

Elisa Robotti

List of Publications by Citations

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95
papers

1,844
citations

28
h-index

38
g-index

100
ext. papers

2,163
ext. citations

4.7
avg, IF

4.41
L-index

#	Paper	IF	Citations
95	Determination of perfluorochemicals in biological, environmental and food samples by an automated on-line solid phase extraction ultra high performance liquid chromatography tandem mass spectrometry method. <i>Journal of Chromatography A</i> , 2010 , 1217, 7864-72	4.5	82
94	Numerical approaches for quantitative analysis of two-dimensional maps: a review of commercial software and home-made systems. <i>Proteomics</i> , 2005 , 5, 654-66	4.8	80
93	Proteomic changes involved in tenderization of bovine Longissimus dorsi muscle during prolonged ageing. <i>Food Chemistry</i> , 2012 , 135, 2052-69	8.5	75
92	High-performance liquid chromatography-ultraviolet detection method for the simultaneous determination of typical biogenic amines and precursor amino acids. Applications in food chemistry. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 127-34	5.7	62
91	Automated online solid phase extraction ultra high performance liquid chromatography method coupled with tandem mass spectrometry for determination of forty-two therapeutic drugs and drugs of abuse in human urine. <i>Analytical Chemistry</i> , 2010 , 82, 5636-45	7.8	59
90	Simultaneous determination of thirteen polycyclic aromatic hydrocarbons and twelve aldehydes in cooked food by an automated on-line solid phase extraction ultra high performance liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2011 , 1218, 6308-18	4.5	57
89	Secretome protein signature of human pancreatic cancer stem-like cells. <i>Journal of Proteomics</i> , 2016 , 136, 1-12	3.9	51
88	Blood transcriptomics of drug-naïve sporadic Parkinson's disease patients. <i>BMC Genomics</i> , 2015 , 16, 876	4.5	51
87	A traceability study on the Moscato wine chain. <i>Food Chemistry</i> , 2013 , 138, 1914-22	8.5	49
86	Impact of Beneficial Microorganisms on Strawberry Growth, Fruit Production, Nutritional Quality, and Volatilome. <i>Frontiers in Plant Science</i> , 2018 , 9, 1611	6.2	47
85	¹⁹⁵ Pt NMR spectroscopy: A chemometric approach. <i>Coordination Chemistry Reviews</i> , 2006 , 250, 2158-2174	4.2	45
84	Chemical profiling and multivariate data fusion methods for the identification of the botanical origin of honey. <i>Food Chemistry</i> , 2018 , 266, 79-89	8.5	42
83	Extracellular Vesicles Mediate Mesenchymal Stromal Cell-Dependent Regulation of B Cell PI3K-AKT Signaling Pathway and Actin Cytoskeleton. <i>Frontiers in Immunology</i> , 2019 , 10, 446	8.4	39
82	Fast classification of hazelnut cultivars through portable infrared spectroscopy and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 189, 427-435	4.4	38
81	A new integrated statistical approach to the diagnostic use of two-dimensional maps. <i>Electrophoresis</i> , 2003 , 24, 225-36	3.6	38
80	Hydroxyl and acid number prediction in polyester resins by near infrared spectroscopy and artificial neural networks. <i>Analytica Chimica Acta</i> , 2004 , 511, 313-322	6.6	36
79	Archaeometric characterisation of ancient pottery belonging to the archaeological site of Novalesa Abbey (Piedmont, Italy) by ICPMS and spectroscopic techniques coupled to multivariate statistical tools. <i>Analytica Chimica Acta</i> , 2005 , 537, 359-375	6.6	36

