



## الجامعة التكنولوجية – قسم تكنولوجيا النفط البحوث المنشورة ضمن مجال الطاقة المستدامة



| No. | Research Title   | Researchers   | Journals  |
|-----|--|---|---|
| 1   | The Production of Ethanol from Sugar Beet Waste by Immobilized Saccharomyces Cerevisiae                      | Jasim Al-Hilo, Thamir J. Mohammed, and Rana A. Al-Naime   | Iraqi Journal of Chemical and Petroleum Engineering<br>Vol.8 No.4 (December 2007) 25 - 30                                   |
| 2   | A Study on The Effect Of Temperature on The Treatment of Industrial Wastewater Using Chlorella Vulgaris Alga | Rana Abbas Azeez  | Engineering and Technology Journal, Vol.28, No.4, 2010  |
| 3   | Biodiesel fuel from biological sources   | Khalid Ajmi Sukkar, Rana Abbas Azeez, Niran Manual, Kadhem muter shibeeb  | Uruk journal, no.1, pp. 68-77, Oct.2008   |
| 4   | A New Development in Biological Process for Wastewater Treatment to Produce Renewable Fuel                   | Kadhun M. Shabeeb, Khalid A. Sukkar, Rana A. Azeez, Najat J. Salah Mummtas A. Yousif, Niran Manoual and Abyer Samir | American Journal of Applied Sciences 7 (10): 1400-1405, 2010  |
| 5   | Biosorption of Copper from synthesized wastewater using agriculture waste ( roasted date pits                | Thamer.J.Mohammed, Rana.A.Azeez and Tagreed .Lutffe1  | International Journal of Recent Scientific Research<br>Vol. 6, Issue, 3, pp.3063-3068, March, 2015                          |
| 6   | Removal oil from produced water by using adsorption method with adsorbent a Papyrus reeds                    | Firas K. Al-Zuhairi,, Rana A. Azeez , Suhair A. Mahdi, Wafaa A. Kadhim, Muna Kh. Al-Naamee                          | Engineering and Technology Journal Vol. 37, Part A, No. 05, 2019  |
| 8   | Biofuels (Bioethanol, Biodiesel, and Biogas) from Lignocellulosic Biomass :A Review                          | Rana Abbas Azeez, Firas K. Al-Zuhairi   | Journal of University of Babylon for Engineering Sciences, Vol. (28), No. (1): 2020.  |
| 9   | Augmentation of biomethane production from potato peels waste by co-digestion with sheep manure              | Firas K. Al-Zuhairi, Rana Abbas Azeez   | 2nd International Conference on Materials Engineering & Science (IConMEAS 2019)<br>AIP Conf. Proc. 2213, 020048-1–020048-7; |
| 10  | Anaerobic co-digestion of Municipal Solid Wastes with Giant reed under mesophilic conditions.                | Firas Al-Zuhairi, Luca Micoli, Ciro Florio, Angelo Ausiello, Maria Turco, Domenico Pirrozi, Giuseppe Toscano        | Journal of Material Cycles and Waste Management, No. 21, 2018.  |

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| 11 | Evaluating the Influence of Temperature and Flow Rate on Biogas Production from Wood Waste via a Packed-Bed Bioreactor   | Khalid A. Sukker, Firas Al-Zuhairi, Evaleen A. Dawood  | Arabian Journal for Science and Engineering, on line 2020                           |
| 12 | Biogas Production from Solid State Anaerobic Digestion for Municipal Solid Waste.  | Firas Al-Zuhairi, Luca Micoli, Ciro Florio, Angelo Ausiello, Maria Turco, Domenico Pirrozi, Giuseppe Toscano | Chemical Engineering Transactions, vol. 43, 2015                                    |
| 13 | The effects of cerium promoter on the performance of cobalt-based catalysts in Fischer Tropsch synthesis for liquid fuel production  | Firas Al-Zuhairi, Wafaa A. Kadhim, Ahmed Lateef KHALAF, Mohmd Hasbi Ab Rahim                                 | IIUM Engineering Journal, Vol. 21, NO. 2, 2020                                      |
| 14 | A Review on groundwater pollution  | Hussien Ilaibi Zamil Al- Sudani  | International journal of recent engineering science, Vol. 6 Issue 5, Oct. 2019      |
| 15 | Effect of Ce- promotion on iron catalysts activity through the synthesis of liquid fuels by Fischer-Tropsch process  | Firas K. Al-Zuhairi. Wafaa A. Kadhim   | IOP Con. Series: Material Science and Engineering 579 (2019) 012009                 |
| 16 | Groundwater system of Dibdibba sandstone aquifer in south of Iraq  | Hussien Ilaibi Zamil Al- Sudani  | Applied Water science. 2019, 9:72   |
| 17 | Ground water system of khanaqin basin in Diyala governorate- east of Iraq  | Hussien Ilaibi Zamil Al- Sudani, Ahmed A. Ramadhan, Batool M. Ali M. Saeed                                   | Tikrit journal of pure science, vol. 23, (6) 2018                                   |
| 18 | Hydrochemical Evaluation and Utilization of Groundwater in khanagin Area, Diyala Governorate- East of Iraq   | Hussien Ilaibi Zamil Al- Sudani  | Iraqi journal of science , vol. 59, No, 4C, pp:2279-2288, 2018                      |
| 19 | Hydrochemistry og Groundwater in Northeast part of Anbar Governorate West of Iraq  | Hussien Ilaibi Zamil Al- Sudani  | Baghdad Scince Journal, vol. 16, (1), 2019  |
| 20 | Hydrogeological properties of Groundwater in Karballa'a Governorate -Iraq  | Hussien Ilaibi Zamil Al- Sudani  | Journal of University of Babylon for Engineering Sciences, Vol. (26), No. (4): 2018 |
| 21 | Optimization of CH <sub>4</sub> and CO <sub>2</sub> conversion and selectivity of H <sub>2</sub> and Co for dry reforming of methane by a microwave plasma technique using a Box- Behnken design | Nabil Majid ALAWI, Ahmed Barfcani, Hussien Rasool Abid   | Asia Pacific journal of chemical Engineering, Sep. 2018                             |
| 22 | Salinity Pollution of Groundwater in the South of Iraq   | Hussien Ilaibi Zamil Al- Sudani  | Journal of University of Babylon for Engineering Sciences, Vol. (27), No. (3): 2019 |
| 23 | Electrocoagulation treatment of oil- based mud wastewater  | N A, Al-rubaiey, M G Albarazanly and M Abdulkareem   | IOP Con. Series: Material Science and Engineering 737 (2020) 01291                  |

