**Appendix C**

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|  | Name of research  | Name of researchers | Name of the Journal | Date |
| 1 | Biosorption of methylene blue from aqueous solution using mixed algae | Prof Dr. Ahmed A. Mohammed | Iraqi journal of chemical and petroleum engineering | 30-Dec 2018 |
| 2 | Removal of nickel ions and methylene blue dyes from aqueous solution using alkaline algae biomass | Prof Dr. Ahmed A. Mohammed | Association of Arab Universities Journal of Engineering Sciences | 2019 |
| 3 | Biotreatment of actual potato chips processing wastewater with electricity generation in microbial fuel cell | Prof Dr. Zainab Z.Ismail | Journal of engineering | 24(12)2018 |
| 4 | Removal of pharmaceuticals from synthetic wastewater by ozone | Prof. Dr. Shahlaa Esmail Ebrahim | Association of Arab Universities Journal of Engineering Sciences | 25(4) 2018 |
| 5 | Biosorption of cationic dyes onto cork stopper particles by inverse fluidized bed | Prof. Dr. Shahlaa Esmail Ebrahim | Association of Arab Universities Journal of Engineering Sciences | 2019 |
| 6 | Aerobic municipal solid waste compost quality according to different layers of composting bioreactor | Assist. Prof. Dr. Jathwa A. Alameen | Association of Arab Universities Journal of Engineering Sciences | 2019 |
| 7 | Evaluation of heavy metals content in simulated waste food compost | Assist. Prof. Dr. Jathwa A. Alameen | Journal of engineering | 2019 |
| 8 | Effect of leachate recirculation on biological stability of municipal solid waste under simi – arid conditions | Assist. Prof. Dr. Jathwa A. Alameen | Al- Qadisiyah journal for engineering science | 12(2019) |
| 9 | Stabilization of Al- Rustamiya wastewater treatment plant slude using lime | Assist. Prof. Dr. Jathwa A. Alameen | Association of Arab Universities Journal of Engineering Sciences | 2019 |
| 10 | Removal of lead ions from wastewater using crushed concrete demolition waste | Assist. Prof. Dr. Ziad T. Abd Ali | Association of Arab Universities Journal of Engineering Sciences | 2019 |
| 11 | Interaction of aqueous Cu ions with granules of crushed concrete | Assist. Prof. Dr. Ziad T. Abd Ali | Iraqi journal of chemical and petroleum engineering | 20(1)2018 |
| 12 | A comparative isothermal and kinetic study of the removal of lead (II) from aqueous solution using different sorbents | Prof Dr. Ahmed A. Mohammed and Assist. Prof. Dr. Ziad T. Abd Ali | Association of Arab Universities Journal of Engineering Sciences | 25(4), 2018 |
| 13 | Adsorption of Congo Red Dye from Aqueous Solution onto Wheat Husk in a Fluidized Bed Reactor | Prof. Dr. Abeer I. Alwared | Iraqi journal of chemical and petroleum engineering | 2019 |
| 14 | Effect of Waste Glass Powder as a Supplementary Cementitious Material on the Concrete Mix Properties | Prof. Dr. Abeer I. Alwared | Association of Arab Universities Journal of Engineering Sciences | 25(4), 2018 |
| 15 | Thermal Properties of Lead-Acid Battery Plastic Lightweight Concrete | Prof. Dr. Abeer I. Alwared | Journal of engineering | 24(12)2018 |
| 16 | Single and Binary Adsorption of Cu(II) and Ni(II) Ions from Aqueous Solutions by Sunflower Seed Husk | Prof. Dr. Abeer I. Alwared | Association of Arab Universities Journal of Engineering Sciences | 26(10)2019 |
| 17 | Removal Of Dissolved Cadmium Ions from Contaminated Wastewater using Raw Scrap Zero-Valent Iron And Zero Valent Aluminum as Locally Available and Inexpensive Sorbent Wastes | Prof. Dr. Ayad A. Faisel | Iraqi Journal of Chemical and Petroleum Engineering | M Journal arch, (2019) |
| 18 | Competitive Adsorption of Cd (II) and Zn (II) in Single and Binarysystems from Aqueous Solutions onto Cork Stopper Particles | Prof. Dr. Shahlaa Esmail Ebrahim | Association of Arab Universities Journal of Engineering Sciences | *(2019) 26(1):* |
| 19 | Performance of Subsurface Flow Constructed Wetland Systems in the Treatment of Al-Rustumia Municipal Wastewater using Continuous Loading Feed | Prof. Dr. Ayad A. Faisel | Iraqi Journal of Chemical and Petroleum Engineering | Vol.20 No.2  |
| 20 | Simulation of Ammonia Nitrogen Removal from Simulated Wastewater by Sorption onto Waste Foundry Sand Using Artificial Neural Network | Prof. Dr. Ayad A. Faisel | Association of Arab Universities Journal of Engineering Sciences | (2019) 26(1) |
| 21 | Ecological Footprint and Sustainability of Baghdad City | Assist. Prof. Dr. Jathwa A. Alameen  | Association of Arab Universities Journal of Engineering Sciences | (2019) 26(3) |
| 22 | Study for the Production of Local Adsorbent from Tea Wastes for Removal of Zinc from an Aqueous Solution | Assist. Prof. Hayder M. Abdulhameed | Association of Arab Universities Journal of Engineering Sciences | 2018, 25(5) |
| 23 | Design Experiments for Biosorption of Lead Ions from Wastewaterby Box -Wilson’s Method | A. ssist. Prof. Hussein M. Flayeh | Association of Arab Universities Journal of Engineering Sciences | 2019, 26(2) |
