

Marina Cocchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1803746/publications.pdf>

Version: 2024-02-01

121
papers

2,932
citations

147801

31
h-index

214800

47
g-index

126
all docs

126
docs citations

126
times ranked

2961
citing authors

#	ARTICLE	IF	CITATIONS
1	Subject classification obtained by cluster analysis and principal component analysis applied to flow cytometric data. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 334-344.	1.5	97
2	Automated evaluation of food colour by means of multivariate image analysis coupled to a wavelet-based classification algorithm. <i>Analytica Chimica Acta</i> , 2004, 515, 3-13.	5.4	95
3	Classification of bread wheat flours in different quality categories by a wavelet-based feature selection/classification algorithm on NIR spectra. <i>Analytica Chimica Acta</i> , 2005, 544, 100-107.	5.4	90
4	Simultaneous determination of sugars and organic acids in aged vinegars and chemometric data analysis. <i>Talanta</i> , 2006, 69, 1166-1175.	5.5	89
5	Assessing feature relevance in NPLS models by VIP. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 129, 76-86.	3.5	84
6	Determination of Carboxylic Acids in Vinegars and in Aceto Balsamico Tradizionale di Modena by HPLC and GC Methods. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 5255-5261.	5.2	82
7	Durum wheat adulteration detection by NIR spectroscopy multivariate calibration. <i>Talanta</i> , 2006, 68, 1505-1511.	5.5	75
8	Amino Acids Characterization by GRID and Multivariate Data Analysis. <i>QSAR and Combinatorial Science</i> , 1993, 12, 1-8.	1.2	69
9	Application of N-PLS to gas chromatographic and sensory data of traditional balsamic vinegars of modena. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 83, 54-65.	3.5	68
10	Geographical traceability based on $^{87}\text{Sr}/^{86}\text{Sr}$ indicator: A first approach for PDO Lambrusco wines from Modena. <i>Food Chemistry</i> , 2013, 141, 2779-2787.	8.2	65
11	Chemometric Methods for Classification and Feature Selection. <i>Comprehensive Analytical Chemistry</i> , 2018, , 265-299.	1.3	63
12	Development of Quantitative Structure-Property Relationships Using Calculated Descriptors for the Prediction of the Physicochemical Properties (n_D , ρ , b_p , μ , \hat{r}) of a Series of Organic Solvents. <i>Journal of Chemical Information and Computer Sciences</i> , 1999, 39, 1190-1203.	2.8	61
13	Data fusion approaches in spectroscopic characterization and classification of PDO wine vinegars. <i>Talanta</i> , 2019, 198, 560-572.	5.5	61
14	A mid level data fusion strategy for the Varietal Classification of Lambrusco PDO wines. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 137, 181-189.	3.5	60
15	An analytical approach to Sr isotope ratio determination in Lambrusco wines for geographical traceability purposes. <i>Food Chemistry</i> , 2015, 173, 557-563.	8.2	60
16	Application of a wavelet-based algorithm on HS-SPME/GC signals for the classification of balsamic vinegars. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2004, 71, 129-140.	3.5	57
17	WPTER: wavelet packet transform for efficient pattern recognition of signals. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 57, 97-119.	3.5	55
18	Multicomponent analysis of electrochemical signals in the wavelet domain. <i>Talanta</i> , 2003, 59, 735-749.	5.5	49

