

# Stefano Curcio

## List of Publications by Year in descending order

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85  
papers

3,917  
citations

126858

33  
h-index

128225

60  
g-index

93  
all docs

93  
docs citations

93  
times ranked

5201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-CFD modelling of ultrafiltration bio-fouling. Separation Science and Technology, 2023, 58, 131-140.	1.3	10
2	Recent advances in advanced oxidation processes for removal of contaminants from water: A comprehensive review. Chemical Engineering Research and Design, 2021, 146, 220-256.	2.7	141
3	Bioplastic from Renewable Biomass: A Facile Solution for a Greener Environment. Earth Systems and Environment, 2021, 5, 231-251.	3.0	161
4	Transmission of SARS-Cov-2 and other enveloped viruses to the environment through protective gear: a brief review. Euro-Mediterranean Journal for Environmental Integration, 2021, 6, 48.	0.6	9
5	Artificial Intelligence-Based Optimization of Industrial Membrane Processes. Earth Systems and Environment, 2021, 5, 385-398.	3.0	28
6	Advanced descriptors for long-range noncovalent interactions between SARS-CoV-2 spikes and polymer surfaces. Separation and Purification Technology, 2021, , 120125.	3.9	7
7	Formulation of bread model doughs with resistant starch, vegetable proteins and transglutaminase. European Food Research and Technology, 2020, 246, 397-408.	1.6	8
8	Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19. Environmental Science & Technology, 2020, 54, 7754-7757.	4.6	337
9	Enzyme Immobilization on Polymer Membranes: A Quantum and Molecular Mechanics Study. Computation, 2019, 7, 56.	1.0	21
10	Influence of shrinkage during natural rubber sheet drying: Numerical modeling of heat and mass transfer. Applied Thermal Engineering, 2019, 149, 798-806.	3.0	15
11	Synthesis of chitosan-cellulase nanohybrid and immobilization on alginate beads for hydrolysis of ionic liquid pretreated sugarcane bagasse. Renewable Energy, 2019, 133, 66-76.	4.3	50
12	Continuous production of bioethanol from sugarcane bagasse and downstream purification using membrane integrated bioreactor. Catalysis Today, 2019, 331, 68-77.	2.2	27
13	A review of polymeric membranes and processes for potable water reuse. Progress in Polymer Science, 2018, 81, 209-237.	11.8	483
14	Biofuels and Bioenergy from Residual Biomasses: When a Waste Becomes a Resource. Advances in Science, Technology and Innovation, 2018, , 1569-1571.	0.2	0
15	Developing of titania-smectite nanocomposites UF membrane over zeolite based ceramic support. Applied Clay Science, 2018, 155, 20-29.	2.6	25
16	Techno-economic assessment of the sustainability of an integrated biorefinery from microalgae and Jatropha: A review and case study. Renewable and Sustainable Energy Reviews, 2018, 88, 239-257.	8.2	80
17	Technological Aspects of Lignocellulose Conversion into Biofuels: Key Challenges and Practical Solutions. , 2018, , 117-154.		1
18	Effect of HPMC and CMC on rheological behavior at different temperatures of gluten-free bread formulations based on rice and buckwheat flours. European Food Research and Technology, 2018, 244, 1829-1842.	1.6	14

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19	Extraction of lignin, structural characterization and bioconversion of sugarcane bagasse after ionic liquid assisted pretreatment. <i>3 Biotech</i> , 2018, 8, 374.	1.1	34
20	Optimization of lignin recovery from sugarcane bagasse using ionic liquid aided pretreatment. <i>Cellulose</i> , 2017, 24, 3191-3207.	2.4	63
21	Microwave-Assisted Modified Polyimide Synthesis: A Facile Route to the Enhancement of Visible-Light-Induced Photocatalytic Performance for Dye Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6817-6826.	3.2	29
22	Parametric study and shrinkage modelling of natural rubber sheet drying using COMSOL multiphysics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 243, 012012.	0.3	2
23	Immobilized biocatalytic process development and potential application in membrane separation: a review. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 43-58.	5.1	66
24	Editorial. <i>Ecotoxicology and Environmental Safety</i> , 2016, 134, 287.	2.9	2
25	Poly (sodium-4-styrenesulfonate) assisted ultrafiltration for methylene blue dye removal from simulated wastewater: Optimization using response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2008-2022.	3.3	54
26	Formulation of a 3D conjugated multiphase transport model to predict drying process behavior of irregular-shaped vegetables. <i>Journal of Food Engineering</i> , 2016, 176, 36-55.	2.7	19
27	A mass transport/kinetic model for the description of inulin hydrolysis by immobilized inulinase. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1782-1792.	1.6	5
28	Industrial Waste-an Economical Approach for Adsorption of Heavy Metals from Ground Water. <i>American Journal of Engineering and Applied Sciences</i> , 2015, 8, 48-56.	0.3	9
29	Response surface-optimized removal of Reactive Red 120 dye from its aqueous solutions using polyethyleneimine enhanced ultrafiltration. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 271-278.	2.9	59
30	Synthesis and functionality of proteinacious nutraceuticals from casein whey—A clean and safe route of valorization of dairy waste. <i>Chemical Engineering Research and Design</i> , 2015, 97, 192-207.	2.7	7
31	Water gas shift reaction in membrane reactors: Theoretical investigation by artificial neural networks model and experimental validation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5897-5906.	3.8	33
32	Studies on adsorption, reaction mechanisms and kinetics for photocatalytic degradation of CHD, a pharmaceutical waste. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 154-163.	2.9	30
33	Pebax®/PAN hollow fiber membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 94, 53-61.	1.8	49
34	Enzymatic transesterification of waste vegetable oil to produce biodiesel. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 229-235.	2.9	66
35	Nanofiltration based water reclamation from tannery effluent following coagulation pretreatment. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 22-30.	2.9	35
36	Editorial. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 1-2.	2.9	2

