#  (( السيـــــــــــرة الذاتيـــــــــــــة((  1. المعلــــومات الشخصيــــة : ـ الاســــــــــــــــــــم : حيدر عبد الخالق خضير علوان العلوان ـ الجنـــــــــــــــــس : ذكر ـ الحالة الاجتماعية : متزوج ـ الجنســـــــــــــــية : عراقي ـ الديانة : مسلم ـ تاريخ ومكان الميلاد : 12 / 9 / 1979 ـ العنــــــــــــــــوان : كوت / دور المعهد التقني



#  E.MAIL: hayder.alalwan@mtu.edu.iq  ـ اللغة الأم : العربية ، اللغات الأخرى : الانكليزية ( قراءة ، كتابة ، تكلم ، فهم )

 **ـ اللقب العلمي: أستاذ مساعد**

 **ـ الوظيفة الحالية: رئيس قسم تقنيات الطاقة المتجددة**

 **2. الشهادات العلمية(المؤهـــــلات الأكاديمية) :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ت** | **الدرجة العلمية** **( دكتوراه، ماجستير، بكالوريوس)** | **الكلية**  | **الجامعة** | **البلد** | **سنة الحصول على المؤهل** |
| **1.** | بكالوريوس هندسة كيميائية | الهندسة | جامعة بغداد | العراق | **2002** |
| **2.** | ماجستير هندسة كيميائية | الهندسة | الجامعة التكنلوجية  | العراق | **2005** |
| **3.** | دكتوراه هندسة كيميائية | الهندسة | **جامعة ايوا** | **الولايات المتحدة الامريكية** | **2018** |

**3. الوظائف التي شغلها:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ت** | **الوظيفة** | **تاريخ الالتحاق بها** | **الكلية/الجامعة** |
| **1** | مقرر قسم أدارة المواد | **2007-2008** | **المعهد التقني- كوت/ الجامعة التقنية الوسطى** |
| **2** | مقرر قسم المساحة | **2009 -2011** | **المعهد التقني- كوت/ الجامعة التقنية الوسطى** |
| **3** | رئيس قسم الانتاج | **2018-2019** | **المعهد التقني- كوت/ الجامعة التقنية الوسطى** |
| **4** | رئيس قسم التقنيات البتروكيمياوية | **2019-2023** | **المعهد التقني- كوت/ الجامعة التقنية الوسطى** |
| **5** | رئيس قسم الطاقة المتجددة | **2023- لغاية الان** | **المعهد التقني- كوت/ الجامعة التقنية الوسطى** |

**4. الخبـــــــــــــــــــــــــــــرة (**الخبرات الاكاديمية و التخصصية)**:**

 **التدريس في التعليم العالي :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ت** | **المادة الدراسية** | **المرحلة**  | **القسم** | **الكلية / المعهد** | **السنة الدراسية** |
| **1.** | **رياضيات** | **الأولى** | **التقنيات الميكانيكية + السيارات** | **المعهد التقني - كوت** | **2006-2007** |
| **2.** | **رسم هندسي** | **الأولى** | **السيارات** | **المعهد التقني - كوت** | **2006-2007** |
| **3.** | **حاسبات** | **الأولى**  | **ادارة المواد + المساحة** | **المعهد التقني - كوت** | **2007-2008** |
| **4** | **رياضيات+ حاسبات** | **الأولى** | **المساحة** | **المعهد التقني - كوت** | **2008-2011** |
| **5** | **خصائص منتجات نفطية** | **الأولى** | **البتروكيمياويات** | **المعهد التقني - كوت** | **2019-2024** |
| **6** | **اللغة الانكليزية** | **الثانية** | **ميكانيك** | **المعهد التقني - كوت** | **2019-2020** |
| **7** | **تكرير النفط** | **الثانية** | **البتروكيمياويات** | **المعهد التقني - كوت** | **2019-2024** |
| **8** | **مشروع تخرج** | **الثانية** | **البتروكيمياويات** | **المعهد التقني - كوت** | **2019-2024** |

