

# Francis L Martin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2022</b> , 273, 121018	4.4	0
304	The role of T-cells in neurobehavioural development: Insights from the immunodeficient nude mice. <i>Behavioural Brain Research</i> , <b>2022</b> , 418, 113629	3.4	0
303	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> , <b>2022</b> , 422, 126892	12.8	6
302	Machine Learning Approach Using a Handheld Near-Infrared (NIR) Device to Predict the Effect of Storage Conditions on Tomato Biomarkers. <i>ACS Food Science &amp; Technology</i> , <b>2022</b> , 2, 187-194		
301	Near-infrared spectroscopy of blood plasma with chemometrics towards HIV discrimination during pregnancy. <i>Scientific Reports</i> , <b>2021</b> , 11, 22609	4.9	0
300	Regional differences in clonal Japanese knotweed revealed by chemometrics-linked attenuated total reflection Fourier-transform infrared spectroscopy. <i>BMC Plant Biology</i> , <b>2021</b> , 21, 522	5.3	1
299	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> , <b>2021</b> , 41, 1816-1825	4.1	
298	Distinguishing active from quiescent disease in ANCA-associated vasculitis using attenuated total reflection Fourier-transform infrared spectroscopy. <i>Scientific Reports</i> , <b>2021</b> , 11, 9981	4.9	1
297	Raman spectroscopy of blood and urine liquid biopsies for ovarian cancer diagnosis: identification of chemotherapy effects. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202100195	3.1	0
296	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> , <b>2021</b> , 255, 119694	4.4	2
295	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> , <b>2021</b> , 52, 280-288	1.6	1
294	A comparative analysis of different biofluids towards ovarian cancer diagnosis using Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 911-922	4.4	6
293	A comparative analysis of different biofluids using Raman spectroscopy to determine disease activity in ANCA-associated vasculitis. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202000426	3.1	1
292	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> , <b>2021</b> , 93, 2950-2958	7.8	32
291	The evolving role of MUC16 (CA125) in the transformation of ovarian cells and the progression of neoplasia. <i>Carcinogenesis</i> , <b>2021</b> , 42, 327-343	4.6	7
290	Detection of ovarian cancer (± 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> , <b>2021</b> , 413, 5095-5107	4.4	5
289	Mid-infrared spectral classification of endometrial cancer compared to benign controls in serum or plasma samples. <i>Analyst, The</i> , <b>2021</b> , 146, 5631-5642	5	1

288	Biomarkers in ANCA-Associated Vasculitis: Potential Pitfalls and Future Prospects.. <i>Kidney360</i> , <b>2021</b> , 2, 586-597	1.8	2
287	Applying Raman Microspectroscopy to Evaluate the Effects of Nutrient Cations on Alkane Bioavailability to ADP1. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 15800-15810	10.3	7
286	Detecting Endometrial Cancer by Blood Spectroscopy: A Diagnostic Cross-Sectional Study. <i>Cancers</i> , <b>2020</b> , 12,	6.6	9
285	Diagnostic Biomarkers for Alzheimer's Disease Using Non-Invasive Specimens. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	12
284	Tutorial: multivariate classification for vibrational spectroscopy in biological samples. <i>Nature Protocols</i> , <b>2020</b> , 15, 2143-2162	18.8	73
283	Vibrational spectroscopy in protein research toward virus identification: challenges, new research, and future perspectives <b>2020</b> , 315-335		0
282	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> , <b>2020</b> ,	3.5	12
281	Establishing spectrochemical changes in the natural history of oesophageal adenocarcinoma from tissue Raman mapping analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 4077-4087	4.4	2
280	Raman spectroscopy as a potential diagnostic tool to analyse biochemical alterations in lung cancer. <i>Analyst, The</i> , <b>2020</b> , 145, 385-392	5	14
279	Spectrochemical differentiation of meningioma tumours based on attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 1077-1086	4.4	8
278	Gene-environment interactions between GSTs polymorphisms and targeted epigenetic alterations in hepatocellular carcinoma following organochlorine pesticides (OCPs) exposure. <i>Environment International</i> , <b>2020</b> , 134, 105313	12.9	10
