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Area of Interest:

Solar desalination, waste heat recovery, nano particles, sensible heat storage, Latent heat energy storage

TITLE

Wall-suspended trays inside stepped distiller with Al_2O_3 /paraffin wax mixture and vapor suction: Experimental implementation

FA Essa, ZM Omara, AS Abdullah, S Shanmugan, H Panchal, AE Kabeel, ...
Journal of Energy Storage 32, 102008

Extraction of drinking water from modified inclined solar still incorporated with spiral tube solar water heater

Y Taamneh, AM Manokar, MM Thalib, AE Kabeel, R Sathyamurthy, ...
Journal of Water Process Engineering 38, 101613

Process Optimization and Characterization of Manila Tamarind Seed Oil Extracted by the Soxhlet Method

SC Sekhar, K Karuppasamy, N Vedaraman, R Sathyamurthy, ...
International Journal of Energy for a Clean Environment

Experimental investigation on performance, combustion and emission characteristics of DI diesel engine using algae as a biodiesel

M Subramaniam, JM Solomon, V Nadanakumar, S Anaimuthu, ...
Energy Reports 6, 1382-1392

Deburring 3-cylinder IC engine crankshaft oil passage

SS Balaji, G Aravind, MD Williams, E Magesh, R Sathyamurthy, ...
AIP Conference Proceedings 2281 (1), 020015

Influence of regular inserts and aluminium oxide nanoparticles on micro finned tube over heat transfer and hydraulic performance under laminar flow

M Devarajan, M Balasubramanian, B Ramani, R Sathyamurthy
AIP Conference Proceedings 2281 (1), 020017

Sustainable potable water production from conventional solar still during the winter season at Algerian dry areas: energy and exergy analysis

MEH Attia, A Karthick, AM Manokar, Z Driss, R Sathyamurthy, M Sharifpur
Journal of Thermal Analysis and Calorimetry, 1-11

An extensive review on thermodynamic aspect based solar desalination techniques

S Vaithilingam, ST Gopal, SK Srinivasan, AM Manokar, R Sathyamurthy, ...
Journal of Thermal Analysis and Calorimetry, 1-17

A comprehensive review of technologies used to improve the performance of PV systems in a view of cooling mediums, reflectors design, spectrum splitting, and economic analysis

M Abdelgaied, R Sathyamurthy, A Kabeel
Environmental science and pollution research international

Investigation on structural analysis of a regenerative shock absorber using nylon material

N Prakash, GK Vuppala, ABPR Maddineni, G Narra, CR Bhimavarapu, ...
Materials Today: Proceedings

Enhancement of the yield of solar still with the use of solar pond: A review

H Panchal, KK Sadasivuni, FA Essa, S Shanmugan, R Sathyamurthy
Heat Transfer

Improving the performance of solar powered membrane distillation systems using the thermal energy storage mediums and the evaporative cooler

M Abdelgaied, AE Kabeel, R Sathyamurthy
Renewable Energy 157, 1046-1052

Year around distilled water production, energy, and economic analysis of solar stills—A comparative study

A Muthu Manokar, M Vimala, D Prince Winston, DR Rajendran, ...
Heat Transfer 49 (6), 3651-3662

Investigation on heat transfer enhancement of conventional and staggered fin solar air heater coated with CNT-black paint—an experimental approach

B Madhu, R Sathyamurthy, SW Sharshir, AM Manokar, PR Raghavendran, ...
Environmental Science and Pollution Research 27 (26), 32251–32269

Electrochemical decomposition of NO_x and oxidation of HC and CO emissions by developing electrochemical cells for diesel engine emission control

JM Solomon, S Pachamuthu, JJ Arulanandan, N Thangavel, ...
Environmental Science and Pollution Research 27 (26), 32229–32238

Comparative analysis on freshwater yield from conventional basin-type single slope solar still with cement-coated red bricks: an experimental approach

AE Kabeel, ES El-Agouz, MM Athikesavan, RD Ramalingam, ...
Environmental Science and Pollution Research 27 (26), 32218–32228

Inferences on the effects of geometries and heat transfer fluids in multi-cavity solar receivers by using CFD

RD Ramalingam, GS Esakkimuthu, J Paulraj, KA Elnaby, M Athikesavan, ...
Environmental Science and Pollution Research 27 (26), 32205–32217

Enhancement of PV/T-integrated single slope solar desalination still productivity using water film cooling and hybrid composite insulation

