

Research Title	Names of researchers
<u>Augmenting thermal performance in tubular solar stills: A multifaceted strategy with wick cords, integrated baffles, reflectors, and nano-PCM</u>	Mamdouh I. Elamy ^{a b} , SuhaA. Mohammed ^c , Ali Basem ^d , WissamH. Alawee ^e , A. Al dabesh ^f , A.S. Abdullah ^{g h} , Hasan Sh Majdi ⁱ , Z.M. Omara ^j , F adl A. Essa ^j
<u>Enhancing coiled solar still performance with vertical wick distiller, reflectors, nanomaterial-infused PCM, and condenser integration</u>	. Mamdouh I. Elamy ^{a b} , Suha A. Mohammed ^c , Ali Base m ^d , Wissam H. Alawee ^e , A.S. Abdullah ^{f g} , A. Aldabesh ^h , Hasan Sh Majdi ⁱ , Z.M. Omara ^j , F adl A. Essa ^j
<u>Optimizing water resources for sustainable desalination: The integration of expert systems and solar energy in experimental applications</u>	Wissam H. Alawee ^{a b} , Alaa Abdulhady Jaber ^c , Z.M. O mara ^d , Suha A. Mohammed ^e , Hayder A. Dhahad ^c , Zeashan Hameed Khan ^f , Luttfi A. Al-Haddad ^b
<u>Comparative analysis of solar cells and hydrogen fuel: A mini-review</u>	Lina M. Shaker ^{a b} , Jabbar K. Mohammed ^c , Ali Base m ^d , Raghad J. Halbos ^e , Raghad R. Mahdi ^e , Suha A. Mohammed ^e , Mohamm

Research published within the topics of sustainable development for the academic year
2024 - 2023

	ed A. Fayad ^e , Ahmed Al-Amiery ^e , Muwafaq H. Al Lami ^f
<u>An experimental comparison for thermoeconomic performance of five different designs of solar stills</u>	Mamdouh I. Elamy ^{a b} , Wissam H. Alawee ^c , Ali Basem ^d , Suha A. Mohammed ^e , A.S. Abdullah ^{f g} , Hasan Sh. Majdi ^h , T.E.M. Atteya ^{i j} , Z.M. Omara ^k , M.M. Younes ^k
<u>Forecasting the productivity of a solar distiller enhanced with an inclined absorber plate using stochastic gradient descent in artificial neural networks</u>	Suha A. Mohammed, Luttfi A. Al-Haddad, Wissam H. Alawee, Hayder A. Dhahad, Alaa Abdulhady Jaber & Sinan A. Al-Haddad
<u>Novel cylindrical solar still integrated with parabolic solar concentrators, vapor extraction fan, and nano-enhanced phase change material</u>	Mamdouh I. Elamy ^{a b} , Fadl A. Essa ^c , Ali Basem ^d , Suha A. Mohammed ^e , Wissam H. Alawee ^f , A.S. Abdullah ^{g h} , Azher M. Abed ^{i j} , Z.M. Omara ^c , W.M. Farouk ^k
<u>Advancing solar distillation efficiency through calcium hydroxide coating and enhanced configuration of mirror-assisted system</u>	Suha A. Mohammed ^a , Wissam H. Alawee ^b , A.S. Abdullah ^{c d} , Ali Basem ^e , Alaa Dhari Jawad Al-Bayati ^f , Z.M. Omara ^g , Fadl A. Essa ^g

**Research published within the topics of sustainable development for the academic year
2024 - 2023**

<u>Enhancing water evaporation rate in hemispherical solar distillers through innovative modifications and Nano-PCM integration</u>	Fadl A. Essa ^a , Wissam H. Alawee ^b , A.S. Abdullah ^{c d} , Suha A. Mohammed ^e , Ali Basem ^f , Hasan Sh. Majdi ^g , Z.M. Omara ^a
<u>Enhancing water productivity and cost-effectiveness in hemispherical solar stills using sandy beds, reflectors, and a vapor extraction fan</u>	Lamjed Hadj-Taieb ^{a b} , Suha A. Mohammed ^c , Wissam H. Alawee ^d , A.S. Abdullah ^{a e} , Ali Basem ^f , Hasan Majdi ^g , Z.M. Omara ^h , Fadl A. Essa ^h
<u>Optimized solar food dryer with varied air heater designs</u>	Suha A. Mohammed ^a , Wissam H. Alawee ^b , Miqdam T. Chaichan ^a , Amar S. Abdul-Zahra ^c , Mohammed A. Fayad ^a , Thaar M. Aljuwaya ^d
<u>Utilizing the dangled jute cords, reflectors, and condensation cycle to improve the double sloped distiller performance</u>	Wissam H. Alawee ^a , Suha A. Mohammed ^b , A.S. Abdullah ^{c d} , Ali Basem ^e , Alaa Dhari Jawad Al-Bayati ^f , Z.M. Omara ^g , Fadl A. Essa ^g
<u>Achieving better thermo-enviro-economic performances of modified cords pyramid distiller with various arrangements of baffles, reflectors, and vapor extraction</u>	Fadl A. Essa, Wissam H. Alawee, A. S. Abdullah, Suha A. Mohammed,

