Senthil Kumar Arumugasamy

List of Publications by Year
in descending order

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		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	Microwave-assisted pyrolysis for carbon catalyst, nanomaterials and biofuel production. Fuel, 2022, 313, 123023.	6.4	14
2	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
3	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
4	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
5	Data augmentation and machine learning techniques for control strategy development in bio-polymerization process. Environmental Science and Ecotechnology, 2022, 11, 100172.	13.5	11
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	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Outlook on biorefinery potential of palm oil mill effluent for resource recovery. Journal of Environmental Chemical Engineering, 2020, 8, 104519.	6.7	23
15	Artificial neural networks modelling: Gasification behaviour of palm fibre biochar. Materials Science for Energy Technologies, 2020, 3, 868-878.	1.8	9
16	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
17	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
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	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
20	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
21	Optimisation of process parameters using D-optimal for enzymatic synthesis of polycaprolactone. Polymer Bulletin, 2018, 75, 3227-3239.	3.3	3
22	Parametric optimization of polycaprolactone synthesis catalysed by Candida antarctica lipase B using response surface methodology. Biopolymers, 2018, 109, e23240.	2.4	3
23	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
24	Development of polyhydroxyalkanoates production from waste feedstocks and applications. Journal of Bioscience and Bioengineering, 2018, 126, 282-292.	2.2	71
25	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
26	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
27	Pyrolysis of Biomass. , 2017, , 215-229.		6
28	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
29	Multi input single output model predictive control of non-linear bio-polymerization process. AIP Conference Proceedings, 2015, , .	0.4	1
30	Modeling of Polycaprolactone Production from Îµ-Caprolactone Using Neural Network. Lecture Notes in Computer Science, 2012, , 444-451.	1.3	2
31	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
32	Feedforward artificial neural network to improve model predictive control in biological processes. International Journal of Automation and Control, 2011, 5, 371.	0.5	2
33	Elevating Model Predictive Control Using Feedforward Artificial Neural Networks: A Review. Chemical Product and Process Modeling, 2009, 4, .	0.9	4
34	Hybrid Model for Biopolymerization Process (Îµ-Caprolactone to Polycaprolactone). Applied Mechanics and Materials, 0, 625, 77-80.	0.2	1
35	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
36	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

#	Article	IF	Citations
37	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