

Tosin Somorin

List of Publications by Year in descending order

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51
papers

1,163
citations

331538

21
h-index

395590

33
g-index

51
all docs

51
docs citations

51
times ranked

1130
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Study of Multiple-Criteria Decision-Making Methods under Stochastic Inputs. <i>Energies</i> , 2016, 9, 566.	1.6	191
2	Failure Mode Identification and End of Life Scenarios of Offshore Wind Turbines: A Review. <i>Energies</i> , 2015, 8, 8339-8354.	1.6	75
3	An Integrated FTA-FMEA Model for Risk Analysis of Engineering Systems: A Case Study of Subsea Blowout Preventers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1192.	1.3	75
4	An experimental investigation of the combustion performance of human faeces. <i>Fuel</i> , 2016, 184, 780-791.	3.4	53
5	State-level assessment of the waste-to-energy potential (via incineration) of municipal solid wastes in Nigeria. <i>Journal of Cleaner Production</i> , 2017, 164, 804-815.	4.6	52
6	Energy recovery from human faeces via gasification: A thermodynamic equilibrium modelling approach. <i>Energy Conversion and Management</i> , 2016, 118, 364-376.	4.4	50
7	Data management for structural integrity assessment of offshore wind turbine support structures: data cleansing and missing data imputation. <i>Ocean Engineering</i> , 2019, 173, 867-883.	1.9	44
8	SCADA Data-Based Support Vector Machine Wind Turbine Power Curve Uncertainty Estimation and Its Comparative Studies. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8685.	1.3	33
9	Reliability-based design optimization of a spar-type floating offshore wind turbine support structure. <i>Reliability Engineering and System Safety</i> , 2021, 213, 107666.	5.1	33
10	Thermodynamic analysis of a gamma type Stirling engine in an energy recovery system. <i>Energy Conversion and Management</i> , 2018, 165, 528-540.	4.4	32
11	Comparison of advanced non-parametric models for wind turbine power curves. <i>IET Renewable Power Generation</i> , 2019, 13, 1503-1510.	1.7	32
12	State of the Art in the Optimisation of Wind Turbine Performance Using CFD. <i>Archives of Computational Methods in Engineering</i> , 2020, 27, 413-431.	6.0	32
13	Structural reliability assessment of offshore wind turbine support structures subjected to pitting corrosion-fatigue: A damage tolerance modelling approach. <i>Wind Energy</i> , 2020, 23, 2004-2026.	1.9	31
14	Conceptual energy and water recovery system for self-sustained nano membrane toilet. <i>Energy Conversion and Management</i> , 2016, 126, 352-361.	4.4	29
15	A Framework for the Selection of Optimum Offshore Wind Farm Locations for Deployment. <i>Energies</i> , 2018, 11, 1855.	1.6	27
16	Life-cycle assessment of self-generated electricity in Nigeria and Jatropha biodiesel as an alternative power fuel. <i>Renewable Energy</i> , 2017, 113, 966-979.	4.3	25
17	Conceptual environmental impact assessment of a novel self-sustained sanitation system incorporating a quantitative microbial risk assessment approach. <i>Science of the Total Environment</i> , 2018, 639, 657-672.	3.9	24
18	Data-driven weather forecasting models performance comparison for improving offshore wind turbine availability and maintenance. <i>IET Renewable Power Generation</i> , 2020, 14, 2386-2394.	1.7	24

