

- Researche projects to serve the environment, society or developing the education: (List of Publications)

| No. | Research                                                                                                                                                       | Publication in                                                                   | Year |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------|
| 1.  | The effect of Endol biotric acid on the growth and production of wheat <i>Triticum aestivum</i> L.                                                             | Tikrit journal for pure science                                                  | 2005 |
| 2.  | The effect various concentrations of Endolic acid (IBA) on the growth and components of barley <i>Hordeum Vulgar</i> L. within different periods if irrigation | Tikrit journal for pure science (No.2)                                           | 2005 |
| 3.  | The effect various concentrations of the growth regulator (ANA) on the yield of two species of cotton <i>Gosspium Hirsutum</i> L.                              | Tikrit journal for agricultural sciences                                         | 2006 |
| 4.  | Testing the efficiency of <i>Convolvulus sp</i> in the plant treatment of waste water.                                                                         | Tikrit journal for agricultural sciences                                         | 2010 |
| 5.  | The effect of some heavy element on the growth of wheat <i>Triticum aestivum</i> L.                                                                            | AlAnbar university journal for pure sciences                                     | 2011 |
| 6.  | A study of the pureness of water of newly-digged wells in Rabee'a subdistrict.                                                                                 | Tikrit university journal for pure sciences                                      | 2012 |
| 7.  | Efficiency evaluation of ( <u>Phragmites Australis</u> ) as initial treatment for some of sewage water of Alkaraze valley course in Mosul city.                | First scientific conference of biology department 6-6//3/2012                    | 2012 |
| 8.  | Pureness of water of some wells in villages and districts of Salah AlDeen governorate.                                                                         | Tikrit journal for pure science, No. 25                                          | 2012 |
| 9.  | Efficiency testing of (Phragmites Australis) as phytoremedation the sewage water of AlKaraze valley course in Mosul city.                                      | Journal of University of Duhok, vol. 15, No.1                                    | 2012 |
| 10. | Effect of lead, cadmium and zinc on germination and seedling growth of wheat ( <i>Triticum aestivum</i> L.)                                                    | Seventh scientific conference of college of Education 6-7/2012                   | 2012 |
| 11. | Study of the groundwater of some Muhalabeyyah wells and their water freshness for houses consumption.                                                          | second scientific conference of pure sciences 20-22 Nov.                         | 2012 |
| 12. | The efficiency of Lemna L. species in withdrawing the pollutants and cleaning the sewage water from heavy elements.                                            | Fourth scientific conference of college of Education, Tikrit University/ Samaraa | 2012 |
| 13. | Studying the effect of various waters                                                                                                                          | Eighth scientific                                                                | 2014 |

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|     | on the morphological, anatomical and physiological characteristics of wheat ( <i>Triticum aestivum</i> L.)                                                        | conference of college of Education for pure sciences / biology, 2-3/4/2014                                                                        |      |
| 14. | The study of the quality and the treatment of water with plants for Sobashi spring in Talafar district.                                                           | AlRafedain Sciences Journal                                                                                                                       | 2014 |
| 15. | Studying the effect of sewage water treated with sedimentation and filtration on the accumulation of @نزرة elements in celery <i>Apium graveolens</i> L.          | Kirkuk Journal for scientific studies                                                                                                             | 2015 |
| 16. | Evaluation of using some chemical fertilizers on some physiological and genetic characteristics and some effective materials of celery <i>Apium graveolens</i> L. | Tikrit journal for pure sciences                                                                                                                  | 2015 |
| 17. | The study of evaluating some water stations in Samaraa district/Iraq.                                                                                             | Second international scientific conference of agricultural researches.                                                                            | 2014 |
| 18. | Biological accumulation of some heavy elements in <i>Lycium shawii</i> and <i>Tamarix arabica</i> collected from the lower Zab river in Kirkuk / Iraq.            | AlZaqaziq journal for horticultural sciences/ AlZaqaziq university / Egypt.                                                                       | 2016 |
| 19. | The effect of the lower Zab river pollutants on the Tigris.                                                                                                       | First scientific conference of college of Education for pure sciences / Kirkuk university.                                                        | 2015 |
| 20. | Studying the physical and chemical characteristics for some water sites of the Tigris in Mosul/Iraq.                                                              | Environmental conservation and biodiversity XIII. Congress of ecology and environment with international participation. 12-15 Sept. 2017, Edirne. | 2017 |
| 21. | Treatment of Dairy factory wastes using two types of algae <i>Chlorella</i> and <i>Lyngbya</i> .                                                                  | AlMuthana journal for engineering and technology.                                                                                                 | 2017 |
| 22. | The environmental effect on the quality of tigris river, for several estuaries with liquid wastes in Mosul city.                                                  | The first international conference of AlKitab university college in cooperation with the LUND Swedish university.                                 | 2017 |

