Marina Cocchi

List of Publications by Year
in descending order

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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	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). Analytica Chimica Acta, 2022, 1191, 339285.	5.4	1
2	Ceramic polyaniline-carbon composite obtained by ultrasound-assisted solâ€“gel route: Electrochemical performance towards environmental pollutants. Journal of Electroanalytical Chemistry, 2022, 905, 115971.	3.8	4
3	A Multiblock Approach to Fuse Process and Near-Infrared Sensors for On-Line Prediction of Polymer Properties. Sensors, 2022, 22, 1436.	3.8	3
4	Fast GC E-Nose and Chemometrics for the Rapid Assessment of Basil Aroma. Chemosensors, 2022, 10, 105.	3.6	7
5	Chemometric-assisted cocrystallization: supervised pattern recognition for predicting the formation of new functional cocrystals. Chemometrics and Intelligent Laboratory Systems, 2022, 226, 104580.	3.5	9
6	A Metabolomic Approach to Beer Characterization. Molecules, 2021, 26, 1472.	3.8	17
7	Multi-sensor data fusion and parallel factor analysis reveals kinetics of wood weathering. Talanta, 2021, 225, 122024.	5.5	9
8	A New Protocol of Computer-Assisted Image Analysis Highlights the Presence of Hemocytes in the Regenerating Cephalic Tentacles of Adult Pomacea canaliculata. International Journal of Molecular Sciences, 2021, 22, 5023.	4.1	4
9	Characterization of Basil Volatile Fraction and Study of Its Agronomic Variation by ASCA. Molecules, 2021, 26, 3842.	3.8	5
10	Analytical Concentrations of Some Elements in Seeds and Crude Extracts from Aesculus hippocastanum, by ICP-OES Technique. Agronomy, 2021, 11, 47.	3.0	8
11	Fusing NIR and Process Sensors Data for Polymer Production Monitoring. Frontiers in Chemistry, 2021, 9, 748723.	3.6	5
12	A metabolomic data fusion approach to support gliomas grading. NMR in Biomedicine, 2020, 33, e4234.	2.8	6
13	Exploring local spatial features in hyperspectral images. Journal of Chemometrics, 2020, 34, e3295.	1.3	7
14	Preliminary Assessment of Parmigiano Reggiano Authenticity by Handheld Raman Spectroscopy. Foods, 2020, 9, 1563.	4.3	19
15	Multi Way Classification. , 2020, , 701-721.		0
16	Data fusion approaches in spectroscopic characterization and classification of PDO wine vinegars. Talanta, 2019, 198, 560-572.	5.5	61
17	Data Fusion Strategies in Food Analysis. Data Handling in Science and Technology, 2019, , 271-310.	3.1	36
18	Fused adjacency matrices to enhance information extraction: The beer benchmark. Analytica Chimica Acta, 2019, 1061, 70-83.	5.4	10

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19	Development of 87 Sr/ 86 Sr maps as targeted strategy to support wine quality. Food Chemistry, 2018, 255, 139-146.	8.2	30
20	Coupling 2Dâ€wavelet decomposition and multivariate image analysis (2D WTâ€MIA). Journal of Chemometrics, 2018, 32, e2970.	1.3	4
21	Chemometric Methods for Classification and Feature Selection. Comprehensive Analytical Chemistry, 2018, , 265-299.	1.3	63
22	Multivariate data analysis to assess dry powder inhalers performance from powder properties. Powder Technology, 2016, 301, 830-838.	4.2	13
23	Multiresolution Analysis and Chemometrics for Pattern Enhancement and Resolution in Spectral Signals and Images. Data Handling in Science and Technology, 2016, , 409-451.	3.1	3
24	Nâ€way modeling for wavelet filter determination in multivariate image analysis. Journal of Chemometrics, 2015, 29, 379-388.	1.3	10
25	An analytical approach to Sr isotope ratio determination in Lambrusco wines for geographical traceability purposes. Food Chemistry, 2015, 173, 557-563.	8.2	60
26	Ranking brain areas encoding the perceived level of pain from fMRI data. NeuroImage, 2014, 90, 153-162.	4.2	40
27	A mid level data fusion strategy for the Varietal Classification of Lambrusco PDO wines. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 181-189.	3.5	60
28	Determination of phenolic compounds and authentication of PDO Lambrusco wines by HPLC-DAD and chemometric techniques. Analytica Chimica Acta, 2013, 761, 34-45.	5.4	44