#	ARTICLE	IF	CITATIONS
19	A classification tool for N-way array based on SIMCA methodology. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 106, 73-85.	3.5	49
20	Classification of Cereal Flours by Chemometric Analysis of MIR Spectra. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 1062-1067.	5.2	45
21	Analysis of sensory data of Aceto Balsamico Tradizionale di Modena (ABTM) of different ageing by application of PARAFAC models. <i>Food Quality and Preference</i> , 2006, 17, 419-428.	4.6	45
22	Determination of phenolic compounds and authentication of PDO Lambrusco wines by HPLC-DAD and chemometric techniques. <i>Analytica Chimica Acta</i> , 2013, 761, 34-45.	5.4	44
23	Different feature selection strategies in the wavelet domain applied to NIR-based quality classification models of bread wheat flours. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 99, 91-100.	3.5	42
24	Characterization and discrimination of different aged Aceto Balsamico Tradizionale di Modena™ products by head space mass spectrometry and chemometrics. <i>Analytica Chimica Acta</i> , 2007, 589, 96-104.	5.4	41
25	Ranking brain areas encoding the perceived level of pain from fMRI data. <i>NeuroImage</i> , 2014, 90, 153-162.	4.2	40
26	Discrimination of Healthy and Neoplastic Human Colon Tissues by ex Vivo HR-MAS NMR Spectroscopy and Chemometric Analyses. <i>Journal of Proteome Research</i> , 2009, 8, 1859-1869.	3.7	39
27	Data Fusion Strategies in Food Analysis. <i>Data Handling in Science and Technology</i> , 2019, , 271-310.	3.1	36
28	Density and volumetric properties of ethane-1,2-diol+di-ethylen-glycol mixtures at different temperatures. <i>Fluid Phase Equilibria</i> , 2000, 172, 93-104.	2.5	34
29	Multivariate calibration of analytical signals by WILMA (wavelet interface to linear modelling) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.3	33
30	Near Infrared Spectroscopy and multivariate analysis methods for monitoring flour performance in an industrial bread-making process. <i>Analytica Chimica Acta</i> , 2009, 642, 69-76.	5.4	33
31	Application of data fusion techniques to direct geographical traceability indicators. <i>Analytica Chimica Acta</i> , 2013, 769, 1-9.	5.4	32
32	Development of 87 Sr/ 86 Sr maps as targeted strategy to support wine quality. <i>Food Chemistry</i> , 2018, 255, 139-146.	8.2	30
33	Multicomponent analysis in the wavelet domain of highly overlapped electrochemical signals: Resolution of quaternary mixtures of chlorophenols using a peg-modified Sonogel Carbon electrode. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008, 91, 110-120.	3.5	29
34	Theoretical versus empirical molecular descriptors in monosubstituted benzenes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1992, 14, 209-224.	3.5	28
35	Study of the monosaccharides and furfurals evolution during the preparation of cooked grape musts for Aceto Balsamico Tradizionale production. <i>Journal of Food Engineering</i> , 2007, 79, 1438-1444.	5.2	28
36	1-Adrenoceptor subtype selectivity: Molecular modelling and theoretical quantitative structure-affinity relationships. <i>Bioorganic and Medicinal Chemistry</i> , 1997, 5, 809-816.	3.0	27

