

# Lasse Rosendahl

## List of Publications by Year in descending order

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278  
papers

16,414  
citations

13099

68  
h-index

19749

117  
g-index

283  
all docs

283  
docs citations

283  
times ranked

9002  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal liquefaction of biomass: A review of subcritical water technologies. <i>Energy</i> , 2011, 36, 2328-2342.	8.8	1,409
2	Grate-firing of biomass for heat and power production. <i>Progress in Energy and Combustion Science</i> , 2008, 34, 725-754.	31.2	402
3	Measurement of thermal conductivity of ZnO-TiO <sub>2</sub> /EG hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 527-535.	3.6	312
4	Effects of temperature and nanoparticles concentration on rheological behavior of Fe <sub>3</sub> O <sub>4</sub> -Ag/EG hybrid nanofluid: An experimental study. <i>Experimental Thermal and Fluid Science</i> , 2016, 77, 38-44.	2.7	309
5	An experimental study on thermal conductivity of F-MWCNTs-Fe <sub>3</sub> O <sub>4</sub> /EG hybrid nanofluid: Effects of temperature and concentration. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 171-177.	5.6	300
6	Hydrothermal liquefaction of barley straw to bio-crude oil: Effects of reaction temperature and aqueous phase recirculation. <i>Applied Energy</i> , 2015, 137, 183-192.	10.1	298
7	Experimental study on thermal conductivity of ethylene glycol containing hybrid nano-additives and development of a new correlation. <i>Applied Thermal Engineering</i> , 2017, 110, 1111-1119.	6.0	290
8	Effects of temperature and solid volume fraction on viscosity of SiO <sub>2</sub> -MWCNTs/SAE40 hybrid nanofluid as a coolant and lubricant in heat engines. <i>Applied Thermal Engineering</i> , 2016, 102, 45-54.	6.0	269
9	Heat transfer efficiency of Al <sub>2</sub> O <sub>3</sub> -MWCNT/thermal oil hybrid nanofluid as a cooling fluid in thermal and energy management applications: An experimental and theoretical investigation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 474-486.	4.8	263
10	Experimental study on thermal conductivity of water-based Fe <sub>3</sub> O <sub>4</sub> nanofluid: Development of a new correlation and modeled by artificial neural network. <i>International Communications in Heat and Mass Transfer</i> , 2016, 75, 262-269.	5.6	241
11	Evaluation of thermal conductivity of MgO-MWCNTs/EG hybrid nanofluids based on experimental data by selecting optimal artificial neural networks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 85, 90-96.	2.7	210
12	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO <sub>2</sub> (20-80)-SAE40 hybrid nano-lubricant. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 133-138.	5.6	203
13	New Weighted Sum of Gray Gases Model Applicable to Computational Fluid Dynamics (CFD) Modeling of Oxy-Fuel Combustion: Derivation, Validation, and Implementation. <i>Energy &amp; Fuels</i> , 2010, 24, 6275-6282.	5.1	202
14	Hydrothermal liquefaction of <i>Spirulina</i> and <i>Nannochloropsis salina</i> under subcritical and supercritical water conditions. <i>Bioresource Technology</i> , 2013, 131, 413-419.	9.6	200
15	Continuous Hydrothermal Liquefaction of Biomass: A Critical Review. <i>Energies</i> , 2018, 11, 3165.	3.1	195
16	Effect of sonication characteristics on stability, thermophysical properties, and heat transfer of nanofluids: A comprehensive review. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104701.	8.2	188
17	An experimental study on rheological behavior of non-Newtonian hybrid nano-coolant for application in cooling and heating systems. <i>Experimental Thermal and Fluid Science</i> , 2016, 76, 221-227.	2.7	187
18	Thermal conductivity enhancement of COOH-functionalized MWCNTs/ethylene glycol-water nanofluid for application in heating and cooling systems. <i>Applied Thermal Engineering</i> , 2016, 105, 716-723.	6.0	176

