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PUBLICATION DETAILS

Influence of thermal transport properties of NEPCM for cool thermal energy storage system

A Sathishkumar, M Cheralathan
Journal of Thermal Analysis and Calorimetry, 1-12

Experimental mitigation of NO_x emission in exhaust gases of CI engine fuelled with methyl ester of cottonseed oil blend

G Balaji, K Suresh Kumar, M Cheralathan
International Journal of Ambient Energy 41 (12), 1352-1356

An experimental study on energy and exergy performance of a spiral tube receiver for solar parabolic dish concentrator

V Thirunavukkarasu, M Cheralathan
Energy 192, 116635

Thermal performance enhancement of solar air collector using a novel V-groove absorber plate with pin-fins for drying agricultural products: an experimental study

P Sudhakar, M Cheralathan
Journal of Thermal Analysis and Calorimetry, 1-12

Enhancement of the thermal energy storage capacity of a parabolic dish concentrated solar receiver using phase change materials

R Senthil, M Cheralathan

Journal of Energy Storage 25, 100841

Effect of aspect ratio on thermal performance of cavity receiver for solar parabolic dish concentrator: An experimental study

T Venkatachalam, M Cheralathan

Renewable energy 139, 573-581

Encapsulated PCM based double pass solar air heater: A comparative experimental study

P Sudhakar, M Cheralathan

Chemical Engineering Communications, 1-13

Experimental study of effect of isobutanol in performance, combustion and emission characteristics of CI engine fuelled with cotton seed oil blended diesel

VM Raj, LRG Subramanian, G Manikandaraja

Alexandria engineering journal 57 (3), 1369-1378

Experimental study on heat losses from external type receiver of a solar parabolic dish collector

V Thirunavukkarasu, M Cheralathan

MS&E 402 (1), 012196

Analysis of solar flat plate collector with straight and helical flow path heat tube using mathematical modeling and java based simulation

C Prabhu, P Sudhakar, G Balaji, M Cheralathan

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Experimental study of a solar dryer with different flow patterns of air in the drying chamber

SM Shamiq, P Sudhakar, M Cheralathan

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Simultaneous testing of a parabolic dish concentrated PCM and non-PCM solar receiver

R Senthil, M Cheralathan

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Experimental investigation of varying the fuel injection pressure in a direct injection diesel engine fuelled with methyl ester of neem oil

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An experimental study on energy and exergy performance of a cavity receiver for solar parabolic dish concentrator

V Thirunavukkarasu, M Sornanathan, M Cheralathan

International Journal of Exergy 23 (2), 129-148

Influence of alumina oxide nanoparticles on the performance and emissions in a methyl ester of neem oil fuelled direct injection Diesel engine

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Thermal Science 21 (1 Part B), 499-510

Effect of the phase change material in a solar receiver on thermal performance of parabolic dish collector

R Senthil, M Cheralathan

Thermal Science 21 (6 Part B), 2803-2812

Effect of non-uniform temperature distribution on surface absorption receiver in parabolic dish solar concentrator

R Senthil, M Cheralathan

Thermal Science 21 (5), 2011-2019

Effect of once-through and recirculated fluid flow on thermal performance of parabolic dish solar receiver

R Senthil, M Cheralathan

Indian Journal of Science and Technology 9 (33), 1-5

The effect of antioxidant additives with methyl ester of neem oil on the oxidation stability

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Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 38 ...

Experimental investigation to reduce exhaust emissions in a single cylinder CI engine fuelled with methyl ester of neem oil using antioxidant (L-ascorbic acid)

G Balaji, M Cheralathan
Biofuels 7 (3), 305-312

Thermal performance of solid and liquid energy storage materials in a parabolic dish solar cooker

R Senthil, M Cheralathan
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Effect of container size on thermal performance of sugar alcohol (D-Mannitol) in concentrated solar receiver

R Senthil, M Cheralathan
International Journal of Chemical Sciences, 14 (4), 2349-2357

Enhancement of heat absorption rate of direct absorption solar collector using graphite nanofluid

R Senthil, M Cheralathan
International Journal of ChemTech Research 9 (9), 303-308

Natural heat transfer enhancement methods in phase change material based thermal energy storage

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Simultaneous Reduction of NO_x and HC Emissions in a CI Engine Fueled with Methyl Ester of Neem Oil Using Ethylenediamine as Antioxidant Additive

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Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 37 ...

Influence of the size of spherical capsule on solidification characteristics of DI (deionized water) water for a cool thermal energy storage system—An experimental study

P Chandrasekaran, M Cheralathan, R Velraj

Energy 90, 807-813

Effect of fill volume on solidification characteristics of DI (deionized) water in a spherical capsule—An experimental study

P Chandrasekaran, M Cheralathan, R Velraj

Energy 90, 508-515

Experimental investigation of antioxidant effect on oxidation stability and emissions in a methyl ester of neem oil fueled DI diesel engine

G Balaji, M Cheralathan

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Thermal performance of solar parabolic dish concentrator with hetero-conical cavity receiver

V Thirunavukkarasu, M Cheralathan

Applied Mechanics and Materials 787, 197-201

Effect of CNT as additive with biodiesel on the performance and emission characteristics of a DI diesel engine

G Balaji, M Cheralathan

International Journal of ChemTech Research 7 (3), 1230-1236