GB Balachandran, PW David, ABP Vijayakumar, AE Kabeel, ...
Environmental Science and Pollution Research 27 (26), 32179–32190

Investigation of performance enhancement of solar still incorporated with Gallus gallus domesticus cascara as sensible heat storage material

GB Balachandran, PW David, G Rajendran, MNA Ali, V Radhakrishnan, ...
Environmental Science and Pollution Research, 1-14

Performance Evaluation of Modified Solar Still Using Aluminum Foil Sheet as Absorber Cover–A Comparative Study

MEH Attia, Z Driss, M Abdelgaied, AM Manokar, R Sathyamurthy, ...
Journal of Testing and Evaluation 49 (5)

Optimization of process parameter in the production of Jatropha Methyl Ester using response surface methodology

C Sasikumar, K Balamurugan, S Jegadheeswaran, R Sathyamurthy
Biocatalysis and Agricultural Biotechnology 27, 101693

Effect of aluminum balls on the productivity of solar distillate

MEH Attia, Z Driss, AM Manokar, R Sathyamurthy
Journal of Energy Storage 30, 101466

Photovoltaics performance improvement using different cooling methodologies: A State-of-Art Review

AW Kandeal, AK Thakur, MR Elkadeem, MF Elmorshedy, Z Ullah, ...
Journal of Cleaner Production, 122772

A comparative study of 3E (energy, exergy, and economy) analysis of various solar stills

A Muthu Manokar, M Vimala, D Prince Winston, DR Rajendran, ...
Heat Transfer

Numerical and experimental investigation on capture of CO₂ and other pollutants from an SI engine using the physical adsorption technique

M Subramaniam, S Satish, JM Solomon, R Sathyamurthy
Heat Transfer 49 (5), 2943-2960

Performance of the novel design thermoelectric cooling system

AE Kabeel, MG Mousa, MM Abdelaziz, R Sathyamurthy, M Abdelgaied
Heat Transfer

Extracting water content from the ambient air in a double-slope half-cylindrical basin solar still using silica gel under Egyptian conditions

FA Essa, AH Elsheikh, R Sathyamurthy, AM Manokar, AW Kandeal, ...
Sustainable Energy Technologies and Assessments 39, 100712

Influence of oxygen enrichment on performance, combustion, and emission characteristics of a stationary diesel engine fuelled with Calophyllum Inophyllum biodiesel blend

S Padmanaba sundar, P Vijayabalan, M Balachandar, R Sathyamurthy, ...
Asia-Pacific Journal of Chemical Engineering 15 (4), 2472

A study of life cycle conversion efficiency and CO₂ role in the pyramid shape solar stills—Comparative analysis

SA Kumar, PSM Kumar, R Sathyamurthy, AM Manokar
Groundwater for Sustainable Development, 100413

Improving the tribological properties of AISI M50 steel using Sns/Zno solid lubricants

AH Elsheikh, J Yu, R Sathyamurthy, MM Tawfik, S Shanmugan, FA Essa
Journal of Alloys and Compounds 821, 153494

Experimental study on enhancing the yield from stepped solar still coated using fumed silica nanoparticle in black paint

R Sathyamurthy, M Balasubramanian, M Devarajan, SW Sharshir, ...
Materials Letters, 127873

Performance enhancement of stepped double slope solar still by using nanoparticles and linen wicks: Energy, exergy and economic analysis

SW Sharshir, MA Eltawil, AM Algazzar, R Sathyamurthy, AW Kandeal
Applied Thermal Engineering, 115278

Eco-friendly coffee-based colloid for performance augmentation of solar stills

FA Essa, AH Elsheikh, AA Algazzar, R Sathyamurthy, MKA Ali, MA Elaziz
Process Safety and Environmental Protection 136, 259-267

Use of solar photovoltaic with active solar still to improve distillate output: A review

K Pansal, B Ramani, K kumar Sadasivuni, H Panchal, M Manokar, ...
Groundwater for Sustainable Development 10, 100341

Improving the performance of solar still using different heat localization materials

SW Sharshir, AH Elsheikh, YM Ellakany, AW Kandeal, EMA Edreis, ...
Environmental Science and Pollution Research 27 (11), 12332-12344

Experimental study on tubular solar still using Graphene Oxide Nano particles in Phase Change Material (NPCM's) for fresh water production