**5 . الـدورات و المؤتمرات و ورش العمل :**

|  |  |  |  |
| --- | --- | --- | --- |
| **ت** | **اسم الدورة/ المؤتمر/ الورشة** | **مكان الانعقاد** | **تاريخ انعقادها** |
| **الكلية**  | **الجامعة** | **البلد** |
| **1.** | دورة طرق عمليات التصنيع وتشكيل المعادن | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2021 |
| **2.** | دورة كتابة رسائل البريد الالكتروني | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2021 |
| **3.** | دورة تشغيل وصيانة أجهزة مختبر انتقال الحرارة | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2021 |
| **4.** | دورة أنظمة أدارة التعليم الالكتروني | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2021 |
| **5.** | دورة فحوصات النفط الخام | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2022 |
| **6.** | دورة السلامة المهنية | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2022 |
| **7.** | دورة كتابة البحث العلمي ونشره في المستوعبات العالمية  | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2024 |
| **8.** | المؤتمر العلمي الدولي الثاني للتخصصات الصحية والطبية –عضو لجنة تحضيرية | معهد الكوت | **الجامعة التقنية الوسطى** | **العراق** | 2021 |
| **9.** | المؤتمر العلمي الثاني للجمعية العراقية للكيمياء الحيوية السريرية–عضو لجنة علمية |  | **جامعة كومار** | **العراق** | **2021** |
| **10** | المؤتمر الدولي الاول للكيمياء–عضو لجنة تحضيرية | كلية العلوم | **جامعة واسط** | **العراق** | **2021** |
| **11** | المؤتمر الدولي للتخصصات الادارية والاقتصادية - كلية الكوت الجامعة–عضو لجنة تحضيرية |  | **كلية الكوت الجامعة** | **العراق** | **2023** |
| **12** | عضو لجنة علمية في المؤتمر العالمي حول العلوم البيئية والتطبيقات |  |  | **اليابان** | **2023** |
| **13** | متحدث رئيسي في المؤتمر العالمي للوقود والطاقة الحيوية |  |  | **امريكا** | **2022** |
| **14** | مشاركة ببحث في المؤتمر الدولي الثالث لعلوم وهندسة المواد |  |  | **ماليزيا** | **2020** |
| **15** | مؤتمر جمعية الكيميائيين الامريكية |  |  | **امريكا** | **2018** |
| **16** | مؤتمر الجمعية الامريكية للمهندسين الكيميائيين |  |  | **امريكا** | **2017** |
| **17** | المؤتمر العلمي السنوي لجامعة ايوا الامريكية |  | **جامعة ايوا** | **امريكا** | **2015** |
| **18** | مؤتمر جمعية الكيميائيين الامريكية |  | **جامعة ميزوري الامريكية** | **امريكا** | **2014** |

