Gonzalo Astray

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2821150/publications.pdf

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43	1,848	430754	265120
papers	citations	18 h-index	42 g-index

43	43	43	2407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on the use of cyclodextrins in foods. Food Hydrocolloids, 2009, 23, 1631-1640.	5.6	767
2	Factors controlling flavors binding constants to cyclodextrins and their applications in foods. Food Research International, 2010, 43, 1212-1218.	2.9	147
3	Cyclodextrins inclusion complex: Preparation methods, analytical techniques and food industry applications. Food Chemistry, 2022, 384, 132467.	4.2	129
4	Valorization of by-products from olive oil industry and added-value applications for innovative functional foods. Food Research International, 2020, 137, 109683.	2.9	112
5	Latest developments in the application of cyclodextrin host-guest complexes in beverage technology processes. Food Hydrocolloids, 2020, 106, 105882.	5.6	59
6	Pomegranate Peel as Suitable Source of High-Added Value Bioactives: Tailored Functionalized Meat Products. Molecules, 2020, 25, 2859.	1.7	55
7	Inclusion of seaweeds as healthy approach to formulate new low-salt meat products. Current Opinion in Food Science, 2021, 40, 20-25.	4.1	48
8	Comparison between developed models using response surface methodology (RSM) and artificial neural networks (ANNs) with the purpose to optimize oligosaccharide mixtures production from sugar beet pulp. Industrial Crops and Products, 2016, 92, 290-299.	2.5	46
9	Humulus lupulus L. as a Natural Source of Functional Biomolecules. Applied Sciences (Switzerland), 2020, 10, 5074.	1.3	45
10	Essential Oils as Antimicrobials in Crop Protection. Antibiotics, 2021, 10, 34.	1.5	38
11	The use of artificial neural networks to forecast biological atmospheric allergens or pathogens only as Alternaria spores. Journal of Environmental Monitoring, 2010, 12, 2145.	2.1	28
12	Multilayer perceptron neural network for flow prediction. Journal of Environmental Monitoring, 2011, 13, 35-41.	2.1	28
13	A model to forecast the risk periods of Plantago pollen allergy by using the ANN methodology. Aerobiologia, 2015, 31, 201-211.	0.7	26
14	Synthesis of advanced biobased green materials from renewable biopolymers. Current Opinion in Green and Sustainable Chemistry, 2021, 29, 100436.	3.2	25
15	Organic Reactivity in Aot-Stabilized Microemulsions. Progress in Reaction Kinetics and Mechanism, 2008, 33, 81-97.	1.1	22
16	Influence of anionic and nonionic micelles upon hydrolysis of 3â€hydroxyâ€carbofuran. International Journal of Chemical Kinetics, 2011, 43, 402-408.	1.0	20
17	Prediction Models to Control Aging Time in Red Wine. Molecules, 2019, 24, 826.	1.7	20
18	Random Forest, Artificial Neural Network, and Support Vector Machine Models for Honey Classification. EFood, 2020, 1, 69-76.	1.7	19