AE Kabeel, R Sathyamurthy, AM Manokar, SW Sharshir, FA Essa, ...
Journal of Energy Storage 28, 101204

Effect of water depth and insulation on the productivity of an acrylic pyramid solar still—An experimental study

AM Manokar, Y Taamneh, AE Kabeel, DP Winston, P Vijayabalan, ...
Groundwater for Sustainable Development, 100319

Experimental investigation on pressure and heat release HCCI engine operated with chicken fat oil/diesel-gasoline blends

D Karuppan, AM Manokar, P Vijayabalan, R Sathyamurthy, B Madhu, ...
Materials Today: Proceedings

NUMERICAL PREDICTION OF FLOW THROUGH A P4119 PROPELLER USING A HYBRID MESH TECHNIQUE

N Prakash, DG Roychowdhury, A Muthuvel, AE Kabeel, R Sathyamurthy, ...
International Journal of Fluid Mechanics research 47 (4), 291-307

Effect of using plastic nanofuel as a fuel in a light-duty diesel engine

VK Kaimal, P Vijayabalan, M Balachandar, SP Sundar, R Sathyamurthy
Heat Transfer—Asian Research 49 (2), 726–742

Effect of mass flow rate on fresh water improvement from inclined PV panel basin solar still

AE Kabeel, R Sathyamurthy, D Mageshbabu, B Madhu, P Anand, ...
Materials Today: Proceedings

An artificial neural network based approach for prediction the thermal conductivity of nanofluids

AH Elsheikh, SW Sharshir, AS Ismail, R Sathyamurthy, T Abdelhamid, ...
SN Applied Sciences 2 (2), 235

A study of life cycle conversion efficiency and CO₂ role in the pyramid shape solar stills—Comparative analysis

S Arun Kumar, P Suresh Mohan Kumar, R Sathyamurthy, AM Manokar

Comparative study of tubular solar stills with phase change material and nano-enhanced phase change material

MM Thalib, AM Manokar, FA Essa, N Vasimalai, R Sathyamurthy, ...
Energies 13 (15), 3989

Experimental investigation on pyramid solar still with single and double collector cover—Comparative study

SA Kumar, PSM Kumar, R Sathyamurthy, AM Manokar
Heat Transfer—Asian Research 49 (1), 103-119

Enhancement of potable water production from an inclined photovoltaic panel absorber solar still by integrating with flat-plate collector

AM Manokar, M Vimala, R Sathyamurthy, AE Kabeel, DP Winston, ...
Environment, Development and Sustainability 22, 4145–4167

Dataset for compression ignition engine fuelled with corn oil methyl ester biodiesel

D Balaji, T Mathevan Pillai, K Gnanasekaran, M Balachandar, ...
Data in Brief 27, 104683

Sand dunes effect on the productivity of a single slope solar distiller

A Khechekhouche, B Benhaoua, M Manokar, R Sathyamurthy, AE Kabeel, ...
Heat and Mass Transfer, 1-10

Improvising the efficiency of single-sloped solar still using thermally conductive nano-ferric oxide

GB Balachandran, PW David, RK Mariappan, AE Kabeel, ...
Environmental Science and Pollution Research, 1-14

Computational Study of Different Turbulence Models for Air Impingement Jet into Main Air Cross Stream

AE Kabeel, M Elkelawy, HA El-Din, AM El-Banna, R Sathyamurthy, ...
International Journal of Fluid Mechanics Research 46 (5), 459–475

Improving the solar still performance by using thermal energy storage materials: A review of recent developments

Swellam W. Sharshir., Ammar H. Elsheikh., Elbager M.A. Edreis., Mohamed ...
Desalination and water treatment 165, 1-15

Experimental studies on passive inclined solar panel absorber solar still

C Sasikumar, AM Manokar, M Vimala, DP Winston, AE Kabeel, ...
Journal of Thermal Analysis and Calorimetry, 1-12

Experimental investigation of a hybrid setup for distilled water and power production

A.E. Kabeel, Ravishankar Sathyamurthy, S.A. El-Agouz, A. Muthu Manokar ...
Desalination and Water treatment 162, 30-36

Thermal and hydraulic characteristics of a triangular duct using an Al₂O₃ nanofluid in a turbulent flow regime

Y Taamneh, AE Kabeel, N Prakash, R Sathyamurthy, AJ Chamkha
Heat Transfer—Asian Research 48 (6), 2639-2654

