|  |
| --- |
|  ▼ الاسم المستخدم في نشر البحوث حسب الكوكل سكولرAhmed A.Mohammed |

|  |
| --- |
| ▼ الاتجاهات البحثية* **معالجة المياه واستخدام الطاقات النظيفة**
 |

|  |
| --- |
| ▼ الدرجة العلميةاستاذ |

|  |
| --- |
| ▼ الأبحاث المنشورة1. ***Removal of phenol from water by adsorption, A. A. Mohammed. Iraqi journal of chemical and petroleum Engineering. V.1, No. 1, (2000).***
2. ***Removal of emulsified Kerosene from water by flotation. A. A. Mohammed . Iraqi journal of chemical and petroleum Engineering V.5, No. 2, (2004).***
3. ***Removal of Emulsified paraffin from water:- effect of bubble size and particles size on kinetic of flotation. A. A. Mohammed . Iraqi journal of chemical and petroleum Engineering V.8, No.3, (2007).***
4. ***Electrocoagulation of phenol for wastewater treatment, A. A. Mohammed. Iraq journal of chemical and petroleum Engineering V.9, (2008).***
5. ***Treatment of Depleted Uranium Contamination in soil by using sodium Bicarbonate solution. A. A. Mohammed , A. Shaker. Iraq journal of chemical and petroleum Engineering, (2008).***
6. ***Assessment of Depleted Uranium Contamination in selective Iraq soils. A. A. Mohammed , A. Shaker Journal of Al- Nahren.***
7. ***Removal of lead from simulated wastewater by electrocoagulation method. A. A. Mohammed and M. AL- Mureab. Journal of Engineering V.16, No. 4, Dec. 2010.***
8. ***Separation of Oil from O/W emulsion by elector flotation technique. A. A. Mohammed and A. Jasim. Journal of Engineering (2010).***
9. ***Competitive biosorption of lead, Cadmium, copper and Arsenic ions using algae. A.H .Sulaymon, A.A Mohammed, T.J Al- Musawi, Environ.Sci.Pollut.Res. (2013),20: 3011-3023.***
10. ***Multi component biosorption of heavy metals using fluidized bed of algae biomass. A.H .Sulaymon, A.A Mohammed, T.J Al- Musawi, Journal of Engineering, V.19, No.4, April 2013.***
11. ***Flotation method for selective separation of lead and zinc from simulated wastewater. A.A Mohammed and S.Waled. Journal of Engineering, V.19, No.5, May 2013.***
12. ***Removal of copper ion from wastewater by flotation. A A Mohammed , F.I. Abed . Journal of Engineering, V.17, No.6, Dec. 2011.***
13. ***Competitive stripping of multi- organic pollutants from contaminated water in bubble column.W.M Qassim, A.A Mohammed and Y.Rashed. Journal of engineering, March 2014.***
14. ***Removal of Cu+2, Pb+2and Ni+2 ions from simulated wastewater by ion exchange method on zeolite and purolite C105 resin. A.A Mohammed, H.Shuker. Journal of Engineering, 2013.***
15. ***Removal of lead, cadmium, copper and arsenic ions using biosorption and kinetic studies. A.H Sulaymon, A.A Mohammed, TJ Al- Musawi, Desalination and water treatment 51 (22-24), 4424-4434.***
16. ***Separation and hydrodynamic performance of air- kerosene- water system by bubble column. A.H Sulaymon, A.A Mohammed, International journal of Chemical Reactoer Engineering 8(1). 2010***
17. ***Column Biosorption of lead, cadmium, copper and arsenic ions onto Algae. AH Sulaymon, AA Mohammed. J Bioprocess Biotech 3(128), 2.***
18. ***Flotation and Sportive- Flotation Method for removal of lead ions from wastewater using SDS as surfactant and Barley Husk as biosorbent. A.A Mohammed. A.Alwared Journal of Chemistry, 2013.***
19. ***Biosorption of cadmium ions onto Garden Grass. A.H Sulaymon, A.A Mohammed. TJ Al- Musawi.***
20. ***Predicting the minimum fluidization velocity of Algal biomass bed. A.H Sulaymon, A.A Mohammed. T.J Al- Musawi. American Engineering Journal***
21. ***Biosorption of Pb(II) from aqueous solution by spent black tea leaves and separation by flotation. A A Mohammed ,F.I. Abed,T.J. AL-Musawi. Desalination and Water Treatment. Doi:10.1080/ 19443994. 2014. 982194.***
22. ***Biosorption of lead, Cadmium, and Zinc onto sunflower shell: Equilibrium, kinetic and Thermodynamic studies. A. A. Mohammed. Iraqi Journal of Chemical and Petroleum Engineering, V.16, No.1, March 2015.***
23. ***Removal of heavy metal ions from aqueous solutions using tobacco leaves as sorbent A.H. Tuama ,A.A. Mohammed. Eurepean Journal of Applied Engineering an Scientific Research. 2014 . 3(2), 19-32.***
24. ***Comparative study of removal of Cadmium(II) and Chromium(III) ions from aqueous solutions using low cost biosorbent. Abbas H.Sulaymon, Ahmed A. Mohammed and Tariq J. Al-Musawi. International Journal of Chemical Reactor Engineering. 2014, 12(1): 1-10.***
25. ***Removal of lead and cadmium ions from aqueous solution using walnut shells as low- cost adsorbent materials. F.H.Kamar , A.C.Nechifor, A.A.Mohammed , P.C. Albu, M.E. Craciun. REV. CHIM(Bucharest). 66, No.5. 2015.***
26. ***Bentonite coated with magnetic Fe3O4 nanoparticles as a novel adsorbent for copper (ii) ions removal from water/wastewater AA Mohammed , SS Israa. J Environmental Technology and Innovation 10, 162-174 ,2018.***
27. ***CFD assessment of uniform bubbly flow in a bubble column. Saad N. Saleh, Ahmed A. Mohammed, Farah K AL- Jubory. J Petroleum Science and Engineering 161( February), 96-107, 2018****.*
28. ***Biosorption of lead,copper, and cadmium ions from industrial wastewater using fluidized bed of dry cabbage leves.*** *FH* ***Kamar, AA Mohammed, AAH Faisal, AC Nechifor, G Nechifor. Revista De Chimie. 67, 6, 1039-2016.***
29. ***Role of Fe3O4 magnetite nanoparticles used to coat bentonite in Zinc ions sequestration. AA Mohammed, F Brouers, SS Sadi, TJ AL-Musawi. Environmental nanotechnology monitoring and management. 10, 17-27,2018.***
30. ***Liquid surfactant membrane for lead separation from aqueous solution : Studies on emulsion stability and extraction efficiency. AA Mohammed, HM Selman, J. Environmental Chemical Engineering . 6, 6,6923-6930,2018.***