277	Raman spectral discrimination in human liquid biopsies of oesophageal transformation to adenocarcinoma. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960132	3.1	13
276	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> , <b>2020</b> , 111, 103171	2.1	1
275	A three-dimensional discriminant analysis approach for hyperspectral images. <i>Analyst, The</i> , <b>2020</b> , 145, 5915-5924	5	2
274	Spectrochemical analysis of liquid biopsy harnessed to multivariate analysis towards breast cancer screening. <i>Scientific Reports</i> , <b>2020</b> , 10, 12818	4.9	6
273	Spectrochemical analysis in blood plasma combined with subsequent chemometrics for fibromyalgia detection. <i>Scientific Reports</i> , <b>2020</b> , 10, 11769	4.9	10
272	Discrimination of oesophageal transformation stages to adenocarcinoma in human tissue samples using Raman microspectroscopy. <i>Vibrational Spectroscopy</i> , <b>2020</b> , 111, 103141	2.1	1
271	ATR-FTIR spectroscopy in blood plasma combined with multivariate analysis to detect HIV infection in pregnant women. <i>Scientific Reports</i> , <b>2020</b> , 10, 20156	4.9	8

270	Attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy to diagnose osteoarthritis in equine serum. <i>Equine Veterinary Journal</i> , <b>2020</b> , 52, 46-51	2.4	7
269	Discrimination of fresh frozen non-tumour and tumour brain tissue using spectrochemical analyses and a classification model. <i>British Journal of Neurosurgery</i> , <b>2020</b> , 34, 40-45	1	4
268	Observation of nutrient uptake at the adaxial surface of leaves of tomato ( <i>Solanum lycopersicum</i> ) using Raman spectroscopy. <i>Analytical Letters</i> , <b>2020</b> , 53, 536-562	2.2	3
267	Spectrochemical identification of kanamycin resistance genes in artificial microbial communities using Clover-assay. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2020</b> , 181, 113108	3.5	3
266	ATR-FTIR spectroscopy non-destructively detects damage-induced sour rot infection in whole tomato fruit. <i>Planta</i> , <b>2019</b> , 249, 925-939	4.7	19
265	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> , <b>2019</b> , 144, 2312-2319	5	16
264	Determination of developmental and ripening stages of whole tomato fruit using portable infrared spectroscopy and Chemometrics. <i>BMC Plant Biology</i> , <b>2019</b> , 19, 236	5.3	15
263	A human-derived prostate co-culture microtissue model using epithelial (RWPE-1) and stromal (WPMY-1) cell lines. <i>Toxicology in Vitro</i> , <b>2019</b> , 60, 203-211	3.6	3
262	Improving data splitting for classification applications in spectrochemical analyses employing a random-mutation Kennard-Stone algorithm approach. <i>Bioinformatics</i> , <b>2019</b> , 35, 5257-5263	7.2	39
261	New approach to investigate Common Variable Immunodeficiency patients using spectrochemical analysis of blood. <i>Scientific Reports</i> , <b>2019</b> , 9, 7239	4.9	12
260	Fourier transform infrared and Raman-based biochemical profiling of different grades of pure foetal-type hepatoblastoma. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800304	3.1	0
259	Variable Selection Towards Classification of Digital Images: Identification of Altered Glucose Levels in Serum. <i>Analytical Letters</i> , <b>2019</b> , 52, 2239-2250	2.2	2
258	An analysis of benign human prostate offers insights into the mechanism of apocrine secretion and the origin of prostasomes. <i>Scientific Reports</i> , <b>2019</b> , 9, 4582	4.9	8
257	Raman Spectrochemical Analysis Using a Handheld Probe Demonstrates High Predictive Capability of Brain Tumour Status. <i>Biosensors</i> , <b>2019</b> , 9,	5.9	9
256	Phthalate side-chain structures and hydrolysis metabolism associated with steroidogenic effects in MLTC-1 Leydig cells. <i>Toxicology Letters</i> , <b>2019</b> , 308, 56-64	4.4	11
255	TTWD-DA: A MATLAB toolbox for discriminant analysis based on trilinear three-way data. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2019</b> , 188, 46-53	3.8	10
254	Standardization of complex biologically derived spectrochemical datasets. <i>Nature Protocols</i> , <b>2019</b> , 14, 1546-1577	18.8	61
253	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> , <b>2019</b> , 206, 89-96	4.4	12

