Mahinsasa Narayana

List of Publications by Year
in descending order

42 papers	839 citations	933264 10 h-index	839398 18 g-index
42 all docs	42 docs citations	42 times ranked	950 citing authors

#	Article	IF	Citations
1	Biomass valorization and phytoremediation as integrated Technology for Municipal Solid Waste Management for developing economic context. Biomass Conversion and Biorefinery, 2021, 11, 363-382.	2.9	13
2	Modeling seeded suspension polymerization of core-shell polymer particles using computational fluid dynamics. Chemical Engineering Science, 2021, 231, 116277.	1.9	2
3	Modeling of thermochemical conversion of waste biomass â€" a comprehensive review. Biofuel Research Journal, 2021, 8, 1481-1528.	7.2	85
4	Pyrolysis of single biomass particle using three-dimensional Computational Fluid Dynamics modelling. Renewable Energy, 2020, 146, 1153-1165.	4.3	30
5	Effect of Turbulence of the Freeboard on Fluidizedâ€Bed Biomass Combustion. Chemical Engineering and Technology, 2020, 43, 2393-2402.	0.9	1
6	Process Parameter Optimization of Urban Biowaste Carbonization. , 2020, , .		2
7	Genetic Algorithm Tuned PID controllers for Multivariable Level Control System. , 2019, , .		0
8	Torrefaction of Urban Bio Waste in Sri Lanka. , 2019, , .		1
9	Process Parameter Estimation and Temperature Control of a Reactor with High Thermal Inertia. , 2019, , .		1
10	Adaptive Model Predictive Control with Successive Linearization for Distillate Composition Control in Batch Distillation. , 2019, , .		9
11	Resource recovery from bio-based production processes in developing Asia. Sustainable Production and Consumption, 2019, 17, 196-214.	5.7	21
12	Modelling of particle size effect on Equivalence Ratio requirement for wood combustion in fixed beds. Biomass Conversion and Biorefinery, 2019, 9, 183-199.	2.9	6
13	Predicting the effective viscosity of nanofluids based on the rheology of suspensions of solid particles. Journal of King Saud University - Science, 2019, 31, 412-426.	1.6	61
14	On the Estimation of Viscosities of Non-Newtonian Nanofluids: A Reliable Approach Based on the Shear Rate. Journal of Nanofluids, 2019, 8, 861-869.	1.4	0
15	The effects of air velocity, temperature and particle size on low-temperature bed drying of wood chips. Biomass Conversion and Biorefinery, 2018, 8, 211-223.	2.9	6
16	Maximum Power Point Tracking: Adaptation Linear Prediction for Wind Energy Conversion Systems. , 2018, , .		1
17	Development of a Model for Predicting the Effective Thermal Conductivity of Nanofluids: A Reliable Approach for Nanofluids Containing Spherical Nanoparticles. Journal of Nanofluids, 2018, 7, 129-140.	1.4	3
18	Kissinger method: the sequential approach and DAEM for kinetic study of rubber and gliricidia wood. Journal of the National Science Foundation of Sri Lanka, 2018, 46, 187.	0.1	9

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19	Adaptive linear prediction for optimal control of wind turbines. Renewable Energy, 2017, 113, 895-906.	4.3	28
20	Finite volume analysis of biomass particle pyrolysis. , 2017, , .		3
21	Particle modelling for convective drying of copra. , 2017, , .		0
22	Analysis and derivation of optimum operating conditions of Lapple cyclone separator by using CFD. , 2016, , .		1
23	Limiting value of Reynolds Averaged Simulation in numerical prediction of flow over NACA4415 airfoil. , 2016, , .		2
24	Performance analysis of updraft gasifier. , 2016, , .		1
25	The impact of the upwind angle for a wind-driven iron smelting furnace in Sri Lanka. , 2016, , .		0
26	Modelling and simulation of wood chip combustion in a hot air generator system. SpringerPlus, 2016, 5, 1166.	1.2	12
27	A comprehensive two dimensional Computational Fluid Dynamics model for an updraft biomass gasifier. Renewable Energy, 2016, 99, 698-710.	4.3	34
28	Levelised cost of energy analysis: A comparison of urban (micro) wind turbines and solar PV systems. , 2016, , .		8
29	Numerical simulation of the moisture diffusion in copra drying process. , 2016, , .		2
30	Impact of climate change on wind energy generation in Mannar-Sri Lanka. , 2016, , .		0
31	The cost of energy associated with micro wind generation: International case studies of rural and urban installations. Energy, 2016, 109, 818-829.	4.5	33
32	Simulation of ancient wind-driven iron smelting furnaces of Sri Lanka. , 2015, , .		1
33	Introduction of flap gates for anicuts in wet zone. , 2015, , .		1
34	A mathematical model for Pyrolysis of biomass. , 2015, , .		5
35	Development of a model to investigate the yaw behaviour of small horizontal axis wind turbines. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2012, 226, 86-97.	0.8	6
36	Adaptive prediction of power fluctuations from a wind turbine at Kalpitiya area in Sri Lanka. , 2012, , .		4

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37	Generic maximum power point tracking controller for small-scale wind turbines. Renewable Energy, 2012, 44, 72-79.	4.3	87
38	Electric vehicles as storage devices for Supply-Demand management. , 2010, , .		2
39	Maximum power point tracking for variable-speed fixed-pitch small wind turbines. , 2009, , .		11
40	Impact of electric vehicles on power distribution networks. , 2009, , .		338
41	Validation of Wind Resource Assessment Model (WRAM) map of Sri Lanka, using measured data, and evaluation of wind power generation potential in the country. Energy for Sustainable Development, 2008, 12, 64-68.	2.0	7
42	Demand and supply analysis of community type wind power system at Gurugoda Village in Sri Lanka. , 2007, , .		2