Ana Jurinjak Tusek

List of Publications by Year
in descending order

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46 papers	638 citations	566801 15 h-index	642321 23 g-index
46 all docs	46 docs citations	46 times ranked	771 citing authors

#	Article	IF	Citations
1	Kinetics and thermodynamics of the solid-liquid extraction process of total polyphenols, antioxidants and extraction yield from Asteraceae plants. Industrial Crops and Products, 2016, 91, 205-214.	2.5	76
2	Cholinium-based deep eutectic solvents and ionic liquids for lipase-catalyzed synthesis of butyl acetate. Journal of Molecular Catalysis B: Enzymatic, 2015, 122, 188-198.	1.8	66
3	Optimizing bioactive compounds extraction from different medicinal plants and prediction through nonlinear and linear models. Industrial Crops and Products, 2018, 126, 449-458.	2.5	36
4	Detection of honey adulteration â€“ The potential of UV-VIS and NIR spectroscopy coupled with multivariate analysis. LWT - Food Science and Technology, 2021, 145, 111316.	2.5	32
5	Purification of biodiesel produced by lipase catalysed transesterification by ultrafiltration: Selection of membranes and analysis of membrane blocking mechanisms. Renewable Energy, 2020, 159, 642-651.	4.3	29
6	Enhancement of phenolic compounds oxidation using laccase from Trametes versicolor in a microreactor. Biotechnology and Bioprocess Engineering, 2013, 18, 686-696.	1.4	28
7	Lipase catalysed biodiesel synthesis with integrated glycerol separation in continuously operated microchips connected in series. New Biotechnology, 2018, 47, 80-88.	2.4	27
8	Integrated approach for bioactive quality evaluation of medicinal plant extracts using HPLC-DAD, spectrophotometric, near infrared spectroscopy and chemometric techniques. International Journal of Food Properties, 2017, 20, S2463-S2480.	1.3	25
9	Microwave-assisted extraction of phenolic compounds from Cannabis sativa L.: optimization and kinetics study. Separation Science and Technology, 2021, 56, 2047-2060.	1.3	23
10	Catechol Removal from Aqueous Media Using Laccase Immobilized in Different Macro- and Microreactor Systems. Applied Biochemistry and Biotechnology, 2017, 182, 1575-1590.	1.4	20
11	Effects of drying on physical and chemical properties of root vegetables: Artificial neural network modelling. Food and Bioproducts Processing, 2020, 119, 148-160.	1.8	20
12	Applicability of Foam Mat Drying Process for Production of Instant Cocoa Powder Enriched with Lavender Extract. Food Technology and Biotechnology, 2019, 57, 159-170.	0.9	20
13	Sustainable Production of Lipase from Thermomyces lanuginosus: Process Optimization and Enzyme Characterization. Industrial & Engineering Chemistry Research, 2020, 59, 21144-21154.	1.8	19
14	Optimization of the foam mat drying process for production of cocoa powder enriched with peppermint extract. LWT - Food Science and Technology, 2019, 115, 108440.	2.5	16
15	Kinetic Parameter Estimation and Mathematical Modelling of Lipase Catalysed Biodiesel Synthesis in a Microreactor. Micromachines, 2019, 10, 759.	1.4	16
16	Development of continuously operated aqueous two-phase microextraction process using natural deep eutectic solvents. Separation and Purification Technology, 2020, 244, 116746.	3.9	16
17	Quality characteristics of white wine: The short- and long-term impact of high power ultrasound processing. Ultrasonics Sonochemistry, 2020, 68, 105194.	3.8	13
18	Development of ANN models based on combined UVâ€visâ€NIR spectra for rapid quantification of physical and chemical properties of industrial hemp extracts. Phytochemical Analysis, 2021, 32, 326-338.	1.2	12

