



Abeer I Alwared

PhD in Environmental Engineering

MSc in Environmental Engineering

**Department of Environmental Engineering-
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▼ Name in Google scholar

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▼ Career

- **Water treatment**
- **sustainable development**

▼ Academic degree : Professor

▼ Studies and researches

- Sulaymon A H., and Abeer I. Alwared “Drag Force of Two Spheres in Power Law Fluid”, Collage of Engineering Journal, Baghdad University, Journal of Engineering, vol.16., no.2, 2010.
- Sulaymon A H., Catherine A. M. E. Wilson and Abeer I. Alwared , "Experimental Determination of the Virtual Mass Coefficient for Two Spheres Accelerating in a Power Law Fluid", Journal of Fluids Engineering , vol. 132, 2010.



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- Sulaymon A H.,, Sawsan A. M. Mohammed and Abeer I. Alwared, " Hydrodynamic Interaction Between Two Spheres in Newtonian and non Newtoniann Fluid ", *Journal of Applied Sciences Research*, 7(7),2011,
- Sulaymon A H.,, Catherine A. M. E. Wilson and Abeer I. Alwared, " An experimental investigation of the settling behavior of two spheres in a power law fluid ",*Journal of Non-Newtonian Fluid Mechanics* 192 ,2013.
- Mustafa Y A , Alwared A I and Ebrahim M, Removal of Oil from Wastewater by Advanced Oxidation Process / Homogeneous Process, *Journal of Engineering* , vol. 19 , no. 6 , 2013,
- Ahmed A. Mohammed, Shahlaa E. Ebrahim, and Abeer I. Alwared ." Flotation and Sorptive-Flotation Methods for Removal of Lead Ions from Wastewater Using SDS as Surfactant and Barley Husk as Biosorbent ", *Journal of Chemistry* Vol. 2013 ,(2013),Article ID 413948
- Abeer I. Al wared, " Artificial Neural Network Approach for Prediction Lead Ions Removable from Wastewater by Flotation method"" , *Journal of Engineering Science of the Society of Engineering Colleges* vol. 25, no.1, 2013.
- Mustafa Y A. , Jaid G. M. , Alwared A I and Ebrahim M,"The use of artificial neural network (ANN) for the prediction and simulation of oil degradation in wastewater by AOP", *Environmental Science and Pollution Research*
- Alwared A I and Zeki S L , " Removal of Water Turbidity by using Aluminum Filings as a Filter Media", *Journal of Engineering*, vol.20 , no. 7, 2014.
- Mustafa Y A., Alwared A I and Ebrahim M, " Heterogeneous Photocatalytic Degradation for Treatment of Oil from Wastewater", *Al_ Khwarizmi Engineering Journal*, vol.10 , no.3, 2014.
- Sulaymon A H., Abdul-Ahad M Y and Alwared A I " Removal Water Turbidity by Crumb Rubber Media", *Al-Khwarizmi Engineering Journal*, vol.10 , no. 2 , 2014.



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- Alward A I. and Faraj N S, “Coagulation - Flotation Process for Removing Oil from wastewater using Sawdust+ Bentonite,” Journal of Engineering, vol 21 no 6, 2015.
- Alward A I., Daood D S., Suhair K. Al-Hubboubi “Mechanical Properties of Date Palm Leaf – Stem Fibers Reinforced Concrete”, The 2nd International Conference of Buildings, Construction and Environmental Engineering (BCEE2-2015)
- Sulaymon A H., Alward A I.,” Prediction of Drag Coefficient for Accelerated Single Sphere in Power Law Fluids” , Journal of Engineering Science of the Society of Engineering Colleges, vol.2 no.22 , 2015.
- Ali J. Jael , Al-ward A I., Zainab Z. Ismail ,”Prediction of sustainable electricity generation in microbial fuel cell by neural network: Effect of anode angle with respect to flow direction”, Journal of Electroanalytical Chemistry, 67 (2016) 56–62.
- Alward A I , Daad S., Suhair K. Al-Hubboubi, 2016, “Effect of Date Palm Leaf Fiber on Mechanical Properties of Concrete” , Journal of Engineering Science of the Society of Engineering Colleges, vol.2 no.23 :49-66.
- Ismail Z Z , Alward A I. and Ali Jael , 2017“Recourse recovery of bioenergy from cellulosic material in a microbial fuel cell fed with giant reed-loaded wastewater” , Biofuels .
- Alward A I and Sadiq N A, 2017, “Competitive Removal of Lead Copper and Cadmium from Aqueous Solution onto Tea Waste”, Journal of Engineering Science of the Society of Engineering Colleges , Vol 24, no. 3 .
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- Duaa E. Aljubori Dr. Suhair K.Al-Hubboubi and Abeer I. Alwared,2018, “Thermal Properties of Lead-Acid Battery Plastic Lightweight Concrete”, Journal of Engineering, 24(12),
- Alwared A I., Al-Hubboubi S K. A. and Rasen R A, 2018, “Effect of Waste Glass Powder as a Supplementary Cementitious Material on the Concrete Mix Properties”, Association of Arab Universities Journal of Engineering Sciences , 25(4)
- Alwared A I.; Sadiq N A, 2019, “Competitive Removal of Lead Copper and Cadmium Ions by sorptive flotation using marble wastes”,International Journal of Environment and Waste Management, 23(2).
- Abdulhussein Shahad A., Abeer I. Alwared, 2019, “The use of Artificial Neural Network (ANN) for modeling of Cu (II) ion removal from aqueous solution by flotation and sorptive flotation process”, Environmental Technology & Innovation, 13:353–363
- Abeer I. Alwared, Nada Abdulrazzaq and Baseem Al-Sabbagh, 2019, “Micro-Bubble Flotation for Removing Cadmium Ions from Aqueous Solution: Artificial Neural Network Modeling and Kinetic of Flotation”, Iraqi Journal of Chemical and Petroleum Engineering, Vol.20, no.2 :1 –9.
- Hala Abdelkareem, Abeer Alwared, Tariq Jwad Al-Musawi and Francois Brouers ” 2019, A Comparative Study for the Identification of Superior Biomass Facilitating Biosorption of Copper and Lead Ions: A Single Alga or a Mixture of Alga ” , International Journal of Environmental Research .
- Alwared A I and Sadiq N A.Competitive Removal of Lead Copper and Cadmium Ions by sorptive flotation using marble wastes, International Journal of Environment and Waste Management, 23(2). 2019



