

David I Ellis

List of Publications by Citations

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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	Metabolomics: Current analytical platforms and methodologies. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 285-294	14.6	820
55	A tutorial review: Metabolomics and partial least squares-discriminant analysis--a marriage of convenience or a shotgun wedding. <i>Analytica Chimica Acta</i> , 2015 , 879, 10-23	6.6	478
54	Metabolic fingerprinting in disease diagnosis: biomedical applications of infrared and Raman spectroscopy. <i>Analyst, The</i> , 2006 , 131, 875-85	5	458
53	Metabolic fingerprinting as a diagnostic tool. <i>Pharmacogenomics</i> , 2007 , 8, 1243-66	2.6	313
52	Fingerprinting food: current technologies for the detection of food adulteration and contamination. <i>Chemical Society Reviews</i> , 2012 , 41, 5706-27	58.5	283
51	Rapid and quantitative detection of the microbial spoilage of meat by fourier transform infrared spectroscopy and machine learning. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 2822-8	4.8	240
50	Molecular phenotyping of a UK population: defining the human serum metabolome. <i>Metabolomics</i> , 2015 , 11, 9-26	4.7	167
49	Metabolomic technologies and their application to the study of plants and plant-host interactions. <i>Physiologia Plantarum</i> , 2008 , 132, 117-35	4.6	165
48	Rapid and quantitative detection of the microbial spoilage of muscle foods: current status and future trends. <i>Trends in Food Science and Technology</i> , 2001 , 12, 414-424	15.3	159
47	Huntington disease patients and transgenic mice have similar pro-catabolic serum metabolite profiles. <i>Brain</i> , 2006 , 129, 877-86	11.2	155
46	Point-and-shoot: rapid quantitative detection methods for on-site food fraud analysis [moving out of the laboratory and into the food supply chain. <i>Analytical Methods</i> , 2015 , 7, 9401-9414	3.2	149
45	A metabolome pipeline: from concept to data to knowledge. <i>Metabolomics</i> , 2005 , 1, 39-51	4.7	138
44	Illuminating disease and enlightening biomedicine: Raman spectroscopy as a diagnostic tool. <i>Analyst, The</i> , 2013 , 138, 3871-84	5	130
43	Serum metabolomics reveals many novel metabolic markers of heart failure, including pseudouridine and 2-oxoglutarate. <i>Metabolomics</i> , 2007 , 3, 413-426	4.7	124
42	Influence of missing values substitutes on multivariate analysis of metabolomics data. <i>Metabolites</i> , 2014 , 4, 433-52	5.6	115
41	Metabolomic approaches reveal that phosphatidic and phosphatidyl glycerol phospholipids are major discriminatory non-polar metabolites in responses by <i>Brachypodium distachyon</i> to challenge by <i>Magnaporthe grisea</i> . <i>Plant Journal</i> , 2006 , 46, 351-68	6.9	110
40	A GC-TOF-MS study of the stability of serum and urine metabolomes during the UK Biobank sample collection and preparation protocols. <i>International Journal of Epidemiology</i> , 2008 , 37 Suppl 1, i23-30	7.8	106

39	Rapid and quantitative detection of the microbial spoilage of beef by Fourier transform infrared spectroscopy and machine learning. <i>Analytica Chimica Acta</i> , 2004 , 514, 193-201	6.6	105
38	Functional genomics via metabolic footprinting: monitoring metabolite secretion by <i>Escherichia coli</i> tryptophan metabolism mutants using FT-IR and direct injection electrospray mass spectrometry. <i>Comparative and Functional Genomics</i> , 2003 , 4, 376-91		104
37	Novel biomarkers for pre-eclampsia detected using metabolomics and machine learning. <i>Metabolomics</i> , 2005 , 1, 227-234	4.7	95
36	Rapid identification of closely related muscle foods by vibrational spectroscopy and machine learning. <i>Analyst, The</i> , 2005 , 130, 1648-54	5	94
35	A comparative investigation of modern feature selection and classification approaches for the analysis of mass spectrometry data. <i>Analytica Chimica Acta</i> , 2014 , 829, 1-8	6.6	81
34	Meat, the metabolites: an integrated metabolite profiling and lipidomics approach for the detection of the adulteration of beef with pork. <i>Analyst, The</i> , 2016 , 141, 2155-64	5	69
33	Metabolomics-assisted synthetic biology. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 22-8	11.4	50
32	A flavour of omics approaches for the detection of food fraud. <i>Current Opinion in Food Science</i> , 2016 , 10, 7-15	9.8	47
31	Quantitative Online Liquid Chromatography-Surface-Enhanced Raman Scattering (LC-SERS) of Methotrexate and its Major Metabolites. <i>Analytical Chemistry</i> , 2017 , 89, 6702-6709	7.8	44
30	Surface-Enhanced Raman Scattering (SERS) in Microbiology: Illumination and Enhancement of the Microbial World. <i>Applied Spectroscopy</i> , 2018 , 72, 987-1000	3.1	43
29	Through-container, extremely low concentration detection of multiple chemical markers of counterfeit alcohol using a handheld SORS device. <i>Scientific Reports</i> , 2017 , 7, 12082	4.9	42
28	Biochemical Analyses of Sorghum Varieties Reveal Differential Responses to Drought. <i>PLoS ONE</i> , 2016 , 11, e0154423	3.7	36
27	Rapid, accurate, and comparative differentiation of clinically and industrially relevant microorganisms via multiple vibrational spectroscopic fingerprinting. <i>Analyst, The</i> , 2016 , 141, 5127-36	5	35
26	Rapid, Accurate, and Quantitative Detection of Propranolol in Multiple Human Biofluids via Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2016 , 88, 10884-10892	7.8	35
25	Enhancing Disease Diagnosis: Biomedical Applications of Surface-Enhanced Raman Scattering. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1163	2.6	32
24	Rapid through-container detection of fake spirits and methanol quantification with handheld Raman spectroscopy. <i>Analyst, The</i> , 2018 , 144, 324-330	5	31
23	Chicken, beams, and <i>Campylobacter</i> : rapid differentiation of foodborne bacteria via vibrational spectroscopy and MALDI-mass spectrometry. <i>Analyst, The</i> , 2016 , 141, 111-22	5	31
22	The rapid differentiation of <i>Streptomyces</i> isolates using Fourier transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2006 , 40, 213-218	2.1	31

