transition zone of the human prostate gland. <i>Prostate Cancer and Prostatic Diseases</i> , 2008 , 11, 173-80	6.2	16
147	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. <i>Environmental Science & Technology</i> , 2007 , 41, 5915-22	10.3	16
146	Detecting nutrient deficiency in plant systems using synchrotron Fourier-transform infrared microspectroscopy. <i>Vibrational Spectroscopy</i> , 2017 , 90, 46-55	2.1	15
145	Determination of developmental and ripening stages of whole tomato fruit using portable infrared spectroscopy and Chemometrics. <i>BMC Plant Biology</i> , 2019 , 19, 236	5.3	15

144	Extracting biomarkers of commitment to cancer development: potential role of vibrational spectroscopy in systems biology. <i>Expert Review of Molecular Diagnostics</i> , 2015 , 15, 693-713	3.8	15
143	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. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 4541-4554	4.4	15
142	MGMT promoter hypermethylation and K-RAS, PTEN and TP53 mutations in tamoxifen-exposed and non-exposed endometrial cancer cases. <i>British Journal of Cancer</i> , 2014 , 110, 2874-80	8.7	15
141	Sub-cellular spectrochemical imaging of isolated human corneal cells employing synchrotron radiation-based Fourier-transform infrared microspectroscopy. <i>Analyst, The</i> , 2013 , 138, 240-8	5	15
140	Carbon nanomaterials in clean and contaminated soils: environmental implications and applications. <i>Soil</i> , 2015 , 1, 1-21	5.8	15
139	Mutagens in human breast lipid and milk: the search for environmental agents that initiate breast cancer. <i>Environmental and Molecular Mutagenesis</i> , 2002 , 39, 143-9	3.2	15
138	DNA damage in human breast milk cells and its induction by early and late milk extracts. <i>Carcinogenesis</i> , 2000 , 21, 799-804	4.6	15
137	Genotoxins and the initiation of sporadic breast cancer. <i>Mutagenesis</i> , 2001 , 16, 155-61	2.8	15
136	Diagnose Pathogens in Drinking Water via Magnetic Surface-Enhanced Raman Scattering (SERS) Assay. <i>Materials Today: Proceedings</i> , 2017 , 4, 25-31	1.4	14
135	Imaging cervical cytology with scanning near-field optical microscopy (SNOM) coupled with an IR-FEL. <i>Scientific Reports</i> , 2016 , 6, 29494	4.9	14
134	Biospectroscopy reveals the effect of varying water quality on tadpole tissues of the common frog (<i>Rana temporaria</i>). <i>Environmental Pollution</i> , 2016 , 213, 322-337	9.3	14
133	Epigenetic influences in the aetiology of cancers arising from breast and prostate: a hypothesised transgenerational evolution in chromatin accessibility. <i>ISRN Oncology</i> , 2013 , 2013, 624794		14
132	Raman spectroscopy as a potential diagnostic tool to analyse biochemical alterations in lung cancer. <i>Analyst, The</i> , 2020 , 145, 385-392	5	14
131	Fourier-transform infrared spectroscopy as a novel approach to providing effect-based endpoints in duckweed toxicity testing. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 346-353	3.8	13
130	Linking biochemical perturbations in tissues of the African catfish to the presence of polycyclic aromatic hydrocarbons in Ovia River, Niger Delta region. <i>Environmental Pollution</i> , 2015 , 201, 42-9	9.3	13
129	Levels of Organochlorine Pesticides Are Associated with Amyloid Aggregation in Apex Avian Brains. <i>Environmental Science & Technology</i> , 2017 , 51, 8672-8681	10.3	13
128	A biospectroscopic analysis of human prostate tissue obtained from different time periods points to a trans-generational alteration in spectral phenotype. <i>Scientific Reports</i> , 2015 , 5, 13465	4.9	13
127	Association of CYP1B1 Polymorphisms with Breast Cancer: A Case-Control Study in the Han Population in Ningxia Hui Autonomous Region, P. R. China. <i>Biomarker Insights</i> , 2010 , 5, 21-7	3.5	13

126	ATR-FTIR spectroscopy detects alterations induced by organotin(IV) carboxylates in MCF-7 cells at sub-cytotoxic/genotoxic concentrations. <i>PMC Biophysics</i> , 2008 , 1, 3		13
125	Raman spectral discrimination in human liquid biopsies of oesophageal transformation to adenocarcinoma. <i>Journal of Biophotonics</i> , 2020 , 13, e201960132	3.1	13
124	New approach to investigate Common Variable Immunodeficiency patients using spectrochemical analysis of blood. <i>Scientific Reports</i> , 2019 , 9, 7239	4.9	12