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19	Comparison of Drying Methods and Their Effect on the Stability of GraÅ¡evina Grape Pomace Biologically Active Compounds. Foods, 2022, 11, 112.	1.9	12
20	Continuous Integrated Process of Biodiesel Production and Purificationâ€"The End of the Conventional Two-Stage Batch Process?. Energies, 2021, 14, 403.	1.6	10
21	Application of NIRs coupled with PLS and ANN modelling to predict average droplet size in oil-in-water emulsions prepared with different microfluidic devices. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120860.	2.0	10
22	Regression Models for Description of Roasted Ground Coffee Powder Color Change during Secondary Shelf-Life as Related to Storage Conditions and Packaging Material. Beverages, 2018, 4, 16.	1.3	9
23	Application of multivariate regression and artificial neural network modelling for prediction of physical and chemical properties of medicinal plants aqueous extracts. Journal of Applied Research on Medicinal and Aromatic Plants, 2020, 16, 100229.	0.9	9
24	Model-to-model: Comparison of mathematical process models of lipase catalysed biodiesel production in a microreactor. Computers and Chemical Engineering, 2021, 145, 107200.	2.0	9
25	The power of microsystem technology in the food industry â€“ Going small makes it better. Innovative Food Science and Emerging Technologies, 2021, 68, 102613.	2.7	9
26	Rapid quantification of dissolved solids and bioactives in dried root vegetable extracts using near infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120074.	2.0	9
27	Adaptation of CHO cells in serumâ€free conditions for erythropoietin production: Application of EVOP technique for process optimization. Biotechnology and Applied Biochemistry, 2016, 63, 633-641.	1.4	8
28	Analysis of the Adsorption and Release Processes of Bioactives from Lamiaceae Plant Extracts on Alginate Microbeads. Food and Bioprocess Technology, 2021, 14, 1216-1230.	2.6	8
29	Application of Optimization and Modeling for the Composting Process Enhancement. Processes, 2022, 10, 229.	1.3	8
30	The estimation of kinetic parameters of the solid-liquid extraction process of the lavender flower (Lavandula x hybrida L.). Croatian Journal of Food Science and Technology, 2018, 10, 64-72.	0.5	7
31	Mathematical modelling of polyphenol extraction by aqueous two-phase system in continuously operated macro- and micro-extractors. Separation Science and Technology, 2017, 52, 864-875.	1.3	6
32	Mass transfer coefficient of slug flow for organic solvent-aqueous system in a microreactor. Korean Journal of Chemical Engineering, 2015, 32, 1037-1045.	1.2	5
33	Enhancement of the Green Extraction of Bioactive Molecules from Olea europaea Leaves. Separations, 2022, 9, 33.	1.1	4
34	Comprehensive Study of Traditional Plant Ground Ivy (Glechoma hederacea L.) Grown in Croatia in Terms of Nutritional and Bioactive Composition. Foods, 2022, 11, 658.	1.9	4
35	An enhanced composting process with bioaugmentation: Mathematical modelling and process optimization. Waste Management and Research, 2022, 40, 745-753.	2.2	3
36	Macro-Batch and Continuously Operated Microfluidic Emulsificationâ€"Differences, Similarities and Optimization. Processes, 2022, 10, 449.	1.3	3

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37	Evaluation of the Adsorption and Desorption Dynamics of Beet Juice Red Dye on Alginate Microbeads. Gels, 2022, 8, 13.	2.1	3
38	Local sensitivity analysis and metabolic control analysis of the biological part of the BTEX bioremediation model. Biotechnology and Bioprocess Engineering, 2015, 20, 1071-1087.	1.4	2
39	Application of NIR spectroscopy in gluten detection as a cross-contaminant in food. Hrvatski Äasopis Za Prehrambenu Tehnologiju Biotehnologiju I Nutricionizam, 2018, 13, 120-127.	0.2	2
40	Inâ€vitro digestion of the bioactives originating from the Lamiaceae family herbal teas: A kinetic and PLS modeling study. Journal of Food Biochemistry, 2020, 44, e13233.	1.2	2
41	Global Sensitivity Analysis of the Biological Part of the Integrated BTEX Bioremediation Model. Environmental Engineering Science, 2016, 33, 404-422.	0.8	1
42	NIR spectroscopy and management of bioactive components, antioxidant activity, and macronutrients in fruits. , 2020, , 95-109.		1
43	Analysis of diffusivity of the oscillating reaction components in a microreactor system. Croatian Journal of Food Science and Technology, 2017, 9, 40-45.	0.5	0
44	The Effect of Micromixer Geometry on the Diameters of Emulsion Droplets: NIR Spectroscopy and Artificial Neural Networks Modeling. Engineering Proceedings, 2021, 4, .	0.4	0
45	278â€...Planning of gluten free diet using nutritional systems biology approach. , 2021, , .		0
46	Gender specific differences of the ethanol and nicotine toxicity verified by the use of mathematical models. Croatian Journal of Food Science and Technology, 2019, 11, 76-87.	0.5	0