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19	Effect of suspending hybrid nano-additives on rheological behavior of engine oil and pumping power. Applied Thermal Engineering, 2016, 109, 524-534.	6.0	176
20	Experimental determination of viscosity of water based magnetite nanofluid for application in heating and cooling systems. Journal of Magnetism and Magnetic Materials, 2016, 417, 243-248.	2.3	172
21	A three-dimensional numerical model of thermoelectric generators in fluid power systems. International Journal of Heat and Mass Transfer, 2011, 54, 345-355.	4.8	171
22	Continuous hydrothermal co-liquefaction of aspen wood and glycerol with water phase recirculation. Applied Energy, 2016, 162, 1034-1041.	10.1	164
23	An experimental study on stability and thermal conductivity of water/silica nanofluid: Eco-friendly production of nanoparticles. Journal of Cleaner Production, 2019, 206, 1089-1100.	9.3	164
24	Prediction of dynamic viscosity of a hybrid nano-lubricant by an optimal artificial neural network. International Communications in Heat and Mass Transfer, 2016, 76, 209-214.	5.6	163
25	Influence of alkali catalyst on product yield and properties via hydrothermal liquefaction of barley straw. Energy, 2015, 80, 284-292.	8.8	160
26	Study on thermal conductivity of water-based nanofluids with hybrid suspensions of CNTs/Al <sub>2</sub> O <sub>3</sub> nanoparticles. Journal of Thermal Analysis and Calorimetry, 2016, 124, 455-460.	3.6	153
27	Effects of temperature and concentration on the viscosity of nanofluids made of single-wall carbon nanotubes in ethylene glycol. International Communications in Heat and Mass Transfer, 2016, 74, 108-113.	5.6	149
28	Experimental evaluation of dynamic viscosity of ZnO-MWCNTs/engine oil hybrid nanolubricant based on changes in temperature and concentration. Journal of Thermal Analysis and Calorimetry, 2019, 136, 513-525.	3.6	143
29	Evaluating the effect of temperature and concentration on the thermal conductivity of ZnO-TiO <sub>2</sub> /EG hybrid nanofluid using artificial neural network and curve fitting on experimental data. Physica A: Statistical Mechanics and Its Applications, 2019, 519, 209-216.	2.6	143
30	Feasibility and parametric evaluation of hybrid concentrated photovoltaic-thermoelectric system. Applied Energy, 2017, 187, 380-389.	10.1	140
31	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. International Communications in Heat and Mass Transfer, 2016, 76, 202-208.	5.6	135
32	Designing an Artificial Neural Network (ANN) to predict the viscosity of Silver/Ethylene glycol nanofluid at different temperatures and volume fraction of nanoparticles. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122142.	2.6	134
33	Mathematical Modeling and Experimental Study of Biomass Combustion in a Thermal 108 MW Grate-Fired Boiler. Energy & Fuels, 2008, 22, 1380-1390.	5.1	130
34	On the motion of non-spherical particles at high Reynolds number. Powder Technology, 2010, 202, 1-13.	4.2	130
35	Investigation of free convection heat transfer and entropy generation of nanofluid flow inside a cavity affected by magnetic field and thermal radiation. Journal of Thermal Analysis and Calorimetry, 2019, 137, 997-1019.	3.6	128
36	Numerical Modeling of Thermoelectric Generators With Varying Material Properties in a Circuit Simulator. IEEE Transactions on Energy Conversion, 2009, 24, 112-124.	5.2	127

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37	Modelling the motion of cylindrical particles in a nonuniform flow. <i>Chemical Engineering Science</i> , 2003, 58, 3489-3498.	3.8	126
38	First approach on nanofluid-based solar still in high altitude for water desalination and solar water disinfection (SODIS). <i>Desalination</i> , 2020, 491, 114592.	8.2	126
39	Evaluation of thermal conductivity of COOH-functionalized MWCNTs/water via temperature and solid volume fraction by using experimental data and ANN methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 1273-1278.	3.6	124
40	Catalytic upgrading of hydrothermal liquefaction biocrudes: Different challenges for different feedstocks. <i>Renewable Energy</i> , 2019, 141, 420-430.	8.9	123
41	An experimental study on thermal conductivity of MgO nanoparticles suspended in a binary mixture of water and ethylene glycol. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 173-175.	5.6	121
42	Applications of feedforward multilayer perceptron artificial neural networks and empirical correlation for prediction of thermal conductivity of Mg(OH) <sub>2</sub> EG using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 46-50.	5.6	120
43	An experimental and theoretical investigation on heat transfer capability of Mg (OH) <sub>2</sub> /MWCNT-engine oil hybrid nano-lubricant adopted as a coolant and lubricant fluid. <i>Applied Thermal Engineering</i> , 2018, 129, 577-586.	6.0	120
44	Assessment of thermal conductivity enhancement of nano-antifreeze containing single-walled carbon nanotubes: Optimal artificial neural network and curve-fitting. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 138-145.	2.6	113
45	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015, 65, 47-51.	5.6	111
46	Chemistry and radiation in oxy-fuel combustion: A computational fluid dynamics modeling study. <i>Fuel</i> , 2011, 90, 2519-2529.	6.4	106
47	A survey on experimental and numerical studies of convection heat transfer of nanofluids inside closed conduits. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667356.	1.6	101
48	Modeling and prediction of rheological behavior of Al <sub>2</sub> O <sub>3</sub> nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 155, 103-110.	2.6	101
49	Viscosity and rheological properties of antifreeze based nanofluid containing hybrid nano-powders of MWCNTs and TiO <sub>2</sub> under different temperature conditions. <i>Powder Technology</i> , 2019, 342, 808-816.	4.2	101
50	Predicting the effects of magnesium oxide nanoparticles and temperature on the thermal conductivity of water using artificial neural network and experimental data. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 242-247.	2.7	100
51	Energy efficiency analysis and impact evaluation of the application of thermoelectric power cycle to today's CHP systems. <i>Applied Energy</i> , 2010, 87, 1231-1238.	10.1	99
52	Behavior of hybrid concentrated photovoltaic-thermoelectric generator under variable solar radiation. <i>Energy Conversion and Management</i> , 2018, 164, 443-452.	9.2	97
53	Use of numerical modeling in design for co-firing biomass in wall-fired burners. <i>Chemical Engineering Science</i> , 2004, 59, 3281-3292.	3.8	92
54	Prediction of rheological behavior of SiO <sub>2</sub> -MWCNTs/10W40 hybrid nanolubricant by designing neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2741-2748.	3.6	91

