

Natesan Sivarajasekar

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,901
citations

331259

21
h-index

276539

41
g-index

52
all docs

52
docs citations

52
times ranked

1729
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	Biopolymers and composites: Properties, characterization and their applications in food, medical and pharmaceutical industries. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105322.	3.3	134
3	Effective adsorption of antidiabetic pharmaceutical (metformin) from aqueous medium using graphene oxide nanoparticles: Equilibrium and statistical modelling. <i>Journal of Molecular Liquids</i> , 2020, 301, 112426.	2.3	128
4	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
5	Pollutants inducing epigenetic changes and diseases. <i>Environmental Chemistry Letters</i> , 2020, 18, 325-343.	8.3	81
6	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
7	Ecofriendly biopolymers and composites: Preparation and their applications in water-treatment. <i>Biotechnology Advances</i> , 2021, 52, 107815.	6.0	72
8	Adsorption of basic red 9 on activated waste <i>Gossypium hirsutum</i> seeds: Process modeling, analysis and optimization using statistical design. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2699-2709.	2.9	58
9	Biosorption potential of <i>Phoenix dactylifera</i> coir wastes for toxic hexavalent chromium sequestration. <i>Chemosphere</i> , 2021, 268, 128809.	4.2	54
10	Enhanced ultrasonic assisted biodiesel production from meat industry waste (pig tallow) using green copper oxide nanocatalyst: Comparison of response surface and neural network modelling. <i>Renewable Energy</i> , 2021, 164, 897-907.	4.3	54
11	Adsorption of basic red 9 onto activated carbon derived from immature cotton seeds: isotherm studies and error analysis. <i>Desalination and Water Treatment</i> , 2014, 52, 7743-7765.	1.0	53
12	Adsorption of Basic Magenta II onto H ₂ SO ₄ activated immature <i>Gossypium hirsutum</i> seeds: Kinetics, isotherms, mass transfer, thermodynamics and process design. <i>Arabian Journal of Chemistry</i> , 2019, 12, 1322-1337.	2.3	53
13	A review of the therapeutic and biological effects of edible and wild mushrooms. <i>Bioengineered</i> , 2021, 12, 11239-11268.	1.4	43
14	Bio-degradation of Bisphenol A by <i>Pseudomonas aeruginosa</i> PAb1 isolated from effluent of thermal paper industry: Kinetic modeling and process optimization. <i>Journal of Radiation Research and Applied Sciences</i> , 2018, 11, 56-65.	0.7	41
15	Process intensification and comparison of bioethanol production from food industry waste (potatoes) by ultrasonic assisted acid hydrolysis and enzymatic hydrolysis: Statistical modelling and optimization. <i>Biomass and Bioenergy</i> , 2020, 142, 105752.	2.9	41
16	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
17	Nano-activated carbon derived from date palm coir waste for efficient sequestration of noxious 2,4-dichlorophenoxyacetic acid herbicide. <i>Chemosphere</i> , 2021, 282, 131103.	4.2	37
18	Adsorptive removal of noxious atrazine using graphene oxide nanosheets: Insights to process optimization, equilibrium, kinetics, and density functional theory calculations. <i>Environmental Research</i> , 2021, 200, 111428.	3.7	35