Performance analysis of spiral and serpentine tube solar collector with carbon nanotube nanofluids under natural flow method

AE Kabeel, ES El-Agouz, N Prakash, C Prasad, R Sathyamurthy, ...
Heat Transfer—Asian Research 48 (6), 2428-2439

Comprehensive Study on the Effect of CuO Nano Fluids Prepared Using One-Step Chemical Synthesis Method on the Behavior of Waste Cooking Oil Biodiesel in Compression Ignition Engine

R Velmurugan, J Mayakrishnan, S Induja, S Raja, S Nandagopal, ...
Journal of Thermal Science and Engineering Applications 11 (4), 041003

Experimental studies on inclined PV panel solar still with cover cooling and PCM

AE Kabeel, R Sathyamurthy, SA El-Agouz, EMS El-Said
Journal of Thermal Analysis and Calorimetry, 1-9

A comprehensive investigation of the optimization cooling technique for improving the performance of PV module with reflectors under Egyptian conditions

AE Kabeel, M Abdelgaied, R Sathyamurthy
Solar Energy 186, 257-263

Experimental investigation on the effect of MgO and TiO₂ nanoparticles in stepped solar still

R Sathyamurthy, AE Kabeel, ES El-Agouz, DS Rufus, H Panchal, ...
International Journal of Energy Research 43 (8), 3295-3305

A review on different design modifications employed in inclined solar still for enhancing the productivity

AE Kabeel, AM Manokar, R Sathyamurthy, DP Winston, E Elagouz, ...
Journal of Solar Energy Engineering 141 (3), 031007

Annual performance analysis of adding different nanofluids in stepped solar still

H Panchal, R Sathyamurthy, AE Kabeel, SA El-Agouz, DS Rufus, ...
Journal of Thermal Analysis and Calorimetry, 1-8

Experimental analysis and exergy efficiency of a conventional solar still with Fresnel lens and energy storage material

R Sathyamurthy, E El-Agouz
Heat Transfer—Asian Research 48 (3), 885-895

Experimental investigation on pyramid solar still in passive and active mode

AM Manokar, DP Winston, R Sathyamurthy, AE Kabeel, AR Prasath
Heat and Mass Transfer 55 (4), 1045-1058

A mini review of techniques used to improve the tubular solar still performance for solar water desalination

SW Sharshir, YM Ellakany, AM Algazzar, AH Elsheikh, MR Elkadeem, ...
Process Safety and Environmental Protection 124, 204-212

Effect of water depth on a novel absorber plate of pyramid solar still coated with TiO₂ nano black paint

AE Kabeel, R Sathyamurthy, SW Sharshir, A Muthumanokar, H Panchal, ...
Journal of Cleaner Production 213, 185-191

Experimental investigation on the effect of photovoltaic panel partially and fully submerged in water

B Madhu, E Balasubramanian, AE Kabeel, R Sathyamurthy, ES El-Agouz, ...
Heat Transfer—Asian Research 48 (5), 1709-1721

Exploitation of an insulated air chamber as a glazed cover of a conventional solar still

A Khechekhouche, B Benhaoua, AM Manokar, AE Kabeel, ...
Heat Transfer—Asian Research 48 (5), 1563-1574

Developments and modifications in passive solar still: a review

H Panchal, K Sadashivuni, S Ravishankar, D Mevada
Desalination and Water treatment 143, 158-164

Tribological study on hybrid metal matrix composites for application in automotive sector

E Sangeethkumar, M Jaikumar, KMN Sridath, V Ramanathan, ...
Materials Research Express 6 (5), 055703

Investigation and Performance analysis of Solar Milk Pasteurisation system

H Panchal, R Patel, R Sathyamurthy
International Journal of Ambient Energy, 1-24

Effect of insulation on energy and exergy effectiveness of a solar photovoltaic panel incorporated inclined solar still—an experimental investigation

AM Manokar, M Vimala, DP Winston, R Sathyamurthy, AE Kabeel
Solar desalination technology, 275-292

Emission analysis on compression ignition engine fueled with lower concentrations of Pithecellobium dulce biodiesel-diesel blends

SC Sekhar, K Karuppasamy, R Sathyamurthy, M Elkelawy, ...
Heat Transfer—Asian Research 48 (1), 254-269

Enhancing the thermal performance of micro finned tube with TiO₂-Water Nano fluids using twisted tape inserts