29	RP-HPLC and chemometrics for wheat flour protein characterisation in an industrial bread-making process monitoring context. Food Chemistry, 2013, 139, 553-562.	8.2	21
30	Near infrared spectroscopy and multivariate analysis to evaluate wheat flour doughs leavening and bread properties. Analytica Chimica Acta, 2013, 764, 17-23.	5.4	17
31	Geographical traceability based on 87Sr/86Sr indicator: A first approach for PDO Lambrusco wines from Modena. Food Chemistry, 2013, 141, 2779-2787.	8.2	65
32	Soil sampling planning in traceability studies by means of Experimental Design approaches. Chemometrics and Intelligent Laboratory Systems, 2013, 124, 14-20.	3.5	13
33	Assessing feature relevance in NPLS models by VIP. Chemometrics and Intelligent Laboratory Systems, 2013, 129, 76-86.	3.5	84
34	Application of data fusion techniques to direct geographical traceability indicators. Analytica Chimica Acta, 2013, 769, 1-9.	5.4	32
35	Classification Methods of Multiway Arrays as a Basic Tool for Food PDO Authentication. Comprehensive Analytical Chemistry, 2013, , 339-382.	1.3	20
36	The Impact of Chemometrics on Food Traceability. Data Handling in Science and Technology, 2013, 28, 371-410.	3.1	18

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37	GENOCOP algorithm and hierarchical grid transformation for image warping of two dimensional gel eletrophoretic maps. Molecular BioSystems, 2012, 8, 975.	2.9	4
38	Use of X-ray diffraction technique and chemometrics to aid soil sampling strategies in traceability studies. Talanta, 2012, 98, 178-184.	5.5	15
39	Computational Insights into ADAMTS4, ADAMTS5 and MMP13 Inhibitor Selectivity. Molecular Informatics, 2012, 31, 421-430.	2.5	2
40	Modeling the Binding Affinity of p38Î± MAP Kinase Inhibitors by Partial Least Squares Regression. Chemical Biology and Drug Design, 2012, 80, 455-470.	3.2	1
41	Evaluation of the behaviour of fluorine-containing bioactive glasses: reactivity in a simulated body fluid solution assisted by multivariate data analysis. Journal of Materials Science: Materials in Medicine, 2012, 23, 639-648.	3.6	6
42	Monitoring Flour Performance in Bread Making. , 2011, , 15-25.		1
43	Optimization of a Dynamic Headspace â€“ Thermal Desorption â€“ Gas Chromatography/Mass Spectrometry procedure for the determination of furfurals in vinegars. Talanta, 2011, 85, 863-869.	5.5	27
44	Investigation of the applicability of Zernike moments to the classification of SDS 2D-PAGE maps. Analytical and Bioanalytical Chemistry, 2011, 400, 1419-1431.	3.7	7
45	Evolution of 5-(hydroxymethyl)furfural and furfural in the production chain of the aged vinegar Aceto Balsamico Tradizionale di Modena. Food Chemistry, 2011, 124, 822-832.	8.2	23
46	A classification tool for N-way array based on SIMCA methodology. Chemometrics and Intelligent Laboratory Systems, 2011, 106, 73-85.	3.5	49
47	Seeds of Horse Chestnut (Aesculus hippocastanum L.) and Their Possible Utilization for Human Consumption. , 2011, , 653-661.		4
48	Wheat flour formulation by mixture design and multivariate study of its technological properties. Journal of Chemometrics, 2010, 24, 523-533.	1.3	4
49	Towards a routine application of vibrational spectroscopy to the detection of bone fragments in feedingstuffs: Use and validation of a NIR scanning microscopy method. Food Chemistry, 2010, 121, 826-831.	8.2	12
50	Molecular dynamics simulations of sodium silicate glasses: Optimization and limits of the computational procedure. Computational Materials Science, 2010, 47, 739-751.	3.0	26
51	Near Infrared Spectroscopy and multivariate analysis methods for monitoring flour performance in an industrial bread-making process. Analytica Chimica Acta, 2009, 642, 69-76.	5.4	33
52	Different feature selection strategies in the wavelet domain applied to NIR-based quality classification models of bread wheat flours. Chemometrics and Intelligent Laboratory Systems, 2009, 99, 91-100.	3.5	42
53	Discrimination of Healthy and Neoplastic Human Colon Tissues by ex Vivo HR-MAS NMR Spectroscopy and Chemometric Analyses. Journal of Proteome Research, 2009, 8, 1859-1869.	3.7	39