#	ARTICLE	IF	CITATIONS
37	A Chemometric Approach to the Comparison of Different Sample Treatments for Metals Determination by Atomic Absorption Spectroscopy in Aceto Balsamico Tradizionale di Modena. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 4047-4056.	5.2	27
38	Three-way principal component analysis of the volatile fraction by HS-SPME/GC of aceto balsamico tradizionale of modena. <i>Talanta</i> , 2008, 74, 547-554.	5.5	27
39	Optimization of a Dynamic Headspace "Thermal Desorption" Gas Chromatography/Mass Spectrometry procedure for the determination of furfurals in vinegars. <i>Talanta</i> , 2011, 85, 863-869.	5.5	27
40	Theoretical quantitative structure-activity relationship analysis of congeneric and non-congeneric β -1-adrenoceptor antagonists: a chemometric study. <i>Computational and Theoretical Chemistry</i> , 1995, 331, 79-93.	1.5	26
41	Mitochondrial DNA Haplogroups and Highly Active Antiretroviral Therapy-Related Lipodystrophy. <i>Clinical Infectious Diseases</i> , 2008, 47, 962-968.	5.8	26
42	Molecular dynamics simulations of sodium silicate glasses: Optimization and limits of the computational procedure. <i>Computational Materials Science</i> , 2010, 47, 739-751.	3.0	26
43	Evolution of 5-(hydroxymethyl)furfural and furfural in the production chain of the aged vinegar Aceto Balsamico Tradizionale di Modena. <i>Food Chemistry</i> , 2011, 124, 822-832.	8.2	23
44	A Quantum Chemical QSAR Analysis of Carbonic Anhydrase Inhibition by Heterocyclic Sulfonamides. Sulfonamide Carbonic Anhydrase Inhibitors: Quantum Chemical QSAR. <i>QSAR and Combinatorial Science</i> , 1987, 6, 51-53.	1.2	22
45	RP-HPLC and chemometrics for wheat flour protein characterisation in an industrial bread-making process monitoring context. <i>Food Chemistry</i> , 2013, 139, 553-562.	8.2	21
46	Conformational analysis, molecular modeling and quantitative structure-activity relationship studies of 2,4-diamino-6,7-dimethoxy-2-substituted quinazoline β -1-adrenergic antagonists. <i>Computational and Theoretical Chemistry</i> , 1991, 251, 307-318.	1.5	20
47	Molecular modelling and quantitative structure- activity relationship analysis using theoretical descriptors of 1,4-benzodioxan (WB-4101) related compounds β -1-adrenergic antagonists. <i>Computational and Theoretical Chemistry</i> , 1992, 276, 327-340.	1.5	20
48	Kinematic viscosities of ternary mixtures containing ethane-1,2-diol, 2-methoxyethanol and water from 10°C to 80°C . <i>Fluid Phase Equilibria</i> , 1999, 157, 317-342.	2.5	20
49	Application of infrared spectroscopy and multivariate quality-control methods in PVC manufacturing. <i>Analytica Chimica Acta</i> , 2005, 554, 207-217.	5.4	20
50	Classification Methods of Multiway Arrays as a Basic Tool for Food PDO Authentication. <i>Comprehensive Analytical Chemistry</i> , 2013, , 339-382.	1.3	20
51	Model calculations of chemical interactions. Part 3."Rotational energy profiles in simple molecules: evaluation, additivity and role of bond-bond, bond-lone-pair and lone-pair-lone-pair interactions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 249-258.	1.7	19
52	Preliminary Assessment of Parmigiano Reggiano Authenticity by Handheld Raman Spectroscopy. <i>Foods</i> , 2020, 9, 1563.	4.3	19
53	The heuristic-direct approach to quantitative structure-activity relationship analysis. <i>Computational and Theoretical Chemistry</i> , 1993, 285, 147-153.	1.5	18
54	Comparative molecular dynamics study of the seven-helix bundle arrangement of G-protein coupled receptors. <i>Computational and Theoretical Chemistry</i> , 1995, 333, 49-69.	1.5	18