78	Preliminary toxicological assessment of phthalate esters from drinking water consumed in Portugal. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 1380-90	5.1	34
77	Study of proteomic changes associated with healthy and tumoral murine samples in neuroblastoma by principal component analysis and classification methods. <i>Clinica Chimica Acta</i> , 2004 , 345, 55-67	6.2	34
76	Method for Noninvasive Analysis of Proteins and Small Molecules from Ancient Objects. <i>Analytical Chemistry</i> , 2017 , 89, 3310-3317	7.8	33
75	Application of partial least squares discriminant analysis and variable selection procedures: a 2D-PAGE proteomic study. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 1327-42	4.4	33
74	Multivariate statistical tools applied to the characterization of the proteomic profiles of two human lymphoma cell lines by two-dimensional gel electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 484-94	3.6	32
73	Portable diffuse reflectance infrared Fourier transform (DRIFT) technique for the non-invasive identification of canvas ground: IR spectra reference collection. <i>Analytical Methods</i> , 2015 , 7, 2313-2322	3.2	31
72	Application of three-way principal component analysis to the evaluation of two-dimensional maps in proteomics. <i>Journal of Proteome Research</i> , 2003 , 2, 351-60	5.6	30
71	Monitoring of pigmented and wooden surfaces in accelerated ageing processes by FT-Raman spectroscopy and multivariate control charts. <i>Talanta</i> , 2004 , 63, 987-1002	6.2	30
70	Development of a technique based on multi-spectral imaging for monitoring the conservation of cultural heritage objects. <i>Analytica Chimica Acta</i> , 2011 , 706, 229-37	6.6	29
69	Investigation of anthropic effects connected with metal ions concentration, organic matter and grain size in Bormida river sediments. <i>Analytica Chimica Acta</i> , 2006 , 560, 172-183	6.6	28
68	Identification of the regulatory proteins in human pancreatic cancers treated with Trichostatin A by 2D-PAGE maps and multivariate statistical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 992-1003	4.4	28
67	Dissecting the transcriptional phenotype of ribosomal protein deficiency: implications for Diamond-Blackfan Anemia. <i>Gene</i> , 2014 , 545, 282-9	3.8	27
66	Proteins involved in biotic and abiotic stress responses as the most significant biomarkers in the ripening of Pinot Noir skins. <i>Functional and Integrative Genomics</i> , 2011 , 11, 341-55	3.8	27
65	A method for monitoring the surface conservation of wooden objects by Raman spectroscopy and multivariate control charts. <i>Analytical Chemistry</i> , 2003 , 75, 5567-74	7.8	27
64	Monitoring of paintings under exposure to UV light by ATR-FT-IR spectroscopy and multivariate control charts. <i>Vibrational Spectroscopy</i> , 2006 , 40, 225-234	2.1	26
63	Multivariate calibration applied to the field of cultural heritage: Analysis of the pigments on the surface of a painting. <i>Analytica Chimica Acta</i> , 2005 , 553, 111-122	6.6	25
62	Technique based on LED multispectral imaging and multivariate analysis for monitoring the conservation state of the Dead Sea Scrolls. <i>Analytical Chemistry</i> , 2011 , 83, 6609-18	7.8	24
61	Monitoring of the surface of paper samples exposed to UV light by ATR-FT-IR spectroscopy and use of multivariate control charts. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 1249-63	4.4	23

60	New approach based on fuzzy logic and principal component analysis for the classification of two-dimensional maps in health and disease. Application to lymphomas. <i>Journal of Chromatography A</i> , 2003 , 1004, 13-28	4.5	22
59	Can half-marathon affect overall health? The yin-yang of sport. <i>Journal of Proteomics</i> , 2018 , 170, 80-87	3.9	20
58	The principle of exhaustiveness versus the principle of parsimony: a new approach for the identification of biomarkers from proteomic spot volume datasets based on principal component analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 25-41	4.4	20
57	Modeling of the polluting emissions from a cement production plant by partial least-squares, principal component regression, and artificial neural networks. <i>Environmental Science & Technology</i> , 2006 , 40, 272-80	10.3	20
56	Use of Legendre moments for the fast comparison of two-dimensional polyacrylamide gel electrophoresis maps images. <i>Journal of Chromatography A</i> , 2005 , 1096, 86-91	4.5	20
55	Biomarkers for pancreatic cancer: recent achievements in proteomics and genomics through classical and multivariate statistical methods. <i>World Journal of Gastroenterology</i> , 2014 , 20, 13325-42	5.6	18
54	HPLC-DAD-MSn to investigate the photodegradation pathway of nicosulfuron in aqueous solution. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 1705-14	4.4	16
53	Integrated serum proteins and fatty acids analysis for putative biomarker discovery in inflammatory bowel disease. <i>Journal of Proteomics</i> , 2019 , 195, 138-149	3.9	15
52	Optimization of the Extraction of the Volatile Fraction from Honey Samples by SPME-GC-MS, Experimental Design, and Multivariate Target Functions. <i>Journal of Chemistry</i> , 2017 , 2017, 1-14	2.3	14
51	A new method of comparing 2D-PAGE maps based on the computation of Zernike moments and multivariate statistical tools. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1163-73	4.4	14
50	Monitoring of pigmented surfaces in accelerated ageing process by ATR-FT-IR spectroscopy and multivariate control charts. <i>Talanta</i> , 2005 , 66, 1158-67	6.2	13
49	2D-PAGE maps analysis. <i>Methods in Molecular Biology</i> , 2008 , 428, 291-325	1.4	13
48	Haemolymph from <i>Mytilus galloprovincialis</i> : Response to copper and temperature challenges studied by (1)H-NMR metabonomics. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2016 , 183-184, 61-71	3.2	12
47	Study of endocrine disrupting compound release from different medical devices through an on-line SPE UHPLC-MS/MS method. <i>Analytica Chimica Acta</i> , 2018 , 1042, 141-154	6.6	12
46	Development of a classification and ranking method for the identification of possible biomarkers in two-dimensional gel-electrophoresis based on principal component analysis and variable selection procedures. <i>Molecular BioSystems</i> , 2011 , 7, 677-86		12
45	Evaluation of the variables characterized by significant discriminating power in the application of SIMCA classification method to proteomic studies. <i>Journal of Proteome Research</i> , 2008 , 7, 2789-96	5.6	12
44	Chemometric Multivariate Tools for Candidate Biomarker Identification: LDA, PLS-DA, SIMCA, Ranking-PCA. <i>Methods in Molecular Biology</i> , 2016 , 1384, 237-67	1.4	11
43	The state of conservation of painted surfaces in the presence of accelerated ageing processes monitored by use of FT-Raman spectroscopy and multivariate control charts. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 884-95	4.4	10