| 24 | Phytoremediation of organic pollutants in wastewater using nativeplants | Prof. Dr. Mohanned J. M. Ridha | Association of Arab Universities Journal of Engineering Sciences | 2019, 26(2) |
| 25 |  Removal of Acid Blue Dye from Industrial Wastewater by using Reverse Osmosis Technology | Prof. Dr. Shahlaa Esmail Ebrahim | Association of Arab Universities Journal of Engineering Sciences |  2018, 25(3) |
| 26 | Critical Discourse Analysis of Donald Trump's Inaugural Speech | Assist. Prof. Nagham Ali | AL-USTATH | 2018,1( 226) |
| 27 |  Reuse of Spent Hydrotreating Catalyst of the Middle Petroleum Fractions | Prof. Dr. Khalid K. Hummadi | Iraqi Journal of Chemical and PetroleumEngineering | Vol.20 No.1 (March 2019) |
| 28 | Comparison Between Commercial and Synthesized Fe3O4 Nanoparticles for Removal of Heavy Metal Contaminants in Wastewater | Prof. Dr. Shahlaa Esmail Ebrahim | Journal of Engineering Science of the Society of Engineering Colleges | 2020 |
| 29 | Comparison between dead anaerobic biomass and synthesized Fe3O4 nanoparticles for the removal of Pb(II), Ni(II) and Cd(II),  | Prof. Dr. Shahlaa Esmail Ebrahim | Desalination and water treatment | **173, 351–366. /USA /2020** |
| 30 | Removal of Methylene Blue and Congo Red Dyes by Pre-treated Fungus Biomass – Equilibrium and Kinetic Studies  | Prof. Dr. Shahlaa Esmail Ebrahim | Journal of Advanced Research in Fluid Mechanics and Thermal Sciences | **66, Issue 2, 84-100/ Malaysia/2020** |
| 31 | Enhanced visible-light photocatalytic bacterial inhibition using recyclable magnetic heterogeneous nanocomposites (Fe3O4@SiO2@Ag2WO4@Ag2S) in core/shell structure | Prof. Dr. Shahlaa Esmail Ebrahim | Environmental Nanotechnology, Monitoring & Management | **2021** |
| 32 | Highly efficient visible-light-driven photocatalytic degradation of organic pollutants by using magnetically separable supported heterogeneous nanocomposites | Prof. Dr. Shahlaa Esmail Ebrahim | Environmental Nanotechnology, Monitoring & Management | **2021** |
| 33 | [Image Compression Using Hirarchical Linear Polynomial Coding](https://www.researchgate.net/profile/Rasha-Talib/publication/328432678_IMAGE_COMPRESSION_USING_HIRARCHICAL_LINEAR_POLYNOMIAL_CODING/links/5bfaeddb458515a69e3bc2bf/IMAGE-COMPRESSION-USING-HIRARCHICAL-LINEAR-POLYNOMIAL-CODING.pdf) | Assist. Lec. Rasha Talib | International Journal of Computer Science and Mobile Computing | **2015** |
| 34 | [Development of Hybrid Based Lossless Iris Image Compression Technique](https://www.researchgate.net/profile/Rasha-Talib/publication/362799342_Development_of_Hybrid_Based_Lossless_Iris_Image_Compression_Technique/links/6314f2f961e4553b9565f563/Development-of-Hybrid-Based-Lossless-Iris-Image-Compression-Technique.pdf) | Assist. Lec. Rasha Talib | International Journal of Engineering Research and Advanced Technology | **2022** |
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| 36 | Removal of Cadmium and Chromium Ions from Contaminated Groundwater using Scrap Iron and Aluminum as Permeable Reactive Barrier. | Dr. Hayder M. Rasheed | Journal of Environmental Management  | **2020** |
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| 38 | Batch and continuous study of one-step sustainable green graphene sand hybrid synthesized from Date-syrup for remediation of contaminated groundwater.  | Assist. Prof. Dr. Ziad T. Abd Ali | Alexandria Engineering Journal | **2022** |
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| 41 | Degradation of pharmaceutical contaminants from aqueous solution by solar photocatalysis | Prof. Dr. Abeer I. Alwared |  | **2020** |
| 42 | Recent advances in nano-semiconductors photocatalysis for degrading organic contaminants and microbial disinfection in wastewater: A comprehensive review | Prof. Dr. Shahlaa Esmail Ebrahim | Environmental Nanotechnology, Monitoring & Management | **2022** |
| 43 | Preparing Nanosilica Particles from Ricehusk Using Precipitation Method , Baghdad Science Journal | Prof. Dr. Shahlaa Esmail Ebrahim |  | **2021** |
| 44 | Effective Removal of Methylene Blue from Wastewater Using Magnetite/ Geopolymer Composite: Synthesis, Characterization and Column Adsorption Study, Inorganic Chemistry Communications. | Prof. Dr. Shahlaa Esmail Ebrahim |  Inorganic Chemistry Communications | **2022** |
| 45 | Supported heterogeneous nanocomposites (SiO2/Fe3O4/Ag2WO4) for visible-light-driven photocatalytic disinfection against E. coli, Materials Science in Semiconductor Processing | Prof. Dr. Shahlaa Esmail Ebrahim | Materials Science in Semiconductor Processing | **2022** |
| 46 | Synthesis, characterization, and photocatalytic degradation activity of core/shell magnetic nanocomposites (Fe3O4@SiO2@Ag2WO4@Ag2S) under visible light irradiation, Optical Materials | Prof. Dr. Shahlaa Esmail Ebrahim |  Optical Materials | **2022** |