Monica F Diaz

List of Publications by Year
in descending order

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34 papers	512 citations	759233 12 h-index	677142 22 g-index
34 all docs	34 docs citations	34 times ranked	499 citing authors

#	Article	IF	Citations
1	Could QSOR Modelling and Machine Learning Techniques Be Useful to Predict Wine Aroma?. Food and Bioprocess Technology, 2023, 16, 24-42.	4.7	5
2	Pandemic impact on air pollution and mobility in a Latin American medium-size city. International Journal of Environmental Studies, 2022, 79, 624-650.	1.6	6
3	How can polydispersity information be integrated in the QSPR modeling of mechanical properties?. Science and Technology of Advanced Materials Methods, 2022, 2, 1-13.	1.3	2
4	Polymer informatics for QSPR prediction of tensile mechanical properties. Case study: Strength at break. Journal of Chemical Physics, 2022, 156, .	3.0	2
5	A Database Curation for Prediction of the Refractive Index in the Virtual Testing of Polymeric Materials by Using Machine Learning. Communications in Computer and Information Science, 2021, , 279-294.	0.5	0
6	Polymer informatics: Expert-in-the-loop in QSPR modeling of refractive index. Computational Materials Science, 2021, 194, 110460.	3.0	18
7	PolyMaS: A new software to generate high molecular weight polymer macromolecules from repeating structural units. Polimery, 2021, 66, 293-297.	0.7	2
8	Vehicular fleet characterisation and assessment of the on-road mobile source emission inventory of a Latin American intermediate city. Science of the Total Environment, 2021, 792, 148255.	8.0	13
9	Feature Selection for Polymer Informatics: Evaluating Scalability and Robustness of the FS4RV_{DD} Algorithm Using Synthetic Polydisperse Data Sets. Journal of Chemical Information and Modeling, 2020, 60, 592-603.	5.4	9
10	QSAR Classification Models for Predicting the Activity of Inhibitors of Beta-Secretase (BACE1) Associated with Alzheimerâ€™s Disease. Scientific Reports, 2019, 9, 9102.	3.3	37
11	Computational modelling of mechanical properties for new polymeric materials with high molecular weight. Chemometrics and Intelligent Laboratory Systems, 2019, 193, 103851.	3.5	8
12	Computer-aided design of polymeric materials: Computational study for characterization of databases for prediction of mechanical properties under polydispersity. Chemometrics and Intelligent Laboratory Systems, 2019, 191, 65-72.	3.5	8
13	Scrambled Eggs or How Eggshells Become Phosphates. Journal of Chemical Education, 2019, 96, 1443-1448.	2.3	1
14	Feature Selection and Polydispersity Characterization for QSPR Modelling: Predicting a Tensile Property. Advances in Intelligent Systems and Computing, 2019, , 43-51.	0.6	2
15	FS4RVDD: A Feature Selection Algorithm for Random Variables with Discrete Distribution. Communications in Computer and Information Science, 2018, , 211-222.	0.5	2
16	QSAR Classification Models for Predicting Affinity to Blood or Liver of Volatile Organic Compounds in e-Health. Lecture Notes in Computer Science, 2017, , 424-433.	1.3	1
17	Hybridizing Feature Selection and Feature Learning Approaches in QSAR Modeling for Drug Discovery. Scientific Reports, 2017, 7, 2403.	3.3	48
18	Feature Learning applied to the Estimation of Tensile Strength at Break in Polymeric Material Design. Journal of Integrative Bioinformatics, 2016, 13, 15-29.	1.5	5

#	Article	IF	Citations
19	Intelligent Systems for Predictive Modelling in Cheminformatics: QSPR Models for Material Design Using Machine Learning and Visual Analytics Tools. Advances in Intelligent Systems and Computing, 2016, , 3-11.	0.6	1
20	Feature Learning applied to the Estimation of Tensile Strength at Break in Polymeric Material Design. Journal of Integrative Bioinformatics, 2016, 13, 286.	1.5	8
21	Visual analytics in cheminformatics: user-supervised descriptor selection for QSAR methods. Journal of Cheminformatics, 2015, 7, 39.	6.1	26
22	Prediction of elongation at break for linear polymers. Chemometrics and Intelligent Laboratory Systems, 2014, 139, 121-131.	3.5	24
23	Novel descriptors from main and side chains of high-molecular-weight polymers applied to prediction of glass transition temperatures. Journal of Molecular Graphics and Modelling, 2012, 38, 137-147.	2.4	18
24	QSPR Models for Predicting Log Pliver Values for Volatile Organic Compounds Combining Statistical Methods and Domain Knowledge. Molecules, 2012, 17, 14937-14953.	3.8	13
25	Catalytic Degradation of Polystyrene: Modeling of Molecular Weight Distribution. Macromolecular Reaction Engineering, 2011, 5, 243-253.	1.5	4
26	Effect of styrene addition on polystyrene molecular degradation by Lewis acids. Journal of Applied Polymer Science, 2009, 114, 3081-3086.	2.6	11
27	Mathematical modeling of the catalytic degradation of polystyrene in the presence of aluminum chloride. Polymer Degradation and Stability, 2009, 94, 566-574.	5.8	9
28	Reactive compatibilization of PE/PS blends. Effect of copolymer chain length on interfacial adhesion and mechanical behavior. Polymer, 2007, 48, 1058-1065.	3.8	77
29	Addition compatibilization of PP/PS blends by tailor-made copolymers. Polymer Engineering and Science, 2006, 46, 329-336.	3.1	17
30	Improvement of mechanical properties for PP/PS blends by in situ compatibilization. Polymer, 2005, 46, 6096-6101.	3.8	53
31	Thermoplastic blend demixing by a high-pressure, high-temperature process. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2361-2369.	2.1	8
32	Polypropylene/polystyrene blends:In situcompatibilization by Friedel-Crafts alkylation reaction. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 452-462.	2.1	32
33	Polyethyleneâ€“polystyrene grafting reaction: effects of polyethylene molecular weight. Polymer, 2002, 43, 4851-4858.	3.8	42
34	Reactive Campatibilization of Binary and Ternary Blends Based on PE, PP, and PS. , 0, , 600-622.		0