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19	Recent advances in the extraction of polyphenols from eggplant and their application in foods. LWT - Food Science and Technology, 2021, 146, 111381.	2.5	15
20	Electrical percolation of AOT-based microemulsions with n-alcohols. Journal of Molecular Liquids, 2016, 215, 18-23.	2.3	14
21	Cyclodextrin-Surfactant Mixed Systems as Reaction Media. Progress in Reaction Kinetics and Mechanism, 2010, 35, 105-129.	1.1	13
22	Esters flash point prediction using artificial neural networks. Journal of Computational Chemistry, 2013, 34, 355-359.	1.5	13
23	Assessment of neural networks and time series analysis to forecast airborne Parietaria pollen presence in the Atlantic coastal regions. International Journal of Biometeorology, 2019, 63, 735-745.	1.3	13
24	Prediction of Ethene + Oct-1-ene Copolymerization Ideal Conditions Using Artificial Neuron Networks. Journal of Chemical & Engineering Data, 2010, 55, 3542-3547.	1.0	12
25	Improved 1,3-propanediol production with maintained physical conditions and optimized media composition: Validation with statistical and neural approach. Biochemical Engineering Journal, 2017, 126, 109-117.	1.8	12
26	Influence Prediction of Small Organic Molecules (Ureas and Thioureas) Upon Electrical Percolation of AOT-Based Microemulsions Using Artificial Neural Networks. Tenside, Surfactants, Detergents, 2012, 49, 316-320.	0.5	11
27	Percolation Threshold of AOT Microemulsions with n-Alkyl Acids as Additives Prediction by Means of Artificial Neural Networks. Tenside, Surfactants, Detergents, 2013, 50, 360-368.	0.5	11
28	Alkaline Fading of Triarylmethyl Carbocations in Self-Assembly Microheterogeneous Media. Progress in Reaction Kinetics and Mechanism, 2011, 36, 139-165.	1.1	9
29	Modelling and Optimization of Biogenic Synthesis of Gold Nanoparticles from Leaf Extract of Swertia chirata Using Artificial Neural Network. Journal of Cluster Science, 2018, 29, 1151-1159.	1.7	9
30	Modelling and Prediction of Monthly Global Irradiation Using Different Prediction Models. Energies, 2021, 14, 2332.	1.6	9
31	Metal and metalloid profile as a fingerprint for traceability of wines under any Galician protected designation of origin. Journal of Food Composition and Analysis, 2021, 102, 104043.	1.9	9
32	Benefits, toxicity and current market of cannabidiol in edibles. Critical Reviews in Food Science and Nutrition, 2023, 63, 5800-5812.	5.4	8
33	Predicting Critical Micelle Concentration Values of Non-Ionic Surfactants by Using Artificial Neural Networks. Tenside, Surfactants, Detergents, 2013, 50, 118-124.	0.5	7
34	Value-Added Compound Recovery from Invasive Forest for Biofunctional Applications: Eucalyptus Species as a Case Study. Molecules, 2020, 25, 4227.	1.7	7
35	Artificial neural networks: a promising tool to evaluate the authenticity of wine Redes neuronales: una herramienta prometedora para evaluar la autenticidad del vino. CYTA - Journal of Food, 2010, 8, 79-86.	0.9	6
36	Application of transit data analysis and artificial neural network in the prediction of discharge of Lor River, NW Spain. Water Science and Technology, 2016, 73, 1756-1767.	1.2	6

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37	Machine Learning Applied to the Oxygen-18 Isotopic Composition, Salinity and Temperature/Potential Temperature in the Mediterranean Sea. Mathematics, 2021, 9, 2523.	1.1	6
38	Percolative Behavior Models Based on Artificial Neural Networks for Electrical Percolation of AOT Microemulsions in the Presence of Crown Ethers as Additives. Tenside, Surfactants, Detergents, 2014, 51, 533-540.	0.5	5
39	Influence Prediction of Alkylamines Upon Electrical Percolation of AOT-based Microemulsions Using Artificial Neural Networks. Tenside, Surfactants, Detergents, 2015, 52, 473-476.	0.5	5
40	Geochemical signatures of the groundwaters from Ourense thermal springs, Galicia, Spain. Sustainable Water Resources Management, 2019, 5, 103-116.	1.0	5
41	Stability assessment of extracts obtained from Arbutus unedo L. fruits in powder and solution systems using machine-learning methodologies. Food Chemistry, 2020, 333, 127460.	4.2	5
42	N-Alkylamines-Based Micelles Aggregation Number Determination by Fluorescence Techniques. Journal of Solution Chemistry, 2011, 40, 2072-2081.	0.6	4
43	Influence of Amphiphiles on Percolation of AOT-Based Microemulsions Prediction Using Artificial Neural Networks. , 0, , .		0