

البحوث المخططة 2024-2023																									
ت	ID	المعرف في مواقع الترتيبين	الاسم	عنوان البحث	ملخص البحث	المشاركين	المحل المعرفي للبحث	نطاق البحث	نوع البحث	الجهة المستقبلة	تاريخ البدء	التاريخ المخطط لانجاز البحث	نمى لاجاز البحث لتاريخ	حالة البحث	رابط المجلة	مجلة البحث	العدد	سنة النشر	issn	اسم المجلة	ملف المصنفة	الملاحظات			
1	135	1456	أ.د.صلاح مهدي صالح عطية العوادي	Monitoring melting of glazed block of paraffin wax in solar environment	In this work, a glazed block of paraffin was monitored during melting to check its ability to supply energy after sunset. Different thicknesses for paraffin and heat fluxs were tested numerically using finite volume and SIMPLE algorithm to solve enthalpy energy equation for the glass and paraffin.	2- احمد حكمت جاسم 3- د. جلال محمد جليل	علوم هندسية	عام	اكاديمي		2023-09-01	2024-01-09	90			يخدم سوق العمل						Under review			
2	137	1456	أ.د.صلاح مهدي صالح عطية العوادي	Discrete heating of turbulent FSI in a vented lid-driven enclosure	In this work, the fluid-structure interaction with mixed convective in a lid-driven enclosure was studied numerically. The coolant enters the cavity from an inlet port made in the left flexible wall, while it leaves from another port fixed in the opposite wall. The roof of the cavity moves four times greater than the inlet velocity to support the convection process. The k-ε turbulent model together with the interaction of the fluid with the flexible wall are solved numerically using the method of finite element. The main parameters such as; Re, Ri number influence on thermal-hydraulic behaviors of mixed convection have been investigated.	2-استاذكتور اناذ مقرر عبدالمجول السماعيل 3-د.دنى طارق يامين مدرس-اكثورة	علوم هندسية	علم	اكاديمي		2023-09-01	2024-01-09	100	published	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0735193324006729">https://www.sciencedirect.com/science/article/abs/pii/S0735193324006729</a>	يخدم سوق العمل	158	November 2024			0735-1933		البحث منشور		
3	259	2546	د. عبدالله علي جابر حسين الحسيني	Advanced Gender Detection Using Deep Learning Algorithms Through Hand X-Ray Images	Identifying the gender, race, age, and stature of the target during the forensic inquiry is a critical stage in various events such as accidents, bombings, terrorism, wars, and disasters. In this paper, an application has been developed that uses hand X-rays to identify and determine gender for medical applications such as special cases where diagnosing the gender is difficult, like accidents in which the hand is amputated and unknown, severe burns, and in old skeletal structures using deep learning models. For comparative purposes, GoogLeNet and ResNet-18 were employed. Gender determination using hand X-rays yielded positive results. The accuracy of gender detection in the model GoogLeNet (validation, training, test, and total) is (76.67%, 96.68%, 53.33%, and 89.5%) respectively, while the accuracy of gender detection in the model ResNet-18 (validation, training, test, and total) are (80%, 99.29%, 87.5%, 94.63%) respectively. The ResNet-18 model was adopted as the best model for gender detection and determination because high results were obtained. Simulation results showed acceptable results with high accuracy in diagnosis, where the highest gender determination accuracy was achieved through hand	عبدالله علي جابر-دكتوراه-مدرس - abdullah.ali@atu.edu.iq علي كريم عباس - دكتوراه - مدرس - - ; ali.abbas@atu.edu.iq زهراء هاشم كريم اجامعة المستقبل- بكتوراه - مدرس - - - Zahraa.hashim@mustaqbal college.edu.iq رامي هاشم هاشم اجامعة المستقبل - بكتوراه - مدرس - - - rami.qayis@mustaqbal college.edu.iq جيدو العاملي كلية الطب الجامعة - ماجستير - مدرس مساعد - - halla@unc.edu.iq - hayder alghammi@halla-unc.edu.iq غادة علي شبيب - ماجستير - مدرس مساعد - - ; ghada.shadeed@gmail.com	علوم هندسية	علم	اكاديمي		2023-07-15	2023-12-15	100	published	<a href="https://ieeexplore.ieee.org/document/10469420">https://ieeexplore.ieee.org/document/10469420</a>	عن التنمية المستدامة				سكريبس	18-12-2023				البحث منشور
4	260	2546	د. عبدالله علي جابر حسين الحسيني	Front Teeth Disease Detection and Classification Using Deep Learning Algorithm	The study progresses artificial intelligence (AI) model classification of images of the front tooth sites to detect and group together dental inflammation and healthy.	- عبدالله علي جابر - دكتوراه - مدرس - - abdullah.ali@atu.edu.iq علي كريم عباس(كلية التقنية الهندسية)المسبب - دكتوراه - مدرس - - ; ali.abbas@atu.edu.iq	علوم هندسية	علم	اكاديمي		2023-06-15	2024-01-09	85			عن التنمية المستدامة									
5	261	1328	د.عادل عبد عزيز عويان	Boosting storage collector efficiency with new corrugated absorbers: A numerical simulation approach	This paper presents a numerical investigation of the performance of a rectangular storage solar collector with three different absorber plate shapes: smooth, parabolic, and triangular. The research employs three-dimensional, unsteady modeling using COMSOL software version 5.5 to simulate a solar storage collector system in Kufa-Najaf's climatic conditions. Two days in November and July were selected to evaluate the system's performance under various atmospheric conditions. The results showed that the highest water temperature for a no-load condition was 36.2 °C in November and 51.7 °C in July. For a triangular corrugation absorber storage collector under load, the largest temperature difference between the outflow and inflow temperatures was 14.9 °C at 1 p.m. and 11.9 °C at sunset in November, while the maximum temperature difference was 13.4 °C at 4 p.m. in July. The study also found that the total efficiency of the triangular corrugation absorber storage collector was higher than that of the other designs, and generally, the total efficiency tends to be low	محمد جاسم صالح - دكتوراه - استاذ مساعد - 07801710326 - mohammedj.alshukry@uokufa.edu.iq	علوم هندسية	علم	اكاديمي		2022-08-20	2023-10-01	100	published	<a href="https://doi.org/10.1016/j.clet.2023.100716">https://doi.org/10.1016/j.clet.2023.100716</a>	عن الطاقة المتجددة	18	كلاريفيت	22/12/2023		2666-7908				





