

Prakash M Jeganathan

List of Publications by Year in descending order

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77
papers

5,940
citations

61857

43
h-index

82410

72
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all docs

77
docs citations

77
times ranked

5710
citing authors

#	ARTICLE	IF	CITATIONS
1	Phytoremediation of heavy metals: mechanisms, methods and enhancements. <i>Environmental Chemistry Letters</i> , 2018, 16, 1339-1359.	8.3	394
2	Boxâ€œBehnken design based statistical modeling for ultrasound-assisted extraction of corn silk polysaccharide. <i>Carbohydrate Polymers</i> , 2013, 92, 604-611.	5.1	309
3	Environment friendly, renewable and sustainable poly lactic acid (PLA) based natural fiber reinforced composites â€œ A comprehensive review. <i>Journal of Cleaner Production</i> , 2021, 310, 127483.	4.6	251
4	Optimization of microwave assisted extraction of pectin from orange peel. <i>Carbohydrate Polymers</i> , 2013, 97, 703-709.	5.1	243
5	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.	3.8	229
6	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.	2.3	184
7	Response surface optimization of ultrasound assisted extraction of pectin from pomegranate peel. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 1323-1328.	3.6	178
8	Treatment of pulp and paper industry bleaching effluent by electrocoagulant process. <i>Journal of Hazardous Materials</i> , 2011, 186, 1495-1502.	6.5	174
9	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.	2.0	171
10	Development of model for barrier and optical properties of tapioca starch based edible films. <i>Carbohydrate Polymers</i> , 2013, 92, 1335-1347.	5.1	164
11	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.	3.4	161
12	Microwave assisted extraction of pectin from waste <i>Citrullus lanatus</i> fruit rinds. <i>Carbohydrate Polymers</i> , 2014, 101, 786-791.	5.1	154
13	Modeling and optimization of ultrasound-assisted extraction of polysaccharide from <i>Cucurbita moschata</i> . <i>Carbohydrate Polymers</i> , 2013, 92, 2018-2026.	5.1	152
14	Ultrasound assisted extraction of pectin from waste <i>Artocarpus heterophyllus</i> fruit peel. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 525-530.	3.8	139
15	Development of model for mechanical properties of tapioca starch based edible films. <i>Industrial Crops and Products</i> , 2013, 42, 159-168.	2.5	127
16	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.	3.8	125
17	Ultrasound-assisted extraction of polysaccharide from <i>Nephelium lappaceum</i> L. fruit peel. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 530-536.	3.6	121
18	Ultrasound-assisted extraction of pectin from sisal waste. <i>Carbohydrate Polymers</i> , 2015, 115, 732-738.	5.1	118

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19	Degradation behavior of biocomposites based on cassava starch buried under indoor soil conditions. <i>Carbohydrate Polymers</i> , 2014, 101, 20-28.	5.1	116
20	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.	1.4	114
21	Microwave-assisted extraction of polysaccharides from mulberry leaves. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 1-5.	3.6	112
22	Microwave-assisted extraction of pectic polysaccharide from waste mango peel. <i>Carbohydrate Polymers</i> , 2015, 123, 67-71.	5.1	106
23	Ultrasound assisted citric acid mediated pectin extraction from industrial waste of <i>Musa balbisiana</i> . <i>Ultrasonics Sonochemistry</i> , 2017, 35, 204-209.	3.8	96
24	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, 1938-1946.	1.4	95
25	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, 202-206.	3.6	82
26	Process optimization and analysis of microwave assisted extraction of pectin from dragon fruit peel. <i>Carbohydrate Polymers</i> , 2014, 112, 622-626.	5.1	81
27	Modeling and optimization of betalain extraction from <i>Opuntia ficus-indica</i> using Box-Behnken design with desirability function. <i>Industrial Crops and Products</i> , 2013, 49, 304-311.	2.5	80
28	Optimization of ultrasound-assisted extraction of natural pigments from <i>Bougainvillea glabra</i> flowers. <i>Industrial Crops and Products</i> , 2015, 63, 182-189.	2.5	79
29	Optimization of ultrasound assisted extraction of pectin from custard apple peel: Potential and new source. <i>Carbohydrate Polymers</i> , 2019, 225, 115240.	5.1	77
30	Ultrasound assisted pectic polysaccharide extraction and its characterization from waste heads of <i>Helianthus annuus</i> . <i>Carbohydrate Polymers</i> , 2017, 173, 707-713.	5.1	75
31	Microencapsulation of garlic oleoresin using maltodextrin as wall material by spray drying technology. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 210-217.	3.6	73
32	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.	2.4	73
33	Ecofriendly biopolymers and composites: Preparation and their applications in water-treatment. <i>Biotechnology Advances</i> , 2021, 52, 107815.	6.0	72
34	Modeling of ultrasound assisted intensification of biodiesel production from neem (<i>Azadirachta</i>) Tj ETQq0 0 0 rgBT, Overlock, 10 Tf 50 1	3.4	70
35	Response surface modeling and analysis of barrier and optical properties of maize starch edible films. <i>International Journal of Biological Macromolecules</i> , 2013, 60, 412-421.	3.6	62
36	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.	2.7	59