123	Diagnostic Biomarkers for Alzheimer's Disease Using Non-Invasive Specimens. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	12
122	Paper Spray Ionization Mass Spectrometry as a Potential Tool for Early Diagnosis of Cervical Cancer. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 ,	3.5	12
121	Spectrochemical analyses of growth phase-related bacterial responses to low (environmentally-relevant) concentrations of tetracycline and nanoparticulate silver. <i>Analyst, The</i> , 2018 , 143, 768-776	5	12
120	ATR-FTIR Spectroscopy Tools for Medical Diagnosis and Disease Investigation 2018 , 163-211		12
119	Spectral classification for diagnosis involving numerous pathologies in a complex clinical setting: A neuro-oncology example. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 206, 89-96	4.4	12
118	Mid-infrared spectroscopic assessment of nanotoxicity in gram-negative vs. gram-positive bacteria. <i>Analyst, The</i> , 2014 , 139, 896-905	5	12
117	Novel sensor technologies towards environmental health monitoring in urban environments: a case study in the Niger Delta (Nigeria). <i>Environmental Pollution</i> , 2014 , 192, 222-31	9.3	12
116	Chemical composition and sulfur speciation in bulk tissue by x-ray spectroscopy and x-ray microscopy: corneal development during embryogenesis. <i>Biophysical Journal</i> , 2012 , 103, 357-64	2.9	12
115	Corneal epithelialisation on surface-modified hydrogel implants: artificial cornea. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 663-70	4.5	12
114	Risk of prostate cancer after detection of isolated high-grade prostatic intraepithelial neoplasia (HGPIN) on extended core needle biopsy: a UK hospital experience. <i>BMC Urology</i> , 2009 , 9, 3	2.2	12
113	Oestrogens induce G(1) arrest in benzo[a]pyrene-treated MCF-7 breast cells whilst enhancing genotoxicity and clonogenic survival. <i>Mutagenesis</i> , 2002 , 17, 431-8	2.8	12
112	The multiple applications of tamoxifen: an example pointing to SERM modulation being the aspirin of the 21st century. <i>Medical Science Monitor</i> , 2008 , 14, RA144-8	3.2	12
111	Phthalate side-chain structures and hydrolysis metabolism associated with steroidogenic effects in MLTC-1 Leydig cells. <i>Toxicology Letters</i> , 2019 , 308, 56-64	4.4	11
110	X-ray absorption near-edge structure (XANES) spectroscopy identifies differential sulfur speciation in corneal tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 6613-20	4.4	11
109	Novel biospectroscopy sensor technologies towards environmental health monitoring in urban environments. <i>Environmental Pollution</i> , 2013 , 183, 46-53	9.3	11

108	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. <i>Asian Journal of Andrology</i> , 2010 , 12, 203-14	2.8	11
107	Morphological transformation of C3H/M2 mouse fibroblasts by extracts of human mammary lipid. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 251, 182-9	3.4	11
106	TTWD-DA: A MATLAB toolbox for discriminant analysis based on trilinear three-way data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019 , 188, 46-53	3.8	10
105	Aluminium foil as an alternative substrate for the spectroscopic interrogation of endometrial cancer. <i>Journal of Biophotonics</i> , 2018 , 11, e201700372	3.1	10
104	Bimodal responses of cells to trace elements: insights into their mechanism of action using a biospectroscopy approach. <i>Chemosphere</i> , 2014 , 112, 377-84	8.4	10
103	Elevated oestrogen receptor splice variant ER β B expression in tumour-adjacent hormone-responsive tissue. <i>International Journal of Environmental Research and Public Health</i> , 2010 , 7, 3871-89	4.6	10
102	The unusual history and the urological applications of botulinum neurotoxin. <i>Urologia Internationalis</i> , 2010 , 85, 125-30	1.9	10
101	Gene-environment interactions between GSTs polymorphisms and targeted epigenetic alterations in hepatocellular carcinoma following organochlorine pesticides (OCPs) exposure. <i>Environment International</i> , 2020 , 134, 105313	12.9	10
100	Spectrochemical analysis in blood plasma combined with subsequent chemometrics for fibromyalgia detection. <i>Scientific Reports</i> , 2020 , 10, 11769	4.9	10