D Mageshbabu, AE Kabeel, R Sathyamurthy, SA El-Agouz, AJ Chamkha, ...
Heat Transfer Research 50 (9), 851-863

Experimental study on conventional solar still integrated with inclined solar still under different water depth

AE Kabeel, Y Taamneh, R Sathyamurthy, P Naveen Kumar, AM Manokar, ...
Heat Transfer—Asian Research 48 (1), 100-114

Different parameters affecting the condensation rate on an active solar still—A review

AM Manokar, M Vimala, DP Winston, R Ramesh, R Sathyamurthy, ...
Environmental Progress & Sustainable Energy 38 (1), 286-296

Annual performance analysis of a single-basin passive solar still coupled with evacuated tubes: comprehensive study in climate conditions of Mahesana, Gujarat

H Panchal, R Sathyamurthy, AK Pandey, M Kumar, T Arunkumar, ...
International Journal of Ambient Energy 40 (3), 229-242

Passive Solar still: Recent advancement in design and related Performance (Retraction of Vol 39, Pg 1, 2018)

A Awasthi, K Kumari, H Panchal, R Sathyamurthy
ENVIRONMENTAL TECHNOLOGY 39 (23), 3113-3113

Effects of chemical impregnation agents on the characterisation of porosity and surface area of activated carbon prepared from sago palm bark

NNND Iqbal Khalaf Erabee, Amimul Ahsan, Monzur Imteaz, R Sathyamurthy, T ...
Journal of Engineering Research 6 (4), 1-21

Experimental Analysis of Inclined Solar Water Heater with Baffles

Taamneh Y., Muthumanokar A., Kabeel A.E., El-Agouz E.-S., Sathyamurthy R ...
Chemical Engineering Transactions 71, 1339-1344

Review of different methods employed in pyramidal solar still desalination to augment the yield of freshwater

A. Muthu Manokar., Yazan Taamneh., A.E. Kabeel., Ravishankar Sathyamurthy ...
Desalination and water treatment 136, 20-30

The requirement of various methods to improve distillate output of solar still: a review

H Panchal, D Mevada, R Sathyamurthy
International Journal of Ambient Energy, 1-7

Augmenting the productivity of solar still using jute cloth knitted with sand heat energy storage

AE Kabeel, SA El-Agouz, R Sathyamurthy, T Arunkumar
Desalination 443, 122-129

Numerical and experimental investigation of ethyl alcohol as oxygenator on the combustion, performance, and emission characteristics of diesel/cotton seed oil blends in ...

M Elkelawy, H Bastawissi, SC Sekar, K Karuppasamy, N Vedaraman, ...
SAE Technical Paper

Solar energy utilisation for milk pasteurisation: A comprehensive review

H Panchal, R Patel, S Chaudhary, DK Patel, R Sathyamurthy, ...
Renewable and Sustainable Energy Reviews 92, 1-8

Formation, characterization and theoretical evaluation of combustion of biodiesel obtained from wax esters of *A. Mellifera*

R Bharathwaaj, PK Nagarajan, AE Kabeel, B Madhu, D Mageshbabu, ...
Alexandria engineering journal 57 (3), 1205-1215

Experimental investigation on Peltier based hybrid PV/T active solar still for enhancing the overall performance

P Pounraj, DP Winston, AE Kabeel, BP Kumar, AM Manokar, ...
Energy conversion and management 168, 371-381

Comparative study of an inclined solar panel basin solar still in passive and active mode

AM Manokar, DP Winston, JD Mondol, R Sathyamurthy, AE Kabeel, ...
Solar Energy 169, 206-216

Thermal optimization of tapered pin fin exposed to nonuniform surface heat transfer coefficient

Y Taamneh, M Alrbai, R Sathyamurthy
Heat Transfer—Asian Research 47 (7), 857-868

Experimental investigation on the effect of sensible heat energy storage in an inclined solar still with baffles

B Madhu, E Balasubramanian, AE Kabeel, SA El-Agouz, AM Manokar, ...
DESALINATION AND WATER TREATMENT 116, 49-56

EXERGY ANALYSIS OF SINGLE SLOPE SOLAR STILL WITH LOW COST ENERGY STORAGE MATERIAL

AE Kabeel, SA El-Agouz, R Sathyamurthy

Experimental investigation on hybrid PV/T active solar still with effective heating and cover cooling method