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37	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.	2.7	59
38	Characterization of novel natural cellulosic fibers from purple bauhinia for potential reinforcement in polymer composites. <i>Cellulose</i> , 2021, 28, 5373.	2.4	58
39	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.	1.4	56
40	Statistical optimization of aqueous extraction of pectin from waste durian rinds. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 92-98.	3.6	56
41	Application of chitosan as an adsorbent to treat rice mill wastewater—Mechanism, modelling and optimization. <i>Carbohydrate Polymers</i> , 2013, 97, 451-457.	5.1	52
42	Cellulose fiber from date palm petioles as potential reinforcement for polymer composites: Physicochemical and structural properties. <i>Polymer Composites</i> , 2021, 42, 3943-3953.	2.3	51
43	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, 792-799.	1.4	49
44	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.	1.0	42
45	Modeling and analysis of film composition on mechanical properties of maize starch based edible films. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 565-573.	3.6	41
46	Treatment of egg processing industry effluent using chitosan as an adsorbent. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 743-757.	0.4	41
47	Chitosan based grey wastewater treatment—A statistical design approach. <i>Carbohydrate Polymers</i> , 2014, 99, 593-600.	5.1	41
48	Fixed-bed adsorption of atrazine onto microwave irradiated <i>Aegle marmelos</i> Correa fruit shell: Statistical optimization, process design and breakthrough modeling. <i>Journal of Molecular Liquids</i> , 2017, 241, 823-830.	2.3	39
49	Treatment of Rice Mill Wastewater Using Continuous Electrocoagulation Technique: Optimization and Modelling. <i>Journal of the Korean Chemical Society</i> , 2013, 57, 761-768.	0.2	34
50	Statistical optimization studies on adsorption of ibuprofen onto <i>Albizialebeck</i> seed pods activated carbon prepared using microwave irradiation. <i>Materials Today: Proceedings</i> , 2018, 5, 7264-7274.	0.9	33
51	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.	4.3	32
52	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.	1.8	31
53	Process optimization of microwave-assisted alkali pretreatment for enhanced delignification of <i>Prosopis juliflora</i> biomass. <i>Environmental Progress and Sustainable Energy</i> , 2020, 39, 13289.	1.3	29
54	Optimization of electrocoagulation process to treat biologically pretreated bagasse effluent. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 613-626.	0.4	27

