David I Ellis

List of Publications by Year in Descending Order

56 papers	5,391 citations	32 h-index	61 g-index
61 ext. papers	6,009 ext. citations	6.5 avg, IF	5.74 L-index

#	Paper	IF	Citations
56	Portable through Bottle SORS for the Authentication of Extra Virgin Olive Oil. *Applied Sciences (Switzerland)*, **2021**, 11, 8347	2.6	4
55	Rapid differentiation of Campylobacter jejuni cell wall mutants using Raman spectroscopy, SERS and mass spectrometry combined with chemometrics. *Analyst, The*, **2020**, 145, 1236-1249	5	11
54	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. *Analytical Chemistry*, **2020**, 92, 15745-15756	7.8	22
53	Detection of the adulteration of fresh coconut water via NMR spectroscopy and chemometrics. *Analyst, The*, **2019**, 144, 1401-1408	5	11
52	Rapid Detection and Quantification of Novel Psychoactive Substances (NPS) Using Raman Spectroscopy and Surface-Enhanced Raman Scattering. *Frontiers in Chemistry*, **2019**, 7, 412	5	16
51	Enhancing Disease Diagnosis: Biomedical Applications of Surface-Enhanced Raman Scattering. *Applied Sciences (Switzerland)*, **2019**, 9, 1163	2.6	32
50	Rapid quantification of the adulteration of fresh coconut water by dilution and sugars using Raman spectroscopy and chemometrics. *Food Chemistry*, **2019**, 272, 157-164	8.5	26
49	Omics Methods For the Detection of Foodborne Pathogens **2019**, 364-370		3
48	Omics approaches for food analysis and authentication. *Current Opinion in Food Science*, **2019**, 28, v-vi	9.8	1
47	Rapid through-container detection of fake spirits and methanol quantification with handheld Raman spectroscopy. *Analyst, The*, **2018**, 144, 324-330	5	31
46	Surface-Enhanced Raman Scattering (SERS) in Microbiology: Illumination and Enhancement of the Microbial World. *Applied Spectroscopy*, **2018**, 72, 987-1000	3.1	43
45	Quantitative detection of codeine in human plasma using surface-enhanced Raman scattering via adaptation of the isotopic labelling principle. *Analyst, The*, **2017**, 142, 1099-1105	5	23
44	Quantitative Online Liquid Chromatography-Surface-Enhanced Raman Scattering (LC-SERS) of Methotrexate and its Major Metabolites. *Analytical Chemistry*, **2017**, 89, 6702-6709	7.8	44
43	Through-container, extremely low concentration detection of multiple chemical markers of counterfeit alcohol using a handheld SORS device. *Scientific Reports*, **2017**, 7, 12082	4.9	42
42	Towards improved quantitative analysis using surface-enhanced Raman scattering incorporating internal isotope labelling. *Analytical Methods*, **2017**, 9, 6636-6644	3.2	15
41	Rapid, accurate, and comparative differentiation of clinically and industrially relevant microorganisms via multiple vibrational spectroscopic fingerprinting. *Analyst, The*, **2016**, 141, 5127-36	5	35
40	A flavour of omics approaches for the detection of food fraud. *Current Opinion in Food Science*, **2016**, 10, 7-15	9.8	47

39	Rapid discrimination of Enterococcus faecium strains using phenotypic analytical techniques. *Analytical Methods*, **2016**, 8, 7603-7613	3.2	6
38	Rapid, high-throughput, and quantitative determination of orange juice adulteration by Fourier-transform infrared spectroscopy. *Analytical Methods*, **2016**, 8, 5581-5586	3.2	23
37	Metabolic analysis of the response of DOT-T1E strains to toluene using Fourier transform infrared spectroscopy and gas chromatography mass spectrometry. *Metabolomics*, **2016**, 12, 112	4.7	7
36	Meat, the metabolites: an integrated metabolite profiling and lipidomics approach for the detection of the adulteration of beef with pork. *Analyst, The*, **2016**, 141, 2155-64	5	69
35	Chicken, beams, and Campylobacter: rapid differentiation of foodborne bacteria via vibrational spectroscopy and MALDI-mass spectrometry. *Analyst, The*, **2016**, 141, 111-22	5	31
34	Biochemical Analyses of Sorghum Varieties Reveal Differential Responses to Drought. *PLoS ONE*, **2016**, 11, e0154423	3.7	36
33	Metabolomics Analysis Reveals the Participation of Efflux Pumps and Ornithine in the Response of Pseudomonas putida DOT-T1E Cells to Challenge with Propranolol. *PLoS ONE*, **2016**, 11, e0156509	3.7	8
32	Rapid, Accurate, and Quantitative Detection of Propranolol in Multiple Human Biofluids via Surface-Enhanced Raman Scattering. *Analytical Chemistry*, **2016**, 88, 10884-10892	7.8	35
31	Molecular phenotyping of a UK population: defining the human serum metabolome. *Metabolomics*, **2015**, 11, 9-26	4.7	167
30	Point-and-shoot: rapid quantitative detection methods for on-site food fraud analysis □moving out of the laboratory and into the food supply chain. *Analytical Methods*, **2015**, 7, 9401-9414	3.2	149
29	Metabolomics investigation of recombinant mTNF□production in Streptomyces lividans. *Microbial Cell Factories*, **2015**, 14, 157	6.4	15
28	Metabolic Profiling of Geobacter sulfurreducens during Industrial Bioprocess Scale-Up. *Applied and Environmental Microbiology*, **2015**, 81, 3288-98	4.8	21
27	A tutorial review: Metabolomics and partial least squares-discriminant analysis--a marriage of convenience or a shotgun wedding. *Analytica Chimica Acta*, **2015**, 879, 10-23	6.6	478
26	A comparative investigation of modern feature selection and classification approaches for the analysis of mass spectrometry data. *Analytica Chimica Acta*, **2014**, 829, 1-8	6.6	81
25	Influence of missing values substitutes on multivariate analysis of metabolomics data. *Metabolites*, **2014**, 4, 433-52	5.6	115
24	Illuminating disease and enlightening biomedicine: Raman spectroscopy as a diagnostic tool. *Analyst, The*, **2013**, 138, 3871-84	5	130
23	Metabolomics-assisted synthetic biology. *Current Opinion in Biotechnology*, **2012**, 23, 22-8	11.4	50
22	Fingerprinting food: current technologies for the detection of food adulteration and contamination. *Chemical Society Reviews*, **2012**, 41, 5706-27	58.5	283