											99	2024-01-09	2023-09-01	تطبيقي	عام	علوم صرفة	مريم امين علوي جوراء صاحب ابو حمد	In this research we investigate the concept of weakly lambda ideal maps in ideal bitopological space by using the concept of lambda ideal open set	Study on weakly lambda ideal maps	مريم امين علوي	2550	306	20
											80	2024-01-09	2023-02-01	كلامي	دراسات عليا	علوم هندسية	عمران مهدي حاتم - دكتوراه - مدرس - 1669 794 0781 - 2023ghl@atu.edu.iq عمر فاضل - ماجستير - مدرس مساعد - 07711965181 P117813@siswa.ukm.edu.my :- MANDEEP SINGH - دكتوراه - :- MOHD HAFIZ BIN :- SAMIR SALEM OMAIR - دكتوراه - :- MOHAMMED TARIQUL :- ISLAM - دكتوراه - :-	This paper present different enhancement techniques for massive MIMO antennas by designing MIMO array antenna with metamaterial for 5G Millimeter Wave	Enhancement Techniques for Massive MIMO Antennas in 5G Millimeter Wave Base Stations: A Review	عمران مهدي حاتم	1097	367	21
											70	2023-12-31	2023-09-30	تطبيقي	عام	أخرى	فاطمة حسين عبدالله عبدالرضا - ماجستير - مدرس مساعد - 07803849096 :fatema.albukaa@atu.edu.iq لالا سعد عبد الزهرة - ماجستير - مدرس مساعد - :dalacl20175@gmail.com شادي حيدر - ماجستير - مدرس مساعد - Shatha.haider1994@uomustansiriyah.edu.iq زهراء الحسيني - ماجستير - مدرس مساعد - :zalhraaahusainy@hail-unc.edu.iq محمد ايك الخفاجي - ماجستير - مدرس مساعد - :- رجمن زبيدة - دكتوراه - مدرس - :-	In this research, some new topological properties about the regular rotational movement of RNA and DNA were studied, and these properties were studied in one of the cells inside the liver programmatically using Lab program, based on some mathematical equations for the level of concentration change in RNA and DNA.	The Effect of Topological Properties on The Rotational Movement of DNA and RNA by Using Genetic Algorithms	فاطمة حسين البكاء	2514	409	22