252	Phenotyping Metastatic Brain Tumors Applying Spectrochemical Analyses: Segregation of Different Cancer Types. <i>Analytical Letters</i> , <b>2019</b> , 52, 575-587	2.2	6
251	Interrogating the Transient Selectivity of Bacterial Chemotaxis-Driven Affinity and Accumulation of Carbonaceous Substances Raman Microspectroscopy. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2215	5.7	4
250	Phages Enter the Fight against Colorectal Cancer. <i>Trends in Cancer</i> , <b>2019</b> , 5, 577-579	12.5	5
249	Need for early, minimally invasive cancer diagnosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 4752	11.5	1
248	Determination of meningioma brain tumour grades using Raman microspectroscopy imaging. <i>Analyst, The</i> , <b>2019</b> , 144, 7024-7031	5	10
247	Attenuated total reflection Fourier-transform infrared spectral discrimination in human bodily fluids of oesophageal transformation to adenocarcinoma. <i>Analyst, The</i> , <b>2019</b> , 144, 7447-7456	5	24
246	Biphasic effects of perfluorooctanoic acid on steroidogenesis in mouse Leydig tumour cells. <i>Reproductive Toxicology</i> , <b>2019</b> , 83, 54-62	3.4	8
245	4-Nonylphenol effects on rat testis and sertoli cells determined by spectrochemical techniques coupled with chemometric analysis. <i>Chemosphere</i> , <b>2019</b> , 218, 64-75	8.4	9
244	Uncertainty estimation and misclassification probability for classification models based on discriminant analysis and support vector machines. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1063, 40-46	6.6	17
243	Employing Dietary Comparators to Perform Risk Assessments for Anti-Androgens Without Using Animal Data. <i>Toxicological Sciences</i> , <b>2019</b> , 167, 375-384	4.4	8
242	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , <b>2018</b> , 143, 1735-1757	5	114
241	Spectrochemical determination of unique bacterial responses following long-term low-level exposure to antimicrobials. <i>Analytical Methods</i> , <b>2018</b> , 10, 1602-1611	3.2	3
240	Phthalates Induce Androgenic Effects at Exposure Levels That Can Be Environmentally Relevant in Humans. <i>Environmental Science and Technology Letters</i> , <b>2018</b> , 5, 232-236	11	19
239	Progress and Challenges in the Diagnosis of Dementia: A Critical Review. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 446-461	5.7	16
238	Occupational Exposure to Polycyclic Aromatic Hydrocarbons and Elevated Cancer Incidence in Firefighters. <i>Scientific Reports</i> , <b>2018</b> , 8, 2476	4.9	65
237	Spectrochemical analyses of growth phase-related bacterial responses to low (environmentally-relevant) concentrations of tetracycline and nanoparticulate silver. <i>Analyst, The</i> , <b>2018</b> , 143, 768-776	5	12
236	Biospectroscopy for Plant and Crop Science. <i>Comprehensive Analytical Chemistry</i> , <b>2018</b> , 80, 15-49	1.9	6
235	Functional Single-Cell Approach to Probing Nitrogen-Fixing Bacteria in Soil Communities by Resonance Raman Spectroscopy with N Labeling. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5082-5089	7.8	43

234	Aluminium foil as an alternative substrate for the spectroscopic interrogation of endometrial cancer. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700372	3.1	10
233	Increased exposure to pesticides and colon cancer: Early evidence in Brazil. <i>Chemosphere</i> , <b>2018</b> , 209, 623-631	8.4	33
232	Vibrational spectroscopy: a promising approach to discriminate neurodegenerative disorders. <i>Molecular Neurodegeneration</i> , <b>2018</b> , 13, 20	19	4
231	ATR-FTIR Spectroscopy Tools for Medical Diagnosis and Disease Investigation <b>2018</b> , 163-211		12
230	Colourimetric Determination of High-Density Lipoprotein (HDL) Cholesterol Using RedGreenBlue Digital Colour Imaging. <i>Analytical Letters</i> , <b>2018</b> , 51, 2860-2867	2.2	3
229	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> , <b>2018</b> , 410, 4541-4554	4.4	15
228	Blood-based near-infrared spectroscopy for the rapid low-cost detection of Alzheimer's disease. <i>Analyst, The</i> , <b>2018</b> , 143, 5959-5964	5	18
227	Raman Spectroscopy to Diagnose Alzheimer's Disease and Dementia with Lewy Bodies in Blood. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 2786-2794	5.7	38