DP Winston, P Pounraj, AM Manokar, R Sathyamurthy, AE Kabeel
Desalination 435, 140-151

Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation

T Arunkumar, AE Kabeel, K Raj, D Denkenberger, R Sathyamurthy, ...
Journal of Cleaner Production 195, 1149-1161

Exergy analysis of solar still with sand heat energy storage

B Madhu, E Balasubramanian, R Sathyamurthy, PK Nagarajan, ...
Applied Solar Energy 54 (3), 173-177

Thermo-physical properties of CNT and CNT/Al₂O₃ hybrid nano fluid

D Mageshbabu, PK Nagarajan, B Madhu, R Bharathwaaj, S Wongwises, ...
Micro & Nano Letters 13 (5), 617 – 621

Biodiesel production process optimization from Pithecellobium dulce seed oil: Performance, combustion, and emission analysis on compression ignition engine fuelled with diesel ...

SC Sekhar, K Karuppasamy, N Vedaraman, AE Kabeel, R Sathyamurthy, ...
Energy conversion and management 161, 141-154

Efficiency and heat transfer improvements in a parabolic trough solar collector using TiO₂ nanofluids under turbulent flow regime

J Subramani, PK Nagarajan, O Mahian, R Sathyamurthy
Renewable Energy 119, 19–31

Maximum power extraction in solar renewable power system-a bypass diode scanning approach

DP Winston, BP Kumar, SC Christabel, AJ Chamkha, R Sathyamurthy
Computers & Electrical Engineering 70, 122-136

Synthesis, characterisation and thermo-physical investigations on magnesia nanoparticles dispersed in ethylene glycol–DI water (50: 50)

SJK Sasidharan, NP Krishnamurthy, R Mamat, VD Loganathan, ...
Micro & Nano Letters 13 (3), 335-340

Improvement of humidification–dehumidification desalination unit using a desiccant wheel

SA El-Agouz, R Sathyamurthy
Chemical Engineering Research and Design 131, 104-116

Passive solar still: recent advancements in design and related performance

A Awasthi, K Kumari, H Panchal, R Sathyamurthy
Environmental Technology Reviews 7 (1), 235-261

Performance improvement of a solar assisted desiccant air conditioning coupled with condenser for water production

AE Kabeel, M Abdelgaied, Y Zakaria, R Sathyamurth

Theoretical Analysis of Continuous Heat Extraction from Absorber of Solar Still for Improving the Productivity

E El-Agouz, AE Kabeel, J Subramani, AM Manokar, T Arunkumar, ...
Periodica Polytechnica Mechanical Engineering 62 (3), 187-195

Economic and Exergy investigation of triangular pyramid solar still integrated to inclined solar still with baffles

H Panchal, Y Taamneh, R Sathyamurthy, AE Kabeel, SA El-Agouz, ...
International Journal of Ambient Energy, 1-20

Sustainable fresh water and power production by integrating PV panel in inclined solar still

AM Manokar, DP Winston, AE Kabeel, R Sathyamurthy
Journal of Cleaner Production 172, 2711-2719

Different parameter and technique affecting the rate of evaporation on active solar still-a review

Muthu Manokar A, Prince Winston D, Kabeel A. E, Ravishankar Sathyamurthy ...
Heat and Mass Transfer 54 (3), 593–630

Experimental study on the thermal performance and heat transfer characteristics of solar parabolic trough collector using Al₂O₃ nanofluids

Subramani, J., Nagarajan, P.K., Wongwises, Somchai., El-Agouz, S.A ...
Environmental Progress & Sustainable Energy 37 (3), 1149-1159

Integrated PV/T solar still-a mini-review

AM Manokar, DP Winston, AE Kabeel, SA El-Agouz, R Sathyamurthy, ...
Desalination 435, 259-267

Augmentation of a solar still distillate yield via absorber plate coated with black nanoparticles

AE Kabeel, ZM Omara, FA Essa, AS Abdullah, T Arunkumar, ...
Alexandria Engineering Journal 56 (4), 433-438

Performance improvement of a hybrid air conditioning system using the indirect evaporative cooler with internal baffles as a pre-cooling unit

AE Kabeel, M Abdelgaied, R Sathyamurthy, T Arunkumar
Alexandria Engineering Journal 56 (4), 395-403

Theoretical analysis of a triangular pyramid solar still integrated to an inclined solar still with baffles

