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	Impact of electric vehicles on power distribution networks. , 2009, , .		338
2	Generic maximum power point tracking controller for small-scale wind turbines. Renewable Energy, 2012, 44, 72-79.	4.3	87
3	Modeling of thermochemical conversion of waste biomass â€" a comprehensive review. Biofuel Research Journal, 2021, 8, 1481-1528.	7.2	85
4	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
5	A comprehensive two dimensional Computational Fluid Dynamics model for an updraft biomass gasifier. Renewable Energy, 2016, 99, 698-710.	4.3	34
6	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
7	Pyrolysis of single biomass particle using three-dimensional Computational Fluid Dynamics modelling. Renewable Energy, 2020, 146, 1153-1165.	4.3	30
8	Adaptive linear prediction for optimal control of wind turbines. Renewable Energy, 2017, 113, 895-906.	4.3	28
9	Resource recovery from bio-based production processes in developing Asia. Sustainable Production and Consumption, 2019, 17, 196-214.	5.7	21
10	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
11	Modelling and simulation of wood chip combustion in a hot air generator system. SpringerPlus, 2016, 5, 1166.	1.2	12
12	Maximum power point tracking for variable-speed fixed-pitch small wind turbines. , 2009, , .		11
13	Adaptive Model Predictive Control with Successive Linearization for Distillate Composition Control in Batch Distillation. , 2019, , .		9
14	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
15	Levelised cost of energy analysis: A comparison of urban (micro) wind turbines and solar PV systems. , 2016, , .		8
16	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
17	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
18	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

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19	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
20	A mathematical model for Pyrolysis of biomass. , 2015, , .		5
21	Adaptive prediction of power fluctuations from a wind turbine at Kalpitiya area in Sri Lanka. , 2012, , .		4
22	Finite volume analysis of biomass particle pyrolysis. , 2017, , .		3
23	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
24	Demand and supply analysis of community type wind power system at Gurugoda Village in Sri Lanka. , 2007, , .		2
25	Electric vehicles as storage devices for Supply-Demand management. , 2010, , .		2
26	Limiting value of Reynolds Averaged Simulation in numerical prediction of flow over NACA4415 airfoil. , 2016, , .		2
27	Numerical simulation of the moisture diffusion in copra drying process. , 2016, , .		2
28	Process Parameter Optimization of Urban Biowaste Carbonization. , 2020, , .		2
29	Modeling seeded suspension polymerization of core-shell polymer particles using computational fluid dynamics. Chemical Engineering Science, 2021, 231, 116277.	1.9	2
30	Simulation of ancient wind-driven iron smelting furnaces of Sri Lanka. , 2015, , .		1
31	Introduction of flap gates for anicuts in wet zone. , 2015, , .		1
32	Analysis and derivation of optimum operating conditions of Lapple cyclone separator by using CFD. , 2016, , .		1
33	Performance analysis of updraft gasifier. , 2016, , .		1
34	Maximum Power Point Tracking: Adaptation Linear Prediction for Wind Energy Conversion Systems. , 2018, , .		1
35	Torrefaction of Urban Bio Waste in Sri Lanka. , 2019, , .		1
36	Process Parameter Estimation and Temperature Control of a Reactor with High Thermal Inertia. , 2019, , .		1

#	Article	IF	Citations
37	Effect of Turbulence of the Freeboard on Fluidizedâ€Bed Biomass Combustion. Chemical Engineering and Technology, 2020, 43, 2393-2402.	0.9	1
38	The impact of the upwind angle for a wind-driven iron smelting furnace in Sri Lanka. , 2016, , .		0
39	Impact of climate change on wind energy generation in Mannar-Sri Lanka. , 2016, , .		0
40	Particle modelling for convective drying of copra. , 2017, , .		0
41	Genetic Algorithm Tuned PID controllers for Multivariable Level Control System. , 2019, , .		0
42	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