Viviana Consonni

List of Publications by Year
in descending order

68	9,118	147726 31	106281 65
papers	citations	h-index	g-index

75	75	75	8164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	QSAR Modeling: Where Have You Been? Where Are You Going To?. Journal of Medicinal Chemistry, 2014, 57, 4977-5010.	2.9	1,401
2	Classification tools in chemistry. Part 1: linear models. PLS-DA. Analytical Methods, 2013, 5, 3790.	1.3	893
3	Comments on the Definition of the Q² Parameter for QSAR Validation. Journal of Chemical Information and Modeling, 2009, 49, 1669-1678.	2.5	483
4	Structure/Response Correlations and Similarity/Diversity Analysis by GETAWAY Descriptors. 1. Theory of the Novel 3D Molecular Descriptors. Journal of Chemical Information and Computer Sciences, 2002, 42, 682-692.	2.8	402
5	Comparison of Different Approaches to Define the Applicability Domain of QSAR Models. Molecules, 2012, 17, 4791-4810.	1.7	370
6	Evaluation of model predictive ability by external validation techniques. Journal of Chemometrics, 2010, 24, 194-201.	0.7	290
7	Structure/Response Correlations and Similarity/Diversity Analysis by GETAWAY Descriptors. 2. Application of the Novel 3D Molecular Descriptors to QSAR/QSPR Studies. Journal of Chemical Information and Computer Sciences, 2002, 42, 693-705.	2.8	278
8	Quantitative Structureâ€“Activity Relationship Models for Ready Biodegradability of Chemicals. Journal of Chemical Information and Modeling, 2013, 53, 867-878.	2.5	160
9	Detecting â€œbadâ€•regression models: multicriteria fitness functions in regression analysis. Analytica Chimica Acta, 2004, 515, 199-208.	2.6	156
10	Similarity Coefficients for Binary Chemoinformatics Data: Overview and Extended Comparison Using Simulated and Real Data Sets. Journal of Chemical Information and Modeling, 2012, 52, 2884-2901.	2.5	155
11	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. Environmental Health Perspectives, 2020, 128, 27002.	2.8	120
12	The Kohonen and CP-ANN toolbox: A collection of MATLAB modules for Self Organizing Maps and Counterpropagation Artificial Neural Networks. Chemometrics and Intelligent Laboratory Systems, 2009, 98, 115-122.	1.8	111
13	QSAR study on the tropospheric degradation of organic compounds. Chemosphere, 1999, 38, 1371-1378.	4.2	67
14	Genetic Algorithms for architecture optimisation of Counter-Propagation Artificial Neural Networks. Chemometrics and Intelligent Laboratory Systems, 2011, 105, 56-64.	1.8	66
15	Defining a novel k-nearest neighbours approach to assess the applicability domain of a QSAR model for reliable predictions. Journal of Cheminformatics, 2013, 5, 27.	2.8	65
16	CATMoS: Collaborative Acute Toxicity Modeling Suite. Environmental Health Perspectives, 2021, 129, 47013.	2.8	63
17	Molecular Descriptors. Challenges and Advances in Computational Chemistry and Physics, 2010, , 29-102.	0.6	62
18	Locally centred Mahalanobis distance: A new distance measure with salient features towards outlier detection. Analytica Chimica Acta, 2013, 787, 1-9.	2.6	60

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19	A novel variable reduction method adapted from space-filling designs. Chemometrics and Intelligent Laboratory Systems, 2014, 136, 147-154.	1.8	60
20	Prediction of Acute Aquatic Toxicity toward Daphnia Magna by using the GA-kNN Method. ATLA Alternatives To Laboratory Animals, 2014, 42, 31-41.	0.7	59
21	In Silico Prediction of Cytochrome P450-Drug Interaction: QSARs for CYP3A4 and CYP2C9. International Journal of Molecular Sciences, 2016, 17, 914.	1.8	50
22	Scaffold hopping from natural products to synthetic mimetics by holistic molecular similarity. Communications Chemistry, 2018, 1, .	2.0	42
23	QSAR models for bioconcentration: Is the increase in the complexity justified by more accurate predictions?. Chemosphere, 2015, 127, 171-179.	4.2	41
24	A QSTR-Based Expert System to Predict Sweetness of Molecules. Frontiers in Chemistry, 2017, 5, 53.	1.8	41
25	Geographical identification of Chianti red wine based on ICP-MS element composition. Food Chemistry, 2020, 315, 126248.	4.2	37
26	Towards Global QSAR Model Building for Acute Toxicity: Munro Database Case Study. International Journal of Molecular Sciences, 2014, 15, 18162-18174.	1.8	36
27	Machine Learning Consensus To Predict the Binding to the Androgen Receptor within the CoMPARA Project. Journal of Chemical Information and Modeling, 2019, 59, 1839-1848.	2.5	36
28	MobyDigs: software for regression and classification models by genetic algorithms. Data Handling in Science and Technology, 2003, 23, 141-167.	3.1	34
29	Impact of Molecular Descriptors on Computational Models. Methods in Molecular Biology, 2018, 1825, 171-209.	0.4	34
30	N3 and BNN: Two New Similarity Based Classification Methods in Comparison with Other Classifiers. Journal of Chemical Information and Modeling, 2015, 55, 2365-2374.	2.5	32
31	Investigating the mechanisms of bioconcentration through QSAR classification trees. Environment International, 2016, 88, 198-205.	4.8	32
32	On the Misleading Use of for QSAR Model Comparison. Molecular Informatics, 2019, 38, e1800029.	1.4	31
33	Molecular Descriptors. , 2017, , 2065-2093.		30
34	Integrated QSAR Models to Predict Acute Oral Systemic Toxicity. Molecular Informatics, 2019, 38, e1800124.	1.4	30
35	A distance measure between models: a tool for similarity/diversity analysis of model populations. Chemometrics and Intelligent Laboratory Systems, 2004, 70, 55-61.	1.8	28
36	Assessing bioaccumulation of polybrominated diphenyl ethers for aquatic species by QSAR modeling. Chemosphere, 2012, 89, 433-444.	4.2	28

