

Prakash M Jeganathan

List of Publications by Citations

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75
papers

4,221
citations

39
h-index

64
g-index

77
ext. papers

5,024
ext. citations

6
avg, IF

6.16
L-index

#	Paper	IF	Citations
75	Box-Behnken design based statistical modeling for ultrasound-assisted extraction of corn silk polysaccharide. <i>Carbohydrate Polymers</i> , 2013 , 92, 604-11	10.3	261
74	Phytoremediation of heavy metals: mechanisms, methods and enhancements. <i>Environmental Chemistry Letters</i> , 2018 , 16, 1339-1359	13.3	243
73	Optimization of microwave assisted extraction of pectin from orange peel. <i>Carbohydrate Polymers</i> , 2013 , 97, 703-9	10.3	190
72	Development and validation of ultrasound-assisted solid-liquid extraction of phenolic compounds from waste spent coffee grounds. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 206-213	8.9	157
71	Treatment of pulp and paper industry bleaching effluent by electrocoagulant process. <i>Journal of Hazardous Materials</i> , 2011 , 186, 1495-502	12.8	139
70	Ultrasound assisted extraction of bioactive compounds from <i>Nephelium lappaceum</i> L. fruit peel using central composite face centered response surface design. <i>Arabian Journal of Chemistry</i> , 2017 , 10, S1145-S1157	5.9	138
69	Response surface modeling and optimization of process parameters for aqueous extraction of pigments from prickly pear (<i>Opuntia ficus-indica</i>) fruit. <i>Dyes and Pigments</i> , 2012 , 95, 465-472	4.6	136
68	Development of model for barrier and optical properties of tapioca starch based edible films. <i>Carbohydrate Polymers</i> , 2013 , 92, 1335-47	10.3	134
67	Modeling and optimization of ultrasound-assisted extraction of polysaccharide from <i>Cucurbita moschata</i> . <i>Carbohydrate Polymers</i> , 2013 , 92, 2018-26	10.3	129
66	Response surface optimization of ultrasound assisted extraction of pectin from pomegranate peel. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 1323-8	7.9	124
65	Microwave assisted extraction of pectin from waste <i>Citrullus lanatus</i> fruit rinds. <i>Carbohydrate Polymers</i> , 2014 , 101, 786-91	10.3	117
64	Artificial neural network and response surface methodology modeling in mass transfer parameters predictions during osmotic dehydration of <i>Carica papaya</i> L.. <i>AEJ - Alexandria Engineering Journal</i> , 2013 , 52, 507-516	6.1	117
63	Development of model for mechanical properties of tapioca starch based edible films. <i>Industrial Crops and Products</i> , 2013 , 42, 159-168	5.9	104
62	Ultrasound assisted extraction of pectin from waste <i>Artocarpus heterophyllus</i> fruit peel. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 525-530	8.9	103
61	Comparison of response surface methodology and artificial neural network approach towards efficient ultrasound-assisted biodiesel production from muskmelon oil. <i>Ultrasonics Sonochemistry</i> , 2015 , 23, 192-200	8.9	101
60	Box-Behnken design based multi-response analysis and optimization of supercritical carbon dioxide extraction of bioactive flavonoid compounds from tea (<i>Camellia sinensis</i> L.) leaves. <i>Journal of Food Science and Technology</i> , 2015 , 52, 92-104	3.3	92
59	Ultrasound-assisted extraction of pectin from sisal waste. <i>Carbohydrate Polymers</i> , 2015 , 115, 732-8	10.3	91

