David I Ellis

List of Publications by Year
in descending order

59	6,558	94381	155592
papers	citations	37 h-index	55 g-index

61	61	61	9034
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metabolomics: Current analytical platforms and methodologies. TrAC - Trends in Analytical Chemistry, 2005, 24, 285-294.	5.8	939
2	A tutorial review: Metabolomics and partial least squares-discriminant analysis â€“ a marriage of convenience or a shotgun wedding. Analytica Chimica Acta, 2015, 879, 10-23.	2.6	618
3	Metabolic fingerprinting in disease diagnosis: biomedical applications of infrared and Raman spectroscopy. Analyst, The, 2006, 131, 875.	1.7	544
4	Fingerprinting food: current technologies for the detection of food adulteration and contamination. Chemical Society Reviews, 2012, 41, 5706.	18.7	362
5	Metabolic fingerprinting as a diagnostic tool. Pharmacogenomics, 2007, 8, 1243-1266.	0.6	361
6	Rapid and Quantitative Detection of the Microbial Spoilage of Meat by Fourier Transform Infrared Spectroscopy and Machine Learning. Applied and Environmental Microbiology, 2002, 68, 2822-2828.	1.4	281
7	Molecular phenotyping of a UK population: defining the human serum metabolome. Metabolomics, 2015, 11, 9-26.	1.4	202
8	Metabolomic technologies and their application to the study of plants and plantâ€“host interactions. Physiologia Plantarum, 2008, 132, 117-135.	2.6	201
9	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.	7.8	185
10	Point-and-shoot: rapid quantitative detection methods for on-site food fraud analysis â€“ moving out of the laboratory and into the food supply chain. Analytical Methods, 2015, 7, 9401-9414.	1.3	183
11	Huntington disease patients and transgenic mice have similar pro-catabolic serum metabolite profiles. Brain, 2006, 129, 877-886.	3.7	175
12	Illuminating disease and enlightening biomedicine: Raman spectroscopy as a diagnostic tool. Analyst, The, 2013, 138, 3871.	1.7	163
13	Influence of Missing Values Substitutes on Multivariate Analysis of Metabolomics Data. Metabolites, 2014, 4, 433-452.	1.3	158
14	A metabolome pipeline: from concept to data to knowledge. Metabolomics, 2005, 1, 39-51.	1.4	152
15	Serum metabolomics reveals many novel metabolic markers of heart failure, including pseudouridine and 2-oxoglutarate. Metabolomics, 2007, 3, 413-426.	1.4	150
16	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.	2.6	119
17	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, i23-i30.	0.9	118
18	Metabolomic approaches reveal that phosphatidic and phosphatidyl glycerol phospholipids are major discriminatory nonâ€polar metabolites in responses by Brachypodium distachyon to challenge by Magnaporthe grisea. Plant Journal, 2006, 46, 351-368.	2.8	115

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19	Functional Genomics via Metabolic Footprinting: Monitoring Metabolite Secretion byEscherichia coliTryptophan Metabolism Mutants Using FTâ€“IR and Direct Injection Electrospray Mass Spectrometry. Comparative and Functional Genomics, 2003, 4, 376-391.	2.0	110
20	Novel biomarkers for pre-eclampsia detected using metabolomics and machine learning. Metabolomics, 2005, 1, 227-234.	1.4	110
21	Rapid identification of closely related muscle foods by vibrational spectroscopy and machine learning. Analyst, The, 2005, 130, 1648.	1.7	109
22	Meat, the metabolites: an integrated metabolite profiling and lipidomics approach for the detection of the adulteration of beef with pork. Analyst, The, 2016, 141, 2155-2164.	1.7	106
23	A comparative investigation of modern feature selection and classification approaches for the analysis of mass spectrometry data. Analytica Chimica Acta, 2014, 829, 1-8.	2.6	93
24	Quantitative Online Liquid Chromatographyâ€“Surface-Enhanced Raman Scattering (LC-SERS) of Methotrexate and its Major Metabolites. Analytical Chemistry, 2017, 89, 6702-6709.	3.2	63
25	Through-container, extremely low concentration detection of multiple chemical markers of counterfeit alcohol using a handheld SORS device. Scientific Reports, 2017, 7, 12082.	1.6	60
26	A flavour of omics approaches for the detection of food fraud. Current Opinion in Food Science, 2016, 10, 7-15.	4.1	58
27	Metabolomics-assisted synthetic biology. Current Opinion in Biotechnology, 2012, 23, 22-28.	3.3	56
28	Surface-Enhanced Raman Scattering (SERS) in Microbiology: Illumination and Enhancement of the Microbial World. Applied Spectroscopy, 2018, 72, 987-1000.	1.2	54
29	Rapid, Accurate, and Quantitative Detection of Propranolol in Multiple Human Biofluids via Surface-Enhanced Raman Scattering. Analytical Chemistry, 2016, 88, 10884-10892.	3.2	52
30	Enhancing Disease Diagnosis: Biomedical Applications of Surface-Enhanced Raman Scattering. Applied Sciences (Switzerland), 2019, 9, 1163.	1.3	50
31	Biochemical Analyses of Sorghum Varieties Reveal Differential Responses to Drought. PLoS ONE, 2016, 11, e0154423.	1.1	48
32	Rapid through-container detection of fake spirits and methanol quantification with handheld Raman spectroscopy. Analyst, The, 2019, 144, 324-330.	1.7	46
33	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. Analytical Chemistry, 2020, 92, 15745-15756.	3.2	46
34	Rapid quantification of the adulteration of fresh coconut water by dilution and sugars using Raman spectroscopy and chemometrics. Food Chemistry, 2019, 272, 157-164.	4.2	45
35	Rapid, accurate, and comparative differentiation of clinically and industrially relevant microorganisms via multiple vibrational spectroscopic fingerprinting. Analyst, The, 2016, 141, 5127-5136.	1.7	40
36	The rapid differentiation of Streptomyces isolates using Fourier transform infrared spectroscopy. Vibrational Spectroscopy, 2006, 40, 213-218.	1.2	39