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- Jaber W Sh and Alwared A I. Removal of oil emulsion from aqueous solution by using Ricinus communis leaves as adsorbent, 2019.
 - Abdul Kareem H N and Alwared A I. Performance of Immobilized Chlorella algae for removing pb(II) ions from aqueous solution, Journal of chemical and petroleum engineering, vol.20(3). 2019 :1-6.
 - Abdul Kareem H N and Alwared A I Immobilization Dried mix of algae for Copper removal, Iraqi Journal of Agricultural Sciences ,50(3). 2019:800- 808.
 - Sabah I and Alwared A I Adsorption of Congo Red Dye from Aqueous Solutions by Wheat husk, Journal of Engineering journal, 25(12).2019:72-84.
 - Sabah I and Alwared A I Adsorption of Congo red Dye from Aqueous Solution onto Wheat Husk in a Fluidized Bed Reactor, Iraqi Journal of Chemical and Petroleum Engineering Vol.20 No.4: 2019.55 – 60.
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- Mohammed A A. Najim A N , Al-Musawi T J and Alwared A I .Adsorptive performance of a mixture of three nonliving algae classes for nickel remediation in synthesized wastewater, Journal of Environmental Health Science and Engineering,17.2019:529–538.
 - Alwared A I Jael A J Ismail Z Z .New application of eco-friendly biosorbent giant reed for removal of reactive dyes from water followed by sustainable path for recycling the dyes-loaded sludge in concrete mixes, Journal of Material Cycles and Waste Management, 22.2020 :1036–1046.
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- Alwared A I, Al-Musawi T J F. Muhaisn L F and Mohammed A A. Received: 10The biosorption of reactive red dye onto orange peel waste: a study on the isotherm and kinetic processes and sensitivity analysis using the artificial neural network approach, Environmental Science and Pollution Research. 2020.



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- Mohammed N A , Alwared A I Salman M S.Photocatalytic Degradation of Reactive Yellow Dye in Wastewater using H₂O₂/TiO₂/UV Technique, Iraqi Journal of Chemical and Petroleum Engineering, 21(1). 2020:15 – 21.
- Mohammed N A , Alwared A I Salman M S.Decolorization of Reactive Yellow Dye by Advanced Oxidation Using Continuous Reactors, Iraqi Journal of Chemical and Petroleum Engineering, 21(2).2020:1 – 6.
- Jaber W Sh and Alwared A I.Spiral path three phase fluidized bed reactor for treating wastewater contaminated with engine oil, Applied Water Science (2020) 10.2020:208.

▼ MSc Students:

- Treatment of Wastewater by Advanced Oxidation Processes , Muthanna Ibrahim Hayder, 2012
- Performance of Packed Bed Filters for Removal of Water Turbidity, Suhair Luay Zeki, 2013
- Enhanced Efficiency of Floatation Process for the Removal of Oil from Wastewater by using Coagulation, Nora Saad, 2014
- Utilize Palm Date Wastes for Enhancing Concrete Characteristics, Daad Saad , 2015
- Competitive study to remove heavy metals from wastewater by sorptive flotation using low cost adsorbent, Nada Ali Sadiq, 2016



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- Utilization solid wastes in the production of pozzolanic material, Raghda Abed Alnabi , 2017
 - Removal of Cu+2 and Ni+2 ions from aqueous solution using flotation and sorptive flotation with application of artificial neural network, Shehed Ali, 2018
 - utilization of waste plastic boxes of expired acidic lead batteries in structural light weight concrete mix, Duaa Edan , 2018
 - Performance of Fluidized Bed Reactor Process in Removing Dyes from Simulated Wastewater, Isra Sabah , 2019
-

▼ Books

- Alwared, A I and Sulaymon, A H, 2013“Hydrodynamic of Spheres in Various Solutions”, LAMBERT Academic <https://www.lap-publishing.com/extern/listprojects>
 - Khalaf, D. E. , Alarmed A.I. and Al- Hubboubi S.K. (2019) , Waste Plastic Boxes of Acidic Lead Batteries in Lightweight Concrete “,LAMBERT Academic <https://www.lap-publishing.com/extern/listprojects>
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▼ **PhD Students:**

- **PhD in Environmental Engineering**
Three Phases Fluidized Bed Reactor for Removing Lead and Copper ions from Aqueous Solution, Hala Abdulkareem, 2018
- **MSc in Environmental Engineering**
Removal of Oil from Aqueous Solution by Three Phase Spiral Fluidized Bed Reactor, Wisam Shamkhi, Jaber, 2019
- **Department of Environmental Engineering-
College of Engineer – University of Baghdad**
Degradation of pharmaceutical contaminants from aqueous solution by solar photocatalysis, Paula Abed Al-Qadiri, 2020.

