Miguel Angel GÃ³mez Nieto

List of Publications by Year
in descending order

110 papers	1,093 citations	516710 16 h-index	477307 29 g-index
116 all docs	116 docs citations	116 times ranked	1015 citing authors

#	Article	IF	Citations
1	Ultravioletâ€“visible spectroscopy and pattern recognition methods for differentiation and classification of wines. Food Chemistry, 2006, 97, 166-175.	8.2	102
2	Near infrared reflectance spectroscopy and multivariate analysis in enology. Analytica Chimica Acta, 2004, 527, 81-88.	5.4	91
3	Comparison and joint use of near infrared spectroscopy and Fourier transform mid infrared spectroscopy for the determination of wine parameters. Talanta, 2005, 66, 218-224.	5.5	91
4	Mobile social media for smart grids customer engagement: Emerging trends and challenges. Renewable and Sustainable Energy Reviews, 2016, 53, 1611-1616.	16.4	84
5	State of the Art, Trends and Future of Bluetooth Low Energy, Near Field Communication and Visible Light Communication in the Development of Smart Cities. Sensors, 2016, 16, 1968.	3.8	55
6	A NFC-based pervasive solution for city touristic surfing. Personal and Ubiquitous Computing, 2011, 15, 731-742.	2.8	45
7	Prediction of the behaviour of a single flow-injection manifold. Talanta, 1985, 32, 319-324.	5.5	28
8	QSAR models based on isomorphic and nonisomorphic data fusion for predicting the blood brain barrier permeability. Journal of Computational Chemistry, 2007, 28, 1252-1260.	3.3	28
9	Step-by-Step Calculation of All Maximum Common Substructures through a Constraint Satisfaction Based Algorithm. Journal of Chemical Information and Computer Sciences, 2004, 44, 30-41.	2.8	27
10	Study of the Applicability Domain of the QSAR Classification Models by Means of the Rivality and Modelability Indexes. Molecules, 2018, 23, 2756.	3.8	26
11	A flow-injection manifold based on splitting the sample zone and a confluence point before a single detector unit. Analytica Chimica Acta, 1984, 165, 217-226.	5.4	23
12	Refinement and Use of the Approximate Similarity in QSAR Models for Benzodiazepine Receptor Ligands. Journal of Chemical Information and Modeling, 2006, 46, 2022-2029.	5.4	20
13	A Steroids QSAR Approach Based on Approximate Similarity Measurements. Journal of Chemical Information and Modeling, 2006, 46, 1678-1686.	5.4	18
14	How NFC Can Be Used for the Compliance of European Higher Education Area Guidelines in European Universities. , 2009, , .		18
15	A fully automated method for in real time determination of laccase activity in wines. Analytica Chimica Acta, 2005, 553, 99-104.	5.4	17
16	Study of spectral analytical data using fingerprints and scaled similarity measurements. Analytical and Bioanalytical Chemistry, 2005, 381, 953-963.	3.7	17
17	A Model for the Development of NFC Context-Awareness Applications on Internet of Things. , 2010, , .		17
18	Study of Data Set Modelability: Modelability, Rivality, and Weighted Modelability Indexes. Journal of Chemical Information and Modeling, 2018, 58, 1798-1814.	5.4	17