21	Rapid quantification of the adulteration of fresh coconut water by dilution and sugars using Raman spectroscopy and chemometrics. <i>Food Chemistry</i> , 2019 , 272, 157-164	8.5	26
20	Quantitative detection of codeine in human plasma using surface-enhanced Raman scattering via adaptation of the isotopic labelling principle. <i>Analyst, The</i> , 2017 , 142, 1099-1105	5	23
19	Rapid, high-throughput, and quantitative determination of orange juice adulteration by Fourier-transform infrared spectroscopy. <i>Analytical Methods</i> , 2016 , 8, 5581-5586	3.2	23
18	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020 , 92, 15745-15756	7.8	22
17	Metabolic Profiling of <i>Geobacter sulfurreducens</i> during Industrial Bioprocess Scale-Up. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3288-98	4.8	21
16	Rapid Detection and Quantification of Novel Psychoactive Substances (NPS) Using Raman Spectroscopy and Surface-Enhanced Raman Scattering. <i>Frontiers in Chemistry</i> , 2019 , 7, 412	5	16
15	Rapid reagentless quantification of alginate biosynthesis in <i>Pseudomonas fluorescens</i> bacteria mutants using FT-IR spectroscopy coupled to multivariate partial least squares regression. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2591-9	4.4	16
14	Metabolic Fingerprinting with Fourier Transform Infrared Spectroscopy 2003 , 111-124		16
13	Towards improved quantitative analysis using surface-enhanced Raman scattering incorporating internal isotope labelling. <i>Analytical Methods</i> , 2017 , 9, 6636-6644	3.2	15
12	Metabolomics investigation of recombinant mTNF α production in <i>Streptomyces lividans</i> . <i>Microbial Cell Factories</i> , 2015 , 14, 157	6.4	15
11	From phenotype to genotype: whole tissue profiling for plant breeding. <i>Metabolomics</i> , 2007 , 3, 489-501	4.7	12
10	Detection of the adulteration of fresh coconut water via NMR spectroscopy and chemometrics. <i>Analyst, The</i> , 2019 , 144, 1401-1408	5	11
9	Rapid differentiation of <i>Campylobacter jejuni</i> cell wall mutants using Raman spectroscopy, SERS and mass spectrometry combined with chemometrics. <i>Analyst, The</i> , 2020 , 145, 1236-1249	5	11
8	Metabolomics Analysis Reveals the Participation of Efflux Pumps and Ornithine in the Response of <i>Pseudomonas putida</i> DOT-T1E Cells to Challenge with Propranolol. <i>PLoS ONE</i> , 2016 , 11, e0156509	3.7	8
7	Metabolic analysis of the response of DOT-T1E strains to toluene using Fourier transform infrared spectroscopy and gas chromatography mass spectrometry. <i>Metabolomics</i> , 2016 , 12, 112	4.7	7
6	Rapid discrimination of <i>Enterococcus faecium</i> strains using phenotypic analytical techniques. <i>Analytical Methods</i> , 2016 , 8, 7603-7613	3.2	6
5	Quantitative detection and identification methods for microbial spoilage 2006 , 3-27		4
4	Portable through Bottle SORS for the Authentication of Extra Virgin Olive Oil. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8347	2.6	4

3	Omics Methods For the Detection of Foodborne Pathogens 2019 , 364-370		3
2	Omics approaches for food analysis and authentication. <i>Current Opinion in Food Science</i> , 2019 , 28, v-vi	9.8	1
1	Genomes to systems 3. <i>Metabolomics</i> , 2006 , 2, 165-170		4.7