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37	Chicken, beams, and Campylobacter: rapid differentiation of foodborne bacteria via vibrational spectroscopy and MALDI-mass spectrometry. Analyst, The, 2016, 141, 111-122.	1.7	39
38	Rapid Detection and Quantification of Novel Psychoactive Substances (NPS) Using Raman Spectroscopy and Surface-Enhanced Raman Scattering. Frontiers in Chemistry, 2019, 7, 412.	1.8	32
39	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.	1.7	29
40	Rapid, high-throughput, and quantitative determination of orange juice adulteration by Fourier-transform infrared spectroscopy. Analytical Methods, 2016, 8, 5581-5586.	1.3	28
41	Metabolic Profiling of Geobacter sulfurreducens during Industrial Bioprocess Scale-Up. Applied and Environmental Microbiology, 2015, 81, 3288-3298.	1.4	26
42	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, 2591-2599.	1.9	20
43	Metabolic Fingerprinting with Fourier Transform Infrared Spectroscopy. , 2003, , 111-124.		19
44	Rapid differentiation of Campylobacter jejuni cell wall mutants using Raman spectroscopy, SERS and mass spectrometry combined with chemometrics. Analyst, The, 2020, 145, 1236-1249.	1.7	19
45	Metabolomics investigation of recombinant mTNFÎ± production in Streptomyces lividans. Microbial Cell Factories, 2015, 14, 157.	1.9	18
46	Towards improved quantitative analysis using surface-enhanced Raman scattering incorporating internal isotope labelling. Analytical Methods, 2017, 9, 6636-6644.	1.3	18
47	Detecting food authenticity and integrity. Analytical Methods, 2016, 8, 3281-3283.	1.3	16
48	Detection of the adulteration of fresh coconut water via NMR spectroscopy and chemometrics. Analyst, The, 2019, 144, 1401-1408.	1.7	14
49	From phenotype to genotype: whole tissue profiling for plant breeding. Metabolomics, 2007, 3, 489-501.	1.4	12
50	Portable through Bottle SORS for the Authentication of Extra Virgin Olive Oil. Applied Sciences (Switzerland), 2021, 11, 8347.	1.3	11
51	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.	1.1	11
52	Rapid discrimination of Enterococcus faecium strains using phenotypic analytical techniques. Analytical Methods, 2016, 8, 7603-7613.	1.3	9
53	Metabolic analysis of the response of Pseudomonas putida DOT-T1E strains to toluene using Fourier transform infrared spectroscopy and gas chromatography mass spectrometry. Metabolomics, 2016, 12, 112.	1.4	9
54	Omics Methods For the Detection of Foodborne Pathogens. , 2019, , 364-370.		7

#	Article	IF	Citations
55	Quantitative detection and identification methods for microbial spoilage. , 2006, , 3-27.		5
56	Omics approaches for food analysis and authentication. Current Opinion in Food Science, 2019, 28, v-vi.	4.1	2
57	Research Spotlight: Biospectroscopy at the Manchester Interdisciplinary Biocentre. Bioanalysis, 2011, 3, 1189-1194.	0.6	1
58	Genomes to systems 3. Metabolomics, 2006, 2, 165-170.	1.4	0
59	Metabolic Fingerprinting of Pseudomonas putida DOT-T1E Strains: Understanding the Influence of Divalent Cations in Adaptation Mechanisms Following Exposure to Toluene. Metabolites, 2016, 6, 14.	1.3	0