58	Degradation behavior of biocomposites based on cassava starch buried under indoor soil conditions. <i>Carbohydrate Polymers</i> , 2014 , 101, 20-8	10.3	88
57	Ultrasound-assisted extraction of polysaccharide from <i>Nephelium lappaceum</i> L. fruit peel. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 530-6	7.9	87
56	Microwave-assisted extraction of polysaccharides from mulberry leaves. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 1-5	7.9	85
55	Microwave-assisted extraction of pectic polysaccharide from waste mango peel. <i>Carbohydrate Polymers</i> , 2015 , 123, 67-71	10.3	80
54	Modeling and optimization of supercritical fluid extraction of anthocyanin and phenolic compounds from <i>Syzygium cumini</i> fruit pulp. <i>Journal of Food Science and Technology</i> , 2014 , 51, 1938-46	3.3	75
53	Modeling and optimization of betalain extraction from <i>Opuntia ficus-indica</i> using BoxBehnken design with desirability function. <i>Industrial Crops and Products</i> , 2013 , 49, 304-311	5.9	66
52	Process optimization and analysis of microwave assisted extraction of pectin from dragon fruit peel. <i>Carbohydrate Polymers</i> , 2014 , 112, 622-6	10.3	63
51	Ultrasound assisted citric acid mediated pectin extraction from industrial waste of <i>Musa balbisiana</i> . <i>Ultrasonics Sonochemistry</i> , 2017 , 35, 204-209	8.9	63
50	Optimization of ultrasound-assisted extraction of natural pigments from <i>Bougainvillea glabra</i> flowers. <i>Industrial Crops and Products</i> , 2015 , 63, 182-189	5.9	57
49	Process variables influence on microwave assisted extraction of pectin from waste <i>Carica papaya</i> L. peel. <i>International Journal of Biological Macromolecules</i> , 2015 , 73, 202-6	7.9	56
48	Modeling of ultrasound assisted intensification of biodiesel production from neem (<i>Azadirachta indica</i>) oil using response surface methodology and artificial neural network. <i>Fuel</i> , 2015 , 143, 262-267	7.1	54
47	Response surface modeling and analysis of barrier and optical properties of maize starch edible films. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 412-21	7.9	53
46	Environment friendly, renewable and sustainable poly lactic acid (PLA) based natural fiber reinforced composites [A comprehensive review]. <i>Journal of Cleaner Production</i> , 2021 , 310, 127483	10.3	52
45	Microencapsulation of garlic oleoresin using maltodextrin as wall material by spray drying technology. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 210-7	7.9	51
44	Ultrasound assisted pectic polysaccharide extraction and its characterization from waste heads of <i>Helianthus annuus</i> . <i>Carbohydrate Polymers</i> , 2017 , 173, 707-713	10.3	47
43	Application of chitosan as an adsorbent to treat rice mill wastewater--mechanism, modelling and optimization. <i>Carbohydrate Polymers</i> , 2013 , 97, 451-7	10.3	47
42	Supercritical fluid extraction of oil from muskmelon (<i>Cucumis melo</i>) seeds. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 47, 71-78	5.3	46
41	Optimization of electrocoagulation process to treat grey wastewater in batch mode using response surface methodology. <i>Journal of Environmental Health Science & Engineering</i> , 2014 , 12, 29	2.9	46

40	Response surface modelling and optimization of treatment of meat industry wastewater using electrochemical treatment method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 46, 160-167	5.3	43
39	Optimization of ultrasound assisted extraction of pectin from custard apple peel: Potential and new source. <i>Carbohydrate Polymers</i> , 2019 , 225, 115240	10.3	42
38	Statistical optimization of aqueous extraction of pectin from waste durian rinds. <i>International Journal of Biological Macromolecules</i> , 2015 , 73, 92-8	7.9	42
37	Chitosan based grey wastewater treatment--a statistical design approach. <i>Carbohydrate Polymers</i> , 2014 , 99, 593-600	10.3	39
36	Model development and process optimization for solvent extraction of polyphenols from red grapes using Box-Behnken design. <i>Preparative Biochemistry and Biotechnology</i> , 2014 , 44, 56-67	2.4	37
35	Multivariate statistical analysis and optimization of ultrasound-assisted extraction of natural pigments from waste red beet stalks. <i>Journal of Food Science and Technology</i> , 2016 , 53, 792-9	3.3	35
34	Fixed-bed adsorption of atrazine onto microwave irradiated Aegle marmelos Correa fruit shell: Statistical optimization, process design and breakthrough modeling. <i>Journal of Molecular Liquids</i> , 2017 , 241, 823-830	6	32
33	Modeling and analysis of film composition on mechanical properties of maize starch based edible films. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 565-73	7.9	31
32	Treatment of egg processing industry effluent using chitosan as an adsorbent. <i>Journal of the Serbian Chemical Society</i> , 2014 , 79, 743-757	0.9	30
31	Treatment of Rice Mill Wastewater Using Continuous Electrocoagulation Technique: Optimization and Modelling. <i>Journal of the Korean Chemical Society</i> , 2013 , 57, 761-768		29
30	Optimization of process parameters in electrocoagulation treating chicken industry wastewater to recover hydrogen gas with pollutant reduction. <i>Renewable Energy</i> , 2015 , 80, 101-108	8.1	27
29	Influence of operating parameters on treatment of egg processing effluent by electrocoagulation process. <i>International Journal of Environmental Science and Technology</i> , 2014 , 11, 1619-1630	3.3	25
28	Influence of Sodium Hydroxide (NaOH) Treatment on Mechanical Properties and Morphological Behaviour of Phoenix sp. Fiber/Epoxy Composites. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 765-774	4.5	24
27	Ecofriendly biopolymers and composites: Preparation and their applications in water-treatment. <i>Biotechnology Advances</i> , 2021 , 52, 107815	17.8	24
26	Optimization of electrocoagulation process to treat biologically pretreated bagasse effluent. <i>Journal of the Serbian Chemical Society</i> , 2014 , 79, 613-626	0.9	23
25	Statistical optimization studies on adsorption of ibuprofen onto Albizialebeck seed pods activated carbon prepared using microwave irradiation. <i>Materials Today: Proceedings</i> , 2018 , 5, 7264-7274	1.4	21
24	Characterization of novel natural cellulosic fibers from purple bauhinia for potential reinforcement in polymer composites. <i>Cellulose</i> , 2021 , 28, 5373	5.5	21
23	Optimization, equilibrium and kinetic studies on ibuprofen removal onto microwave assisted - activated Aegle marmelos correa fruit shell84, 48-58		20

