Carol N Eastwick

List of Publications by Year
in descending order

57	1,236	331670	395702
papers	citations	21 h-index	33 g-index

57	57	57	1374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biomass as an energy source in coal co-firing and its feasibility enhancement via pre-treatment techniques. Fuel Processing Technology, 2017, 159, 287-305.	7.2	111
2	Development of Aircraft Electric Starterâ€“Generator System Based on Active Rectification Technology. IEEE Transactions on Transportation Electrification, 2018, 4, 985-996.	7.8	85
3	Normal droplet impact on horizontal moving films: an investigation of impact behaviour and regimes. Experiments in Fluids, 2011, 50, 1305-1316.	2.4	57
4	Influence of mill type on densified biomass comminution. Applied Energy, 2016, 182, 219-231.	10.1	55
5	Computational Fluid Dynamic Modeling of Gas Flow Characteristics in a High-Velocity Oxy-Fuel Thermal Spray System. Journal of Thermal Spray Technology, 2001, 10, 461-469.	3.1	52
6	Modelling windage power loss from an enclosed spur gear. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2007, 221, 331-341.	1.4	52
7	Investigation into the applicability of Bond Work Index (BWI) and Hardgrove Grindability Index (HGI) tests for several biomasses compared to Colombian La Loma coal. Fuel, 2015, 158, 379-387.	6.4	51
8	4-MW Class High-Power-Density Generator for Future Hybrid-Electric Aircraft. IEEE Transactions on Transportation Electrification, 2021, 7, 2952-2964.	7.8	49
9	Mechanical degradation of biomass wood pellets during long term stockpile storage. Fuel Processing Technology, 2017, 160, 143-151.	7.2	48
10	Noise levels and noise perception from small and micro wind turbines. Renewable Energy, 2013, 55, 120-127.	8.9	47
11	Gear Windage: A Review. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	44
12	Changes in mechanical properties of wood pellets during artificial degradation in a laboratory environment. Fuel Processing Technology, 2016, 148, 395-402.	7.2	44
13	Applicability of Mechanical Tests for Biomass Pellet Characterisation for Bioenergy Applications. Materials, 2018, 11, 1329.	2.9	44
14	Studies on combustion behaviours of single biomass particles using a visualization method. Biomass and Bioenergy, 2018, 109, 54-60.	5.7	33
15	The influence of negative oriented personality traits on the effects of wind turbine noise. Personality and Individual Differences, 2013, 54, 338-343.	2.9	31
16	Numerical study on a two-stage Metal Hydride Hydrogen Compression system. Journal of Alloys and Compounds, 2015, 645, S18-S22.	5.5	31
17	Characterising pulverised fuel ignition in a visual drop tube furnace by use of a high-speed imaging technique. Fuel Processing Technology, 2017, 157, 1-11.	7.2	30
18	Combustion behavior profiling of single pulverized coal particles in a drop tube furnace through high-speed imaging and image analysis. Experimental Thermal and Fluid Science, 2017, 85, 322-330.	2.7	27