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19	A Ubiquitous NFC Solution for the Development of Tailored Marketing Strategies Based on Discount Vouchers and Loyalty Cards. Sensors, 2013, 13, 6334-6354.	3.8	15
20	Clustering Chemical Databases Using Adaptable Projection Cells and MCS Similarity Values. Journal of Chemical Information and Modeling, 2005, 45, 1178-1194.	5.4	13
21	NFC Solution for the Development of Smart Scenarios Supporting Tourism Applications and Surfing in Urban Environments. Lecture Notes in Computer Science, 2010, , 229-238.	1.3	13
22	Use of NFC-based Pervasive Games for Encouraging Learning and Student Motivation. , 2011, , .		13
23	An NFC based context-aware solution for access to bibliographic sources in university environments. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 105-118.	1.4	13
24	Robust QSAR prediction models for volume of distribution at steady state in humans using relative distance measurements. SAR and QSAR in Environmental Research, 2018, 29, 529-550.	2.2	13
25	Advantages of Relative versus Absolute Data for the Development of Quantitative Structureâ€“Activity Relationship Classification Models. Journal of Chemical Information and Modeling, 2017, 57, 2776-2788.	5.4	12
26	Polarographic behaviour of 2-benzoylpyridine oxime by classic and differential pulse polarography techniques. Electrochimica Acta, 1983, 28, 325-330.	5.2	11
27	Computer methods for the calculation of complex formation constants by differential pulse polarography. Analytica Chimica Acta, 1984, 156, 77-85.	5.4	11
28	Data Fusion of Similarity and Dissimilarity Measurements Using Wiener-Based Indices for the Prediction of the NPY Y5 Receptor Antagonist Capacity of Benzoxazinones. Journal of Chemical Information and Modeling, 2007, 47, 2235-2241.	5.4	10
29	Analysis and Study of Molecule Data Sets Using Snowflake Diagrams of Weighted Maximum Common Subgraph Trees. Journal of Chemical Information and Modeling, 2011, 51, 1216-1232.	5.4	10
30	University Smart Poster: Study of NFC Technology Applications for University Ambient. Advances in Soft Computing, 2009, , 112-116.	0.4	9
31	Cyclical Conjunction:â€‰ An Efficient Operator for the Extraction of Cycles from a Graph. Journal of Chemical Information and Computer Sciences, 2002, 42, 1415-1424.	2.8	8
32	Representation of the Molecular Topology of Cyclical Structures by Means of Cycle Graphs. 1. Extraction of Topological Properties. Journal of Chemical Information and Computer Sciences, 2004, 44, 447-461.	2.8	8
33	Computer translation of inorganic chemical nomenclature to a dynamic abstract data structure. Journal of Chemical Information and Computer Sciences, 1994, 34, 526-533.	2.8	7
34	Error Detection, Recovery, and Repair in the Translation of Inorganic Nomenclatures. 1. A Study of the Problem. Journal of Chemical Information and Computer Sciences, 1996, 36, 7-15.	2.8	7
35	Representation of the Molecular Topology of Cyclical Structures by Means of Cycle Graphs. 3. Hierarchical Model of Screening of Chemical Databases. Journal of Chemical Information and Computer Sciences, 2004, 44, 1903-1911.	2.8	7
36	Representation of the Molecular Topology of Cyclical Structures by Means of Cycle Graphs. 2. Application to Clustering of Chemical Databases. Journal of Chemical Information and Computer Sciences, 2004, 44, 1383-1393.	2.8	7

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37	An NFC-Based Solution for Discount and Loyalty Mobile Coupons. , 2012, , .		7
38	Combining of NFC, BLE and Physical Web Technologies for Objects Authentication on IoT Scenarios. Procedia Computer Science, 2017, 109, 265-272.	2.0	7
39	Regression Modelability Index: A New Index for Prediction of the Modelability of Data Sets in the Development of QSAR Regression Models. Journal of Chemical Information and Modeling, 2018, 58, 2069-2084.	5.4	7
40	An ensemble approach for in silico prediction of Ames mutagenicity. Journal of Mathematical Chemistry, 2018, 56, 2085-2098.	1.5	7
41	Building of Robust and Interpretable QSAR Classification Models by Means of the Rivality Index. Journal of Chemical Information and Modeling, 2019, 59, 2785-2804.	5.4	7
42	Building Highly Reliable Quantitative Structureâ€“Activity Relationship Classification Models Using the Rivality Index Neighborhood Algorithm with Feature Selection. Journal of Chemical Information and Modeling, 2020, 60, 133-151.	5.4	7
43	Molecular activity prediction by means of supervised subspace projection based ensembles of classifiers. SAR and QSAR in Environmental Research, 2018, 29, 187-212.	2.2	6
44	Support for Visually Impaired through Mobile and NFC Technology. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 116-126.	0.3	6
45	Application of the deford and hume method modified for quasi-reversible and irreversible processes to the chelates of Bi(III) with azomethine derivatives of 2-benzoylpyridine. Talanta, 1984, 31, 379-385.	5.5	5
46	Design and Development of Computer-Aided Chemical Systems:â€‰ Representation and Balance of Inorganic Chemical Reactions. Journal of Chemical Information and Computer Sciences, 2000, 40, 744-752.	2.8	5
47	Design and Development of Computer-Aided Chemical Systems:â€‰ Virtual Labs for Teaching Chemical Experiments in Undergraduate and Graduate Courses. Journal of Chemical Information and Computer Sciences, 2001, 41, 1075-1082.	2.8	5
48	Computer-Assisted Learning of Chemical Experiments through a 3D Virtual Lab. Lecture Notes in Computer Science, 2002, , 704-712.	1.3	5
49	Tailored platform for the development of NFC tourist services. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 501-520.	1.4	5
50	QSAR classification and regression models for Î²-secretase inhibitors using relative distance matrices. SAR and QSAR in Environmental Research, 2018, 29, 355-383.	2.2	5
51	Inorganic chemical knowledge representation using dynamic data structures. Journal of Chemical Information and Computer Sciences, 1993, 33, 378-384.	2.8	4
52	Error Detection, Recovery, and Repair in the Translation of Inorganic Nomenclatures. 3. An Error HandlerÂ§. Journal of Chemical Information and Computer Sciences, 1996, 36, 483-490.	2.8	4
53	Error Detection, Recovery, and Repair in the Translation of Inorganic Nomenclatures. 2. A Proposed Strategy. Journal of Chemical Information and Computer Sciences, 1996, 36, 16-24.	2.8	4
54	Solving Incomplete Inorganic Chemical Systems through a Fuzzy Knowledge Frame. Journal of Chemical Information and Computer Sciences, 2001, 41, 83-99.	2.8	4