يتم إنجاز هذا البحث مع قسم الهندسة الكهربائية – جامعة صلاحيا – عائلوريا في مختبرات الليونة (photonics labs)	08952477, 10982760	Accepted: 14 December 2023	no 66 Is	عن التنمية المستدامة	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/mop.34002">https://onlinelibrary.wiley.com/doi/abs/10.1002/mop.34002</a>	published	100	2024-01-09	2023-09-01	اكاديمي	عام	علوم هندسية	<p>Salam Mahdi Azooz - نكتوراء - 07801410077 - <a href="mailto:salamazooz@atu.edu.iq">salamazooz@atu.edu.iq</a>;</p> <p>نكتوراء - Sameer Salam - 07705379901 - <a href="mailto:Sameer.salam@isadiq.edu.iq">Sameer.salam@isadiq.edu.iq</a>;</p> <p>نكتوراء - Bilal Nizam - <a href="mailto:bnizamani@um.edu.my">bnizamani@um.edu.my</a>;</p> <p>نكتوراء - Turki Ali Alghamdi - <a href="mailto:taghamdi@uqu.edu.sa">taghamdi@uqu.edu.sa</a>;</p> <p>نكتوراء - Afq Arif Aminuddin Jafry - <a href="mailto:afqarif.fst@gmail.com">afqarif.fst@gmail.com</a>;</p> <p>نكتوراء - Pei Zhong - <a href="mailto:68394387@qq.com">68394387@qq.com</a>;</p>	<p>A 1089 nm Q-switched laser has been successfully developed by using a neodymium-doped fiber (NDF) as a gain medium and tin oxide (SnO2) material as a saturable absorber (SA). The SnO2 SA was obtained by embedding the compound into a polyvinyl alcohol (PVA) host polymer so that it can be easily integrated into an NDF laser (NDFL) configuration to modulate the cavity loss for pulsing operation. The laser output pulse duration and repetition rate changed from 6.7 to 4.2 μs and from 55.8 to 72.5 kHz, respectively, when the 808 nm pumping power increased from 160.0 to 252.7 mW. The laser exhibited a stable output since we recorded a signal-to-background noise ratio of 46.4 dB. We believe that this work is the first to address SnO2 as SA in an NDFL cavity.</p>	Tin oxide as a Q-switcher in an Nd-doped fiber laser	سلام مهدي عزوز	1744	567	26	
	2.7E+07	1/5/2024	سكوبس	22	عن الطاقة المتجددة	<a href="https://www.sciencedirect.com/science/article/pii/S2662027240011377?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S2662027240011377?via%3Dihub</a>	published	100	2024-01-09	2023-03-02	اكاديمي	دراسات عليا	علوم هندسية	<p>نكتوراء - Ahmed Mohsin Alsayah - 7488 348 780 964+ - <a href="mailto:adelabel77@gmail.com">adelabel77@gmail.com</a>;</p>	<p>An experimental study was conducted to investigate the impact of evaporative cooling on heat recovery within HVAC systems. This study involved the development of a specialized test rig comprising two air passages connected by a wickless heat pipe heat exchanger (wickless HPHE). Additionally, an evaporative cooling pad was integrated into the cold air return duct. The evaporative cooling process effectively lowered the temperature of the cold air, which was subsequently directed through the wickless HPHE condenser. This occurred at a variable mass flow rate ratio, in contrast to the constant mass flow rate of warm air passing through the wickless HPHE evaporator section. The study encompassed a range of mass flowrate ratios, specifically 1, 1.5, and 2. The thermosiphon heat pipe was charged with acetone at a 60% filling ratio. The