99	Determination of meningioma brain tumour grades using Raman microspectroscopy imaging. <i>Analyst, The</i> , 2019 , 144, 7024-7031	5	10
98	Co-exposure of C60 fullerene with benzo[a]pyrene results in enhanced biological effects in cells as determined by Fourier-transform infrared spectroscopy. <i>Environmental Science: Nano</i> , 2017 , 4, 1404-1418 ⁻¹	7.1	9
97	Biochemical alterations in duckweed and algae induced by carrier solvents: Selection of an appropriate solvent in toxicity testing. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 2631-2639	3.8	9
96	Raman Spectrochemical Analysis Using a Handheld Probe Demonstrates High Predictive Capability of Brain Tumour Status. <i>Biosensors</i> , 2019 , 9,	5.9	9
95	Detecting Endometrial Cancer by Blood Spectroscopy: A Diagnostic Cross-Sectional Study. <i>Cancers</i> , 2020 , 12,	6.6	9
94	A Perspective Discussion on Rising Pesticide Levels and Colon Cancer Burden in Brazil. <i>Frontiers in Public Health</i> , 2017 , 5, 273	6	9
93	The Syrian hamster embryo (SHE) assay (pH 6.7): mechanisms of cell transformation and application of vibrational spectroscopy to objectively score endpoint alterations. <i>Mutagenesis</i> , 2012 , 27, 257-66	2.8	9
92	An investigation into corneal alkali burns using an organ culture model. <i>Cornea</i> , 2009 , 28, 541-6	3.1	9
91	Near-field photothermal microspectroscopy for adult stem-cell identification and characterization. <i>Journal of Microscopy</i> , 2007 , 228, 366-72	1.9	9

90	Non-contact micro-cantilevers detect photothermally induced vibrations that can segregate different categories of exfoliative cervical cytology. <i>Journal of Proteomics</i> , 2007 , 70, 675-7		9
89	Genotoxicity of human breast milk from different countries. <i>Mutagenesis</i> , 2001 , 16, 401-6	2.8	9
88	The proteolytic release of genotoxins from cooked beef. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 293, 1497-501	3.4	9
87	4-Nonylphenol effects on rat testis and sertoli cells determined by spectrochemical techniques coupled with chemometric analysis. <i>Chemosphere</i> , 2019 , 218, 64-75	8.4	9
86	An analysis of benign human prostate offers insights into the mechanism of apocrine secretion and the origin of prostasomes. <i>Scientific Reports</i> , 2019 , 9, 4582	4.9	8
85	Spectrochemical differentiation of meningioma tumours based on attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 1077-1086	4.4	8
84	ATR-FTIR spectroscopy in blood plasma combined with multivariate analysis to detect HIV infection in pregnant women. <i>Scientific Reports</i> , 2020 , 10, 20156	4.9	8
83	Biphasic effects of perfluorooctanoic acid on steroidogenesis in mouse Leydig tumour cells. <i>Reproductive Toxicology</i> , 2019 , 83, 54-62	3.4	8
82	Employing Dietary Comparators to Perform Risk Assessments for Anti-Androgens Without Using Animal Data. <i>Toxicological Sciences</i> , 2019 , 167, 375-384	4.4	8
81	Applying Raman Microspectroscopy to Evaluate the Effects of Nutrient Cations on Alkane Bioavailability to ADP1. <i>Environmental Science & Technology</i> , 2020 , 54, 15800-15810	10.3	7
80	Discrimination of human stem cells by photothermal microspectroscopy. <i>Vibrational Spectroscopy</i> , 2009 , 49, 22-27	2.1	7
79	Raman vs. Fourier transform spectroscopy in diagnostic medicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, E1	11.5	7
78	An observational study of cancers among female partners of UK-resident prostate cancer patients. <i>Cancer Letters</i> , 2006 , 242, 88-94	9.9	7
77	Genotoxicity of Human Milk Extracts and Detection of DNA Damage in Exfoliated Cells Recovered from Breast Milk. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 257, 319-326	3.4	7
76	Attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy to diagnose osteoarthritis in equine serum. <i>Equine Veterinary Journal</i> , 2020 , 52, 46-51	2.4	7
75	The evolving role of MUC16 (CA125) in the transformation of ovarian cells and the progression of neoplasia. <i>Carcinogenesis</i> , 2021 , 42, 327-343	4.6	7
74	Biospectroscopy for Plant and Crop Science. <i>Comprehensive Analytical Chemistry</i> , 2018 , 80, 15-49	1.9	6