 1. ***Extraction of lead ions from aqueous solution by co-stabilization mechanisms of magnetic Fe2O3 particles and nonionic surfuctants in emulsion liquid membrane . HM Selman, AA Mohammed. Collids and surfaces A. 56 , 301-310, 2019.***
2. ***Application of bulk liquid membrane technique for cadmium extraction from aqueous solution. AA Mohammed, MA Hussein, ADZ Albdiri. Arabian J. for science and Engineering. 43,11, 5851-5858, 2018***
 |

|  |
| --- |
| ▼ الكتب والمؤلفاتN/A  |

|  |
| --- |
| ▼ رسائل الماجستير الذي اشرف عليها***1. Assessment and treament of depleted uranium contamination of soil selected from some iraqi location. MScThesis, Baghdad University, 2007.*****2. *Electrochemical treatment of raw water, case study of Al-Hussainya river. MSc Thesis, Baghdad University, 2009.*** ***3. Reuse of wastewater effluent from cooling tower. M.Sc Thesis, Baghdad University, 2009.******4. Separation of oil from o/w emulsiom by electroflotation technique. MSc Thesis, Baghdad University, 2009.******5. Removal of lead from simulated wastewater by electrocoagulation method. MSc Thesis, Baghdad University, 2010.*** ***6. Removal of Cu+2,Pb+2 and Ni+2 ions from simulated wastewater by ion exchange method. MSc Thesis, Baghdad University, 2011.*** ***7. Removal of copper ion from wastewater by flotation. MSc Thesis, Baghdad University, 2011.*** ***8. Flotation method for selective separation of zinc and lead from wastewater. MSc. Thesis, Baghdad University, 2012.*** ***9. Removal of nickel and cadmium ions from simulated wastewater by sorptive flotation. MSc. Thesis, Baghdad University, 2013.*** ***10. Competitive removal of heavy metal ions from simulated wastewater by sorptive flotation using punica gramatum. MSc. Thesis, Baghdad University, 2014.*** ***11. Removal of heavy metals from simulated wastewater by an ion exchange method. MSc. Thesis, AL-Basrah University, 2014*** ***12. Selection of natural adsorbent for removal of metal ions from simulated wastewater. MSc. Thesis, Baghdad University, 2014.*** ***17. Removal of lead,copper and Nickel from aqueous solution by integrated biosorption- flotation technique. Msc Thesis University of Baghdad 2016.******18. Biosorption of Nickel ions and Methylene blue dye from a simulated wastewater by three phase circulated fluidized bed using mixed algae. Msc Thesis University of Baghdad 2018.***19. ***Separation of copper and cadmium from aqueous solutionsusing bulk liquid membrane. Msc Thesis University of Baghdad .2018.*** |
|  |

|  |
| --- |
| ▼ اطاريح الدكتوراه الذي اشرف عليها, ***1. Competitive stripping of multi –organic pollutants from contaminated water in bubble column. PhD. Thesis, Baghdad University,2012*** ***2. Multicomponent biosorption of heavy metals using fluidized algal biomass bed. PhD. Thesis ,Baghdad University,2012*** ***3. Solar powered air-conditioning using absorption refrigeration technique. PhD. Thesis, Baghdad University,2014*****.** ***Forward osmosis process for removal of Lead ,Copper and Nickel ions from aqueous solution. PhD. Thesis, Baghdad University,2015*** **5*. Application of emulsion liquid membrane for extraction and separation of lead and copper ions from simulated wastewater. Ph.D. Thesis, Baghdad University,2019.******6. Investigate the efficiency of magnetized nanoparticles for sequestration of lead,copper and zinc ions from aqueous solution. PhD. Thesis, University of Baghdad 2018.*** |