54	Multicomponent analysis in the wavelet domain of highly overlapped electrochemical signals: Resolution of quaternary mixtures of chlorophenols using a peg-modified Sonogelâ€“Carbon electrode. Chemometrics and Intelligent Laboratory Systems, 2008, 91, 110-120.	3.5	29

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55	Three-way principal component analysis of the volatile fraction by HS-SPME/GC of aceto balsamico tradizionale of modena. Talanta, 2008, 74, 547-554.	5.5	27
56	Mitochondrial DNA Haplogroups and Highly Active Antiretroviral Therapyâ€“Related Lipodystrophy. Clinical Infectious Diseases, 2008, 47, 962-968.	5.8	26
57	Changes in the Chemical Composition of Reduced Cooked Musts during the Heating Process. Journal of Agricultural and Food Chemistry, 2008, 56, 6397-6407.	5.2	6
58	At-Line Monitoring of the Leavening Process in Industrial Bread Making by near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2008, 16, 223-231.	1.5	7
59	Subject classification obtained by cluster analysis and principal component analysis applied to flow cytometric data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 334-344.	1.5	97
60	Characterization and discrimination of different aged â€˜Aceto Balsamico Tradizionale di Modenaâ€™ products by head space mass spectrometry and chemometrics. Analytica Chimica Acta, 2007, 589, 96-104.	5.4	41
61	Chemical composition and characterisation of seeds from two varieties (pure and hybrid) of Aesculus hippocastanum. Food Chemistry, 2007, 104, 229-236.	8.2	14
62	Study of the monosaccharides and furfurals evolution during the preparation of cooked grape musts for Aceto Balsamico Tradizionale production. Journal of Food Engineering, 2007, 79, 1438-1444.	5.2	28
63	Analysis of sensory data of Aceto Balsamico Tradizionale di Modena (ABTM) of different ageing by application of PARAFAC models. Food Quality and Preference, 2006, 17, 419-428.	4.6	45
64	Durum wheat adulteration detection by NIR spectroscopy multivariate calibration. Talanta, 2006, 68, 1505-1511.	5.5	75
65	Simultaneous determination of sugars and organic acids in aged vinegars and chemometric data analysis. Talanta, 2006, 69, 1166-1175.	5.5	89
66	Application of N-PLS to gas chromatographic and sensory data of traditional balsamic vinegars of modena. Chemometrics and Intelligent Laboratory Systems, 2006, 83, 54-65.	3.5	68
67	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. Journal of Solution Chemistry, 2006, 35, 139-159.	1.2	6
68	Classification of bread wheat flours in different quality categories by a wavelet-based feature selection/classification algorithm on NIR spectra. Analytica Chimica Acta, 2005, 544, 100-107.	5.4	90
69	Application of infrared spectroscopy and multivariate quality-control methods in PVC manufacturing. Analytica Chimica Acta, 2005, 554, 207-217.	5.4	20
70	Use of Multivariate Analysis of MIR Spectra to Study Bread Staling. Annali Di Chimica, 2005, 95, 657-666.	0.6	9
71	Determination of Metal Concentration in Fat Supplements for Swine Nutrition by Atomic Absorption Spectroscopy. Journal of AOAC INTERNATIONAL, 2005, 88, 393-398.	1.5	4
72	Determination of metal concentration in fat supplements for swine nutrition by atomic absorption spectroscopy. Journal of AOAC INTERNATIONAL, 2005, 88, 393-8.	1.5	0

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73	Classification of Cereal Flours by Chemometric Analysis of MIR Spectra. Journal of Agricultural and Food Chemistry, 2004, 52, 1062-1067.	5.2	45
74	A Study of the Dielectric Behaviour and the Liquid Structure of a Ternary Solvent System. Annali Di Chimica, 2004, 94, 165-176.	0.6	5
75	Application of a wavelet-based algorithm on HS-SPME/GC signals for the classification of balsamic vinegars. Chemometrics and Intelligent Laboratory Systems, 2004, 71, 129-140.	3.5	57
76	Automated evaluation of food colour by means of multivariate image analysis coupled to a wavelet-based classification algorithm. Analytica Chimica Acta, 2004, 515, 3-13.	5.4	95
77	A Chemometric Approach to the Comparison of Different Sample Treatments for Metals Determination by Atomic Absorption Spectroscopy in Aceto Balsamico Tradizionale di Modena. Journal of Agricultural and Food Chemistry, 2004, 52, 4047-4056.	5.2	27