73	Underlying role of mitochondrial mutagenesis in the pathogenesis of a disease and current approaches for translational research. <i>Mutagenesis</i> , 2017 , 32, 335-342	2.8	6

72	ATR-FTIR spectroscopy reveals polycyclic aromatic hydrocarbon contamination despite relatively pristine site characteristics: Results of a field study in the Niger Delta. <i>Environment International</i> , 2016 , 89-90, 93-101	12.9	6
71	Phenotyping Metastatic Brain Tumors Applying Spectrochemical Analyses: Segregation of Different Cancer Types. <i>Analytical Letters</i> , 2019 , 52, 575-587	2.2	6
70	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. <i>Applied Spectroscopy</i> , 2014 , 68, 812-22	3.1	6
69	Alterations in the biomolecular signatures of developing chick corneas as determined by biospectroscopy and multivariate analysis 2012 , 53, 1162-8		6
68	Imaging sclera with hard X-ray microscopy. <i>Micron</i> , 2011 , 42, 506-11	2.3	6
67	Classification of test agent-specific effects in the Syrian hamster embryo assay (pH 6.7) using infrared spectroscopy with computational analysis. <i>Mutagenesis</i> , 2012 , 27, 375-82	2.8	6
66	Cell protection by fructose is independent of adenosine triphosphate (ATP) levels in paracetamol injury to rat liver slices. <i>Toxicology</i> , 1996 , 107, 177-87	4.4	6
65	Spectrochemical analysis of liquid biopsy harnessed to multivariate analysis towards breast cancer screening. <i>Scientific Reports</i> , 2020 , 10, 12818	4.9	6
64	A comparative analysis of different biofluids towards ovarian cancer diagnosis using Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 911-922	4.4	6
63	Direct identification and visualisation of real-world contaminating microplastics using Raman spectral mapping with multivariate curve resolution-alternating least squares. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126892	12.8	6
62	Distinguishing nuclei-specific benzo[a]pyrene-induced effects from whole-cell alterations in MCF-7 cells using Fourier-transform infrared spectroscopy. <i>Toxicology</i> , 2015 , 335, 27-34	4.4	5
61	Phages Enter the Fight against Colorectal Cancer. <i>Trends in Cancer</i> , 2019 , 5, 577-579	12.5	5
60	Cytochrome P1B1 (CYP1B1) polymorphisms and ovarian cancer risk: a meta-analysis. <i>Toxicology</i> , 2012 , 302, 157-62	4.4	5
59	An integrated laparoscopic simulator (i-Sim) to develop surgical skills outside the operating theatre: a novel means to improve training facilities in the UK. <i>International Journal of Surgery</i> , 2008 , 6, 64-70	7.5	5
58	Comparison of protection by fructose against paracetamol injury with protection by glucose and fructose-1,6-diphosphate. <i>Toxicology</i> , 1996 , 108, 175-84	4.4	5
57	Intelligent interrogation of mid-IR spectroscopy data from exfoliative cervical cytology using self-learning classifier eClass. <i>International Journal of Computational Intelligence Research</i> , 2008 , 4,	0	5
56	Expression of ER α , its ER α Splice Variant and β SYNUCLEIN in Ovarian Cancer: A Pilot Study. <i>British Journal of Medicine and Medical Research</i> , 2011 , 1, 430-444		5
55	Detection of ovarian cancer (and neo-adjuvant chemotherapy effects) via ATR-FTIR spectroscopy: comparative analysis of blood and urine biofluids in a large patient cohort. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 5095-5107	4.4	5

54	Classification of agents using Syrian hamster embryo (SHE) cell transformation assay (CTA) with ATR-FTIR spectroscopy and multivariate analysis. <i>Mutagenesis</i> , 2015 , 30, 603-12	2.8	4
53	Vibrational spectroscopy: a promising approach to discriminate neurodegenerative disorders. <i>Molecular Neurodegeneration</i> , 2018 , 13, 20	19	4
52	Interrogating the Transient Selectivity of Bacterial Chemotaxis-Driven Affinity and Accumulation of Carbonaceous Substances Raman Microspectroscopy. <i>Frontiers in Microbiology</i> , 2019 , 10, 2215	5.7	4
51	Infrared spectroscopy detects changes in an amphibian cell line induced by fungicides: Comparison of single and mixture effects. <i>Aquatic Toxicology</i> , 2016 , 178, 8-18	5.1	4
50	Discrimination of fresh frozen non-tumour and tumour brain tissue using spectrochemical analyses and a classification model. <i>British Journal of Neurosurgery</i> , 2020 , 34, 40-45	1	4