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37	Membrane applications for biogas production and purification processes: an overview on a smart alternative for process intensification. RSC Advances, 2015, 5, 14156-14186.	1.7	15
38	Modeling of Microbial Spoilage and Color Degradation Occurring in Convective Drying of Vegetables: A Route to Process Optimization. Journal of Food Process Engineering, 2015, 38, 76-92.	1.5	4
39	Remediation of textile effluents by membrane based treatment techniques: A state of the art review. Journal of Environmental Management, 2015, 147, 55-72.	3.8	375
40	Neural and Hybrid Modeling: An Alternative Route to Efficiently Predict the Behavior of Biotechnological Processes Aimed at Biofuels Obtainment. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	8
41	Membrane reactors for biodiesel production. , 2014, , 122-142.		0
42	Influence of shrinkage on convective drying of fresh vegetables: A theoretical model. Journal of Food Engineering, 2014, 123, 36-49.	2.7	62
43	Experimental analysis, modeling and optimization of chromium (VI) removal from aqueous solutions by polymer-enhanced ultrafiltration. Journal of Membrane Science, 2014, 456, 139-154.	4.1	84
44	Multi-scale modeling of protein fouling in ultrafiltration process. Journal of Membrane Science, 2014, 452, 400-414.	4.1	35
45	The effects of thermally stable titanium silicon oxide nanoparticles on structure and performance of cellulose acetate ultrafiltration membranes. Separation and Purification Technology, 2014, 133, 55-68.	3.9	100
46	Use of continuous lactose fermentation for ethanol production by Kluyveromyces marxianus for verification and extension of a biochemically structured model. Bioresource Technology, 2013, 130, 703-709.	4.8	8
47	Models of membrane reactors based on artificial neural networks and hybrid approaches. , 2013, , 569-597.		4
48	Advanced Modeling of Food Convective Drying: A Comparison Between Artificial Neural Networks and Hybrid Approaches. Food and Bioprocess Technology, 2012, 5, 1694-1705.	2.6	15
49	Experimental Evaluation of Quality Parameters During Drying of Carrot Samples. Food and Bioprocess Technology, 2012, 5, 118-129.	2.6	35
50	Perspectives on Biocatalysis. Journal of Bioprocessing & Biotechniques, 2012, 02, .	0.2	0
51	An Experimental Analysis of Acoustic Drying of Carrots: Evaluation of Heat Transfer Coefficients in Different Drying Conditions. Drying Technology, 2011, 29, 239-244.	1.7	24
52	Design and tuning of feedback controllers: effects on proteins ultrafiltration process modeled by a hybrid system. Desalination and Water Treatment, 2011, 34, 295-303.	1.0	2
53	Membranes for advanced biofuels production. , 2011, , 361-410.		2
54	Measurement of the Water-Diffusion Coefficient, Apparent Density Changes and Shrinkage During the Drying of Eggplant (Solanum Melongena). International Journal of Food Properties, 2011, 14, 523-537.	1.3	7

