Senthil Kumar Arumugasamy

List of Publications by Year
in descending order

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Version: 2024-02-01

		759233	677142
37	525	12	22
papers	citations	h-index	g-index

37	37	37	586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Treatment of palm oil mill effluent (POME) using chickpea (Cicer arietinum) as a natural coagulant and flocculant: Evaluation, process optimization and characterization of chickpea powder. Journal of Environmental Chemical Engineering, 2018, 6, 6243-6255.	6.7	72
2	Development of polyhydroxyalkanoates production from waste feedstocks and applications. Journal of Bioscience and Bioengineering, 2018, 126, 282-292.	2.2	71
3	Comparative study of artificial neural network (ANN), adaptive neuro-fuzzy inference system (ANFIS) and multiple linear regression (MLR) for modeling of Cu (II) adsorption from aqueous solution using biochar derived from rambutan (Nephelium lappaceum) peel. Environmental Monitoring and Assessment, 2020, 192, 439.	2.7	51
4	Adsorption of Copper(II) Ion from Aqueous Solution Using Biochar Derived from Rambutan (Nepheliumlappaceum) Peel: Feedforward Neural Network Modelling Study. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	32
5	An experimental and modelling approach to produce biochar from banana peels through pyrolysis as potential renewable energy resources. Modeling Earth Systems and Environment, 2020, 6, 115-128.	3.4	29
6	Utilisation of natural plant-based fenugreek (Trigonella foenum-graecum) coagulant and okra (Abelmoschus escluentus) flocculant for palm oil mill effluent (POME) treatment. Journal of Environmental Chemical Engineering, 2021, 9, 104667.	6.7	29
7	Outlook on biorefinery potential of palm oil mill effluent for resource recovery. Journal of Environmental Chemical Engineering, 2020, 8, 104519.	6.7	23
8	Optimization and modelling of enzymatic polymerization of Îµ-caprolactone to polycaprolactone using Candida Antartica Lipase B with response surface methodology and artificial neural network. Enzyme and Microbial Technology, 2019, 122, 7-18.	3.2	19
9	Prediction of carbon sequestration of biochar produced from biomass pyrolysis by artificial neural network. Journal of Environmental Chemical Engineering, 2022, 10, 107640.	6.7	17
10	Performance comparison of feedforward neural network training algorithms in modeling for synthesis of polycaprolactone via biopolymerization. Clean Technologies and Environmental Policy, 2018, 20, 1971-1986.	4.1	16
11	Artificial Neural Network (ANN) Modelling of Palm Oil Mill Effluent (POME) Treatment with Natural Bio-coagulants. Environmental Processes, 2020, 7, 509-535.	3.5	15
12	Microwave-assisted pyrolysis for carbon catalyst, nanomaterials and biofuel production. Fuel, 2022, 313, 123023.	6.4	14
13	Development of a computational predictive model for the nonlinear in-plane compressive response of sandwich panels with bio-foam. Composite Structures, 2019, 212, 423-433.	5.8	13
14	Fenugreek seeds and okra for the treatment of palm oil mill effluent (POME) â€“ Characterization studies and modeling with backpropagation feedforward neural network (BFNN). Journal of Water Process Engineering, 2020, 37, 101500.	5.6	11
15	Potential of Biochar as Soil Amendment: Prediction of Elemental Ratios from Pyrolysis of Agriculture Biomass Using Artificial Neural Network. Water, Air, and Soil Pollution, 2022, 233, 1.	2.4	11
16	Data augmentation and machine learning techniques for control strategy development in bio-polymerization process. Environmental Science and Ecotechnology, 2022, 11, 100172.	13.5	11
17	Candida antarctica as catalyst for polycaprolactone synthesis: effect of temperature and solvents. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 398-405.	1.5	10
18	Comparison of response surface methodology and feedforward neural network modeling for polycaprolactone synthesis using enzymatic polymerization. Biocatalysis and Agricultural Biotechnology, 2019, 18, 101046.	3.1	10

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19	Artificial neural networks modelling: Gasification behaviour of palm fibre biochar. Materials Science for Energy Technologies, 2020, 3, 868-878.	1.8	9
20	Stability of biochar derived from banana peel through pyrolysis as alternative source of nutrient in soil: feedforward neural network modelling study. Environmental Monitoring and Assessment, 2022, 194, 70.	2.7	8
21	Statistical Design of Experimental and Bootstrap Neural Network Modelling Approach for Thermoseparating Aqueous Two-Phase Extraction of Polyhydroxyalkanoates. Polymers, 2018, 10, 132.	4.5	7
22	Deep learning techniques for polycaprolactone molecular weight prediction via enzymatic polymerization process. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 238-255.	5.3	7
23	Pyrolysis of Biomass. , 2017, , 215-229.		6
24	Comparison between Artificial Neural Networks and Support Vector Machine Modeling for Polycaprolactone Synthesis via Enzyme Catalyzed Polymerization. Process Integration and Optimization for Sustainability, 2021, 5, 599-607.	2.6	5
25	Elevating Model Predictive Control Using Feedforward Artificial Neural Networks: A Review. Chemical Product and Process Modeling, 2009, 4, .	0.9	4
26	Development of surrogate predictive models for the nonlinear elasto-plastic response of medium density fibreboard-based sandwich structures. International Journal of Lightweight Materials and Manufacture, 2021, 4, 302-314.	2.1	4
27	Optimisation of process parameters using D-optimal for enzymatic synthesis of polycaprolactone. Polymer Bulletin, 2018, 75, 3227-3239.	3.3	3
28	Parametric optimization of polycaprolactone synthesis catalysed by Candida antarctica lipase B using response surface methodology. Biopolymers, 2018, 109, e23240.	2.4	3
29	Dynamic simulation of airborne pollutant concentrations associated with the effect of climate change in Batu Muda region, Malaysia. Modeling Earth Systems and Environment, 0, , 1.	3.4	3
30	Rambutan (Nephelium lappaceum) seeds for the treatment of Palm Oil Mill Effluent (POME) and its Feedforward Artificial Neural Network (FANN) modeling. Journal of Modern Manufacturing Systems and Technology, 0, 4, 1-14.	0.2	3
31	Feedforward artificial neural network to improve model predictive control in biological processes. International Journal of Automation and Control, 2011, 5, 371.	0.5	2
32	Modeling of Polycaprolactone Production from Îµ-Caprolactone Using Neural Network. Lecture Notes in Computer Science, 2012, , 444-451.	1.3	2
33	Artificial Neural Network Modelling for Slow Pyrolysis Process of Biochar from Banana Peels and Its Effect on O/C Ratio. Advances in Intelligent Systems and Computing, 2021, , 336-350.	0.6	2
34	Hybrid Model for Biopolymerization Process (Îµ-Caprolactone to Polycaprolactone). Applied Mechanics and Materials, 0, 625, 77-80.	0.2	1
35	Multi input single output model predictive control of non-linear bio-polymerization process. AIP Conference Proceedings, 2015, , .	0.4	1
36	Prediction of Polycaprolactone Molecular Weight Synthesized via Enzymatic Polymerization Process: Comparing Training Algorithms of Artificial Neural Network Modeling. Process Integration and Optimization for Sustainability, 0, , 1.	2.6	1

#	Article	IF	Citations
37	Modelling of adsorption of anionic azo dye using Strychnos potatorum Linn seeds (SPS) from aqueous solution with artificial neural network (ANN). Environmental Monitoring and Assessment, 2021, 193, 638.	2.7	0