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55	Approximate similarity and QSAR in the study of spirosuccinimide type aldose reductase inhibitors. Journal of Mathematical Chemistry, 2008, 43, 1549-1559.	1.5	4
56	Description and Application of Similarityâ€Based Methods for Fast and Simple QSAR Model Development. QSAR and Combinatorial Science, 2008, 27, 457-468.	1.4	4
57	QSAR model based on weighted MCS trees approach for the representation of molecule data sets. Journal of Computer-Aided Molecular Design, 2013, 27, 185-201.	2.9	4
58	An Algorithm for Pattern Extraction in Fingerprints. Chemometrics and Intelligent Laboratory Systems, 2013, 125, 87-100.	3.5	4
59	OBCAS: an agent-based system and ontology for mobile context aware interactions. Journal of Intelligent Information Systems, 2014, 43, 33-57.	3.9	4
60	A new data representation based on relative measurements and fingerprint patterns for the development of QSAR regression models. Chemometrics and Intelligent Laboratory Systems, 2018, 176, 53-65.	3.5	4
61	Parallel Algorithms for Graph Cycle Extraction Using the Cyclical Conjunction Operator. Journal of Chemical Information and Computer Sciences, 2002, 42, 1398-1406.	2.8	3
62	Comparison of representational spaces based on structural information in the development of QSAR models for benzylamino enaminone derivatives. SAR and QSAR in Environmental Research, 2012, 23, 751-774.	2.2	3
63	NFC solution for access to bibliographic sources. , 2012, , .		3
64	Rivality index neighbourhood algorithm with density and distances weighted schemes for the building of robust QSAR classification models with high reliable applicability domain. SAR and QSAR in Environmental Research, 2019, 30, 587-615.	2.2	3
65	Prototype Selection Method Based on the Rivality and Reliability Indexes for the Improvement of the Classification Models and External Predictions. Journal of Chemical Information and Modeling, 2020, 60, 3009-3021.	5.4	3
66	A Java Tool for the Management of Chemical Databases and Similarity Analysis Based on Molecular Graphs Isomorphism. Lecture Notes in Computer Science, 2008, , 369-378.	1.3	3
67	A Tool for the Calculation of Molecular Descriptors in the Development of QSAR Models. Lecture Notes in Computer Science, 2008, , 986-996.	1.3	3
68	Structural Similarity and Descriptor Spaces for Clustering and Development of QSAR Models§. Current Computer-Aided Drug Design, 2013, 9, 254-271.	1.2	3
69	Catalytic effect of cobalt ion in the polarographic behaviour of 2-benzoylpyridine oxime, use of differential pulse technique. Electrochimica Acta, 1984, 29, 611-617.	5.2	2
70	Automation of flow injection methods in the winery industry through a computer program based on a multilayer model. , 0, , .		2
71	Trigger-based concurrent control system for automating analytical processes. TrAC - Trends in Analytical Chemistry, 2004, 23, 370-384.	11.4	2
72	A new quantitative structureâ€“property relationship approach using dissimilarity measurements based on topological distances of non-isomorphic subgraphs. Journal of Mathematical Chemistry, 2009, 46, 853-865.	1.5	2