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| 24 | Electrocoagulation treatment of oily wastewater in oil industry  | Najim A. Al- Rubaiey, Mohammed G. Al-Barazanji                 | Journal of petroleum research and studies, No.20, 2019   |
| 25 | Nano Ferrites as Corrosion Inhibitors for carbon steel in local Iraqi bentonite mud  | N. A, Al- Rubaiey, F.S. Kadhim, A. A. Ati                      | Engineering and Technology Journal Vol. 35, Part A, No. 8, 2017  |
| 26 | Study the Efficiency of Electrocoagulation system using Conductivity Measurement for the Removal of Zinc heavy metal                     | Najim A. Al- Rubaiey, Mohammed G. Al-Barazanji                 | International Conference on Environment impact of the oil and gas industries, Koya, Kurdistan region- Iraq, 2017 |
| 27 | The Effect of some variables on the removal of synthetic bentonite suspension in water by electrocoagulation using turbidity measurement | Najim A. Al- Rubaiey, Mohammed G. Al-Barazanji                 | IOP Con. Series: Material Science and Engineering 579 (2019) 012009  |
| 28 | Ultrasonic Technique in Treating Wastewater by Electrocoagulation  | Najim A. Al- Rubaiey, Mohammed G. Al-Barazanji                 | Engineering and Technology Journal Vol. 36, Part C, No. 1, 2018  |
| 29 | Investigation of Mechanical and Physical Properties of Papyrus Reeds Reinforced Composites with Polyester                                | M A Al Hassan, R A Azeez, W A Kadhim, M G Albarazanji          | IOP Con. Series: Material Science and Engineering 737,2020 .012070   |
| 30 | Application of “ Matrix Diagram Tools” for Quality improvement in High Education   | Layla L. Alwan   | تطبيقات ادوات برامج المصفوفات<br>العدد 23  |
| 31 | Seasonal Variation of Residual Aluminum Concentration in Drinking water  | Layla L. Alwan, Ayat Mahdi                                     | Engineering and Technology Journal Vol. 36, Part C, No. 1, 2018  |
| 32 | Effects of Raw oil deposits upon Occupationally Exposed workers  | Sadik A.k. Al-Hiyally  | Engineering and Technology Journal Vol. 27, No. 2, 2009.   |
| 33 | Environmental performance Assessment (EPA) by using computerized system  | Layla L. Alwan   | Engineering and Technology Journal Vol. 27, No. 2, 2009.   |
| 34 | Evaluation of Water Contamination of Iraqi Field   | Asawer A. Alwasiti, Layla Lateef Alwan                         | Techno-Science<br>International Conference on Technology and Science 13-15-December, 2018                        |
| 35 | Seasonal Variation of Air Pollutants Concentrations within Baghdad city  | Layla L. Alwan, Sadik A. K. Al- Hiyaly, Ayat H. Mahi           | Engineering and Technology Journal Vol. 37, Part C, No. 3, 2019.   |
| 36 | Industrial Waste – Water Treatment By Natural Filter Aids  | Mayssaa A. Al- Bidry, Khaldoun S. Al- Bassam and Arwa Sh. Taka | Digital Proceeding Of THE ICOEST’2013 - , Cappadocia. Nevsehir, Turkey, June 18 – 21, 2013                       |
| 37 | Treatment of Wastewater from Oil Refinery by Adsorption on Fluidized Bed of Stem Date  | M.G. Albarazanji,  | Engineering and Technology Journal, Vol. 35, Part A, No. 2, pp. 134-138, 2017.                                   |