22	Natural Pigments Extraction from Basella rubra L. Fruits by Ultrasound-Assisted Extraction Combined with Box-Behnken Response Surface Design. <i>Separation Science and Technology</i> , 2015 , 50, 1532-1540	2.5	17
21	Modeling of polysaccharide extraction from Gossypium arboreum L. seed using central composite rotatable design. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 857-64	7.9	15
20	Bagasse wastewater treatment using biopolymer: A novel approach. <i>Journal of the Serbian Chemical Society</i> , 2014 , 79, 897-909	0.9	15
19	Cellulose fiber from date palm petioles as potential reinforcement for polymer composites: Physicochemical and structural properties. <i>Polymer Composites</i> , 2021 , 42, 3943-3953	3	14
18	Evaluation of an electrocoagulation process for the treatment of bagasse-based pulp and paper industry wastewater. <i>Environmental Progress and Sustainable Energy</i> , 2015 , 34, 411-419	2.5	13
17	Extraction of natural anthocyanin and colors from pulp of jamun fruit. <i>Journal of Food Science and Technology</i> , 2015 , 52, 3617-26	3.3	13
16	Process optimization of microwave-assisted alkali pretreatment for enhanced delignification of Prosopis juliflora biomass. <i>Environmental Progress and Sustainable Energy</i> , 2020 , 39, 13289	2.5	13
15	Investigation on biogas production process from chicken processing industry wastewater using statistical analysis: Modelling and optimization. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 043117	2.5	12
14	Optimization of EDTA enriched phytoaccumulation of zinc by Ophiopogon japonicus: Comparison of Response Surface, Artificial Neural Network and Random Forest models. <i>Bioresource Technology Reports</i> , 2019 , 7, 100265	4.1	11
13	Modeling and investigation of submerged fermentation process to produce extracellular polysaccharide using Lactobacillus confusus. <i>Carbohydrate Polymers</i> , 2014 , 114, 43-47	10.3	11
12	Performance evaluation and optimization of electrocoagulation process to treat grey wastewater. <i>Desalination and Water Treatment</i> , 2015 , 55, 1703-1711		11
11	Recent Updates on Heavy Metal Remediation Using Date Stones (Phoenix dactylifera L.) Date Fruit Processing Industry Waste. <i>Sustainable Agriculture Reviews</i> , 2019 , 193-206	1.3	9
10	Analysis of Efficiency of Bacillus subtilis To Treat Bagasse Based Paper and Pulp Industry Wastewater-A Novel Approach. <i>Journal of the Korean Chemical Society</i> , 2014 , 58, 198-204		9
9	Evaluation of Mechanical and Water Absorption Behaviors of Jute/Carbon Fiber Reinforced Polyester Hybrid Composites. <i>Journal of Natural Fibers</i> , 1-13	1.8	9
8	Mass transfer kinetics during osmotic dehydration of amla (Embllica officinalis L.) cubes in sugar solution. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2015 , 21, 547-559	0.7	6
7	Nanotechnology based solutions to combat zoonotic viruses with special attention to SARS, MERS, and COVID 19: Detection, protection and medication. <i>Microbial Pathogenesis</i> , 2021 , 159, 105133	3.8	4
6	A study on Apple ber to identify the suitability of new product development. <i>Plant Science Today</i> , 2020 , 7, 61-69	2.2	2
5	Optimization and characterization of pectin recovered from Persea americana peel using statistical and non-statistical techniques. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0

- 4 Sensory evaluation of apple ber using fuzzy TOPSIS. *Materials Today: Proceedings*, **2021**, 45, 2982-2986 1.4 ○
- 3 Assessment of Drug Flow Rate in Skin Cancer Therapy for Enhancing the Drug Delivery System. *Anais Da Academia Brasileira De Ciencias*, **2020**, 92, e20180985 1.4
- 2 Functional properties of hot air dried *Cardiospermum halicacabum* leaves. *Materials Today: Proceedings*, **2021**, 45, 2887-2889 1.4
- 1 Hot air drying characteristics of *Cardiospermum halicacabum* leaves. *Materials Today: Proceedings*, **2021**, 45, 2635-2637 1.4