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55	Effect of magnetic field on mixed convection and entropy generation of hybrid nanofluid in an inclined enclosure: Sensitivity analysis and optimization. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	91
56	Effect of Magnetic Field on Free Convection in Inclined Cylindrical Annulus Containing Molten Potassium. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550052.	2.2	90
57	Rheological characteristics of MgO/oil nanolubricants: Experimental study and neural network modeling. <i>International Communications in Heat and Mass Transfer</i> , 2017, 86, 245-252.	5.6	89
58	The effects of tape insert material on the flow and heat transfer in a nanofluid-based double tube heat exchanger: Two-phase mixture model. <i>International Journal of Mechanical Sciences</i> , 2019, 156, 397-409.	6.7	87
59	Magneto-natural convection in square cavities with a source-sink pair on different walls. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2015, 47, 21-32.	0.6	86
60	Using a multi-parameter particle shape description to predict the motion of non-spherical particle shapes in swirling flow. <i>Applied Mathematical Modelling</i> , 2000, 24, 11-25.	4.2	79
61	Production of fuel range oxygenates by supercritical hydrothermal liquefaction of lignocellulosic model systems. <i>Biomass and Bioenergy</i> , 2015, 83, 206-215.	5.7	79
62	Co-firing straw with coal in a swirl-stabilized dual-feed burner: Modelling and experimental validation. <i>Bioresource Technology</i> , 2010, 101, 4169-4178.	9.6	78
63	Further study of the gas temperature deviation in large-scale tangentially coal-fired boilers. <i>Fuel</i> , 2003, 82, 1127-1137.	6.4	77
64	Waste Heat Recovery from a Marine Waste Incinerator Using a Thermoelectric Generator. <i>Journal of Electronic Materials</i> , 2012, 41, 1024-1029.	2.2	77
65	Experimental and numerical study on the transient behavior of multi-junction solar cell-thermoelectric generator hybrid system. <i>Energy Conversion and Management</i> , 2019, 184, 448-455.	9.2	76
66	Valorization of animal and human wastes through hydrothermal liquefaction for biocrude production and simultaneous recovery of nutrients. <i>Energy Conversion and Management</i> , 2020, 216, 112925.	9.2	75
67	Parametric optimization of thermoelectric elements footprint for maximum power generation. <i>Journal of Power Sources</i> , 2014, 255, 151-156.	7.8	73
68	Hybrid energy harvesting system to maximize power generation from solar energy. <i>Energy Conversion and Management</i> , 2020, 205, 112352.	9.2	71
69	Full characterization of compounds obtained from fractional distillation and upgrading of a HTL biocrude. <i>Applied Energy</i> , 2017, 202, 408-419.	10.1	70
70	Co-processing potential of HTL bio-crude at petroleum refineries – Part 1: Fractional distillation and characterization. <i>Fuel</i> , 2016, 165, 526-535.	6.4	69
71	Hydrothermal liquefaction of high ash containing sewage sludge at sub and supercritical conditions. <i>Biomass and Bioenergy</i> , 2020, 135, 105504.	5.7	69
72	Towards a CFD-based mechanistic deposit formation model for straw-fired boilers. <i>Fuel</i> , 2006, 85, 833-848.	6.4	68