#	ARTICLE	IF	CITATIONS
55	The Impact of Chemometrics on Food Traceability. <i>Data Handling in Science and Technology</i> , 2013, 28, 371-410.	3.1	18
56	The Ethane-1,2-diol + 2-methoxyethanol + 1,2-dimethoxyethane Ternary Solvent System: Density and Volume Properties at Different Temperatures. <i>Physics and Chemistry of Liquids</i> , 2001, 39, 481-498.	1.2	17
57	Near infrared spectroscopy and multivariate analysis to evaluate wheat flour doughs leavening and bread properties. <i>Analytica Chimica Acta</i> , 2013, 764, 17-23.	5.4	17
58	A Metabolomic Approach to Beer Characterization. <i>Molecules</i> , 2021, 26, 1472.	3.8	17
59	Molecular orbital study of the nitrogen basicity of prazosin analogues in relation to their β -1-adrenoceptor binding affinity. <i>Computational and Theoretical Chemistry</i> , 1991, 233, 343-351.	1.5	16
60	Theoretical quantitative size and shape activity and selectivity analyses of 5-HT _{1A} serotonin and β -1-adrenergic receptor ligands. <i>Computational and Theoretical Chemistry</i> , 1994, 305, 101-110.	1.5	16
61	Viscosimetric properties and internal structure of N,N-dimethylformamide + 1,2-dimethoxyethane binary mixtures. <i>Journal of Molecular Liquids</i> , 2003, 102, 309-345.	4.9	15
62	Use of X-ray diffraction technique and chemometrics to aid soil sampling strategies in traceability studies. <i>Talanta</i> , 2012, 98, 178-184.	5.5	15
63	QSAR Analysis in 2,4-Diamino-6,7-dimethoxy Quinoline Derivatives " β -1-Adrenoceptor Antagonists " Using the Partial Least Squares (PLS) Method and Theoretical Molecular Descriptors. <i>QSAR and Combinatorial Science</i> , 1990, 9, 340-345.	1.2	14
64	Model calculations of chemical interactions. Part 2. "Intramolecular interactions and double-bond pyramidalization in polycyclic alkenes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 783-787.	1.7	14
65	Theoretical quantitative structure-activity analysis and pharmacophore modelling of selective non-congeneric β -1a-adrenergic antagonists. <i>Computational and Theoretical Chemistry</i> , 1993, 280, 283-290.	1.5	14
66	Computer Modeling of Size and Shape Descriptors of β -1-Adrenergic Receptor Antagonists and Quantitative Structure " Affinity/Selectivity Relationships. <i>Methods</i> , 1998, 14, 239-254.	3.8	14
67	Chemical composition and characterisation of seeds from two varieties (pure and hybrid) of <i>Aesculus hippocastanum</i> . <i>Food Chemistry</i> , 2007, 104, 229-236.	8.2	14
68	The heuristic-direct approach to theoretical quantitative structure-activity relationship analysis of β -1-adrenoceptor ligands. <i>Computational and Theoretical Chemistry</i> , 1994, 314, 265-276.	1.5	13
69	Soil sampling planning in traceability studies by means of Experimental Design approaches. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 124, 14-20.	3.5	13
70	Multivariate data analysis to assess dry powder inhalers performance from powder properties. <i>Powder Technology</i> , 2016, 301, 830-838.	4.2	13
71	Towards a routine application of vibrational spectroscopy to the detection of bone fragments in feedingstuffs: Use and validation of a NIR scanning microscopy method. <i>Food Chemistry</i> , 2010, 121, 826-831.	8.2	12
72	Prototropic molecular forms and theoretical descriptors in QSAR analysis. <i>Computational and Theoretical Chemistry</i> , 1995, 333, 1-17.	1.5	11