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37	Molecular Descriptors for Structureâ€“Activity Applications: A Hands-On Approach. Methods in Molecular Biology, 2018, 1800, 3-53.	0.4	28
38	A new concept of higher-order similarity and the role of distance/similarity measures in local classification methods. Chemometrics and Intelligent Laboratory Systems, 2016, 157, 50-57.	1.8	27
39	Quantitative structureâ€“activity relationships to predict sweet and non-sweet tastes. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	27
40	Consensus versus Individual QSARs in Classification: Comparison on a Large-Scale Case Study. Journal of Chemical Information and Modeling, 2020, 60, 1215-1223.	2.5	26
41	Expert QSAR system for predicting the bioconcentration factor under the REACH regulation. Environmental Research, 2016, 148, 507-512.	3.7	24
42	Assessing the Validity of QSARs for Ready Biodegradability of Chemicals: An Applicability Domain Perspective. Current Computer-Aided Drug Design, 2014, 10, 137-147.	0.8	24
43	Relationships between apple texture and rheological parameters by means of multivariate analysis. Chemometrics and Intelligent Laboratory Systems, 2012, 111, 28-33.	1.8	22
44	A MATLAB toolbox for multivariate regression coupled with variable selection. Chemometrics and Intelligent Laboratory Systems, 2021, 213, 104313.	1.8	22
45	Matrixâ€based Molecular Descriptors for Prospective Virtual Compound Screening. Molecular Informatics, 2017, 36, 1600091.	1.4	18
46	Classification of multiway analytical data based on MOLMAP approach. Analytica Chimica Acta, 2007, 605, 134-146.	2.6	17
47	Qualitative consensus of QSAR ready biodegradability predictions. Toxicological and Environmental Chemistry, 0, , 1-24.	0.6	14
48	Detecting the bioaccumulation patterns of chemicals through data-driven approaches. Chemosphere, 2018, 208, 273-284.	4.2	14
49	Structural alerts for the identification of bioaccumulative compounds. Integrated Environmental Assessment and Management, 2019, 15, 19-28.	1.6	13
50	Predicting molecular activity on nuclear receptors by multitask neural networks. Journal of Chemometrics, 2022, 36, e3325.	0.7	13
51	Molecular Descriptors. , 2016, , 1-29.		13
52	How to weight Hasse matrices and reduce incomparabilities. Chemometrics and Intelligent Laboratory Systems, 2015, 147, 95-104.	1.8	12
53	Impact of medium-distance pollution sources in a Galician suburban site (NW Iberian peninsula). Science of the Total Environment, 2015, 512-513, 114-124.	3.9	11
54	Mixtures, metabolites, ionic liquids: a new measure to evaluate similarity between complex chemical systems. Journal of Cheminformatics, 2016, 8, 49.	2.8	10

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55	Parsimonious Optimization of Multitask Neural Network Hyperparameters. Molecules, 2021, 26, 7254.	1.7	10
56	Application of DNA mini-barcoding and infrared spectroscopy for the authentication of the Italian product â€œbottargaâ€• LWT - Food Science and Technology, 2021, 139, 110603.	2.5	9
57	New QSAR Modelling Approach Based on Ranking Models by Genetic Algorithms - Variable Subset Selection (GA-VSS). , 2006, , 181-217.		8
58	Toward an in Vitro Test for the Diagnosis of Allergy to Penicillins. Synthesis, Characterization, and Use of Î²-Lactam and Î²-Lactam Metabolite Poly-l-lysines Which Recognize Human IgE Antibodies. Bioconjugate Chemistry, 1999, 10, 332-337.	1.8	7
59	Canonical Measure of Correlation (CMC) and Canonical Measure of Distance (CMD) between sets of data. Analytica Chimica Acta, 2009, 648, 52-59.	2.6	7
60	Canonical Measure of Correlation (CMC) and Canonical Measure of Distance (CMD) between sets of data. Part 3. Variable selection in classification. Analytica Chimica Acta, 2010, 657, 116-122.	2.6	7
61	QSPR STUDY OF RHEOLOGICAL AND MECHANICAL PROPERTIES OF CHLOROPRENE RUBBER ACCELERATORS. Rubber Chemistry and Technology, 2014, 87, 219-238.	0.6	7
62	Acceptableâ€byâ€design QSARs to predict the dietary biomagnification of organic chemicals in fish. Integrated Environmental Assessment and Management, 2019, 15, 51-63.	1.6	7
63	Chemometrics for QSAR Modeling. , 2020, , 599-634.		6
64	High-performance size-exclusion chromatographic behaviour of substituted benzoylpoly-l-lysines by principal component analysis and molecular dynamics simulation. Journal of Chromatography A, 1998, 813, 255-265.	1.8	5
65	Structure â€“Activity Relationships by Autocorrelation Descriptors and Genetic Algorithms. , 2011, , 60-94.		4
66	Deep Ranking Analysis by Power Eigenvectors (DRAPE): A polypharmacology case study. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104001.	1.8	2
67	Mapping of Activity through Dichotomic Scores (MADS): A new chemoinformatic approach to detect activityâ€rich structural regions. Journal of Chemometrics, 2018, 32, e2994.	0.7	1
68	Expanding Antineoplastic Drugs Surface Monitoring Profiles: Enhancing of Zwitterionic Hydrophilic Interaction Methods. Separations, 2022, 9, 34.	1.1	1