21	Rapid reagentless quantification of alginate biosynthesis in Pseudomonas fluorescens bacteria mutants using FT-IR spectroscopy coupled to multivariate partial least squares regression. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 2591-9	4.4	16
20	A GC-TOF-MS study of the stability of serum and urine metabolomes during the UK Biobank sample collection and preparation protocols. *International Journal of Epidemiology*, **2008**, 37 Suppl 1, i23-30	7.8	106
19	Metabolomic technologies and their application to the study of plants and plant-host interactions. *Physiologia Plantarum*, **2008**, 132, 117-35	4.6	165
18	From phenotype to genotype: whole tissue profiling for plant breeding. *Metabolomics*, **2007**, 3, 489-501	4.7	12
17	Serum metabolomics reveals many novel metabolic markers of heart failure, including pseudouridine and 2-oxoglutarate. *Metabolomics*, **2007**, 3, 413-426	4.7	124
16	Metabolic fingerprinting as a diagnostic tool. *Pharmacogenomics*, **2007**, 8, 1243-66	2.6	313
15	Quantitative detection and identification methods for microbial spoilage **2006**, 3-27		4
14	Huntington disease patients and transgenic mice have similar pro-catabolic serum metabolite profiles. *Brain*, **2006**, 129, 877-86	11.2	155
13	Metabolomic approaches reveal that phosphatidic and phosphatidyl glycerol phospholipids are major discriminatory non-polar metabolites in responses by Brachypodium distachyon to challenge by Magnaporthe grisea. *Plant Journal*, **2006**, 46, 351-68	6.9	110
12	Metabolic fingerprinting in disease diagnosis: biomedical applications of infrared and Raman spectroscopy. *Analyst, The*, **2006**, 131, 875-85	5	458
11	The rapid differentiation of Streptomyces isolates using Fourier transform infrared spectroscopy. *Vibrational Spectroscopy*, **2006**, 40, 213-218	2.1	31
10	Genomes to systems 3. *Metabolomics*, **2006**, 2, 165-170	4.7	
9	Rapid identification of closely related muscle foods by vibrational spectroscopy and machine learning. *Analyst, The*, **2005**, 130, 1648-54	5	94
8	Metabolomics: Current analytical platforms and methodologies. *TrAC - Trends in Analytical Chemistry*, **2005**, 24, 285-294	14.6	820
7	Novel biomarkers for pre-eclampsia detected using metabolomics and machine learning. *Metabolomics*, **2005**, 1, 227-234	4.7	95
6	A metabolome pipeline: from concept to data to knowledge. *Metabolomics*, **2005**, 1, 39-51	4.7	138
5	Rapid and quantitative detection of the microbial spoilage of beef by Fourier transform infrared spectroscopy and machine learning. *Analytica Chimica Acta*, **2004**, 514, 193-201	6.6	105
4	Functional genomics via metabolic footprinting: monitoring metabolite secretion by Escherichia coli tryptophan metabolism mutants using FT-IR and direct injection electrospray mass spectrometry. *Comparative and Functional Genomics*, **2003**, 4, 376-91		104

3	Metabolic Fingerprinting with Fourier Transform Infrared Spectroscopy **2003**, 111-124		16
2	Rapid and quantitative detection of the microbial spoilage of meat by fourier transform infrared spectroscopy and machine learning. *Applied and Environmental Microbiology*, **2002**, 68, 2822-8	4.8	240
1	Rapid and quantitative detection of the microbial spoilage of muscle foods: current status and future trends. *Trends in Food Science and Technology*, **2001**, 12, 414-424	15.3	159