#	ARTICLE	IF	CITATIONS
73	Conformational analysis and theoretical quantitative size and shape-affinity relationships of N4-protonated N1-arylpiperazine 5-HT1A serotonergic ligands. <i>Computational and Theoretical Chemistry</i> , 1997, 397, 129-145.	1.5	11
74	Use of the Supermolecule Approach to Derive Molecular Similarity Descriptors for QSAR Analysis. <i>Journal of Molecular Modeling</i> , 1998, 4, 113-131.	1.8	11
75	Density and Volume Properties of the 2-Methoxyethanol + 1,2-Dimethoxyethane + Water Ternary Solvent System at Various Temperatures. <i>Physics and Chemistry of Liquids</i> , 2001, 39, 151-168.	1.2	11
76	Model calculations of chemical interactions. Part 1. "Intramolecular interactions and rotational barriers. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 777-781.	1.7	10
77	Viscosity of (ethane-1,2-diol + 1,2-dimethoxyethane + water) at temperatures from 263.15 K to 353.15 K. <i>Journal of Chemical Thermodynamics</i> , 2002, 34, 593-611.	2.0	10
78	Wavelet modeling for wavelet filter determination in multivariate image analysis. <i>Journal of Chemometrics</i> , 2015, 29, 379-388.	1.3	10
79	Fused adjacency matrices to enhance information extraction: The beer benchmark. <i>Analytica Chimica Acta</i> , 2019, 1061, 70-83.	5.4	10
80	Use of Multivariate Analysis of MIR Spectra to Study Bread Staling. <i>Annali Di Chimica</i> , 2005, 95, 657-666.	0.6	9
81	Multi-sensor data fusion and parallel factor analysis reveals kinetics of wood weathering. <i>Talanta</i> , 2021, 225, 122024.	5.5	9
82	Chemometric-assisted cocrystallization: supervised pattern recognition for predicting the formation of new functional cocrystals. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 226, 104580.	3.5	9
83	Title is missing!. <i>Journal of Solution Chemistry</i> , 2001, 30, 149-169.	1.2	8
84	Analytical Concentrations of Some Elements in Seeds and Crude Extracts from <i>Aesculus hippocastanum</i> , by ICP-OES Technique. <i>Agronomy</i> , 2021, 11, 47.	3.0	8
85	Studies of ¹³ C n.m.r. substituent chemical shifts of disubstituted benzenes using multivariate data analysis. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1989, , 1773.	0.9	7
86	Electronic and electrostatic aspects of carbonic anhydrase inhibition by sulphonamides. <i>Computational and Theoretical Chemistry</i> , 1992, 256, 217-229.	1.5	7
87	The ad hoc supermolecule approach to receptor ligand design. <i>Computational and Theoretical Chemistry</i> , 2000, 503, 1-16.	1.5	7
88	At-Line Monitoring of the Leavening Process in Industrial Bread Making by near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2008, 16, 223-231.	1.5	7
89	Investigation of the applicability of Zernike moments to the classification of SDS 2D-PAGE maps. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1419-1431.	3.7	7
90	Exploring local spatial features in hyperspectral images. <i>Journal of Chemometrics</i> , 2020, 34, e3295.	1.3	7

#	ARTICLE	IF	CITATIONS
91	Fast GC E-Nose and Chemometrics for the Rapid Assessment of Basil Aroma. <i>Chemosensors</i> , 2022, 10, 105.	3.6	7
92	Study of the Dependence on Temperature and Composition of the Volumic Properties of Ethane-1,2-diol + 2-Methoxyethanol + 1,2-Dimethoxyethane + Water Solvent System and Graphical Representation in the Quaternary Domain. <i>Journal of Solution Chemistry</i> , 2006, 35, 139-159.	1.2	6
93	Changes in the Chemical Composition of Reduced Cooked Musts during the Heating Process. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 6397-6407.	5.2	6
94	Evaluation of the behaviour of fluorine-containing bioactive glasses: reactivity in a simulated body fluid solution assisted by multivariate data analysis. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 639-648.	3.6	6
95	A metabolomic data fusion approach to support gliomas grading. <i>NMR in Biomedicine</i> , 2020, 33, e4234.	2.8	6
96	Quantitative structure-affinity/selectivity relationship analysis on three-dimensional models of the complexes between the ETA and ETB receptors and C-terminal endothelin hexapeptide antagonists. <i>Computational and Theoretical Chemistry</i> , 1995, 333, 243-248.	1.5	5
97	A Study of the Dielectric Behaviour and the Liquid Structure of a Ternary Solvent System. <i>Annali Di Chimica</i> , 2004, 94, 165-176.	0.6	5
98	Characterization of Basil Volatile Fraction and Study of Its Agronomic Variation by ASCA. <i>Molecules</i> , 2021, 26, 3842.	3.8	5
99	Fusing NIR and Process Sensors Data for Polymer Production Monitoring. <i>Frontiers in Chemistry</i> , 2021, 9, 748723.	3.6	5
100	A theoretical study of conformation-electronic structure relationships in benzenesulfonamide inhibitors of the carbonic anhydrase enzyme. <i>Computational and Theoretical Chemistry</i> , 1989, 183, 393-401.	1.5	4
101	Determination of Metal Concentration in Fat Supplements for Swine Nutrition by Atomic Absorption Spectroscopy. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 393-398.	1.5	4
102	Wheat flour formulation by mixture design and multivariate study of its technological properties. <i>Journal of Chemometrics</i> , 2010, 24, 523-533.	1.3	4
103	Seeds of Horse Chestnut (<i>Aesculus hippocastanum</i> L.) and Their Possible Utilization for Human Consumption. , 2011, , 653-661.		4
104	GENOCOP algorithm and hierarchical grid transformation for image warping of two dimensional gel electrophoretic maps. <i>Molecular BioSystems</i> , 2012, 8, 975.	2.9	4
105	Coupling 2D wavelet decomposition and multivariate image analysis (2D WT-MIA). <i>Journal of Chemometrics</i> , 2018, 32, e2970.	1.3	4
106	A New Protocol of Computer-Assisted Image Analysis Highlights the Presence of Hemocytes in the Regenerating Cephalic Tentacles of Adult <i>Pomacea canaliculata</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 5023.	4.1	4
107	Ceramic polyaniline-carbon composite obtained by ultrasound-assisted sol-gel route: Electrochemical performance towards environmental pollutants. <i>Journal of Electroanalytical Chemistry</i> , 2022, 905, 115971.	3.8	4
108	Multiresolution Analysis and Chemometrics for Pattern Enhancement and Resolution in Spectral Signals and Images. <i>Data Handling in Science and Technology</i> , 2016, , 409-451.	3.1	3

