

Research plan for Energy and Renewable Energies Technology Center for the academic year 2020-2021

No	Researcher Name	Research Title
1	Hussein A. Kazem, Ali H A Al-Waeli, Miqdam T Chaichan, K Sopian	Modelling improvement and experimental validation of solar cells considering dust pollution.
2	Hussein A. Kazem, Jabar Yousif, Miqdam T Chaichan, Ali H A Al-Waeli, K Sopian	Comparative study of grid-connected photovoltaic output using Principal Component Analysis and Recurrent Neural approaches based on a measured dataset
3	Hussein A. Kazem, Miqdam T Chaichan, Ali H. A. Al-Waeli, K Sopian	Comparison and evaluation of PV/T system with hybrid collector: an experimental study
4	Mohammed A. Fayad Amerah A. Radhi	Influence of environment-friendly novel fuel additives on soot nanoparticles characteristics and engine performance in CI diesel engine
5	Mohammed A. Fayad Bashar R Unis Salman Hussien Omran	Effect of oxygenated fuels on morphology and oxidation reactivity of soot particulate emissions in modern diesel engine
6	Mohammed A. Fayad Marwa K. Abood Hind A. Al salihi	Influence of various injection timings and nanoparticles additive to the biodiesel-diesel blends on the engine performance and emission characteristics in diesel engine
7	Marwa K. Abood Mohammed A. Fayad Hind A. Al salihi Hassin Ali Abdulmajeed Salbi	Effect of zno nano particle deposition on porous silicon solar cell
8	Marwa K. Abood Evan T Salim Hind A. Al salihi	Synthesis and characterization of photoconductive solar cell employing Nb205 nanopaste.
9	W K Alania, J. Zhengb, M.A. Fayada, Lei Leib	Enhancing the fuel saving and emissions reduction of light-duty vehicle by a new design of air conditioning worked by solar energy
10	W K Alania,	Yttrium barium copper oxide application A review
11	W K Alania,	Ice and Heat Energy Generation panel (IHEGP
12	Bashar R. Al-ogaidi Mohamad Alsaadi Mehmet Bulut	Improving the dynamic behavior of aramid/carbon reinforced epoxy using graphene nano-pellets.
13	Thamer Adnan Abdullah Tatjana Juzsakova Sanaa A. Hafad Rashed Taleb Rasheed Noor Al-Jammal Le Phuoc Cuong Ali Dawood Salman1 Redey Akos	Article Review: Polymer Nanocomposites for Oil Removal from Water

	Endre Domokos Igor Cretescu	
14	Salman Hussien Omran Amjed Barzan Al-Hadithi	Development statistical process control charts using artificial intelligent techniques
15	Dahir Abbas Reda Ismael Hadi Challoorb Salman Hussien Omran	The use of time series to predict defective percentage is an applied study in the Ishtar fireplace laboratory
16	Thamer Adnan Abdullah Tatjana Juzsakova Sanaa A. Hafad Rashed Taleb Rasheed Noor Al-Jammal Le Phuoc Cuong Ali Dawood Salman1 Redey Akos Endre Domokos Igor Cretescu	Preparation, Characterization of V2O5 Nanoparticles at Different Annealing Temperatures and Their Application in Removal of Methylene Blue from Water
17	Thamer Adnan Abdullah Tatjana Juzsakova Sanaa A. Hafad Rashed Taleb Rasheed Noor Al-Jammal Le Phuoc Cuong Ali Dawood Salman1 Redey Akos Endre Domokos Igor Cretescu	Preparation, Characterization of MnO2-Based Nanoparticles at Different Annealing Temperatures and Their Application in Dye Removal from Water.
18	Amerah Abbas Radhi	Investigation of electrocoagulation effect on the removal of COD, TOC from waste water
19	Amerah Abbas Radhi	Comparison of sand filter and granular activated carbon filter in removing organic matter
20	Slafa I. Ibrahim	Nonlinear properties of Calcein-W dissolved in Methanol.
21	Slafa I. Ibrahim	Nonlinear properties of liquid anthocyanin dye.
22	Salam Waley Shneen Moafaq K.S. Al-Ghezi Roshen T A Hamdi	Review- Design and performance of PV Thermal System.
23	Roshen T A Hamdi Salam Waley Shneen Moafaq K.S. Al-Ghezi	The Influence of solar chimney parameters on its efficiency and operation
24	Moafaq K.S. Al-Ghezi Roshen T A Hamdi Salam Waley Shneen	The Influence of Temperature and irradiance on Performance of Solar Cells In the Middle of Iraq.
25	Salam Waley Shneen	Simulation Model of Single Phase PWM rectifier by Using MATLAB/Simulink
26	Salam Waley Shneen	Simulation Model of Three Phase PWM rectifier by Using MATLAB/Simulink
27	salam waley shneen1 Ghada Adel Aziz	BBO Tuned FLC for stability of TCP network
28	Ghada Adel Aziz1 salam waley shneen	Advanced Optimal for stability of TCP network
29	salam waley shneen Manal Kadhim Oudah Mohammed Qasim Sulttan	BBO Tuned PI Controller for stability of TCP network
30	salam waley shneen Mohammed Qasim Sulttan Manal Kadhim Oudah	Design and Implementation Stability System for TCP network

31	Shaimaa bassim khalf	Quantum chemical elucidation on corrosion inhibition efficiency of Schiff base : DFT investigations supported by weight loss and SEM techniques
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