49	Assessing Binary Mixture Effects from Genotoxic and Endocrine Disrupting Environmental Contaminants Using Infrared Spectroscopy. <i>ACS Omega</i> , 2018 , 3, 13399-13412	3.9	4
48	Genotoxicity of human milk extracts and detection of DNA damage in exfoliated cells recovered from breast milk. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 259, 319-26	3.4	4
47	A human-derived prostate co-culture microtissue model using epithelial (RWPE-1) and stromal (WPMY-1) cell lines. <i>Toxicology in Vitro</i> , 2019 , 60, 203-211	3.6	3
46	Spectrochemical determination of unique bacterial responses following long-term low-level exposure to antimicrobials. <i>Analytical Methods</i> , 2018 , 10, 1602-1611	3.2	3
45	Colourimetric Determination of High-Density Lipoprotein (HDL) Cholesterol Using RedGreenBlue Digital Colour Imaging. <i>Analytical Letters</i> , 2018 , 51, 2860-2867	2.2	3
44	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. <i>Analyst, The</i> , 2013 , 138, 2583-91	5	3
43	Are new technologies translatable to point-of-care testing?. <i>Lancet, The</i> , 2017 , 390, 2765-2766	4.0	3
42	Epigenomics and disease, 10th anniversary winter meeting of the UK Molecular Epidemiology Group (MEG), The Royal Statistical Society, London, UK, 8th December 2006. <i>Mutagenesis</i> , 2007 , 22, 425-427	2.8	3
41	Tracking the Impact of Excisional Cervical Treatment on the Cervix using Biospectroscopy. <i>Scientific Reports</i> , 2016 , 6, 38921	4.9	3
40	Observation of nutrient uptake at the adaxial surface of leaves of tomato (<i>Solanum lycopersicum</i>) using Raman spectroscopy. <i>Analytical Letters</i> , 2020 , 53, 536-562	2.2	3
39	Spectrochemical identification of kanamycin resistance genes in artificial microbial communities using Clover-assay. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 181, 113108	3.5	3
38	Vibrational biospectroscopy characterizes biochemical differences between cell types used for toxicological investigations and identifies alterations induced by environmental contaminants. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 3127-3137	3.8	2
37	Variable Selection Towards Classification of Digital Images: Identification of Altered Glucose Levels in Serum. <i>Analytical Letters</i> , 2019 , 52, 2239-2250	2.2	2

36	Establishing spectrochemical changes in the natural history of oesophageal adenocarcinoma from tissue Raman mapping analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 4077-4087	4.4	2
35	Use of tissue ink to maintain identification of individual cores on needle biopsies of the prostate. <i>Journal of Clinical Pathology</i> , 2008 , 61, 1055-7	3.9	2
34	Donepezil for severe Alzheimer's disease. <i>Lancet, The</i> , 2006 , 368, 361; author reply 362	4.0	2
33	Cell transformation and genotoxicity induced by bis(2, 3-dichloro-1-propyl) ether. <i>Environmental and Molecular Mutagenesis</i> , 2000 , 35, 312-8	3.2	2
32	Morphological transformation of C3H/M2 mouse fibroblasts by, and genotoxicity of, extracts of human milk. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2001 , 498, 207-17	3	2
31	A three-dimensional discriminant analysis approach for hyperspectral images. <i>Analyst, The</i> , 2020 , 145, 5915-5924	5	2
30	Diagnostic segregation of human breast tumours using Fourier-transform infrared spectroscopy coupled with multivariate analysis: Classifying cancer subtypes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 255, 119694	4.4	2
29	Biomarkers in ANCA-Associated Vasculitis: Potential Pitfalls and Future Prospects.. <i>Kidney360</i> , 2021 , 2, 586-597	1.8	2
28	Environmental chemical stressors as epigenome modifiers: a new horizon in assessment of toxicological effects. <i>Science Bulletin</i> , 2014 , 59, 349-355		1
27	An imaging dataset of cervical cells using scanning near-field optical microscopy coupled to an infrared free electron laser. <i>Scientific Data</i> , 2017 , 4, 170084	8.2	1
26	Treatment of breast cancer during pregnancy. <i>Lancet Oncology, The</i> , 2012 , 13, e460	21.7	1
25	The risk of prostate cancer amongst South Asian men in southern England: the PROCESS cohort study. <i>BJU International</i> , 2009 , 103, 553; author reply 553-4	5.6	1
24	Rat Liver Hyperplasia: Polyamine Concentrations Maintained Despite Ornithine Decarboxylase Inhibition. <i>International Journal of Toxicology</i> , 1998 , 17, 35-45	2.4	1