 **6. البـحوث و الدراسات المنجزة المنشورة:**

|  |  |  |  |
| --- | --- | --- | --- |
| **ت** | **عنوان البحث/ الدراسة** | **مفرد / مشترك** | **مجلة النشر** |
| **1.** | The Impact of Utilizing Waste Sunflower Oil as a Biodiesel Blend on Four-Stroke Engine Performance and Emissions | **مشترك** | ***Designs*** (MDPI) سكوبس Q2 |
| **2.** | Electro Oxidation Process for Wastewater Treatment in Petroleum Refineries | **مشترك** | ***Pollution* (**University of Tehran سكوبس Q3 |
| **3** | [A comparison study of methyl green removal by peroxi-coagulation and peroxi-electrocoagulation processes](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:7PzlFSSx8tAC),  | **مشترك** | ***Cleaner Engineering and Technology*** (Elsevier),سكوبس Q1 |
| **4** | [Self-healing of concrete using bacteria: Investigation of the impact of the process’s conditions](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:dhFuZR0502QC),  | **مشترك** | ***Innovative Infrastructure Solutions*** (Springer), سكوبس Q2 |
| **5** | Protection of Carbon Steel from Wear by Quenching with Nanotechnology to Use it in Dies Parts**”,**  | **مشترك** | ***Journal of Applied Engineering Science.*** سكوبس Q2 |
| **6** | Study the effect of climate elements variability on surface water runoff and infiltration rate in Babylon province by using statistical analysis,  | **مشترك** | ***International Journal of Hydrology Science and Technology***, (INDERSCIENCE), سكوبس Q3 |
| **7** | Spectroscopical Investigation of Carbon Dioxide Interactions with Transition Metal-Oxide Nanoparticles | **مشترك** | Chemical Engineering & Technology (Wiely), سكوبس Q2 |
| **8** | Identifying the Impact of Methanol-Diesel Fuel on the Environment using a Four-Stroke CI Engine,  | **مشترك** | ***Journal of Applied Engineering Science***, سكوبس Q2 |
| **9** | [Investigated kerosene-diesel fuel performance in internal combustion engine](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:Wp0gIr-vW9MC),  | **مشترك** | ***Cleaner Engineering and Technology***, (Elsevier), سكوبس Q3 |
| **10** | [Methane activation on metal oxide nanoparticles: spectroscopic identification of reaction mechanism](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:4DMP91E08xMC),  | **مشترك** | ***Particulate Science and Technology***, (Taylor &Francis), سكوبس وكلارفيت Q2 |
| **11** | [Desulfurization of heavy naphtha by oxidation-adsorption process using iron-promoted activated carbon and Cu+2-promoted zeolite 13X](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:M3ejUd6NZC8C),  | **مشترك** | ***Catalysis Communications,*** (Elsevier), سكوبس وكلارفيت Q1 |
| **12** | [Employing Synthesized MgO-SiO2 Nanoparticles as Catalysts in Ethanol Conversion to 1, 3-Butadiene](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:aqlVkmm33-oC),  | **مشترك** | ***International Journal of Nanoscience & Nanotechnology***, (Iranian Nano Society), سكوبس Q2 |
| **13** | Experimental Investigation Of Biofilm Carriers Of Varying Shapes, Sizes, and Materials for Wastewater Treatment in Fixed Bed Biofilm Reactor: A Qualitative Study of Biocarrier Performance | **مشترك** |  [***Journal of Chemical Technology & Biotechnology***](https://www.researchgate.net/journal/Journal-of-Chemical-Technology-Biotechnology-1097-4660), (Wiley), سكوبس Q1 |
| **14** | Reviewing of using Nanomaterials for Wastewater Treatment,  | **مشترك** | ***Pollution* (**University of Tehran**)*,*** سكوبس Q3 |
| **15** | [The impact of using rice husk ash as a replacement material in concrete: An experimental study](https://www.sciencedirect.com/science/article/pii/S1018363922000265) | **مشترك** | [***Journal of King Saud University – Eng. Sci.***](https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences) , (Elsevier), سكوبس Q1 |
| **16** | Spectrophotometric Study of Ephedrine Hydrochloride in Drug using Molecular Absorption UV- Visible | **مشترك** | **Spec. Acta Part A: Mol. &Biomolecular Spectroscopy** (Elsevier) سكوبس وكلارفيت Q2 |