42	2D-DIGE and Fluorescence Image Analysis. <i>Methods in Molecular Biology</i> , 2018 , 1664, 25-39	1.4	9
41	Butene concentration prediction in ethylene/propylene/1-butene terpolymers by FT-IR spectroscopy through multivariate statistical analysis and artificial neural networks. <i>Talanta</i> , 2009 , 77, 1111-9	6.2	9
40	Statistical analysis of ground water distribution in Alessandria Province (Piedmont, Italy). <i>Microchemical Journal</i> , 2008 , 88, 167-177	4.8	9
39	Direct Analysis in Real Time Mass Spectrometry for the Nondestructive Investigation of Conservation Treatments of Cultural Heritage. <i>Journal of Analytical Methods in Chemistry</i> , 2016 , 2016, 6853591	2	9
38	Study on the photodegradation of amidosulfuron in aqueous solutions by LC-MS/MS. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 9034-43	5.1	8
37	Effects of nickel, chlorpyrifos and their mixture on the <i>Dictyostelium discoideum</i> proteome. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 15679-705	6.3	8
36	Multivariate Statistical Tools for the Evaluation of Proteomic 2D-maps: Recent Achievements and Applications. <i>Current Proteomics</i> , 2007 , 4, 53-66	0.7	8
35	Investigation of the applicability of Zernike moments to the classification of SDS 2D-PAGE maps. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1419-31	4.4	7
34	Sialylated isoforms of apolipoprotein C-III and plasma lipids in subjects with coronary artery disease. <i>Clinical Chemistry and Laboratory Medicine</i> , 2018 , 56, 1542-1550	5.9	6
33	Monitoring of water quality inflow and outflow of a farm in Italian Padana plain for rice cultivation: a case study of two years. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 21274-21294	5.1	6
32	Optimisation of sensitivity in the multi-elemental determination of 83 isotopes by ICP-MS as a function of 21 instrumental operative conditions by modified simplex, principal component analysis and partial least squares. <i>Talanta</i> , 2008 , 76, 1224-32	6.2	6
31	IEF peptide fractionation method combined to shotgun proteomics enhances the exploration of rice milk proteome. <i>Analytical Biochemistry</i> , 2017 , 537, 72-77	3.1	5
30	Development of calibration models for quality control in the production of ethylene/propylene copolymers by FTIR spectroscopy, multivariate statistical tools, and artificial neural networks. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 3975-3982	2.9	5
29	Photodegradation of the pure and formulated alpha-cypermethrin insecticide gives different products. <i>Environmental Chemistry Letters</i> , 2018 , 16, 581-590	13.3	5
28	Characterization Study of Tomato Sauces Stored in Different Packaging Materials. <i>Current Analytical Chemistry</i> , 2017 , 13, 187-201	1.7	4
27	GENOCOP algorithm and hierarchical grid transformation for image warping of two dimensional gel electrophoretic maps. <i>Molecular BioSystems</i> , 2012 , 8, 975-84		4
26	Evaluation of signal and noise and identification of a suitable target function in the tuning of an ESI ion trap mass spectrometer by multivariate pattern recognition tools. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1859-67	3.5	4
25	Comparison of different calibration methods for the determination by FT-NIR spectroscopy of the hydroxyl number in polyester resins. <i>Annali Di Chimica</i> , 2004 , 94, 219-28		4