**Research published within the topics of sustainable development for the academic year
2024 - 2023**

	Ali Majdi & Z. M. Omara
<u>Enhancement of PV/T Solar Collector Efficiency Using Alumina Nano particles Additives</u>	Basam A. Shallal Engin Gedik Hasanain A. Abdul Wahhab* Louay Abd Al-Azez Mahdi Miqdam T. Chaichan
<u>Enhancement of the properties of solar cells fabricated by cadmium oxide deposited on porous silicon</u>	Raghad R. Mahdi Samier A. Maki Hind A. AL Salihi Marwa K. Abood Raghad J. Halbos Ruqia Abdulhussien Hassan M. A. Fayad
<u>Study Some Properties of Solar Cell Fabricated by Deposited Cadmium Oxide on Pours Silicon in Three Different Temperatures</u>	Raghad R. Mahdi Samier A. Maki Hind A. AL Salihi Marwa K. Abood Raghad J. Halbos Ruqia Abdulhussien Hassan M. A. Fayad
<u>In Tube Condensation: Changing the Pressure Drop into a Temperature Difference for a Wire-on-Tube Heat Exchanger.</u>	Louay Abd Al-Azez Mahdi, Mohammed A. Fayad and Miqdam T. Chaichan*
<u>Enhancement of PV/T Solar Collector Efficiency Using Alumina Nanoparticles Additives</u>	Basam A Shallal Engin Gedik Hasanain A. Abdul Wahhab Abd Louay Louay Abd Al-Azez Mahdi

**Research published within the topics of sustainable development for the academic year
2024 - 2023**

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<u>Flow Patterns in Wire-on-Tube Heat Exchangers Based on Various Low Refrigerant Mass Flow Rates</u>	Louay Abd Al-Azez Mahdi Mohammed A. Fayad Miqdam T. Chaichan
<u>Design Considerations for BIPV Systems in Oman</u>	Hussein A. Kazem, Ali H. A. Al-Waeli, Miqdam T. Chaichan & K. Sopian
<u>Evaluating the techno-economic viability of different solar collectors integrated into an adsorption cooling system in tropical climate conditions</u>	Mir Hamed Hakemzadeh ^a , Kamaruzzaman Sopian ^b , Hussein A. Kazem ^c , Ali H.A. Al-Waeli ^d , Miqdam Tariq Chaichan ^e
<u>Photovoltaic Thermal Collectors with Nanofluids and Nano-PCM</u>	Ali H. A. Al-Waeli , Kamaruzzaman Sopian , Hussein A. Kazem , Miqdam T. Chaichan
<u>Performance of PV/T with Nanofluid and Nano-PCM</u>	Ali H. A. Al-Waeli, Kamaruzzaman Sopian, Hussein A. Kazem & Miqdam T. Chaichan
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**Research published within the topics of sustainable development for the academic year
2024 - 2023**

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<u>PV/T with Nanofluids and Nano-PCM</u>	Ali H. A. Al-Waeli, Kamaruzzaman Sopian, Hussein A. Kazem & Miqdam T. Chaichan
<u>Photovoltaic Thermal (PV/T)</u>	Ali H. A. Al-Waeli, Kamaruzzaman Sopian, Hussein A. Kazem & Miqdam T. Chaichan
<u>A systematic review of photovoltaic/thermal applications in heat pumps systems</u>	Hussein A. Kazem ^a , Miqdam T. Chaichan ^b , Ali H.A. Al- Waeli ^c , K. Sopian
<u>Experimental and numerical analyses of water droplet condensation on photovoltaic surfaces under clean and dusty conditions</u>	Hasanain A. Abdul Wahhab ^a , Mohammed A. Fayad ^b , Louay A. Mahdi ^b , Miqdam T. Chaichan ^b , Hussein A. Kazem ^c , Ali H.A. Al- Waeli ^d
<u>Performance enhancement of photovoltaic/thermal collector semicircle absorber tubes using nanofluid and NPCM</u>	Muayad M. Maseer ^a , Firas Basim Ismail ^{b c} , Hussein A. Kazem ^{c b} , Dhafer Manea Hachim ^d , Kumail Abdulkareem Hadi Al- Gburi ^a , Miqdam T. Chaichan ^e

**Research published within the topics of sustainable development for the academic year
2024 - 2023**

<u>Optimal Sizing Techniques for Hybrid Photovoltaic Systems Using Artificial Neural Networks (ANNs): A Review Paper</u>	Ali H. A. Al-Waeli, Anita Askander, Hussein A. Kazem & Miqdam T. Chaichan
<u>Performance evaluation of solar photovoltaic/thermal system performance: An experimental and artificial neural network approach</u>	Hussein A. Kazem ^a , Miqdam T. Chaichan ^b , Hussain Saad Abd ^c , Ali H.A. Al- Waeli ^d , Maytham T. Mahdi ^b , Hilal H. Fadhil ^a , Izzeldin I. Mohd ^a , Anees A. Khadom ^e
<u>Study Some Properties of Solar Cell Fabricated by Deposited Cadmium Oxide on Pours Silicon in Three Different Temperatures</u>	Raghad R. Mahdi Samier A. Maki Hind A. AL Salihi Marwa K. Abood Raghad J. Halbos Ruqia Abdulhussien Hassan M. A. Fayad
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<u>Evaluation of Grid-Connected Photovoltaic System in Harsh Weathers</u>	Sanaa A. Hafad , Ahmed Q. Salam Mohammed A. Fayad Slafa I. Ibrahim Shaimaa B. Al-Baghdadi Hasanain A. Abdul Wahhab
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Research published within the topics of sustainable development for the academic year
2024 - 2023

<u>materials, design, and performance</u>	M. Shaker & Ahmed Alamiery
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