#	ARTICLE	IF	CITATIONS
19	A Systematic Review of Structural Reliability Methods for Deformation and Fatigue Analysis of Offshore Jacket Structures. <i>Metals</i> , 2021, 11, 50.	1.0	24
20	Faecal-wood biomass co-combustion and ash composition analysis. <i>Fuel</i> , 2017, 203, 781-791.	3.4	23
21	Comparative Study of Structural Reliability Assessment Methods for Offshore Wind Turbine Jacket Support Structures. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 860.	1.3	22
22	Condition monitoring systems: a systematic literature review on machine-learning methods improving offshore-wind turbine operational management. <i>International Journal of Sustainable Energy</i> , 2021, 40, 923-946.	1.3	19
23	Drying characteristics of faecal sludge from different on-site sanitation facilities. <i>Journal of Environmental Management</i> , 2020, 261, 110267.	3.8	18
24	Non-isothermal thermogravimetric kinetic analysis of the thermochemical conversion of human faeces. <i>Renewable Energy</i> , 2019, 132, 1177-1184.	4.3	17
25	Development and Verification of an Aero-Hydro-Servo-Elastic Coupled Model of Dynamics for FOWT, Based on the MoWiT Library. <i>Energies</i> , 2020, 13, 1974.	1.6	17
26	A PESTLE Policy Mapping and Stakeholder Analysis of Indonesia's Fossil Fuel Energy Industry. <i>Energies</i> , 2018, 11, 1272.	1.6	16
27	Pyrolysis characteristics and kinetics of human faeces, simulant faeces and wood biomass by thermogravimetry-gas chromatography-mass spectrometry methods. <i>Energy Reports</i> , 2020, 6, 3230-3239.	2.5	15
28	Design and commissioning of a multi-mode prototype for thermochemical conversion of human faeces. <i>Energy Conversion and Management</i> , 2018, 163, 507-524.	4.4	14
29	Development of a Framework for Wind Turbine Design and Optimization. <i>Modelling</i> , 2021, 2, 105-128.	0.8	14
30	Optimisation of a Quasi-Steady Model of a Free-Piston Stirling Engine. <i>Energies</i> , 2019, 12, 72.	1.6	13
31	Probabilistic performance assessment of complex energy process systems – The case of a self-sustained sanitation system. <i>Energy Conversion and Management</i> , 2018, 163, 74-85.	4.4	12
32	Prospects of deployment of Jatropha biodiesel-fired plants in Nigeria's power sector. <i>Energy</i> , 2017, 135, 726-739.	4.5	11
33	The mechanism of transmethylation in anisole decomposition over Brønsted acid sites: density functional theory (DFT) study. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1788-1794.	2.5	9
34	Multicriteria risk assessment framework for components' risk ranking: Case study of a complex oil and gas support structure. <i>Journal of Multi-Criteria Decision Analysis</i> , 2018, 25, 113-129.	1.0	9
35	A Review of Job Role Localization in the Oil and Gas Industry. <i>Energies</i> , 2018, 11, 2779.	1.6	7
36	Preliminary Evaluation of the Influence of Surface and Tooth Root Damage on the Stress and Strain State of a Planetary Gearbox: An Innovative Hybrid Numerical-Analytical Approach for Further Development of Structural Health Monitoring Models. <i>Computation</i> , 2021, 9, 38.	1.0	7

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37	Modelling of microbial fuel degradation in liquid fuels for a gas turbine engine application. <i>International Biodeterioration and Biodegradation</i> , 2016, 109, 191-201.	1.9	5
38	Non-isothermal drying kinetics of human feces. <i>Drying Technology</i> , 2020, 38, 1819-1827.	1.7	5
39	Feasibility for Damage Identification in Offshore Wind Jacket Structures through Monitoring of Global Structural Dynamics. <i>Energies</i> , 2020, 13, 5791.	1.6	5
40	Energy Efficiency and Environmental Life Cycle Assessment of Jatropha for Energy in Nigeria: A "Well-to-Wheel" Perspective. , 2015, , .		4
41	A cross-sectoral review of the current and potential maintenance strategies for composite structures. <i>SN Applied Sciences</i> , 2022, 4, .	1.5	4
42	Isothermal drying characteristics and kinetics of human faecal sludges. <i>Gates Open Research</i> , 2020, 4, 67.	2.0	3
43	The Development of a Model for the Assessment of Biofouling in Gas Turbine System. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014, 136, .	0.5	2
44	Quantitative and Qualitative Assessment of Job Role Localization in the Oil and Gas Industry: Global Experiences and National Differences. <i>Energies</i> , 2019, 12, 1154.	1.6	2
45	The Development of a Model for the Assessment of Bio-Fouling in Gas Turbine System. , 2013, , .		1
46	Isothermal drying characteristics and kinetics of human faecal sludges. <i>Gates Open Research</i> , 2020, 4, 67.	2.0	1
47	Structural optimisation framework for onshore wind turbine towers considering multiple design constraints. <i>International Journal of Sustainable Energy</i> , 0, , 1-23.	1.3	1
48	Planning and communicating prototype tests for the Nano Membrane Toilet: A critical review and proposed strategy. <i>Gates Open Research</i> , 0, 3, 1532.	2.0	1
49	Application of Bio-fAEG: A Biofouling Assessment Model in Gas Turbines and the Effect of Degraded Fuels on Engine Performance Simulations. , 2015, , .		0
50	Planning and communicating prototype tests for the Nano Membrane Toilet: A critical review and proposed visual tool. <i>Gates Open Research</i> , 2019, 3, 1532.	2.0	0
51	A Damage Detection and Location Scheme for Offshore Wind Turbine Jacket Structures Based On Global Modal Properties. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2022, , .	0.7	0