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73	Protection and thermal management of thermoelectric generator system using phase change materials: An experimental investigation. <i>Energy</i> , 2018, 156, 311-318.	8.8	66
74	Investigation of a computer CPU heat sink under laminar forced convection using a structural stability method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 1218-1226.	4.8	66
75	Incorporating novel heat recovery units into an AHU for energy demand reduction-exergy analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2821-2830.	3.6	66
76	Methods to improve prediction performance of ANN models. <i>Simulation Modelling Practice and Theory</i> , 2003, 11, 211-222.	3.8	63
77	Co-processing potential of HTL bio-crude at petroleum refineries. Part 2: A parametric hydrotreating study. <i>Fuel</i> , 2016, 165, 536-543.	6.4	63
78	Coupled thermal model of photovoltaic-thermoelectric hybrid panel for sample cities in Europe. <i>Renewable Energy</i> , 2016, 99, 127-135.	8.9	62
79	Using artificial neural network for investigating of concurrent effects of multi-walled carbon nanotubes and alumina nanoparticles on the viscosity of 10W-40 engine oil. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 510, 610-624.	2.6	61
80	On evaluation of thermophysical properties of transformer oil-based nanofluids: A comprehensive modeling and experimental study. <i>Journal of Molecular Liquids</i> , 2020, 300, 112249.	4.9	61
81	Experimental and numerical investigation of hybrid concentrated photovoltaic – Thermoelectric module under low solar concentration. <i>Energy</i> , 2018, 159, 1123-1131.	8.8	60
82	Experimental study on rheological behavior of water–ethylene glycol mixture in the presence of functionalized multi-walled carbon nanotubes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1177-1185.	3.6	59
83	Optimizing the conditions for hydrothermal liquefaction of barley straw for bio-crude oil production using response surface methodology. <i>Science of the Total Environment</i> , 2018, 630, 560-569.	8.0	58
84	Evaluating the effects of different parameters on rheological behavior of nanofluids: A comprehensive review. <i>Powder Technology</i> , 2018, 338, 342-353.	4.2	58
85	Experimental investigation of thermoelectric power generation versus coolant pumping power in a microchannel heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 1054-1058.	5.6	57
86	Power optimization and economic evaluation of thermoelectric waste heat recovery system around a rotary cement kiln. <i>Journal of Cleaner Production</i> , 2019, 232, 1321-1334.	9.3	57
87	Impact of oscillating magnetic field on the thermal-conductivity of water-Fe <sub>3</sub> O <sub>4</sub> and water-Fe <sub>3</sub> O <sub>4</sub> /CNT ferro-fluids: Experimental study. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 484, 258-265.	2.3	56
88	Pulverized straw combustion in a low-NO <sub>x</sub> multifuel burner: Modeling the transition from coal to straw. <i>Fuel</i> , 2010, 89, 3051-3062.	6.4	55
89	Characteristics and parametric analysis of a novel flexible ink-based thermoelectric generator for human body sensor. <i>Energy Conversion and Management</i> , 2018, 156, 655-665.	9.2	55
90	Renewable hydrocarbon fuels from hydrothermal liquefaction: A techno-economic analysis. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 213-223.	3.7	54