226	Potential of mid-infrared spectroscopy as a non-invasive diagnostic test in urine for endometrial or ovarian cancer. <i>Analyst, The</i> , <b>2018</b> , 143, 3156-3163	5	32
225	Phenotypic responses in <i>Caenorhabditis elegans</i> following chronic low-level exposures to inorganic and organic compounds. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 920-930	3.8	1
224	Assessing Binary Mixture Effects from Genotoxic and Endocrine Disrupting Environmental Contaminants Using Infrared Spectroscopy. <i>ACS Omega</i> , <b>2018</b> , 3, 13399-13412	3.9	4
223	Carcinogens and DNA damage. <i>Biochemical Society Transactions</i> , <b>2018</b> , 46, 1213-1224	5.1	114
222	Raman spectroscopic techniques to detect ovarian cancer biomarkers in blood plasma. <i>Talanta</i> , <b>2018</b> , 189, 281-288	6.2	31
221	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> , <b>2017</b> , 32, 739-753	4.2	36
220	Fourier-transform infrared spectroscopy as a novel approach to providing effect-based endpoints in duckweed toxicity testing. <i>Environmental Toxicology and Chemistry</i> , <b>2017</b> , 36, 346-353	3.8	13
219	Quantification of Chemotaxis-Related Alkane Accumulation in <i>Acinetobacter baylyi</i> Using Raman Microspectroscopy. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3909-3918	7.8	18
218	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> , <b>2017</b> , 4, 1404-1418	7.1	9
217	Fingerprinting microbiomes towards screening for microbial antibiotic resistance. <i>Integrative Biology (United Kingdom)</i> , <b>2017</b> , 9, 406-417	3.7	21



216	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> , <b>2017</b> , 36, 3127-3137	3.8	2
215	Diagnose Pathogens in Drinking Water via Magnetic Surface-Enhanced Raman Scattering (SERS) Assay. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 25-31	1.4	14
214	Biochemical alterations in duckweed and algae induced by carrier solvents: Selection of an appropriate solvent in toxicity testing. <i>Environmental Toxicology and Chemistry</i> , <b>2017</b> , 36, 2631-2639	3.8	9
213	Detecting nutrient deficiency in plant systems using synchrotron Fourier-transform infrared microspectroscopy. <i>Vibrational Spectroscopy</i> , <b>2017</b> , 90, 46-55	2.1	15
212	Subtle effects of environmental stress observed in the early life stages of the Common frog, <i>Rana temporaria</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 44438	4.9	16
211	4-Nonylphenol induces autophagy and attenuates mTOR-p70S6K/4EBP1 signaling by modulating AMPK activation in Sertoli cells. <i>Toxicology Letters</i> , <b>2017</b> , 267, 21-31	4.4	44
210	Underlying role of mitochondrial mutagenesis in the pathogenesis of a disease and current approaches for translational research. <i>Mutagenesis</i> , <b>2017</b> , 32, 335-342	2.8	6
209	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> , <b>2017</b> , 114, E7929-E7938	11.5	79
208	Infrared Spectroscopy Coupled with a Dispersion Model for Quantifying the Real-Time Dynamics of Kanamycin Resistance in Artificial Microbiota. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9814-9821	7.8	21
207	Levels of Organochlorine Pesticides Are Associated with Amyloid Aggregation in Apex Avian Brains. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 8672-8681	10.3	13
206	An imaging dataset of cervical cells using scanning near-field optical microscopy coupled to an infrared free electron laser. <i>Scientific Data</i> , <b>2017</b> , 4, 170084	8.2	1
205	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> , <b>2017</b> , 32, 91-103	2.8	18
204	Are new technologies translatable to point-of-care testing?. <i>Lancet, The</i> , <b>2017</b> , 390, 2765-2766	4.0	3
203	A Perspective Discussion on Rising Pesticide Levels and Colon Cancer Burden in Brazil. <i>Frontiers in Public Health</i> , <b>2017</b> , 5, 273	6	9
202	ATR-FTIR spectroscopy coupled with chemometric analysis discriminates normal, borderline and malignant ovarian tissue: classifying subtypes of human cancer. <i>Analyst, The</i> , <b>2016</b> , 141, 585-94	5	66
201	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> , <b>2016</b> , 6, 20207	4.9	49
200	Imaging cervical cytology with scanning near-field optical microscopy (SNOM) coupled with an IR-FEL. <i>Scientific Reports</i> , <b>2016</b> , 6, 29494	4.9	14
199	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> , <b>2016</b> , 89-90, 93-101	12.9	6