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73	An Open Environment to Support the Development of Computational Chemistry Solutions. , 2009, , .		2
74	Rolling: A new technique for the practical teaching in computer science university degree. Education and Information Technologies, 2012, 17, 49-77.	5.7	2
75	HistoNFC: An Innovative Tool for the Practical Teaching of Histology Using NFC Technology. Wireless Communications and Mobile Computing, 2019, 2019, 1-16.	1.2	2
76	Prediction of the datasets modelability for the building of QSAR classification models by means of the centroid based rivality index. Journal of Mathematical Chemistry, 2019, 57, 1374-1393.	1.5	2
77	A tutorial system for inorganic chemical formulations and reactions. , 1994, , .		2
78	Parallelization of differential problems by partitioning method (synchronized algorithm). Computers and Mathematics With Applications, 1993, 26, 25-31.	2.7	1
79	Object-oriented techniques for design and development of standard software solutions in automation and data management in analytical chemistry. TrAC - Trends in Analytical Chemistry, 2006, 25, 66-76.	11.4	1
80	A Method for Clustering and Screening of Long-dimensional Chemical Data Based on Fingerprints and Similarity Measurements. Journal of Mathematical Chemistry, 2006, 40, 15-27.	1.5	1
81	Spectra-based multivalued fingerprints as predictive vectors for partial least squares regression processes. International Journal of Computer Mathematics, 2008, 85, 691-702.	1.8	1
82	Study of Near Field Communication Technology in University Scenarios. , 2009, , .		1
83	Identification system based on color sequence and mobile phones. Journal of Ambient Intelligence and Smart Environments, 2012, 4, 287-303.	1.4	1
84	Interactive mosaic building and its application to marketing strategies using NFC. Multimedia Tools and Applications, 2018, 77, 15291-15320.	3.9	1
85	Efficient Parallel Solution to Calculate All Cycles in Graphs. Lecture Notes in Computer Science, 2002, , 411-420.	1.3	1
86	Prediction of Drug Activity Using Molecular Fragments-Based Representation and RFE Support Vector Machine Algorithm. Lecture Notes in Computer Science, 2011, , 396-405.	1.3	1
87	Discount Vouchers and Loyalty Cards Using NFC. Lecture Notes in Computer Science, 2012, , 101-108.	1.3	1
88	APLICACIÃ“N DE LA TECNOLOGÃA NFC (NEAR FIELD COMMUNICATION) EN LAS PRÃCTICAS DE HISTOLOGÃA MÃ‰DICA. Revista De InnovaciÃ³n Y Buenas PrÃ¡cticas Docentes, 0, , 72-80.	0.1	1
89	Tailoring User Visibility and Privacy in a Context-Aware Mobile Social Network. Lecture Notes in Computer Science, 2012, , 117-124.	1.3	1
90	Red Thread. An NFC Solution for Attracting Students and Engaging Customers. Lecture Notes in Computer Science, 2016, , 263-274.	1.3	1

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91	GESIM: Image management system for TIFF structures. Computers and Graphics, 1992, 16, 325-329.	2.5	0
92	Numerical analysis of the M.P.P. model of turbulence. Computers and Mathematics With Applications, 1994, 27, 17-28.	2.7	0
93	Computer-Assisted Learning Using a Dialogue System for Virtual Teacherâ"Student Communication. Journal of Chemical Information and Computer Sciences, 2003, 43, 1378-1389.	2.8	0
94	Step-by-Step Calculation of All Maximum Common Substructures Through a Constraint Satisfaction Based Algorithm.. ChemInform, 2004, 35, no.	0.0	0
95	Representation of the Molecular Topology of Cyclical Structures by Means of Cycle Graphs. Part 1. Extraction of Topological Properties.. ChemInform, 2004, 35, no.	0.0	0
96	Representation of the Molecular Topology of Cyclical Structures by Means of Cycle Graphs. Part 2. Application to Clustering of Chemical Databases.. ChemInform, 2004, 35, no.	0.0	0
97	Representation of the Molecular Topology of Cyclical Structures by Means of Cycle Graphs. Part 3. Hierarchical Model of Screening of Chemical Databases.. ChemInform, 2005, 36, no.	0.0	0
98	New models for the clustering of large databases through a hierarchical paradigm. , 2005, , .		0
99	Clustering of chemical databases by means of the projection of maximum overlapping sets similarity measurements onto multidimensional spaces. Journal of Mathematical Chemistry, 2006, 40, 213-231.	1.5	0
100	A Java Library for the Calculation of Molecular Descriptors. AIP Conference Proceedings, 2007, , .	0.4	0
101	An Algorithm for the Building of Scaffold Fingerprints Graphs for the Calculation of Weighted Similarity Measurements. , 2009, , .		0
102	IDColor: A color based identification system. , 2011, , .		0
103	AGATHA: Multiagent system for user monitoring. , 2012, , .		0
104	An Ubiquitous and Non Intrusive System for Pervasive Advertising using NFC and Geolocation Technologies and Air Hand Gestures. Mobile Information Systems, 2014, 10, 361-384.	0.6	0
105	An ubiquitous system for advertising using mobile sensors and hand gestures. , 2014, , .		0
106	An ubiquitous solution for advertising and loyalty purposes using NFC technology. International Journal of Ad Hoc and Ubiquitous Computing, 2017, 26, 29.	0.5	0
107	Improvement the performance of the classification models of Cyclooxygenase-2 inhibitors using undersampling methods based on the rivality and reliability indexes. Journal of Mathematical Chemistry, 2021, 59, 131-160.	1.5	0
108	An Object-Oriented Dialog System for Use in Computer-Aided Teaching. Lecture Notes in Computer Science, 2003, , 158-166.	1.3	0

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109	A Multi-sensor Mobile System Based on Agents for People Monitoring. Lecture Notes in Computer Science, 2012, , 58-65.	1.3	0
110	A tutorial system on inorganic chemical formulations and reactions. ACM SIGCUE Outlook, 1994, 22, 32-39.	0.1	0