78	Multivariate calibration of analytical signals by WILMA (wavelet interface to linear modelling) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.3	33
79	Viscosimetric properties and internal structure of N,N-dimethylformamide + 1,2-dimethoxyethane binary mixtures. Journal of Molecular Liquids, 2003, 102, 309-345.	4.9	15
80	Multicomponent analysis of electrochemical signals in the wavelet domain. Talanta, 2003, 59, 735-749.	5.5	49
81	Determination of Carboxylic Acids in Vinegars and in Aceto Balsamico Tradizionale di Modena by HPLC and GC Methods. Journal of Agricultural and Food Chemistry, 2002, 50, 5255-5261.	5.2	82
82	Viscosity of (ethane-1,2-diol + 1,2-dimethoxyethane + water) at temperatures from 263.15 K to 353.15 K. Journal of Chemical Thermodynamics, 2002, 34, 593-611.	2.0	10
83	Beta-functionalised polythiophenes as microelectrode modifiers in low conductive media. Annali Di Chimica, 2002, 92, 177-85.	0.6	1
84	Temperature and composition dependence of the refractive indices of the 2-chloroethanol + 2-methoxyethanol binary mixtures. Annali Di Chimica, 2002, 92, 187-201.	0.6	3
85	WPTER: wavelet packet transform for efficient pattern recognition of signals. Chemometrics and Intelligent Laboratory Systems, 2001, 57, 97-119.	3.5	55
86	Title is missing!. Journal of Solution Chemistry, 2001, 30, 149-169.	1.2	8
87	The Ethane-1,2-diol + 2-methoxyethanol + 1,2-dimethoxyethane Ternary Solvent System: Density and Volume Properties at Different Temperatures. Physics and Chemistry of Liquids, 2001, 39, 481-498.	1.2	17
88	Density and Volume Properties of the 2-Methoxyethanol + 1,2-Dimethoxyethane + Water Ternary Solvent System at Various Temperatures. Physics and Chemistry of Liquids, 2001, 39, 151-168.	1.2	11
89	Density and volumetric properties of ethane-1,2-diol+di-ethylen-glycol mixtures at different temperatures. Fluid Phase Equilibria, 2000, 172, 93-104.	2.5	34
90	The ad hoc supermolecule approach to receptor ligand design. Computational and Theoretical Chemistry, 2000, 503, 1-16.	1.5	7

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91	Kinematic viscosities of ternary mixtures containing ethane-1,2-diol, 2-methoxyethanol and water from â^'10Â°C to 80Â°C. Fluid Phase Equilibria, 1999, 157, 317-342.	2.5	20
92	Development of Quantitative Structureâ^'Property Relationships Using Calculated Descriptors for the Prediction of the Physicochemical Properties (nD, Ï, bp, Îµ, Î·) of a Series of Organic Solvents. Journal of Chemical Information and Computer Sciences, 1999, 39, 1190-1203.	2.8	61
93	Use of the Supermolecule Approach to Derive Molecular Similarity Descriptors for QSAR Analysis. Journal of Molecular Modeling, 1998, 4, 113-131.	1.8	11
94	Computer Modeling of Size and Shape Descriptors of Î±1-Adrenergic Receptor Antagonists and Quantitative Structureâ€"Affinity/Selectivity Relationships. Methods, 1998, 14, 239-254.	3.8	14
95	Conformational analysis and theoretical quantitative size and shape-affinity relationships of N4-protonated N1-arylpiperazine 5-HT1A serotoninergic ligands. Computational and Theoretical Chemistry, 1997, 397, 129-145.	1.5	11
96	Î±1-Adrenoceptor subtype selectivity: Molecular modelling and theoretical quantitative structureâ€"affinity relationships. Bioorganic and Medicinal Chemistry, 1997, 5, 809-816.	3.0	27
97	Theoretical quantitative structure-activity relationship analysis of congeneric and non-congeneric Î±1-adrenoceptor antagonists: a chemometric study. Computational and Theoretical Chemistry, 1995, 331, 79-93.	1.5	26
98	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. Computational and Theoretical Chemistry, 1995, 333, 243-248.	1.5	5
99	Comparative molecular dynamics study of the seven-helix bundle arrangement of G-protein coupled receptors. Computational and Theoretical Chemistry, 1995, 333, 49-69.	1.5	18
100	Prototropic molecular forms and theoretical descriptors in QSAR analysis. Computational and Theoretical Chemistry, 1995, 333, 1-17.	1.5	11
101	The heuristic-direct approach to theoretical quantitative structure-activity relationship analysis of Î±1-adrenoceptor ligands. Computational and Theoretical Chemistry, 1994, 314, 265-276.	1.5	13