results clearly demonstrated that evaporative cooling played a pivotal role in enhancing the heat exchanger's performance. Notably, the temperature differential observed in the wickless HPHE evaporator surpassed that in the HPHE condenser, primarily due to the influence of evaporative cooling. The highest temperature difference recorded in the HPHE evaporator was 1.7.89°C. Indication of</p>	The Augmentation of the heat recovery by using evaporative cooling in HVAC applications: experimental study	د.عادل عبد عزيز عويان	1328	622	27
				يخدم سوق العمل			97	2024-01-09	2023-01-09	اكاديمي	عام	علوم هندسية	<p>علي محمد سعيد ومن كاظم سعيد</p>	<p>تساعد هذه الدراسات أبحاث شبكات الهاتف المحمول (MNOs) على تحسين قدرات شبكة MBB ليلية شبكات المحمول المتكاملة. إذ تخلق أداء MBB الموجودة في العراق بناءً على البيانات الخارجية ومؤشرات قياس الأداء المختلفة وسهاريوهات التنفيذ الموصمة في هذه الورقة</p>	Assessment of MBB Outdoor Cellular Network in Iraq using real quantitate Datae	قسمي جليل كاظم	2570	623	28	
		9/9/2024	علمي	عن الطاقة المتجددة		accepted	100	2024-01-09	2023-09-01	اكاديمي	دراسات عليا	علوم هندسية	<p>حسنان علي حميد - - استاذ - 07801315063 - <a href="mailto:hassanain.hameed@atu.edu.iq">hassanain.hameed@atu.edu.iq</a>;</p> <p>منظر محمد علي - ماجستير - 07810882018 - <a href="mailto:alshahlanimesat@gmail.com">alshahlanimesat@gmail.com</a>;</p>	<p>several modified designs were examined. Studies have shown that the use of a Fresnel lens combined with a single-slope single trough gives the best possible productivity improvement of about 638.02%.</p>	A review of techniques to increase the productivity of different types of solar stills	ا.د. اسعد عواد عباس	2544	624	29	
				عن الطاقة المتجددة		send	98	2024-04-01	2023-09-01	اكاديمي	دراسات عليا	علوم هندسية	<p>عادل عبد عزيز عويان - نكتوراء - استاذ - 07702687817 - <a href="mailto:inj.adel@atu.edu.iq">inj.adel@atu.edu.iq</a>;</p> <p>علي كريم محمد سامت - بكالوريوس - 07830760327 - <a href="mailto:ali.alayashi.1998@gmail.com">ali.alayashi.1998@gmail.com</a></p>	<p>Literature survey about using optical analysis for concentrated solar power in solar reactors.</p>	Numerical and Optical Analysis of Solar Reactors Using Monte Carlo (MC) Ray Tracing Method: Review	ا.د. اسعد عواد عباس	2544	625	30	
	2391-5439	2024/4/11	سكوبس	14(1)	عن الطاقة المتجددة	<a href="https://doi.org/10.1515/eng-2024-0001">https://doi.org/10.1515/eng-2024-0001</a>	published	100	2024-01-09	2023-09-01	اكاديمي	عام	علوم هندسية	<p>عادل عبد عزيز عويان - نكتوراء - استاذ - 07702687817 - <a href="mailto:inj.adel@atu.edu.iq">inj.adel@atu.edu.iq</a>;</p> <p>عمار ابراهيم عبد - الجامعة الإسلامية - نكتوراء - استاذ مساعد - محمد جاسم صالح - نكتوراء - استاذ مساعد - <a href="mailto:mohammedj.alshukry@uolkuifa.edu.iq">mohammedj.alshukry@uolkuifa.edu.iq</a></p>	<p>This work presents a methodology to suppress the vibration in smart composite beam by implementing model predictive controller (MPC) and nonlinear system identification algorithm.</p>	Vibration Suppression of smart composite beam using model predictive controller (MPC)	ا.د. اسعد عواد عباس	2544	626	31



