

## البحوث المنشورة لأخر خمس سنوات قسم الطاقات الجديدة والمتجددة

اسم المجلة	سنة النشر	أسماء الباحثين	عنوان البحث	ت
International Journal of Research in Pharmaceutical Sciences	2019	Ebtehag Zeki Sulyman, Hamid A. Salih Thaer Abed Hallow	Preparation of a polymeric aggregate of unsaturated Poly ester with sawdust and studying its physical and mechanical properties	1
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019	Abdelrahman B. Fadhil, Lubna A. Saleh & Duaa H. Altamer	Production of biodiesel from non-edible oil, wild mustard ( <i>Brassica Juncea</i> L.) seed oil through cleaner routes	2
Malaysian Journal of Science	2019	Anwar M. Ezzat, Bassam M. Mustafa and Mohammad M. Uonis.	EFFECT OF HEAT AND LIGHT ON ELECTRICAL PROPERTIES OF SI-CNT JUNCTION	3
International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	Neam M.T. Al-Layla, Duaa H. Altamer, Saba H. Sedeeq.	Biodiesel Production from Wild Mustard ( <i>Brassica Juncea</i> L.) Seed Oil through Co- Solvent Method at Room Temperature	4
Egyptian Journal of Chemistry	2019	Maimoonah Khalid Qasim	Modified Nanostructure MgO Super basicity with CaO in Heterogeneous Transesterification of Sunflower Oil	5
Journal of Basic Education college,	2019	Assist. Prof. Thana Y. Yousif	Synthesis and Characterization of New Metal Ions Mn(II),Co(II),Ni(II),Cu(II),Zn(II ) and Cd(II) Complexes With (E)-1-(1-(furan-2-yl) ethylidene amino) anthracene-9,10-dione Ligand and Evaluation of Their Biological Activities	6
Chemometrics and Intelligent Laboratory Systems	2020	Zakariya Yahya Algamal, Maimoonah Khalid Qasim, Muhammad Hisyam Lee, Haithem Taha Mohammad Ali	High-dimensional QSAR/QSPR classification modeling based on improving pigeon optimization algorithm	7

SAR and QSAR in Environmental Research	2020	Z.Y. Algamal , M.K. Qasim , M.H. Lee & H.T.M. Ali	QSAR model for predicting neuraminidase inhibitors of influenza A viruses (H1N1) based on adaptive grasshopper optimization algorithm	8
College of Basic Education Researchers Journal	2020	Assistant Professor Thana Y. Yousif Assistant Professor Ala I. Ayoub	PREPARATION OF SOME NEW ORGANOTELLURIUM COMPOUNDS DERIVED FROM 4,4-DIHYDROXY AZOBENZENE	9
2nd International Conference on Materials Engineering & Science	2020	A.M. Alsheikh and A. A. Issa,	Theoretical Study of Bulk and Nanomaterials under High Pressure	10
Asian Journal of Chemistry	2020	LAMYA A. SARSAM, SALIM A. MOHAMMED and SAHAR A. FATHE	Spectrophotometric and RP-HPLC Methods for Determining Cefotaxime Sodium in Pharmaceutical Preparations	11
International Journal of Science, Engineering and Technology	2020	Iman Ahmed Younus, Anwar M. Alfaidhi, Mohammad M. Uonis	Temperature and Periods of Annealing Effect on ZnTe Energy Gap	12
<i>Int. J. Nuclear Energy Science and Technology</i>	2020	Malik H. Kheder	Radioactivity concentrations in barley and wheat crops in Nineveh plain region in Iraq	13
International Journal of Advanced Science and Technology	2020	Zakaria A. Hamed, Ibraim M. Ahmed, Siddeeq Y. Ameen	Protecting Windows OS Against Local Threats Without Using Antivirus	14
International Journal of Advanced Science and Technology	2020	Mohammed Kh. Altalib, Zakaria A. Hamed, Ali M. Ahmed	Leaf Image Retrieval Based on Many Types of Queries	15
Egyptian Journal of Chemistry	2020	Zainab Waleed. Majed, Said Abdelqader Said, Omar Adil Shareef	Synthesis and Kinetic Study for the Interconversion Process of Some 2'-Hydroxychalcones to their Corresponding Flavanones	16

