

Published Papers for the Year 2020

Seq.	Paper Title
1.	Electron-Ion Trap for Combined Density and Composition Sensor of the Upper Atmosphere
2.	Stability system design of flying body elevator control
3.	Algorithm for Constructing Modified Relative Phase Permeability For The Average Model Of Three-Phase Filtration In A Multilayered Layer
4.	Drag Reduction and Flow Enhancement in Iraqi Crude Oil Pipelines using PMMA polymer and CNTs
5.	A mathematical model of the non-stationary filtration process for oil-supercritical CO ₂ system in a homogeneous porous medium under various modes of oil displacement
6.	Improvement of mechanical properties of Oil well cement by incorporate Nano-CaCO ₃ prepared from eggshell waste
7.	DESIGN AND IMPLEMENTATION OF AN AUTOMATIC CONTROL SYSTEM TO AVOID FOULING IN PIPES WITH BLOW DOWN HEAT RECOVERY IN STEAM BOILERS
8.	Investigation of residual oil saturation in the process of filtration of viscous multicomponent flow with a wide range of pressures and temperatures
9.	Thermal Analysis and Temperature Distribution of Two-Layer and Spoke-Type Ferrite Interior Permanent Magnet Machine
10.	Inductance Calculation and Torque Separation of a Unique Multi-Layer Spoke-type Interior Permanent Magnet Motor using the Frozen Permeability Method
11.	Theoretical and Experimental Analysis of Photovoltaic Module under Clouds Effects
12.	Impact of the Weather on the Combined Economic and Emission Optimization Problem of MG
13.	Mitigation of Harmonic Distortion in a Power System Feeding Nonlinear Loads Using Shunt Passive Single Tuned Filters

14.	Portable field hospital fed from solar system depends on interleaved boost converter (IBC)
15.	Evaluation the Influences of Temperature, Dust and Shading on Photovoltaic System Performance
16.	A Hardware Implementation of Neuro-PMD Model classifier based FPGA
17.	Obstacle Avoidance Method for Highly Redundant Robotic Arms
18.	Design and implementation of a single-side flat synchronous linear motor model
19.	Adaptive Control Using NARMA-L2 Model and Electric Circuit for Condenser of Thermal Power Plant
20.	Modelling and Controlling of position for electro-pneumatic system using Pulse-Width-Modulation (PWM) techniques and Fuzzy Logic controller
21.	Performance Improvement of Photovoltaic Module Using an Air-Cooling Micro Finned Heat Sink
22.	The optimum thickness of paraffin wax insulator filling a double glazed window
23.	Optimized manufacturing of the small dual wind turbine used to generate electricity in central Iraq areas
24.	The hybrid Photovoltaic-Thermal double-pass solar system for drying applications
25.	Palm Olein with Jatropha Curcas Oil Blend as a Renewable Bio-Fluid
26.	Experimental and Numerical Study of a New Corrugated and Packing Solar Collector
27.	Heat Transfer Enhancement in Air Duct Flow By Micro-Channel Experimental And Numerical Investigation
28.	The Effect of Mass Flow Rate on the Thermal Performance for Solar Collector with Compound Parabolic Concentrator During the Summer Season

29.	Design and Implementation of Water Distillation System Using Solar Energy
30.	Photovoltaic Thermal (PV/T) Collector Performance Evaluation as Electricity Generation and Hot Air Supplier For Partially Covered with PV Modules
31.	Outdoor testing of an evacuated tube closed two phase thermosyphon solar water heater charged with Nano-fluid
32.	Analysis of Vector Controlled Variable Speed DFIG for Wind Turbines
33.	BIM2BEM for room heating-cooling time estimation after turning on the HVAC systems
34.	Impacts of non-homogeneous nanofluid approach and orientation angle on convection heat transfer within a 3D wavy cavity
35.	Numerical Investigation of Thermal Performance for Air Solar Collector with Multi Inlets
36.	Numerical Investigation of Thermal Performance for Air Solar Collector with Multi Inlets
37.	Control on Temperature of Hybrid Nanofluid in Evacuated Tube Solar Collector Using Smart Curtain
38.	Blood flow through the circulatory system element affected by double stenotic lesions
39.	Innovative Design of a Ventilated Modern Greenhouse Powered by PV/T Solar System
40.	MPPT Control for Grid Connected Wind Energy Conversion System Based Permanent Magnet Synchronous Generator (PMSG) and Five-Level Neutral Point Clamped Converter
41.	Intensification of heat transfer in the cooling systems of radio electronic equipment under free and forced convection
42.	Intelligent Nero modelling methods for PV panel system