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| 23. | Studying some physical and chemical characteristics of AlWand river and their impact on Deyala governorate.                                                                        | Kermyan university journal                                                                          | 2017                    |
| 24. | Evaluation of AlWand river water in Khaniqeen city and its impact on Deyala governorate.                                                                                           | Second international scientific conference 1-2/3/2017                                               | 2017                    |
| 25. | Treatment of waste water of the dairy factory using two types of algae <i>Chlorella</i> and <i>Lyngebia</i> . two types of algae <i>Chlorella</i> and <i>Lyngebia</i> .            | AlMuthanna journal for engineering and technology.                                                  | 2017                    |
| 26. | Measuring the concentrations of lead, manganese and nickel elements in the edges of the roads in Erbil.                                                                            | AlOtrooha journal for pure sciences                                                                 | 2018                    |
| 27. | Measuring the E.coli in four main water stations in Salah AlDeen governorate.                                                                                                      | AlOtrooha journal for pure sciences                                                                 | 2018                    |
| 28. | Application of the Canadian Model CCMEWQI to evaluate the well water for irrigation and livestock, a case study: Well waters at Alseddiq and AlHadbaa neighborhoods in Mosul city. | first international scientific conference of college of sciences, Tikrit Journal for pure sciences. | 2018                    |
| 29. | The Elyopathic effect of <i>medicago sativa</i> L. plant wastes on the growth of two speices of <i>Trigonella foenum-graecum</i> growing in various levels of moisture.            | Journal of educationala and scientific studies.                                                     | 2019                    |
| 30. | Studying some heavy elements in AlWand lake in Khaniqeen in Deyala governorate.                                                                                                    | Arab journal for sciences and researches publication.                                               | 2019                    |
| 31. | A bacteriological study of AlWand lake in Khaniqeen.                                                                                                                               | Scientific journal of Kermyan university.                                                           | 2020                    |
| 32. | Effect of irrigation with various well waters on the on the growth and some physiological processes of <i>vigna unguiculate</i> and <i>Phaseolus vulgaris</i>                      | AlOtrooha journal for pure sciences                                                                 | 2020                    |
| 33. | Isolation and diagnosis of several secondary and effective compounds in السعد Iraqi plant.                                                                                         | AlOtrooha journal for pure sciences                                                                 | 2021                    |
| 34. | Bioremediation of contaminated soil with crude oil using two different bacteria                                                                                                    | ICARPAS 2021 AIP Conf. Proc                                                                         |                         |
| 35. | ESTIMATION OF SOME HEAVY METALS IN SOIL AND <i>Phragmites australis</i> (PHYTOREMEDIATION) IN FATHA                                                                                | Journal of Global Ecology and Environment                                                           | :(1)12,49-44 2021 ISSN: |

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|  | <b>AND QAYYARAH AREAS IN SALAH<br/>AL-DIN AND NINAVA<br/>GOVERNORATES- IRAQ</b> |  | <b>2454-<br/>2644</b> |
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