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91	A novel method for autonomous remote condition monitoring of rotating machines using piezoelectric energy harvesting approach. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 37-50.	4.1	53
92	Conceptual design of an integrated hydrothermal liquefaction and biogas plant for sustainable bioenergy production. <i>Bioresource Technology</i> , 2013, 129, 402-410.	9.6	52
93	Analysis of product distribution and characteristics in hydrothermal liquefaction of barley straw in subcritical and supercritical water. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 737-743.	2.3	52
94	Bio-Crude Production through Aqueous Phase Recycling of Hydrothermal Liquefaction of Sewage Sludge. <i>Energies</i> , 2020, 13, 493.	3.1	52
95	Effect of horizontal and vertical elliptic baffles inside an enclosure on the mixed convection of a MWCNTs-water nanofluid and its entropy generation. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	50
96	Effect of magnetic field on laminar forced convective heat transfer of MWCNTs-Fe <sub>3</sub> O <sub>4</sub> /water hybrid nanofluid in a heated tube. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1809-1825.	3.6	50
97	Heat transfer enhancement in a counter-flow sinusoidal parallel-plate heat exchanger partially filled with porous media using metal foam in the channels' divergent sections. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1669-1685.	3.6	50
98	Co-optimized design of microchannel heat exchangers and thermoelectric generators. <i>International Journal of Thermal Sciences</i> , 2013, 72, 73-81.	4.9	48
99	Experimental Investigation on a Thermal Model for a Basin Solar Still with an External Reflector. <i>Energies</i> , 2017, 10, 18.	3.1	48
100	Two-stage catalytic hydrotreatment of highly nitrogenous biocrude from continuous hydrothermal liquefaction: A rational design of the stabilization stage. <i>Biomass and Bioenergy</i> , 2020, 139, 105658.	5.7	48
101	System Modeling and Validation of a Thermoelectric Fluidic Power Source: Proton Exchange Membrane Fuel Cell and Thermoelectric Generator (PEMFC-TEG). <i>Journal of Electronic Materials</i> , 2010, 39, 1593-1600.	2.2	47
102	Synergetic hydrothermal co-liquefaction of crude glycerol and aspen wood. <i>Energy Conversion and Management</i> , 2015, 106, 886-891.	9.2	47
103	Biocrude production via supercritical hydrothermal co-liquefaction of spent mushroom compost and aspen wood sawdust. <i>Renewable Energy</i> , 2017, 111, 392-398.	8.9	47
104	A review on fuel cell types and the application of nanofluid in their cooling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1633-1654.	3.6	47
105	Turbulence modulation in dilute particle-laden flow. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 331-338.	2.4	46
106	Thermal effect of a thermoelectric generator on parallel microchannel heat sink. <i>Energy</i> , 2012, 37, 220-227.	8.8	46
107	Characterizing and modeling of an 88MW grate-fired boiler burning wheat straw: Experience and lessons. <i>Energy</i> , 2012, 41, 473-482.	8.8	46
108	Continuous production of bio-oil by catalytic liquefaction from wet distiller's grain with solubles (WDGS) from bio-ethanol production. <i>Biomass and Bioenergy</i> , 2012, 36, 327-332.	5.7	46

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109	Effects of temperature and volume concentration on thermal conductivity of $\text{TiO}_2$ /EG-water hybrid nano-fluid. Powder Technology, 2020, 362, 578-585.	4.2	46
110	Catalytic Hydrotreatment of Microalgae Biocrude from Continuous Hydrothermal Liquefaction: Heteroatom Removal and Their Distribution in Distillation Cuts. Energies, 2018, 11, 3360.	3.1	45
111	Investigation of the entropy generation during natural convection of Newtonian and non-Newtonian fluids inside the L-shaped cavity subjected to magnetic field: application of lattice Boltzmann method. European Physical Journal Plus, 2020, 135, 1.	2.6	45
112	Two-stage alkaline hydrothermal liquefaction of wood to biocrude in a continuous bench-scale system. Biomass Conversion and Biorefinery, 2017, 7, 425-435.	4.6	43
113	Numerical simulation of blood flow inside an artery under applying constant heat flux using Newtonian and non-Newtonian approaches for biomedical engineering. Computer Methods and Programs in Biomedicine, 2020, 190, 105375.	4.7	43
114	A comparison of micro-structured flat-plate and cross-cut heat sinks for thermoelectric generation application. Energy Conversion and Management, 2015, 101, 730-737.	9.2	42
115	A broadband macro-fiber-composite piezoelectric energy harvester for higher energy conversion from practical wideband vibrations. Nano Energy, 2020, 76, 104978.	16.0	42
116	Analysis and management of laminar blood flow inside a cerebral blood vessel using a finite volume software program for biomedical engineering. Computer Methods and Programs in Biomedicine, 2020, 190, 105384.	4.7	42
117	Perforated fins effect on the heat transfer rate from a circular tube by using wind tunnel: An experimental view. Heat and Mass Transfer, 2018, 54, 3047-3057.	2.1	41
118	Reducing AHU energy consumption by a new layout of using heat recovery units. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2811-2820.	3.6	41
119	Characteristics of batch rotor-stator mixer performance elucidated by shaft torque and angle resolved PIV measurements. Canadian Journal of Chemical Engineering, 2011, 89, 1076-1095.	1.7	40
120	Experimental and modeling study of flash calcination of kaolinite rich clay particles in a gas suspension calciner. Applied Clay Science, 2015, 103, 10-19.	5.2	40
121	Finite Volume Simulation of mixed convection in an inclined lid-driven cavity filled with nanofluids: Effects of a hot elliptical centric cylinder, cavity angle and volume fraction of nanoparticles. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121122.	2.6	40
122	Harvesting waste heat from cement kiln shell by thermoelectric system. Energy, 2019, 168, 358-369.	8.8	40
123	Numerical investigation of nanofluid laminar forced convection heat transfer between two horizontal concentric cylinders in the presence of porous medium. Journal of Thermal Analysis and Calorimetry, 2020, 141, 2095-2108.	3.6	40
124	Improving the thermal conductivity of paraffin by incorporating MWCNTs nanoparticles. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2809-2816.	3.6	40
125	How the dispersion of magnesium oxide nanoparticles effects on the viscosity of water-ethylene glycol mixture: Experimental evaluation and correlation development. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 273-280.	2.7	37
126	Optimization of a thermoelectric generator subsystem for high temperature PEM fuel cell exhaust heat recovery. International Journal of Hydrogen Energy, 2014, 39, 6637-6645.	7.1	36