P Naveen Kumar, DG Harris Samuel, PK Nagarajan, R Sathyamurthy
International Journal of Ambient Energy 38 (7), 694-700

Experimental evaluation of friction factor and heat transfer enhancement of twisted tape inserts using TiO₂–water nanofluids

TITLE

DM Babu, PK Nagarajan, B Madhu, S Ravishankar
Journal of Engineering Thermophysics 26 (4), 567-579

A new activated carbon prepared from sago palm bark through physiochemical activated process with zinc chloride

IK Erabee, A Ahsan, AW Zularisam, S Idrus, NNN Daud, T Arunkumar, ...
Engineering Journal 21 (5), 1-14

A Review of integrating solar collectors to solar still

Ravishankar Sathyamurthy, S.A. El-Agouz, Nagarajan.P.K, Arunkumar. T, J ...
Renewable and Sustainable Energy Reviews 77, 1069-1097

Effect of forced cover cooling technique on a triangular pyramid solar still

PK Nagarajan, SA El-Agouz, T Arunkumar, R Sathyamurthy
International Journal of Ambient Energy 38 (6), 597-604

Experimental investigation on the effect of water mass in triangular pyramid solar still integrated to inclined solar still

P. Naveen kumar, A.Muthu Manokar, Madhu. B, A.E. Kabeel, Arunkumar. T ...
Groundwater for Sustainable Development 5, 229-234

Experimental analysis of single basin solar still with porous fins

H Panchal, R Sathyamurthy
International Journal of Ambient Energy, 1-15

Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach

T Arunkumar, R Velraj, GO Prado, DC Denkenberger, O Mahian, ...
Desalination and Water Treatment 87

Effects of electric potential, NaCl, pH and distance between electrodes on efficiency of electrolysis in landfill leachate treatment

IK Erabee, A Ahsan, B Jose, T Arunkumar, R Sathyamurthy, S Idrus, ...
Journal of Environmental Science and Health, Part A 52 (8), 735-741

Improving the yield of fresh water from conventional and stepped solar still with different nanofluids

B Madhu, E Balasubramanian, PK Nagarajan, R Sathyamurthy, ...
Desalination and Water Treatment 100, 243–249

Improving the Yield of Freshwater and Exergy Analysis of Conventional Solar Still with Different Nanofluids

Madhu B., Bala Subramanian E., Nagarajan P.K., Ravishankar Sathyamurthy ...
FME Transactions 45 (4), 524-530

ENHANCING THE PERFORMANCE OF SINGLE SLOPE SOLAR STILL USING JUTE CLOTH KNITED WITH SAND HEAT ENERGY STORAGE

AE Kabeel, SA El-Agouz, T Arunkumar, R Sathyamurthy

Twentieth International Water Technology Conference, IWTC20, 433-439

Performance enhancement of solar still through efficient heat exchange mechanism-A review

AE Kabeel, T Arunkumar, DC Denkenberger, R Sathyamurthy
Applied Thermal Engineering 114, 815–836

Analysis of an inclined solar still with baffles for improving the yield of fresh water

Nagarajan P.K., S.A. El-Agouz, Harris Samuel D.G., Edwin M., Madhu B ...
Process Safety and Environmental Protection 105, 326–337

Enhancing the thermal performance of Al₂O₃/DI water nanofluids in micro-fin tube equipped with straight and left-right twisted-tapes in turbulent flow regime

MageshBabu. D., Nagarajan. P.K., Sathyamurthy. R., and S. Suseel Jai Krishnan.
Experimental Heat transfer 30 (4), 267-283

Influence of crescent shaped absorber in water desalting system

Arunkumar.T., R. Velraj., David Denkenberger., Ravishankar Sathyamurthy.
Desalination 398, 208-213

Chemical Characteristics of Native Soil in Shrimp Gher and Agricultural Land in Khulna, Bangladesh

AK Bala, QH Bari, A Ahsan, MM ElSergany, R Sathyamurthy, MA Bek, ...
Engineering Journal 20 (2), 1-15

Productivity enhancements of compound parabolic concentrator tubular solar stills

Arunkumar.T., R. Velraj., David Denkenberger., Ravishankar Sathyamurthy., K ...
Renewable Energy 88, 391–400

Theoretical Approach on the Effect of Cover Cooling in Triangular Pyramid Solar Still

PK Nagarajan, SA El-Agouz, T Arunkumar, R Sathyamurthy
International Journal of Ambient Energy, 1-17

Theoretical analysis of inclined solar still with baffle plates for improving the fresh water yield.