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55	Optimization, equilibrium and kinetic studies on ibuprofen removal onto microwave assisted - activated Aegle marmelos correa fruit shell ., 0, 84, 48-58.		24
56	Bagasse wastewater treatment using biopolymer: A novel approach. Journal of the Serbian Chemical Society, 2014, 79, 897-909.	0.4	21
57	Natural Pigments Extraction from <i>Basella rubra</i> L. Fruits by Ultrasound-Assisted Extraction Combined with Box-Behnken Response Surface Design. Separation Science and Technology, 2015, 50, 1532-1540.	1.3	21
58	Evaluation of Mechanical and Water Absorption Behaviors of Jute/Carbon Fiber Reinforced Polyester Hybrid Composites. Journal of Natural Fibers, 2022, 19, 6521-6533.	1.7	20
59	Extraction of natural anthocyanin and colors from pulp of jamun fruit. Journal of Food Science and Technology, 2015, 52, 3617-26.	1.4	19
60	Modeling of polysaccharide extraction from <i>Gossypium arboreum</i> L. seed using central composite rotatable design. International Journal of Biological Macromolecules, 2016, 86, 857-864.	3.6	19
61	Evaluation of an electrocoagulation process for the treatment of bagasse-based pulp and paper industry wastewater. Environmental Progress and Sustainable Energy, 2015, 34, 411-419.	1.3	16
62	Optimization of EDTA enriched phytoaccumulation of zinc by <i>Ophiopogon japonicus</i> : Comparison of Response Surface, Artificial Neural Network and Random Forest models. Bioresource Technology Reports, 2019, 7, 100265.	1.5	16
63	Nanotechnology based solutions to combat zoonotic viruses with special attention to SARS, MERS, and COVID 19: Detection, protection and medication. Microbial Pathogenesis, 2021, 159, 105133.	1.3	16
64	Investigation on biogas production process from chicken processing industry wastewater using statistical analysis: Modelling and optimization. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	15
65	Performance evaluation and optimization of electrocoagulation process to treat grey wastewater. Desalination and Water Treatment, 2015, 55, 1703-1711.	1.0	12
66	Analysis of Efficiency of <i>Bacillus subtilis</i> To Treat Bagasse Based Paper and Pulp Industry Wastewater-A Novel Approach. Journal of the Korean Chemical Society, 2014, 58, 198-204.	0.2	12
67	Modeling and investigation of submerged fermentation process to produce extracellular polysaccharide using <i>Lactobacillus confusus</i> . Carbohydrate Polymers, 2014, 114, 43-47.	5.1	11
68	Recent Updates on Heavy Metal Remediation Using Date Stones (<i>Phoenix dactylifera</i> L.) " Date Fruit Processing Industry Waste. Sustainable Agriculture Reviews, 2019, , 193-206.	0.6	10
69	Mass transfer kinetics during osmotic dehydration of amla (<i>Emblca officinalis</i> L.) cubes in sugar solution. Chemical Industry and Chemical Engineering Quarterly, 2015, 21, 547-559.	0.4	9
70	A study on Apple ber to identify the suitability of new product development. Plant Science Today, 2020, 7, 61-69.	0.4	4
71	Reactive compatibilization effect of graphene oxide reinforced butyl rubber nanocomposites. Polimeros, 2020, 30, .	0.2	3
72	Optimization and characterization of pectin recovered from <i>Persea americana</i> peel using statistical and non-statistical techniques. Biomass Conversion and Biorefinery, 0, , 1.	2.9	2

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73	RESPONSE SURFACE ANALYSIS AND OPTIMIZATION OF OSMOTIC DEHYDRATION OF <i>Musa acuminata</i> SLICES. Journal of Microbiology, Biotechnology and Food Sciences, 2019, 8, 1016.	0.4	2
74	Sensory evaluation of apple ber using fuzzy TOPSIS. Materials Today: Proceedings, 2021, 45, 2982-2986.	0.9	1
75	Functional properties of hot air dried <i>Cardiospermum halicacabum</i> leaves. Materials Today: Proceedings, 2021, 45, 2887-2889.	0.9	0
76	Hot air drying characteristics of <i>Cardiospermum halicacabum</i> leaves. Materials Today: Proceedings, 2021, 45, 2635-2637.	0.9	0
77	Assessment of Drug Flow Rate in Skin Cancer Therapy for Enhancing the Drug Delivery System. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20180985.	0.3	0