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127	Flash calcination of kaolinite rich clay and impact of process conditions on the quality of the calcines: A way to reduce CO2 footprint from cement industry. <i>Applied Energy</i> , 2016, 162, 1218-1224.	10.1	36
128	An investigation on the influence of the shape of the vortex generator on fluid flow and turbulent heat transfer of hybrid nanofluid in a channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1425-1438.	3.6	36
129	Prediction of rheological behavior of MWCNTsâ€“SiO2/EGâ€“water non-Newtonian hybrid nanofluid by designing new correlations and optimal artificial neural networks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1029-1038.	3.6	35
130	Integration of Thermoelectric Generators and Wood Stove to Produce Heat, Hot Water, and Electrical Power. <i>Journal of Electronic Materials</i> , 2013, 42, 2127-2133.	2.2	33
131	Calcination of kaolinite clay particles for cement production: A modeling study. <i>Cement and Concrete Research</i> , 2014, 61-62, 11-19.	11.0	33
132	Application of Algae as Cosubstrate To Enhance the Processability of Willow Wood for Continuous Hydrothermal Liquefaction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 4562-4571.	3.7	33
133	On the role of enclosure side walls thickness and heater geometry in heat transfer enhancement of waterâ€“Al2O3 nanofluid in presence of a magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 679-696.	3.6	33
134	New Configurations of Micro Plate-Fin Heat Sink to Reduce Coolant Pumping Power. <i>Journal of Electronic Materials</i> , 2012, 41, 1298-1304.	2.2	32
135	Biocrude Production from Wheat Straw at Sub and Supercritical Hydrothermal Liquefaction. <i>Energies</i> , 2020, 13, 3114.	3.1	32
136	Irreversible transfer processes of thermoelectric generators. <i>American Journal of Physics</i> , 2007, 75, 815-820.	0.7	31
137	Impact of nitrogenous alkaline agent on continuous HTL of lignocellulosic biomass and biocrude upgrading. <i>Fuel Processing Technology</i> , 2017, 159, 376-385.	7.2	31
138	Biocrude production and nutrients recovery through hydrothermal liquefaction of wastewater irrigated willow. <i>Biomass and Bioenergy</i> , 2018, 118, 24-31.	5.7	31
139	Bio-crude production through co-hydrothermal processing of swine manure with sewage sludge to enhance pumpability. <i>Fuel</i> , 2021, 288, 119407.	6.4	30
140	The Role of Catalysts in Biomass Hydrothermal Liquefaction and Biocrude Upgrading. <i>Processes</i> , 2022, 10, 207.	2.8	30
141	Physical characterization of biomass fuels prepared for suspension firing in utility boilers for CFD modelling. <i>Biomass and Bioenergy</i> , 2007, 31, 318-325.	5.7	29
142	Experimental Study of a Thermoelectric Generation System. <i>Journal of Electronic Materials</i> , 2011, 40, 744-752.	2.2	29
143	Pretreatment methods to obtain pumpable high solid loading woodâ€“water slurries for continuous hydrothermal liquefaction systems. <i>Biomass and Bioenergy</i> , 2015, 81, 437-443.	5.7	29
144	Effect of a porous medium on flow and mixed convection heat transfer of nanofluids with variable properties in a trapezoidal enclosure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 741-754.	3.6	28

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145	Hydrothermal liquefaction of pre-treated municipal solid waste (biopulp) with recirculation of concentrated aqueous phase. <i>Biomass and Bioenergy</i> , 2021, 148, 106032.	5.7	28
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