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55	A hybrid neural approach to model batch fermentation of dairy industry wastes. <i>Computer Aided Chemical Engineering</i> , 2010, , 739-744.	0.3	0
56	Kinetics of enzymatic trans-esterification of glycerides for biodiesel production. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 701-710.	1.7	31
57	Extraction of Sucrose from the Rest of Sorting Deglet Nour Variety and Enzymatic Hydrolysis by Invertase. <i>Journal of Biotechnology</i> , 2010, 150, 323-323.	1.9	0
58	A hybrid neural approach to model batch fermentation of ricotta cheese whey to ethanol. <i>Computers and Chemical Engineering</i> , 2010, 34, 1590-1596.	2.0	43
59	Optimization of ricotta cheese whey (RCW) fermentation by response surface methodology. <i>Bioresource Technology</i> , 2010, 101, 9156-9162.	4.8	41
60	A Multiphase Model to Analyze Transport Phenomena in Food Drying Processes. <i>Drying Technology</i> , 2010, 28, 773-785.	1.7	21
61	Transport Phenomena Modeling During Drying of Shrinking Materials. <i>Computer Aided Chemical Engineering</i> , 2010, 28, 91-96.	0.3	7
62	Fructose Production by Inulinase Covalently Immobilized on Sepabeads in Batch and Fluidized Bed Bioreactor. <i>International Journal of Molecular Sciences</i> , 2010, 11, 1180-1189.	1.8	29
63	Optimization of Bioreactors Performances in the Production of Fructose from Inulin with Immobilised Inulinase. , 2009, , .		0
64	Fructose production by chicory inulin enzymatic hydrolysis: A kinetic study and reaction mechanism. <i>Process Biochemistry</i> , 2009, 44, 466-470.	1.8	38
65	Factor analysis of transesterification reaction of waste oil for biodiesel production. <i>Bioresource Technology</i> , 2009, 100, 5126-5131.	4.8	55
66	Optimization of inulin hydrolysis by inulinase accounting for enzyme time- and temperature-dependent deactivation. <i>Biochemical Engineering Journal</i> , 2009, 48, 81-86.	1.8	25
67	Bio-ethanol production by fermentation of ricotta cheese whey as an effective alternative non-vegetable source. <i>Biomass and Bioenergy</i> , 2009, 33, 1687-1692.	2.9	109
68	Optimization of membrane bioreactor performances during enzymatic oxidation of waste bio-polyphenols. <i>Desalination</i> , 2009, 236, 30-38.	4.0	16
69	Reduction and control of flux decline in cross-flow membrane processes modeled by artificial neural networks and hybrid systems. <i>Desalination</i> , 2009, 236, 234-243.	4.0	15
70	Olive husk oil transesterification in a fluidized bed reactor with immobilized lipases. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 365-368.	0.8	12
71	Simulation of food drying: FEM analysis and experimental validation. <i>Journal of Food Engineering</i> , 2008, 87, 541-553.	2.7	70
72	The State of the Art in the Production of Fructose from Inulin Enzymatic Hydrolysis. <i>Critical Reviews in Biotechnology</i> , 2007, 27, 129-145.	5.1	82

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73	An analysis of the transport phenomena occurring during food drying process. Journal of Food Engineering, 2007, 78, 922-932.	2.7	85
74	A theoretical and experimental analysis of a membrane bioreactor performance in recycle configuration. Journal of Membrane Science, 2006, 273, 129-142.	4.1	39
75	Reduction and control of flux decline in cross-flow membrane processes modeled by artificial neural networks. Journal of Membrane Science, 2006, 286, 125-132.	4.1	55
76	A theoretical analysis of transport phenomena in membrane concentration of liquorice solutions: a FEM approach. Journal of Food Engineering, 2005, 71, 252-264.	2.7	5
77	Ultrafiltration of BSA in pulsating conditions: an artificial neural networks approach. Journal of Membrane Science, 2005, 246, 235-247.	4.1	35
78	THE USE OF RHEOLOGY TO CHARACTERIZE FLOW BEHAVIOR OF LIQUORICE SOLUTIONS. Journal of Food Process Engineering, 2004, 27, 464-475.	1.5	1
79	A theoretical analysis of transport phenomena in a hollow fiber membrane bioreactor with immobilized biocatalyst. Journal of Membrane Science, 2002, 206, 217-241.	4.1	53
80	An integrated centrifugation-ultrafiltration system in the treatment of olive mill wastewater. Journal of Membrane Science, 2002, 209, 519-531.	4.1	177
81	Monitoring and control of TMP and feed flow rate pulsatile operations during ultrafiltration in a membrane module. Desalination, 2002, 145, 217-222.	4.0	21
82	A rheological approach to the study of concentrated milk clotting. Rheologica Acta, 2001, 40, 154-161.	1.1	26
83	Optimal design of single-screw extruder for liquorice candy production: a rheology based approach. Journal of Food Engineering, 2001, 48, 33-44.	2.7	25
84	Fruit juice concentration by membranes: effect of rheological properties on concentration polarization phenomena. Journal of Food Engineering, 2001, 48, 235-241.	2.7	10
85	An experimental analysis of membrane bioreactor performances with immobilized chymosin. Journal of Membrane Science, 2000, 173, 247-261.	4.1	12