198	Surface-Enhanced Raman Spectroscopy for Identification of Heavy Metal Arsenic(V)-Mediated Enhancing Effect on Antibiotic Resistance. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3164-70	7.8	38
197	Using Raman spectroscopy to characterize biological materials. <i>Nature Protocols</i> , <b>2016</b> , 11, 664-87	18.8	570
196	Aluminium foil as a potential substrate for ATR-FTIR, transfection FTIR or Raman spectrochemical analysis of biological specimens. <i>Analytical Methods</i> , <b>2016</b> , 8, 481-487	3.2	71
195	Biospectroscopy reveals the effect of varying water quality on tadpole tissues of the common frog ( <i>Rana temporaria</i> ). <i>Environmental Pollution</i> , <b>2016</b> , 213, 322-337	9.3	14
194	Spatial and temporal age-related spectral alterations in benign human breast tissue. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1106, 390-398	3.4	0
193	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> , <b>2016</b> , 541, 1243-1252	10.2	20
192	Tracking the Impact of Excisional Cervical Treatment on the Cervix using Biospectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 38921	4.9	3
191	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> , <b>2016</b> , 70, 741-5	5.1	104
190	Risk assessment of environmental mixture effects. <i>RSC Advances</i> , <b>2016</b> , 6, 47844-47857	3.7	102
189	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> , <b>2016</b> , 29, 924-32	4	17
188	Spectrochemical analysis of sycamore ( <i>Acer pseudoplatanus</i> ) leaves for environmental health monitoring. <i>Analyst, The</i> , <b>2016</b> , 141, 2896-903	5	17
187	Effects of 4-nonylphenol on spermatogenesis and induction of testicular apoptosis through oxidative stress-related pathways. <i>Reproductive Toxicology</i> , <b>2016</b> , 62, 27-38	3.4	31
186	Infrared spectroscopy detects changes in an amphibian cell line induced by fungicides: Comparison of single and mixture effects. <i>Aquatic Toxicology</i> , <b>2016</b> , 178, 8-18	5.1	4
185	Distinguishing nuclei-specific benzo[a]pyrene-induced effects from whole-cell alterations in MCF-7 cells using Fourier-transform infrared spectroscopy. <i>Toxicology</i> , <b>2015</b> , 335, 27-34	4.4	5
184	Extracting biomarkers of commitment to cancer development: potential role of vibrational spectroscopy in systems biology. <i>Expert Review of Molecular Diagnostics</i> , <b>2015</b> , 15, 693-713	3.8	15
183	Towards a non-animal risk assessment for anti-androgenic effects in humans. <i>Environment International</i> , <b>2015</b> , 83, 94-106	12.9	18
182	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. <i>Carcinogenesis</i> , <b>2015</b> , 36 Suppl 1, S254-96	4.6	176
181	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> , <b>2015</b> , 201, 42-9	9.3	13



180	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> , <b>2015</b> , 140, 2687-95	5	45
179	Gold nanoparticles as a substrate in bio-analytical near-infrared surface-enhanced Raman spectroscopy. <i>Analyst, The</i> , <b>2015</b> , 140, 3090-7	5	27
178	Application of vibrational spectroscopy techniques to non-destructively monitor plant health and development. <i>Analytical Methods</i> , <b>2015</b> , 7, 4059-4070	3.2	51
177	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> , <b>2015</b> , 31, 832-9	2.8	37
176	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> , <b>2015</b> , 87, 282-91	12.5	31
175	Classification of agents using Syrian hamster embryo (SHE) cell transformation assay (CTA) with ATR-FTIR spectroscopy and multivariate analysis. <i>Mutagenesis</i> , <b>2015</b> , 30, 603-12	2.8	4
174	Metabolic reprogramming and dysregulated metabolism: cause, consequence and/or enabler of environmental carcinogenesis?. <i>Carcinogenesis</i> , <b>2015</b> , 36 Suppl 1, S203-31	4.6	61
173	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> , <b>2015</b> , 5, 13465	4.9	13
172	Carbon nanomaterials in clean and contaminated soils: environmental implications and applications. <i>Soil</i> , <b>2015</b> , 1, 1-21	5.8	15
171	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> , <b>2015</b> , 196, 431-9	9.3	49
170	Selenite-induced toxicity in cancer cells is mediated by metabolic generation of endogenous selenium nanoparticles. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 1127-36	5.6	41
