Elon Correa

List of Publications by Year
in descending order

30 papers	1,845 citations	430874 18 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	3971 citing authors

#	Article	IF	Citations
1	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.	5.4	618
2	Influence of Missing Values Substitutes on Multivariate Analysis of Metabolomics Data. Metabolites, 2014, 4, 433-452.	2.9	158
3	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
4	Simultaneous detection and quantification of three bacterial meningitis pathogens by SERS. Chemical Science, 2014, 5, 1030-1040.	7.4	134
5	Data standards can boost metabolomics research, and if there is a will, there is a way. Metabolomics, 2016, 12, 14.	3.0	97
6	A comparative investigation of modern feature selection and classification approaches for the analysis of mass spectrometry data. Analytica Chimica Acta, 2014, 829, 1-8.	5.4	93
7	A Genetic Algorithm for Solving a Capacitated p-Median Problem. Numerical Algorithms, 2004, 35, 373-388.	1.9	81
8	Optimization of Parameters for the Quantitative Surface-Enhanced Raman Scattering Detection of Mephedrone Using a Fractional Factorial Design and a Portable Raman Spectrometer. Analytical Chemistry, 2013, 85, 923-931.	6.5	65
9	A comparison of different chemometrics approaches for the robust classification of electronic nose data. Analytical and Bioanalytical Chemistry, 2014, 406, 7581-7590.	3.7	63
10	Enhancing Surface Enhanced Raman Scattering (SERS) Detection of Propranolol with Multiobjective Evolutionary Optimization. Analytical Chemistry, 2012, 84, 7899-7905.	6.5	35
11	A genetic algorithm-Bayesian network approach for the analysis of metabolomics and spectroscopic data: application to the rapid identification of Bacillus spores and classification of Bacillus species. BMC Bioinformatics, 2011, 12, 33.	2.6	33
12	Oxidized phosphatidylcholines suggest oxidative stress in patients with medium-chain acyl-CoA dehydrogenase deficiency. Talanta, 2015, 139, 62-66.	5.5	33
13	Metabolic Profiling of Geobacter sulfurreducens during Industrial Bioprocess Scale-Up. Applied and Environmental Microbiology, 2015, 81, 3288-3298.	3.1	26
14	Integrating multiple analytical platforms and chemometrics for comprehensive metabolic profiling: application to meat spoilage detection. Analytical and Bioanalytical Chemistry, 2013, 405, 5063-5074.	3.7	25
15	High-throughput phenotyping of uropathogenic E. coli isolates with Fourier transform infrared spectroscopy. Analyst, The, 2013, 138, 1363.	3.5	24
16	Profiling of spatial metabolite distributions in wheat leaves under normal and nitrate limiting conditions. Phytochemistry, 2015, 115, 99-111.	2.9	24
17	Changes in prevalence of obesity and high waist circumference over four years across European regions: the European male ageing study (EMAS). Endocrine, 2017, 55, 456-469.	2.3	21
18	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.	3.7	20

#	Article	IF	Citations
19	Detection of glycosylation and iron-binding protein modifications using Raman spectroscopy. Analyst, The, 2017, 142, 808-814.	3.5	20
20	Highly sensitive detection of nitroaromatic explosives at discrete nanowire arrays. Faraday Discussions, 2013, 164, 283.	3.2	18
21	Glycemia but not the Metabolic Syndrome is Associated with Cognitive Decline: Findings from the European Male Ageing Study. American Journal of Geriatric Psychiatry, 2017, 25, 662-671.	1.2	16
22	pH plays a role in the mode of action of trimethoprim on Escherichia coli. PLoS ONE, 2018, 13, e0200272.	2.5	16
23	Metabolomic analyses show that electron donor and acceptor ratios control anaerobic electron transfer pathways in Shewanella oneidensis. Metabolomics, 2013, 9, 642-656.	3.0	15
24	Investigating alginate production and carbon utilization in Pseudomonas fluorescens SBW25 using mass spectrometry-based metabolic profiling. Metabolomics, 2013, 9, 403-417.	3.0	14
25	Evaluation of cognitive subdomains, 25-hydroxyvitamin D, and 1,25-dihydroxyvitamin D in the European Male Ageing Study. European Journal of Nutrition, 2017, 56, 2093-2103.	3.9	13
26	Particle swarm and bayesian networks applied to attribute selection for protein functional classification. , 2007, , .		11
27	Fractional Factorial Design of MALDI-TOF-MS Sample Preparations for the Optimized Detection of Phospholipids and Acylglycerols. Analytical Chemistry, 2016, 88, 6301-6308.	6.5	11
28	A workflow for bacterial metabolic fingerprinting and lipid profiling: application to Ciprofloxacin challenged Escherichia coli. Metabolomics, 2015, 11, 438-453.	3.0	10
29	Phenotypic Characterisation of Shewanella oneidensis MR-1 Exposed to X-Radiation. PLoS ONE, 2015, 10, e0131249.	2.5	7
30	A Robot Scientist Approach Towards Optimization Of SERS. , 2010, , .		0