| **17** | CO2 Capturing Methods: Chemical Looping Combustion (CLC) as a Promising Technique | **مشترك** | **Science of The Total Environm.**, (Elsevier)سكوبس وكلارفيت Q1 |
| **18** | Synthesis and Characterization of Fe3O4- SiO2 Nanoparticles as Adsorbent Material for Methyl Blue Dye Removal from Aqueous Solutions | **مشترك** | ***Pollution (***University of Tehran***)*** سكوبس Q3 |
| **19** | Synthesis of ZnO-CoO/Al2O3 Nanoparticles and its Application as a Catalyst in Ethanol Conversion to Acetone | **مشترك** | ***Results in Chemistry,*** (Elsevier), سكوبس Q3 |
| **20** | Reinforcing the mechanical properties of windshield with interlayer-polycarbonates glass composite.  | **مشترك** | ***Journal of Engineering Science and Technology (JESTEC)*** سكوبس Q3 |
| **21** | Linking Solid State Reduction Mechanisms to Size-Dependent Reactivity of Metal Oxide Oxygen Carriers for Chemical Looping Combustion,  | **مشترك** | ACS **Applied Energy Materials**, سكوبس وكلارفيت Q1 |
| **22** | Adsorption of Methyl Green Stain from Aqueous Solutions using Non-conventional Adsorbent Media: Isothermal Kinetic and Thermodynamic Studies  | **مشترك** | **Bioresource Technology Reports** (Elsevier) سكوبس Q2 |
| **23** | Effect of COVID-19 on air quality and pollution in different countries,  | **مشترك** | **Journal of Transport & Health** (Elsevier) سكوبس Q1 |
| **24** | Aldol Condensation Reaction of Acetone on MgO Nanoparticles Surface: An in-Situ Drift Investigation, Just Accepted | **مشترك** | **Molecular Catalysis Journal**, (Elsevier) سكوبس وكلارفيت Q1 |
| **25** | The Impact of Methanol-Diesel Compound on the Performance of a Four-Stroke CI Engine,  | **مشترك** | **Material Today Proceeding** (Elsevier). سكوبس Q1 |
| **26** | Removal of Dyes by Agricultural Waste,  | **مشترك** | Sustainable Chemistry and Pharmacy (Elsevier), سكوبس وكلارفيت Q1 |
| **27** | Removal of Heavy Metals from Wastewater using Agriculture Byproducts”,  | **مشترك** | J**ournal of Water Supply: Research and Technology (AQUA)** (IWA Publishing), سكوبس وكلارفيت Q3 |
| **28** | **Isotherm and Computational Fluid Dynamics Analysis of Nickel Ions Adsorption from Aqueous Solution using Activated Carbon,**  | **مشترك** | **South African Journal of Chemical Engineering** (Elsevier), سكوبس Q1 |
| **29** | An in-situ DRIFTS Study of Acetone Adsorption Mechanism on TiO2 Nanoparticles,  | **مشترك** | **Spectrochim. Acta Part A: Mol. and Biomolecular Spectroscopy,** (Elsevier) سكوبس وكلارفيت Q2 |
| **30** | Isotherm and Kinetic Studies of the Adsorption Removal of Pb(II), Cu(II), and Ni(II) Ions from Aqueous Solutions Using Modified Chara Sp. Algae | **مشترك** | **Korean Chem. Eng. Res**. **Journal** سكوبس Q3 |
| **31** | Uptake of Cyanide Compounds from Aqueous Solutions by Lemon Peel with Utilizing the Residue Absorbent as Rodenticide,  | **مشترك** | **Indian Chemical Engineer journal**, (Taylor & Francis), سكوبس Q3 |
| **32** | Catalytic Oxidative and Adsorption Desulfurization of Heavy Naphtha Fraction,  | **مشترك** | **Korean Chem. Eng. Res. journa**l. سكوبس Q3 |
| **33** | Promising Evolution of Biofuel Generations. Subject Review,  | **مشترك** | **Renewable Energy Focus**, (Elsevier) Q3 |
| **34** | Adsorption of Thallium Ion (Tl+3) from Aqueous Solutions by Rice Husk in a Fixed-bed Column: Experiment and Prediction of Breakthrough Curves | **مشترك** | **Environmental Technology and Innovation**, (Elsevier)  سكوبس وكلارفيت Q2 |
| **35** | α-Fe2O3 Nanoparticles as Oxygen Carriers for Chemical Looping Combustion: A Material Characterization Approach to Understanding Mechanisms and Size Effects in Oxygen Carrier Performance  | **مشترك** | **Energy and Fuels journal** (ACS), سكوبس وكلارفيت Q1 |
| **36** | [Co3O4 Nanoparticles as Oxygen Carriers for Chemical Looping Combustion: A Materials Characterization Approach to Understanding Oxygen Carrier Performance](http://www.sciencedirect.com/science/article/pii/S1385894717303121) | **مشترك** | **Chem. Engineering Journal,** . (Elsevier) سكوبس وكلارفيت Q1 |