			1		2024	سكوباس	17			published	100	2024-01-09	2023-01-09	تطبيقي	عام	علوم طبية	Muad07809039153 مؤيد محمد عبدكروامدرس yad.m@atu.edu.iq سارة مهدي sara07732957644عبدكروامدرس h.obaid.cn@atu.edu.iq دعاء عبد Dua07711102498ساليكروامدرس a.A.salim@uomustansiriyah.edu.iq	تتضمن الدراسة جمع عينات دم مرضى الفشل الكلوي من غير المدخنين وحساب تركيز اليورانيوم والراديو و الرادون والجدد العنقدة بين تلك التراكيز وبين مرض الفشل الكلوي	Measurements of Alpha Emitters concentration(222Rn, 226Ra, and 238U) in blood samples of patients with renal failure of non-smokers in Najaf city/Iraq	مؤيد محمد عبد السعوري	2498	1207	39
								يخدم سوق العمل			70	2024-01-09	2023-01-09	اكاديمي	عام	علوم صرفة	Muad07809039153 مؤيد محمد عبدكروامدرس yad.m@atu.edu.iq سارة مهدي sara07732957644عبدكروامدرس h.obaid.cn@atu.edu.iq دعاء عبد Dua07711102498ساليكروامدرس a.A.salim@uomustansiriyah.edu.iq	تتضمن الدراسة دراسة خواص نظائر العنصر الثقل التوريوم وأهميتها في المجال الطبي والتطبيقي	Study of some of the nuclear properties for Th-90 radioactive isotopes	مؤيد محمد عبد السعوري	2498	1208	40
								يعالج مشاكل المجتمع			63	2024-10-18	2023-10-18	تطبيقي	عام	علوم طبية	لوث الشريف \ مستشفى الكفيل - دكتوراه : - اخرى - : - جود جود كرموش \ مستشفى الحسين - : - دكتوراه - -	tissue samples from people with hashimoto are analyzed for alpha emission rate. the CR-39 detector is used to determine the alpha emissions that are present in tissue samples of patients by finding their percentage	radiological level in thyroid tissue samples for patients with hashimoto disease	شورين ناظم كاظم	2562	1231	41
								يعالج مشاكل المجتمع			95	2024-09-18	2023-01-05	تطبيقي	دراسات عليا		هوام ناظم هادي\ جامعة الكوفة - دكتوراه : - استاذ - -	blood samples from people with thyroid diseases are analyzed for alpha emission rate [Et]. The CR-39 detector technique is used to determine the alpha emissions that are present in blood samples of patients by finding their percentage.	assessment of alpha emitters in blood for patients with thyroid diseases by CR-39 technique	شورين ناظم كاظم	2562	1232	42
		1558-1748		19/9/2024	سكوباس	24.3466	علمي	<a href="https://ieeexplore.ieee.org/abstract/document/10684475">https://ieeexplore.ieee.org/abstract/document/10684475</a>	published	100	2024-01-09	2023-01-09	اكاديمي	عام		احمد عدنان وهاب - ماجستير - مازس - - 07803206411 :ahmedadnan@atu.edu.iq سارة جبار غازي - ماجستير - مازس - 07804123230 :sarahj.almayali@uokufa.edu.iq رافد عبدالجبار يوسف - دكتوراه - استاذ - 5271 984 89 353+ :raed.malahab@uocd.ic احمد عدنان وهاب - ماجستير - مازس - 07803849744 :amjed.wahhab.ecn@atu.edu.iq	A Multi-Band Microwave Sensor Designed to Sense the Shelf-Life of Raw Fresh Milk	احمد عدنان وهاب	2555	1251	43		
											65	2024-01-12	2023-01-08	اكاديمي	عام	علوم هندسية	وسن كاظم سعد - دكتوراه - استاذ مساعد - was - 07829449939 :saad@atu.edu.iq علي محمد سعد - ماجستير - استاذ - 07801426897 :Aliahsahlany@atu.edu.iq : - - - - ابراهيم شامي - دكتوراه - استاذ مساعد - +905384473626 :ibr.shayes@gmail.com	This paper investigates the performance of different ITU models in predicting Malaysia's tropical rainfall rates and rain attenuation to theoretically calculate losses in a 5G wireless broadband link.	Quantifying Rain Attenuation Impact on Millimeter Wave Signals in Future 5G Networks: A Case Study in a Tropical Area - Malaysia	وسن كاظم سعد	1114	1303	44
		0199-6231		May 19, 2023	سكوباس	145(5)	عن الطاقة المتجددة	<a href="https://doi.org/10.1115/1.4062483">https://doi.org/10.1115/1.4062483</a>	published	100	2023-04-04	2023-01-04	اكاديمي	عام	علوم هندسية	Nesrin Ozalp - دكتوراه - استاذ - 12197308572 nozalp@ilstu.edu;	Despite the significant potential of solar thermochemical process technology for storing solar energy as solid-state solar fuel, several challenges have made its industrial application difficult. It is important to note that solar energy has a transient nature that causes instability and reduces process efficiency. Therefore, it is crucial to implement a robust control system to regulate the process temperature and tackle the shortage of incoming solar energy during cloudy weather. In our previous works, different model-based control strategies were developed namely a proportional integral derivative controller (PID) with gain scheduling and adaptive model predictive control (MPC). These methods were tested numerically to regulate the temperature inside a high-temperature tubular solar reactor. In this work, the proposed control strategies were experimentally tested under various operation conditions	Experimental Performance of a Nonlinear Control Strategy to Regulate Temperature of a High-Temperature Solar Reactor	ا.د. اسعد عواد عباس	2544	1395	45	

ملاحظات:  
الجدول يبدأ بالتسلسل (1): للباحث: إ.د.صلاح مهدي صالح عطية العو و ينتهي بالتسلسل(13): للباحث: إ.د. اسعد عواد عباس

امضاء معاون العميد العلمي:  
اسم معاون العميد العلمي :

التاريخ : / / 2024

امضاء المسؤول عن الخطة البحثية:  
اسم المسؤول عن الخطة البحثية : ثناء حسن يوسف

التاريخ : / / 2024

نسبة الانجاز للمخطط فقط	
20	البحوث المنشورة
1	البحوث المقبولة للنشر
45	مجموع البحوث الكلي مخطط
44%	نسبة الانجاز المنشورة
46%	نسبة الانجاز المنشور و المقبول للنشر