<i>Iraqi Journal of Science</i>	2020	Saad Hasani Sultan, Zainab Walid Majed	Spectrophotometric Determination of Bromhexine Hydrochloride in Its Pharmaceutical Preparations by Diazotization and Coupling Method	17
Chemometrics and Intelligent Laboratory Systems	2020	Zakariya Yahya Algamal , Maimoonah Khalid Qasim , Muhammad Hisyam Lee , Haithem Taha Mohammad Ali	High-dimensional QSAR/QSPR classification modeling based on improving pigeon optimization algorithm	18
SAR and QSAR in Environmental Research	2020	Z.Y. Algamal , M.K. Qasim , M.H. Lee & H.T.M. Ali	QSAR model for predicting neuraminidase inhibitors of influenza A viruses (H1N1) based on adaptive grasshopper optimization algorithm	19
Iraqi Journal of Science	2021	Basheer Khaleel Ahmed, Ghada Ghanim Younis *, Zakria Abdalwahid	Estimation and Analysis of Solar Radiation on Horizontal and Inclined Surface for Baghdad City	20
Iraqi Journal of Science	2021	Basheer Khaleel Ahmed, Ghada Ghanim Younis *, Zakria Abdalwahid	Estimation and Analysis of Solar Radiation on Horizontal and Inclined Surface for Baghdad City	21
Iraqi National Journal of Earth Sciences, Vol. 21, No. 1, pp. 1-16, 2021	2021	Ghada Ghanim Younis Sabah Hussein Ali*	Selection of the Optimum Sites for the Wind Turbines Installation in Nineveh Governorate by using GIS	22
1ISSN: Online 2663-1407, Print 2663-1393; National Library of Libya, Legal number: 390/2018	2021	Eman S. Mahmooda, Luay A. Al-Helalyb,*, Thana Y. Yousifc	Studying of some proteins levels and enzymes activities in the amniotic fluid for pregnant associated with premature birth.	23
Journal of Analytical and Applied Pyrolysis	2021	Duaa H. Altamer a, *, Asmaa N. Al-Irhayim b , Liqaa I. Saeed c	Bio-based liquids and solids from sustainable feedstock: Production and analysis	24
Egyptian Journal of Chemistry	2021	Sara Khalid Saeed*, Asaad Faisal Khattab	Functionalizing of Waste Tire Rubber with Active Functional Groups	25

Egyptian Journal of Chemistry	2021	Said Abdelqader Said1*, Omar Adil Shareef 2 , Zainab W. Majed3	Theoretical Study for Isomerization of Some 2'-Hydroxychalcone Derivative by Using DFT Calculation	26
Iraqi Journal of Science	2021	Basheer Khaleel Ahmed, Ghada Ghanim Younis *, Zakria Abdalwahid	Estimation and Analysis of Solar Radiation on Horizontal and Inclined Surface for Baghdad City	27
International Journal of Science, Engineering and Technology	2021	Mohammad M. Uonis, Prof. Dr. Anwar M. Ezzat, Prof. Dr. Bassam M. Mustafa	Optical Properties of Carbon Nano Layer Prepared by Plasma Sputtering from Wasted Batteries	28
International Journal of Thin Films Science and Technology	2021	Anwar M. E. Al-Faidhi *, Bassam M. Mustafa and Mohammad M. Uonis	The Effect of Sputtering Current and Carbon Layer Thickness on the C-V Characteristics of Si-CNT	29
NeuroQuantology	2022	Adnan. Alsheikh, Assim. A Issa.	/ Theoretical high-pressure study for bulk and nano carbon using different EOSs	30
Conference: 1ST SAMARRA INTERNATIONAL CONFERENCE FOR PURE AND APPLIED SCIENCES (SICPS2021): SICPS2021	2022	Edrees E. Ghadeer1,a), Rana Zeyad Abdulfattah Al-fulayih2,b) and Zahraa Badie Ibraheem1,c	Study of the effect of adding glass and carbon powders on optical behavior of unsaturated polyester resin	31
Pollution	2022	Rana Hesham Mahmmod1   Laith A. Najam2   Taha Yaseen Wais3   Howaida Mansour 4	Assessment of the Pollution of some Heavy Metals in the Sediments of the Tigris River in the City of Mosul-Northern Iraq	32
Chalcogenide Letters	2022	N. A. Saeeda* , M. M. Uonisb	Preparation of zinc telluride thin films using chemical bath deposition	33
International Journal of Environmental Analytical Chemistry	2023	Shahla A. Younis, Saad F. Mahmood, Shaimaa Y. Ibraheam & Abdelrahman B. Fadhil	Preparation, characterization, and desulfurization performance of the activated carbon prepared from mixed agro-wastes: an isothermal and kinetic study	34