 **7. المهـــــــــــــــــــــــــــــارات :**

* القيام بفحوصات  **XRD, TEM, SEM, XPS, GS**
* القيام بفحوصات النفط الخام مثل اللزوجة – المحتوى الكاربوني – نقطة الانيلين
* العمل على برامج الحاسوب المكتبية
* العمل على برامج الحاسوب العلمية والهندسية مثل الاوتوكاد

 **8. الهوايــــــــــــــــــــــــــــــات :**

* مطالعة الكتب والرياضة

 **9. الجمعيات و النقابــــــــــات :**

* **نقابة المهندسين العراقيه**
* **نقابة المهندسين الامريكية**
* **نقابة الكيميائيين الامريكية**

 **Curriculum Vitae**

 **1.**  **Personal information** **:**
 - **Name: :- Hayder Abdulkhaleq Alalwan**



- **Permanent Address Kut- Alkut Technical Institute Houses**

 **E.MAIL:** hayder.alalwan@mtu.edu.iq- **Place and date of Birth:**. 12\9\1979 Baghdad- Iraq
 - **Nationality:** IRAQI

 **- Sex: Male**

 -  **Social status:** Married

 -  **Mother Tongue: Arabic ; Other Language: English (read, write, speak & understand).**

 **- Scientific Title : Assistant Prof.**

 **- Current job: Head of Renewable Energy department**

 **2.** **Academic Qualifications:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Degree****(PhD ; Mas ; BSC)** | **College** | **University** | **Country** | **Year of qualification** |
| **1.** | **BSC** | **Engineering college** | **University of Baghdad** | **Iraq**  | **2003** |
| **2.** | **MSc** | **Engineering college** | **University of Technology**  | **Iraq** | **2006** |
| **3.** | **PhD** | **Engineering college** | **The University of Iowa** | **USA** | **2018** |

 **3. Jobs filled:**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO** | **Occupation** | **Joining Date by** | **College / University** |
| **1** | **Head of Mechanical Dept.** | **2018-2019** | **Kut Technical Institute – Middle Technical University** |
| **2** | **Head of Petrochemical Technique Dept.** | **2018-2019** | **Kut Technical Institute – Middle Technical University** |
| **3** | **Head of Renewable Technique Energy Dept.** | **2018-2019** | **Kut Technical Institute – Middle Technical University** |

 **4. Experience (academic and specialized):**

 **• Teaching in higher education:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Subject** | **Stage** | **Department** | **College/Institute** | **Year** |
| **1.** | **Mathematic**  | **First**  | **Mechanical department** | **Technical institute- Kut** | **2006-2007** |
| **2.** | **AutoCAD** | **Second** | **Mechanical department** | **Technical institute- Kut** | **2006-2007** |
| **3.** | **Computer**  | **First** | **Mechanical department** | **Technical institute- Kut** | **2006-2007** |
| **4** | **Properties of Oil Production** | **First** | **Petrochemical Department**  | Technical institute- Kut | **2019-2024** |
| **5** | **Crude Refinery**  | Second | **Petrochemical Department** | Technical institute- Kut | **2020-2024** |

 **5.**  **Courses, conferences and workshops** **:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Courses, Conferences / workshops Name** | **Place** | **Date of session** |
| **College** | **University**  | **Country**  |
| 1. | Course on methods of manufacturing and metal forming processes | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2021 |
| 2. | Email writing course | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2021 |
| 3. | Course of operation and maintenance of heat transfer laboratory equipment | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2021 |
| 4. | E-learning management systems course | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2021 |
| 5. | Crude oil testing course | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2022 |
| 6. | Occupational safety course | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2022 |
| 7. | A course in writing scientific research and publishing it in international libraries | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | 2024 |
| 8 | The Second Scientific Conference of the Iraqi Society for Clinical Biochemistry - Member of the Scientific Committee |  |  | **Iraq**  | 2021 |
| 9 | The First International Conference on Chemistry - Member of the Preparatory Committee |  |  | **Iraq**  | **2021** |
| 10 | The Second International Scientific Conference for Health and Medical Specialties - Member of the Preparatory Committee | **Technical institute- Kut** | **Middle Technical University** | **Iraq**  | **2021** |
| 11 | International Conference on Administrative and Economic Specializations - Kut University College - Member of the Preparatory Committee |  |  | **Iraq**  | **2023** |
| 12 | Member of the Scientific Committee of the World Conference on Environmental Science and Applications |  |  | **Japan**  | **2023** |
| 13 | Keynote speaker at the World Biofuels and Energy Conference |  |  | **USA** | **2022** |
| 14 | Participation by a manuscript in the Third International Conference on Materials Science and Engineering |  |  | **Malaysia**  | **2020** |
| 15 | American Chemistry Society Conference |  |  | **USA** | **2018** |
| 16 | American Society of Chemical Engineers Conference |  |  | **USA** | **2017** |
| 17 | Annual Scientific Conference of the University of Iowa |  | **Iowa University** | **USA** | **2015** |
| 18 | American Society of Chemical Engineers Conference |  | **Missouri University** | **USA** | **2014** |