#	ARTICLE	IF	CITATIONS
109	Temperature and composition dependence of the refractive indices of the 2-chloroethanol + 2-methoxyethanol binary mixtures. <i>Annali Di Chimica</i> , 2002, 92, 187-201.	0.6	3
110	A Multiblock Approach to Fuse Process and Near-Infrared Sensors for On-Line Prediction of Polymer Properties. <i>Sensors</i> , 2022, 22, 1436.	3.8	3
111	Theoretical conformational analysis, electronic structure and molecular modelling studies in dihydropteroate synthase inhibition by multisubstituted s. <i>Computational and Theoretical Chemistry</i> , 1991, 233, 293-300.	1.5	2
112	Correlation and multivariate analyses of spectroscopic and dihydropteroate synthase inhibitory activity data in 4-aminoaryl (multisubstituted aryl) sulfones. <i>Structural Chemistry</i> , 1992, 3, 129-137.	2.0	2
113	Computational Insights into ADAMTS4, ADAMTS5 and MMP13 Inhibitor Selectivity. <i>Molecular Informatics</i> , 2012, 31, 421-430.	2.5	2
114	Correlation and multivariate analyses of the spectroscopic data in 4- ϵ^2 -substituted 4-nitrodiphenylsulfones. <i>Structural Chemistry</i> , 1991, 2, 47-55.	2.0	1
115	A molecular dynamics simulation of sequence-directed recognition peptides interacting with bigendotherlin. <i>Computational and Theoretical Chemistry</i> , 1993, 286, 95-108.	1.5	1
116	Monitoring Flour Performance in Bread Making. , 2011, , 15-25.		1
117	Modeling the Binding Affinity of p38 $\hat{\pm}$ MAP Kinase Inhibitors by Partial Least Squares Regression. <i>Chemical Biology and Drug Design</i> , 2012, 80, 455-470.	3.2	1
118	A novel proposal to investigate the interplay between the spatial and spectral domains in near-infrared spectral imaging data by means of Image Decomposition, Encoding and Localization (IDEL). <i>Analytica Chimica Acta</i> , 2022, 1191, 339285.	5.4	1
119	Beta-functionalised polythiophenes as microelectrode modifiers in low conductive media. <i>Annali Di Chimica</i> , 2002, 92, 177-85.	0.6	1
120	Multi Way Classification. , 2020, , 701-721.		0
121	Determination of metal concentration in fat supplements for swine nutrition by atomic absorption spectroscopy. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 393-8.	1.5	0