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32	Low dose induction of micronuclei by lindane. <i>Carcinogenesis</i> , <b>2004</b> , 25, 613-22	4.6	59
31	CYP1B1 expression in prostate is higher in the peripheral than in the transition zone. <i>Cancer Letters</i> , <b>2004</b> , 215, 69-78	9.9	53
30	Alpha-synuclein and the pathogenesis of Parkinson's disease. <i>Protein and Peptide Letters</i> , <b>2004</b> , 11, 229-37	22	
29	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> , <b>2003</b> , 87, 620-30	6	36
28	Oestrogens induce G(1) arrest in benzo[a]pyrene-treated MCF-7 breast cells whilst enhancing genotoxicity and clonogenic survival. <i>Mutagenesis</i> , <b>2002</b> , 17, 431-8	2.8	12
27	Mutagens in human breast lipid and milk: the search for environmental agents that initiate breast cancer. <i>Environmental and Molecular Mutagenesis</i> , <b>2002</b> , 39, 143-9	3.2	15
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25	The initiation of breast and prostate cancer. <i>Carcinogenesis</i> , <b>2002</b> , 23, 1095-102	4.6	55
24	Genotoxic effects of oestrogens in breast cells detected by the micronucleus assay and the Comet assay. <i>Mutagenesis</i> , <b>2002</b> , 17, 345-52	2.8	69
23	The proteolytic release of genotoxins from cooked beef. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 293, 1497-501	3.4	9
22	Genotoxicity of human breast milk from different countries. <i>Mutagenesis</i> , <b>2001</b> , 16, 401-6	2.8	9
21	Morphological transformation of C3H/M2 mouse fibroblasts by, and genotoxicity of, extracts of human milk. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2001</b> , 498, 207-17	3	2
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16	Metabolic activation of carcinogens and expression of various cytochromes P450 in human prostate tissue. <i>Carcinogenesis</i> , <b>2000</b> , 21, 1683-9	4.6	114
15	Activation of genotoxins to DNA-damaging species in exfoliated breast milk cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2000</b> , 470, 115-24	3	24
14	Heterocyclic aromatic amines induce DNA strand breaks and cell transformation. <i>Carcinogenesis</i> , <b>1999</b> , 20, 545-51	4.6	86
13	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> , <b>1999</b> , 445, 21-43	3	66
12	Genotoxicity of Human Milk Extracts and Detection of DNA Damage in Exfoliated Cells Recovered from Breast Milk. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 257, 319-326	3.4	7
11	Genotoxicity of human milk extracts and detection of DNA damage in exfoliated cells recovered from breast milk. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 257, 319-26	3.4	
10	Genotoxicity of human milk extracts and detection of DNA damage in exfoliated cells recovered from breast milk. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 259, 319-26	3.4	4
9	Morphological transformation of C3H/M2 mouse fibroblasts by extracts of human mammary lipid. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 251, 182-9	3.4	11
8	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> , <b>1998</b> , 21, 477-94	2.3	59
7	Rat Liver Hyperplasia: Polyamine Concentrations Maintained Despite Ornithine Decarboxylase Inhibition. <i>International Journal of Toxicology</i> , <b>1998</b> , 17, 35-45	2.4	1
6	DNA damage in breast epithelial cells: detection by the single-cell gel (comet) assay and induction by human mammary lipid extracts. <i>Carcinogenesis</i> , <b>1997</b> , 18, 2299-305	4.6	35
5	Comparison of protection by fructose against paracetamol injury with protection by glucose and fructose-1,6-diphosphate. <i>Toxicology</i> , <b>1996</b> , 108, 175-84	4.4	5
4	Cell protection by fructose is independent of adenosine triphosphate (ATP) levels in paracetamol injury to rat liver slices. <i>Toxicology</i> , <b>1996</b> , 107, 177-87	4.4	6
3	Genotoxicity of human mammary lipid. <i>Cancer Research</i> , <b>1996</b> , 56, 5342-6	10.1	30
2	Adenosine triphosphate (ATP) levels in paracetamol-induced cell injury in the rat in vivo and in vitro. <i>Toxicology</i> , <b>1995</b> , 104, 91-7	4.4	22
1	Ultra-rapid on-site detection of SARS-CoV-2 infection using simple ATR-FTIR spectroscopy and analysis algorithm: high sensitivity and specificity		1