 **6. Research & Studies were published & in achievement :**

|  |  |  |
| --- | --- | --- |
| **Publishing Journal** | **Research's Title**  |  |
| ***Designs*** (MDPI) Q2 | The Impact of Utilizing Waste Sunflower Oil as a Biodiesel Blend on Four-Stroke Engine Performance and Emissions | **1** |
| ***Pollution* (**University of Tehran)  | Electro Oxidation Process for Wastewater Treatment in Petroleum Refineries | **2** |
| ***Cleaner Engineering and Technology*** (Elsevier), Q1 | [A comparison study of methyl green removal by peroxi-coagulation and peroxi-electrocoagulation processes](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:7PzlFSSx8tAC),  | **3** |
| ***Innovative Infrastructure Solutions*** (Springer), Q2 | [Self-healing of concrete using bacteria: Investigation of the impact of the process’s conditions](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:dhFuZR0502QC),  | **4** |
| ***Journal of Applied Engineering Science.*** Q2 | Protection of Carbon Steel from Wear by Quenching with Nanotechnology to Use it in Dies Parts**”,**  | **5** |
| ***International Journal of Hydrology Science and Technology***, (INDERSCIENCE), Q3 | Study the effect of climate elements variability on surface water runoff and infiltration rate in Babylon province by using statistical analysis,  | **6** |
| Chemical Engineering & Technology (Wiely), Q2 | Spectroscopical Investigation of Carbon Dioxide Interactions with Transition Metal-Oxide Nanoparticles | **7** |
| ***Journal of Applied Engineering Science***, Q2 | Identifying the Impact of Methanol-Diesel Fuel on the Environment using a Four-Stroke CI Engine,  | **8** |
| ***Cleaner Engineering and Technology***, (Elsevier), Q3 | [Investigated kerosene-diesel fuel performance in internal combustion engine](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:Wp0gIr-vW9MC),  | **9** |
| ***Particulate Science and Technology***, (Taylor &Francis), Q2 | [Methane activation on metal oxide nanoparticles: spectroscopic identification of reaction mechanism](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:4DMP91E08xMC),  | **10** |
| ***Catalysis Communications,*** (Elsevier), Q1 | [Desulfurization of heavy naphtha by oxidation-adsorption process using iron-promoted activated carbon and Cu+2-promoted zeolite 13X](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:M3ejUd6NZC8C),  | **11** |
| ***International Journal of Nanoscience & Nanotechnology***, (Iranian Nano Society), Q2 | [Employing Synthesized MgO-SiO2 Nanoparticles as Catalysts in Ethanol Conversion to 1, 3-Butadiene](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CWIrzhgAAAAJ&sortby=pubdate&citation_for_view=CWIrzhgAAAAJ:aqlVkmm33-oC),  | **12** |
|  [***Journal of Chemical Technology & Biotechnology***](https://www.researchgate.net/journal/Journal-of-Chemical-Technology-Biotechnology-1097-4660), (Wiley), Q1 | Experimental Investigation Of Biofilm Carriers Of Varying Shapes, Sizes, and Materials for Wastewater Treatment in Fixed Bed Biofilm Reactor: A Qualitative Study of Biocarrier Performance | **13** |
| ***Pollution* (**University of Tehran**)*,*** Q3 | Reviewing of using Nanomaterials for Wastewater Treatment,  | **14** |
| [***Journal of King Saud University – Eng. Sci.***](https://www.sciencedirect.com/journal/journal-of-king-saud-university-engineering-sciences) , (Elsevier), Q1 | [The impact of using rice husk ash as a replacement material in concrete: An experimental study](https://www.sciencedirect.com/science/article/pii/S1018363922000265) | **15** |
| **Spec. Acta Part A: Mol. &Biomolecular Spectroscopy** (Elsevier) Q2 | Spectrophotometric Study of Ephedrine Hydrochloride in Drug using Molecular Absorption UV- Visible | **16** |
| **Science of The Total Environm.**, (Elsevier) Q1 | CO2 Capturing Methods: Chemical Looping Combustion (CLC) as a Promising Technique | **17** |