S Ravishankar, DGH Samuel, PK Nagarajan
Process Safety and Environmental Protection 101, 93-107

Geometrical variations in solar stills for improving the fresh water yield-a review.

S Ravishankar, DGH Samuel, PK Nagarajan, T Arunkumar
Desalination and Water Treatment 57 (45), 21145-21159

Experimental Investigations on Conventional Solar Still with Sand Heat Energy Storage

R Sathyamurthy, PK Nagarajan, M Edwin, B Madhu, SA El-Agouz, ...
International Journal of Heat and Technology 34 (4), 597-603

DESIGN AND DEVELOPMENT OF DOUBLE BASIN SOLAR STILL WITH THERMO ELECTRIC MODULE WITH CONDENSING CHAMBER

Ravishankar Sathyamurthy., Harris Samuel, D.G.
IN Patent E-2/2047/2016-CH E

DESIGN OF EFFECTIVE COVER COOLING IN A SOLAR PV PANEL WITH BAFFLES CUM DISTILLATION SYSTEM

Ravishankar, Sathyamurthy., Harris Samuel, DG.
IN Patent E-2/2051/2016-CH E

Improving the yield of fresh water in conventional solar still using low cost energy storage material

Harris Samuel. D.G., Nagarajan. P.K., Ravishankar Sathyamurthy, S.A.El-Agouz ...
Energy Conversion and Management 112, 125-134

Geometrical variations in solar stills for improving the fresh water yield-A Review

Ravishankar Sathyamurthy., D.G. Harris Samuel., P.K. Nagarajan., Arunkumar.T.
Desalination and Water Treatment 57 (45), 21145-21159

Enhancing the solar still yield by increasing the surface area of water-A Review

D.G. Harris Samuel., P.K. Nagarajan., Arunkumar. T., E. Kannan., Ravishankar ...
Environmental progress and Sustainable Energy 35 (3), 815–822

Experimental validation of fresh water production using triangular pyramid solar still with PCM storage

R Sathyamurthy, PK Nagarajan, D Vijayakumar
International Journal of Engineering Research in Africa 20, 51-58

Effect of parabolic solar energy collectors for water distillation

Arunkumar.T., Velraj.R., Amimul Ahsan., A.J.N. Khalifa., S. Shams ...
Desalination and Water treatment 57 (45), 21234-21242

Effect of heat removal on tubular solar desalting system

Arunkumar.T., Velraj.R., Denkenberger.D., Ravishankar Sathyamurthy ...
Desalination 379, 24-33

Theoretical analysis of inclined solar still with baffle plates for improving the fresh water yield

Ravishankar Sathyamurthy., D.G. Harris Samuel., P.K. Nagarajan.
Process Safety and Environmental Protection 101, 93-107

Experimental study on a parabolic concentrator assisted solar desalting system

Arunkumar.T., David Denkenberger., R. Velraj., Ravishankar Sathyamurthy ...
Energy Conversion and Management 105, 665-674

Experimental analysis of a portable solar still with evaporation and condensation chambers

Ravishankar Sathyamurthy., S.A.El-Agouz., Vijayakumar Dharmaraj.
Desalination 367, 180-185

Experimental investigation on a semi-circular trough-absorber solar still with baffles for fresh water production

Ravishankar Sathyamurthy., Nagarajan.P.K., El-Agouz.S.A., Jai Ganesh.V ...
Energy Conversion and Management 97, 235-242

A Review of different solar still for augmenting fresh water yield

Ravishankar Sathyamurthy., D.G. Harris Samuel., P.K. Nagarajan., S.A. El-Agouz.
Journal of Environmental Science and Technology 8 (6), 244-265

Theoretical Studies of an Improved Inclined Solar Still with Baffle Plates

Murugesan.V., Seralathan.S., Ravishankar.S.
International Journal of Applied Engineering Research (IJAER) 10 (13), 11439 ...

Investigation on LPG-Biogas Blends in Spark Ignition Engine

Ravishankar Sathyamurthy., Hari Krishnan.S.A.
International Journal of Engineering Research in Africa 14, 58-62

Experimental investigation on a semi circular trough solar water heater

Ravishankar Sathyamurthy., Harris Samuel.D.G., Nagarajan.P.K., Jaiganesh.V.
Applied Solar Energy 51 (2), 94-98