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19	Numerical Modeling of In-Flight Characteristics of Inconel 625 Particles During High-Velocity Oxy-Fuel Thermal Spraying. Journal of Thermal Spray Technology, 2004, 13, 200-213.	3.1	24
20	Computational fluid dynamics modelling of an entire synchronous generator for improved thermal management. IET Electric Power Applications, 2013, 7, 231-236.	1.8	24
21	Overcoming the caking phenomenon in olive mill wastes. Industrial Crops and Products, 2017, 101, 92-102.	5.2	24
22	Thermal management of a high speed permanent magnet machine for an aeroengine. , 2016, , .		23
23	Benefits of dry comminution of biomass pellets in a knife mill. Biosystems Engineering, 2017, 160, 42-54.	4.3	23
24	Thermochemical and structural changes in Jatropha curcas seed cake during torrefaction for its use as coal co-firing feedstock. Energy, 2016, 100, 262-272.	8.8	17
25	Research and Realization of High-Power Medium-Voltage Active Rectifier Concepts for Future Hybrid-Electric Aircraft Generation. IEEE Transactions on Industrial Electronics, 2021, 68, 11684-11695.	7.9	16
26	Thermal and Electromagnetic Stator Vent Design Optimisation for Synchronous Generators. IEEE Transactions on Energy Conversion, 2021, 36, 207-217.	5.2	16
27	Comparisons of two commercial computational fluid dynamics codes in modelling pulverised coal combustion for a 2.5 MW burner. Applied Mathematical Modelling, 1999, 23, 437-446.	4.2	15
28	Computational fluid dynamics applied to a cement precalciner. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2000, 214, 269-280.	1.4	14
29	Mechanical and thermal design of an aeroengine starter/generator. , 2015, , .		14
30	Computational Investigations Into Draining in an Axisymmetric Vessel. Journal of Fluids Engineering, Transactions of the ASME, 2010, 132, .	1.5	13
31	CFD optimisation of the thermal design for a vented electrical machine. , 2017, , .		12
32	Fluid flow and heat transfer analysis of TEFC machine end regions using more realistic endâ€winding geometry. Journal of Engineering, 2019, 2019, 3831-3835.	1.1	12
33	Study of aero-engine oil-air separators. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2006, 220, 707-717.	1.4	11
34	The Application of CFD to Model Windage Power Loss From a Spiral Bevel Gear. , 2007, , 47.		11
35	Leaching as a Pretreatment Process to Complement Torrefaction in Improving Co-firing Characteristics of Jatropha curcas Seed Cake. Waste and Biomass Valorization, 2016, 7, 559-569.	3.4	11
36	DROPLET IMPACT ON SHEAR-DRIVEN LIQUID FILMS. Atomization and Sprays, 2011, 21, 833-846.	0.8	10

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37	Effect of a varying effective thermal conductivity term on heat conduction through a physical model of a hydride bed. International Journal of Hydrogen Energy, 2013, 38, 1692-1701.	7.1	8
38	Degradation of biomass fuels during artificial storage in a laboratory environment. International Journal of Low-Carbon Technologies, 2012, 7, 113-119.	2.6	6
39	Stator and rotor vent modelling in a MVA rated synchronous machine. , 2016, , .		6
40	Investigating the effect of pressure on a vertical twoâ€phase upward flow with a high viscosity liquid. AICHE Journal, 2020, 66, e16860.	3.6	6
41	Measurement of coal particle combustion behaviors in a drop tube furnace through high-speed imaging and image processing. , 2016, , .		4
42	Effect of Variations in Shroud Geometry on Single Phase Flow Over a Shrouded Single Spiral Gear. , 2008, , .		4
43	Computational Investigation of Torque on Coaxial Rotating Cones. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	3
44	Parametric Modelling of a Spiral Bevel Gear Using CFD. , 2010, , .		3
45	An investigation into the use of CFD to model the co-firing ofJatropha curcasseed cake with coal. International Journal of Green Energy, 2018, 15, 605-621.	3.8	3
46	CFD Modelling of Gear Windage Losses: Two Phase Modelling Using Particle Injections. , 2010, , .		2
47	Further Computational Investigations Into Aero-Engine Bearing Chamber Off-Take Flows. , 2010, , .		2
48	Numerical investigations of convective phenomena of oil impingement on endâ€windings. Journal of Engineering, 2019, 2019, 4022-4026.	1.1	2
49	Using CFD to Improve Aero-Engine Air/Oil Separator Design. , 2002, , 215.		1
50	The Effect of Obstacles in a Liquid Film. , 2006, , 1443.		1
51	Computational Investigations Into Aero-Engine Bearing Chamber Off-Take Flows. , 2008, , .		1
52	Effect of powder characteristics for a magnesium based metal hydride store. International Journal of Hydrogen Energy, 2014, 39, 19646-19655.	7.1	1
53	Air-Cooling of a Hollow High-Speed Permanent Magnet Rotor. , 2019, , .		1
54	CFD and experimental investigation into a nonâ€intrusive method for measuring cooling air mass flow rate through a synchronous generator. Journal of Engineering, 2019, 2019, 4432-4435.	1.1	1

#	Article	IF	Citations
55	Experimental Investigations of Film Flows Around Obstacles. , 2008, , .		0
56	Experimental Investigation Into the Behaviour Within Flush Offtake Pipes. , 2008, , .		0
57	Film Flow Around Bearing Chamber Support Structures. , 2005, , .		0