| ***Pollution (***University of Tehran***)*** Q3 | Synthesis and Characterization of Fe3O4- SiO2 Nanoparticles as Adsorbent Material for Methyl Blue Dye Removal from Aqueous Solutions | **18** |
| ***Results in Chemistry,*** (Elsevier), Q3 | Synthesis of ZnO-CoO/Al2O3 Nanoparticles and its Application as a Catalyst in Ethanol Conversion to Acetone | **19** |
| ***Journal of Engineering Science and Technology (JESTEC)*** Q3 | Reinforcing the mechanical properties of windshield with interlayer-polycarbonates glass composite.  | **20** |
| ACS **Applied Energy Materials**, Q1 | Linking Solid State Reduction Mechanisms to Size-Dependent Reactivity of Metal Oxide Oxygen Carriers for Chemical Looping Combustion,  | **21** |
| **Bioresource Technology Reports** (Elsevier) Q2 | Adsorption of Methyl Green Stain from Aqueous Solutions using Non-conventional Adsorbent Media: Isothermal Kinetic and Thermodynamic Studies  | **22** |
| **Journal of Transport & Health** (Elsevier) Q1 | Effect of COVID-19 on air quality and pollution in different countries,  | **23** |
| **Molecular Catalysis Journal**, (Elsevier) Q1 | Aldol Condensation Reaction of Acetone on MgO Nanoparticles Surface: An in-Situ Drift Investigation, Just Accepted | **24** |
| **Material Today Proceeding** (Elsevier). Q1 | The Impact of Methanol-Diesel Compound on the Performance of a Four-Stroke CI Engine,  | **25** |
| Sustainable Chemistry and Pharmacy (Elsevier), Q1 | Removal of Dyes by Agricultural Waste,  | **26** |
| J**ournal of Water Supply: Research and Technology (AQUA)** (IWA Publishing), Q3 | Removal of Heavy Metals from Wastewater using Agriculture Byproducts”,  | **27** |
| **South African Journal of Chemical Engineering** (Elsevier), Q1 | **Isotherm and Computational Fluid Dynamics Analysis of Nickel Ions Adsorption from Aqueous Solution using Activated Carbon,**  | **28** |
| **Spectrochim. Acta Part A: Mol. and Biomolecular Spectroscopy,** (Elsevier) Q2 | An in-situ DRIFTS Study of Acetone Adsorption Mechanism on TiO2 Nanoparticles,  | **29** |
| **Korean Chem. Eng. Res**. **Journal** Q3 | Isotherm and Kinetic Studies of the Adsorption Removal of Pb(II), Cu(II), and Ni(II) Ions from Aqueous Solutions Using Modified Chara Sp. Algae | **30** |
| **Indian Chemical Engineer journal**, (Taylor & Francis), Q3 | Uptake of Cyanide Compounds from Aqueous Solutions by Lemon Peel with Utilizing the Residue Absorbent as Rodenticide,  | **31** |
| **Korean Chem. Eng. Res. journa**l. Q3 | Catalytic Oxidative and Adsorption Desulfurization of Heavy Naphtha Fraction,  | **32** |
| **Renewable Energy Focus**, (Elsevier) Q3 | Promising Evolution of Biofuel Generations. Subject Review,  | **33** |
| **Environmental Technology and Innovation**, (Elsevier) Q2 | Adsorption of Thallium Ion (Tl+3) from Aqueous Solutions by Rice Husk in a Fixed-bed Column: Experiment and Prediction of Breakthrough Curves | **34** |
| **Energy and Fuels journal** (ACS), Q1 | α-Fe2O3 Nanoparticles as Oxygen Carriers for Chemical Looping Combustion: A Material Characterization Approach to Understanding Mechanisms and Size Effects in Oxygen Carrier Performance  | **35** |
| **Chem. Engineering Journal,** . (Elsevier) Q1 | [Co3O4 Nanoparticles as Oxygen Carriers for Chemical Looping Combustion: A Materials Characterization Approach to Understanding Oxygen Carrier Performance](http://www.sciencedirect.com/science/article/pii/S1385894717303121) | **36** |

**7. Skills**

* **Conducting XRD, TEM, SEM, XPS, and GS scans**
* **Conducting crude oil tests such as viscosity - carbon content - aniline point**
* **Working on office computer programs**
* **Working on scientific and engineering computer programs such as AutoCAD**

 **8. Hobbies**

 **Reading & Sports**

 **9. Societies**

* **Iraqi Engineering Society**
* **American Chemical Society**
* **American Chemical Engineering Society**