24	Development and validation of a UHPLC-MS/MS method for the identification of irinotecan photodegradation products in water samples. <i>Environmental Pollution</i> , 2020 , 256, 113370	9.3	4
23	A new approach to the statistical treatment of 2D-maps in proteomics using fuzzy logic. <i>Annali Di Chimica</i> , 2003 , 93, 105-16		4
22	Plasma Proteome Profiles of Stable CAD Patients Stratified According to Total Apo C-III Levels. <i>Proteomics - Clinical Applications</i> , 2019 , 13, e1800023	3.1	3
21	Iterative optimization of an ESI IT mass spectrometer using regular simplex and a multivariate target function representing the S/N ratio. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 118-29	3.5	3
20	A new algorithm for the simulation of sodium dodecil sulfate two-dimensional polyacrylamide gel electrophoresis data sets. <i>Journal of Proteome Research</i> , 2010 , 9, 1864-72	5.6	3
19	From monitoring to treatment, how to improve water quality: The pharmaceuticals case. <i>Chemical Engineering Journal Advances</i> , 2022 , 10, 100245	3.6	3
18	Algorithms for Warping of 2-D PAGE Maps. <i>Methods in Molecular Biology</i> , 2016 , 1384, 119-54	1.4	3
17	Determination by ICP-MS and multivariate data analysis of elemental urine excretion profile during the EDTA chelation therapy: A case study. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020 , 62, 126608	4.1	3
16	Image Pretreatment Tools II: Normalization Techniques for 2-DE and 2-D DIGE. <i>Methods in Molecular Biology</i> , 2016 , 1384, 91-107	1.4	2
15	Chemical and Microbiological Characterization for PDO Labelling of Typical East Piedmont (Italy) Salami. <i>Journal of Chemistry</i> , 2015 , 2015, 1-22	2.3	2
14	GENOCOP Algorithm and Hierarchical Grid Transformation for Image Warping of Two-Dimensional Gel Electrophoretic Maps. <i>Methods in Molecular Biology</i> , 2016 , 1384, 165-84	1.4	2
13	Authentication and Traceability Study on Barbera d'Alba and Nizza DOCG Wines: The Role of Trace- and Ultra-Trace Elements. <i>Beverages</i> , 2020 , 6, 63	3.4	2
12	A new method for investigating microbiota-produced small molecules in adenomatous polyps. <i>Analytica Chimica Acta</i> , 2021 , 1179, 338841	6.6	2
11	Monitoring of an industrial process by multivariate control charts based on principal component analysis. <i>Annali Di Chimica</i> , 2003 , 93, 525-38		2
10	A hydrophilic interaction liquid chromatography tandem mass spectrometry method for the identification and determination of cationic starch derivatives in air samples. <i>Analytical Methods</i> , 2017 , 9, 1634-1642	3.2	1
9	A new algorithm for the simulation of SDS 2D-PAGE datasets. <i>Methods in Molecular Biology</i> , 2012 , 869, 407-25	1.4	1
8	Optimization of the setting parameters of a probe analyzer used for quality assessment of the interlace level and variation of textile polyester fibers. <i>Journal of the Textile Institute</i> , 2005 , 96, 371-379	1.5	1
7	LCMS/MS Approach for the Identification of Unknown Degradation Products of Dyes in Beverages 2018 , 229-260		1

6	Kohonen Artificial Neural Network and Multivariate Analysis in the Identification of Proteome Changes during Early and Long Aging of Bovine Muscle Using SWATH Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 11512-11522	5.7	1
5	Profiling of transcriptional biomarkers in FFPE liver samples: PLS-DA applications for detection of illicit administration of sex steroids and clenbuterol in veal calves. <i>Food Control</i> , 2021 , 128, 108149	6.2	1
4	Two-Dimensional Gel Electrophoresis Image Analysis. <i>Methods in Molecular Biology</i> , 2021 , 2361, 3-13	1.4	0
3	The Use of Legendre and Zernike Moment Functions for the Comparison of 2-D PAGE Maps. <i>Methods in Molecular Biology</i> , 2016 , 1384, 271-88	1.4	
2	Differential Analysis of 2-D Maps by Pixel-Based Approaches. <i>Methods in Molecular Biology</i> , 2016 , 1384, 299-327	1.4	
1	Chemometric Tools for 2D-PAGE Data Analysis. <i>Methods in Molecular Biology</i> , 2021 , 2361, 15-31	1.4	