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19	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.	0.9	33
20	Biosorption of basic violet 10 onto activated <i>Gossypium hirsutum</i> seeds: Batch and fixed-bed column studies. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 1610-1619.	1.7	27
21	Efficient removal of antidepressant Flupentixol using graphene oxide/cellulose nanogel composite: Particle swarm algorithm based artificial neural network modelling and optimization. <i>Journal of Molecular Liquids</i> , 2020, 319, 114371.	2.3	26
22	Optimization, equilibrium and kinetic studies on ibuprofen removal onto microwave assisted - activated <i>Aegle marmelos correa</i> fruit shell. , 0, 84, 48-58.		24
23	Optimization and extraction of pharmaceutical micro-pollutant - norfloxacin using emulsion liquid membranes. , 0, 156, 238-244.		23
24	Biosorption studies on waste cotton seed for cationic dyes sequestration: equilibrium and thermodynamics. <i>Applied Water Science</i> , 2017, 7, 1987-1995.	2.8	22
25	Fixed-Bed Adsorption of Ranitidine Hydrochloride Onto Microwave Assisted Activated <i>Aegle marmelos Correa</i> Fruit Shell: Statistical Optimization and Breakthrough Modelling. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 2205-2215.	1.7	21
26	Research Updates on Heavy Metal Phytoremediation: Enhancements, Efficient Post-harvesting Strategies and Economic Opportunities. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 191-222.	0.3	21
27	Biosorption of xenobiotic Reactive Black B onto metabolically inactive <i>T. harzianum</i> biomass: optimization and equilibrium studies. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 3625-3636.	1.8	16
28	Optimization of EDTA enriched phytoaccumulation of zinc by <i>Ophiopogon japonicus</i> : Comparison of Response Surface, Artificial Neural Network and Random Forest models. <i>Bioresource Technology Reports</i> , 2019, 7, 100265.	1.5	16
29	Cost-effective composite prepared from sewage sludge waste and cement kiln dust as permeable reactive barrier to remediate simulated groundwater polluted with tetracycline. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105194.	3.3	16
30	Preparation and characterization of cassava stem biochar for mixed reactive dyes removal from simulated effluent. , 0, 189, 440-451.		16
31	Eco-Friendly Acetaminophen Sequestration Using Waste Cotton Seeds: Equilibrium, Optimization and Validation Studies. <i>Journal of Water Chemistry and Technology</i> , 2018, 40, 334-342.	0.2	15
32	Back-propagation neural network: Behnken design modelling for optimization of copper adsorption on orange zest biochar. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 4321-4336.	1.8	15
33	Graphene Family Materials for the Removal of Pesticides from Water. , 2019, , 309-327.		14
34	Sub-critical water extraction of reducing sugars and phenolic compounds from date palm fruit. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	14
35	Comparative and Equilibrium Studies on Anionic and Cationic Dyes Removal by Nano-Alumina-Doped Catechol Formaldehyde Composite. <i>Journal of Chemistry</i> , 2020, 2020, 1-15.	0.9	13
36	<i>Hevea brasiliensis</i> - A Biosorbent for the Adsorption of Cu(II) from Aqueous Solutions. <i>Carbon Letters</i> , 2007, 8, 199-206.	3.3	11

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37	Kinetic Modeling for Biosorption of Methylene Blue onto H ₃ PO ₄ Activated Acacia arabica. Carbon Letters, 2008, 9, 181-187.	3.3	11
38	Comparative modeling of fluoride biosorption onto waste Gossypium hirsutum seed microwave-biochar using response surface methodology and artificial neural networks. , 2017, , .		10
39	Recent Updates on Heavy Metal Remediation Using Date Stones (Phoenix dactylifera L.) " Date Fruit Processing Industry Waste. Sustainable Agriculture Reviews, 2019, , 193-206.	0.6	10
40	Cationic Dyes Sequestration from Aqueous Phase Using Biosurfactant Based Reverse Micelles. , 2016, , 67-74.		8
41	Biobutanol: Insight, Production and Challenges. Springer Proceedings in Energy, 2020, , 25-37.	0.2	6
42	Saponin-Aided Reverse Micellar Extraction of Malachite Green Dye From Aqueous Solutions. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 89-97.	0.4	5
43	Optimization of copper(II) biosorption onto waste Gossypium hirsutum seed microwave-biochar using RSM. AIP Conference Proceedings, 2020, , .	0.3	4
44	Bio-Synthesized Silver Nanoparticles For Effective Photo- catalytic Degradation of Congo Red Dye in Aqueous Solutions: Optimization Studies Using Response Surface Methodology. Analytical Chemistry Letters, 2021, 11, 801-815.	0.4	4
45	Response surface analysis and optimization of inulin extraction from garlic. Biomass Conversion and Biorefinery, 2023, 13, 10845-10851.	2.9	3
46	Optimization and characterization of pectin recovered from Persea americana peel using statistical and non-statistical techniques. Biomass Conversion and Biorefinery, 0, , 1.	2.9	2
47	A Review on the Production of Biogas from Biological Sources. Springer Proceedings in Energy, 2020, , 1-12.	0.2	2
48	An ensemble based model for the adsorptive removal of amoxicillin by microwave-biochar of waste cotton seeds. AIP Conference Proceedings, 2020, , .	0.3	2
49	Studies on Drying Characteristics of Rhizomes of Ginger (Zingiber officinale Rosc). , 2016, , 59-65.		1
50	Biosurfactant assisted liquid-membrane extraction of methyl-orange from aqueous solutions. AIP Conference Proceedings, 2020, , .	0.3	1
51	Modelling and optimization of total polyphenols extraction from Curcuma caesia. AIP Conference Proceedings, 2020, , .	0.3	1
52	Kinetics and thermodynamics of thermal inactivation of partially purified bacteriocin from Pseudomonas aeruginosa. AIP Conference Proceedings, 2020, , .	0.3	0