Journal of the Turkish Chemical Society Section A: Chemistry	2023	duaa Rana H. Al-Hyali <sup>1</sup> , Wael A. Alqazzaz <sup>1</sup> , Duaa H. Altamer <sup>2,*</sup>	Adsorptive Elimination of Methyl Orange Dye over the Activated Carbon Derived from Bitter Almond Shells: An Isothermal, Thermodynamic, and Kinetic Study	35
Iranian Journal of Science and Technology, Transactions A: Science	2023	Laith A. Najam <sup>1</sup> • Rana Hesham Mahmmod <sup>2</sup> • Osama Mohammed Juber Albanna <sup>3</sup>	Evaluation of Natural Radionuclides in Samples of Plant Fertilizers Used in Iraq and Radiation Hazard Indicators	36
Journal of Intelligent Systems	2023	Zakaria A. Hamed Alnaish and Zakariya Yahya Algamal <sup>*</sup>	Improving binary crow search algorithm for feature selection	37
International Journal of Scientific Research in Science and Technology	2023	Barzan Kh.Qassim <sup>1</sup> , Mohammad M. Uonis <sup>2</sup> , Erada A. Khaleel	The Optical and Structural Properties of CdS Nano particles Prepared By Spray Pyrolysis Technique	38
Digest Journal of Nanomaterials and Biostructures	2023	M. A. Abeda , M. M. Uonis <sup>b*</sup> , G. G. Alic , I. B. Karomid	Deposition and characterization of carbon nanotubes on porous silicon by PECVD	39
Nanosistemi, Nanomateriali, Nanotehnologii	2023	Zahraa badie ibraheem Mohammed Mahmmod Mazin Ahmed Abed	Determination of Output Power of Si–CNT Solar Cell	40
International Journal of Scientific Research in Science and Technology	2023	Khalil I. Alsaif <sup>1</sup> Nagham Salim Allella	Lips Reading Spoken Arabic Word Based on The Geometric Shape Features of The Lip	41
IEEE	2023	Zakaria A.Hamed Alnaish Safwan O. Hasoon	A Comparison of Classification Algorithms for Software Defect Prediction	42

IAPGOŚ	2023	Zakaria A. Hamed Alnaish Safwan O. Hasoon	HYBRID BINARY WHALE OPTIMIZATION ALGORITHM BASED ON TAPER SHAPED TRANSFER FUNCTION FOR SOFTWARE DEFECT PREDICTION	43
ARTYKUŁ NAUKOWY / RESEARCH ARTICLE	2023	BARZAN KH. QASSIM, MOHAMMAD M. UONIS, ERADA A. KHALEEL	Effect of substrate temperature on the optical and structural properties of CdS nano particles	44
Chemical Engineering Technology	2024	Luban A. Saleh <sup>1</sup> Neam M. T. Al-Layla <sup>2</sup> Sara K. Saeed <sup>1</sup> Mawra H. Altamer <sup>3</sup> Abdelrahman B. Fadhil <sup>2,*</sup>	Co-Pyrolysis of a Binary Blend of Solid Biowastes in a Fixed-Bed Reactor for Bio- Oil and Carbon Adsorbent Production	45
Functional Materials	2024	Rana zeyad abdulfattah Al-fulayih, Mohammad M. Uonis Edrees E. Khadeer, Anwar M. Alfaidhi	Preparation of CdTe thin films using seed Method	46
Desalination and Water Treatment	2024	Mishal W. Ibrahima, Khanec, Younis Turki Mahmooda, Axel Schulzb, Hendrik Kosslickb	Mesoporous aluminosilicate materials supported zinc oxide photocatalytic degradation of pharmaceutical pollutants	47
Energy Conversion and Management	2024	Mustafa Hussein Ibrahim Muhammed A. Ibrahim Salam Ibrahim Khather	Hydrogen solar pump in nocturnal irrigation: Asustainable solution for arid environments	48
Journal of Robotics and Control (JRC)	2024	Salam Ibrahim Khather 1 Muhammed A. Ibrahim Mustafa Hussein Ibrahim	PID Controller for A Bearing Angle Control in SelfDriving Vehicles	49

Journal of Computational Analysis and Applications	2024	Saad F. Mahmood, Sirwan K. Jalal , Raed H. AL-saqa.	High Pressure Effects on Thermo Elastic Properties of Germanium with Different Nanoparticle Size	50
International Journal of Environmental Analytical Chemistry	2024	Duaa H. Altamer, Doha Neithal Saad, Asmaa N. Al-Irhayim & Abdelrahman B. Fadhil	Batch adsorptive removal of Cr (VI) from aqueous phase using magnetic activated carbon nanocomposite prepared from walnut shells by ZnCl <sub>2</sub> -FeCl <sub>3</sub> activation	51
Chemical Engineering and Processing - Process Intensification	2024	Sara K. Saeed a, Duaa H. Altamer a, Ahmed M. Khalaf b, Abdelrahman B. Fadhil	Ultrasound-assisted adsorptive desulfurization of dibenzothiophene from model fuel on K <sub>2</sub> CO <sub>3</sub> -activated biochar	52
Chemometrics and Intelligent Laboratory Systems	2024	Aiedh Mrisi Alharthi a, Dier Hussein Kadir b,c, Abdo Mohammed Al-Fakih d,e,*, Zakariya Yahya Algamal f, Niam Abdulmunim Al-Thanoon g, Maimoonah Khalid Qasim	Improving golden jackel optimization algorithm: An application of chemical data classification	53
SAR and QSAR in Environmental Research	2024	A.M. Alharthi, D.H. Kadir, A.M. Al-Fakih, Z.Y. Algamal, N.A. Al-Thanoon & M.K. Qasim	Quantitative structure-property relationship modelling for predicting retention indices of essential oils based on an improved horse herd optimization algorithm	54