23	Regional differences in clonal Japanese knotweed revealed by chemometrics-linked attenuated total reflection Fourier-transform infrared spectroscopy. <i>BMC Plant Biology</i> , 2021 , 21, 522	5.3	1
22	Ultra-rapid on-site detection of SARS-CoV-2 infection using simple ATR-FTIR spectroscopy and analysis algorithm: high sensitivity and specificity		1
21	Attenuated total reflection Fourier-transform infrared spectroscopy coupled with chemometrics directly detects pre- and post-symptomatic changes in tomato plants infected with <i>Botrytis cinerea</i> . <i>Vibrational Spectroscopy</i> , 2020 , 111, 103171	2.1	1
20	Discrimination of oesophageal transformation stages to adenocarcinoma in human tissue samples using Raman microspectroscopy. <i>Vibrational Spectroscopy</i> , 2020 , 111, 103141	2.1	1
19	Distinguishing active from quiescent disease in ANCA-associated vasculitis using attenuated total reflection Fourier-transform infrared spectroscopy. <i>Scientific Reports</i> , 2021 , 11, 9981	4.9	1

18	Need for early, minimally invasive cancer diagnosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4752	11.5	1
17	Age-Related and Gender-Related Increases in Colorectal Cancer Mortality Rates in Brazil Between 1979 and 2015: Projections for Continuing Rises in Disease. <i>Journal of Gastrointestinal Cancer</i> , 2021 , 52, 280-288	1.6	1
16	A comparative analysis of different biofluids using Raman spectroscopy to determine disease activity in ANCA-associated vasculitis. <i>Journal of Biophotonics</i> , 2021 , 14, e202000426	3.1	1
15	Phenotypic responses in <i>Caenorhabditis elegans</i> following chronic low-level exposures to inorganic and organic compounds. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 920-930	3.8	1
14	Mid-infrared spectral classification of endometrial cancer compared to benign controls in serum or plasma samples. <i>Analyst, The</i> , 2021 , 146, 5631-5642	5	1
13	Fourier transform infrared and Raman-based biochemical profiling of different grades of pure foetal-type hepatoblastoma. <i>Journal of Biophotonics</i> , 2019 , 12, e201800304	3.1	0
12	Vibrational spectroscopy in protein research toward virus identification: challenges, new research, and future perspectives 2020 , 315-335		0
11	Spatial and temporal age-related spectral alterations in benign human breast tissue. <i>Journal of Molecular Structure</i> , 2016 , 1106, 390-398	3.4	0
10	Raman hyperspectral imaging coupled to three-dimensional discriminant analysis: Classification of meningiomas brain tumour grades.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 273, 121018	4.4	0
9	Near-infrared spectroscopy of blood plasma with chemometrics towards HIV discrimination during pregnancy. <i>Scientific Reports</i> , 2021 , 11, 22609	4.9	0
8	The role of T-cells in neurobehavioural development: Insights from the immunodeficient nude mice. <i>Behavioural Brain Research</i> , 2022 , 418, 113629	3.4	0
7	Raman spectroscopy of blood and urine liquid biopsies for ovarian cancer diagnosis: identification of chemotherapy effects. <i>Journal of Biophotonics</i> , 2021 , 14, e202100195	3.1	0
6	Re: Urs E. Studer, Laurence Collette, Peter Whelan, et al. Using PSA to guide timing of androgen deprivation in patients with T0-4 N0-2 M0 prostate cancer not suitable for local curative treatment (EORTC 30891). <i>Eur Urol</i> 2008;53:941-9. <i>European Urology</i> , 2009 , 55, e43-4	10.2	
5	Gene expression profiling of the human prostate zones. <i>BJU International</i> , 2007 , 99, 212; author reply 212	5.6	
4	Stem Cell Imaging 2014 , 4331-4338		
3	Spectrochemical determination of effects on rat liver of binary exposure to benzo[a]pyrene and 2,2',4,4'-tetrabromodiphenyl ether. <i>Journal of Applied Toxicology</i> , 2021 , 41, 1816-1825	4.1	
2	Genotoxicity of human milk extracts and detection of DNA damage in exfoliated cells recovered from breast milk. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 257, 319-26	3.4	
1	Machine Learning Approach Using a Handheld Near-Infrared (NIR) Device to Predict the Effect of Storage Conditions on Tomato Biomarkers. <i>ACS Food Science & Technology</i> , 2022 , 2, 187-194		