102	Theoretical quantitative size and shape activity and selectivity analyses of 5-HT1A serotonin and Î±1-adrenergic receptor ligands. Computational and Theoretical Chemistry, 1994, 305, 101-110.	1.5	16
103	Theoretical quantitative structure-activity analysis and pharmacophore modelling of selective non-congeneric Î±1a-adrenergic antagonists. Computational and Theoretical Chemistry, 1993, 280, 283-290.	1.5	14
104	The heuristic-direct approach to quantitative structure-activity relationship analysis. Computational and Theoretical Chemistry, 1993, 285, 147-153.	1.5	18
105	A molecular dynamics simulation of sequence-directed recognition peptides interacting with bigendothelin. Computational and Theoretical Chemistry, 1993, 286, 95-108.	1.5	1
106	Amino Acids Characterization by GRID and Multivariate Data Analysis. QSAR and Combinatorial Science, 1993, 12, 1-8.	1.2	69
107	Correlation and multivariate analyses of spectroscopic and dihydropteroate synthase inhibitory activity data in 4-aminoaryl (multisubstituted aryl) sulfones. Structural Chemistry, 1992, 3, 129-137.	2.0	2
108	Theoretical versus empirical molecular descriptors in monosubstituted benzenes. Chemometrics and Intelligent Laboratory Systems, 1992, 14, 209-224.	3.5	28

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109	Molecular modelling and quantitative structure- activity relationship analysis using theoretical descriptors of 1,4-benzodioxan (WB-4101) related compounds Î±1-adrenergic antagonists. Computational and Theoretical Chemistry, 1992, 276, 327-340.	1.5	20
110	Electronic and electrostatic aspects of carbonic anhydrase inhibition by sulphonamides. Computational and Theoretical Chemistry, 1992, 256, 217-229.	1.5	7
111	Model calculations of chemical interactions. Part 3.â€"Rotational energy profiles in simple molecules: evaluation, additivity and role of bondâ€"bond, bondâ€"lone-pair and lone-pairâ€"lone-pair interactions. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 249-258.	1.7	19
112	Theoretical conformational analysis, electronic structure and molecular modelling studies in dihydropteroate synthase in hibition by multisubstituted s. Computational and Theoretical Chemistry, 1991, 233, 293-300.	1.5	2
113	Molecular orbital study of the nitrogen basicity of prazosin analogues in relation to their Î±1-adrenoceptor binding affinity. Computational and Theoretical Chemistry, 1991, 233, 343-351.	1.5	16
114	Conformational analysis, molecular modeling and quantitative structure-activity relationship studies of 2,4-diamino-6,7-dimethoxy-2-substituted quinazoline Î±1-adrenergic antagonists. Computational and Theoretical Chemistry, 1991, 251, 307-318.	1.5	20
115	Correlation and multivariate analyses of the spectroscopic data in 4â€²-substituted 4-nitrodiphenylsulfones. Structural Chemistry, 1991, 2, 47-55.	2.0	1
116	QSAR Analysis in 2,4-Diamino-6,7-dimethoxy Quinoline Derivatives Ã¢Â€Â“ ÃŽÂ±1-Adrenoceptor Antagonists Ã¢Â€Â“ Using the Partial Least Squares (PLS) Method and Theoretical Molecular Descriptors. QSAR and Combinatorial Science, 1990, 9, 340-345.	1.2	14
117	Model calculations of chemical interactions. Part 1.â€"Intramolecular interactions and rotational barriers. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 777-781.	1.7	10
118	Model calculations of chemical interactions. Part 2.â€"Intramolecular interactions and double-bond pyramidalization in polycyclic alkenes. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 783-787.	1.7	14
119	A theoretical study of conformation-electronic structure relationships in benzensulfonamide inhibitors of the carbonic anhydrase enzyme. Computational and Theoretical Chemistry, 1989, 183, 393-401.	1.5	4
120	Studies of 13C n.m.r. substituent chemical shifts of disubstituted benzenes using multivariate data analysis. Journal of the Chemical Society Perkin Transactions II, 1989, , 1773.	0.9	7
121	A Quantum Chemical QSAR Analysis of Carbonic Anhydrase Inhibition by Heterocyclic Sulfonamides. Sulfonamide Carbonic Anhydrase Inhibitors: Quantum Chemical QSAR. QSAR and Combinatorial Science, 1987, 6, 51-53.	1.2	22