

## Curriculum Vitae

**Name:** Assist Professor Dr. Jasim Mohammed Salman

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**i10-index:** 35



### Academic Qualifications Profile

1. B.Sc. in Chemical Engineering, Chemical Engineering Department- Baghdad University, Iraq, **1981-1986**.
2. M.Sc. in Chemical Engineering, Chemical Engineering Department, Baghdad University, **1988-1990**. **Thesis:** “Release of sensible and latent heat using wax as storage medium.
3. Ph.D. in Chemical Engineering, School of Chemical Engineering, University of Science Malaysia, Malaysia, 2010. **Dissertation:** Adsorption of the pesticides: Bendozan, Carbofuran and 2,4-D by mesoporous activated carbons prepared from agriculture waste.

### Qualifications:

- Ph.D. (Chem. Eng.) (USM, Malaysia)/2010
- M.Sc. (Chem. Eng.) (Univ. of Baghdad)/ 1990

- B.Sc. (Chem. Eng.) (Univ. of Baghdad)/1986
- M.Sc. in Globalization, Governance and International Understanding (Link Campus University, Italy)/ 2020
- Certified international quality consultant

**Scientific Experience:**

Chemical Engineer Process, Adsorption Process, Preparation of Activated Carbons, Environmental analysis, Water, soil, air monitoring and analysis (Laboratories & Fields), Solar energy applications.

1. Adsorption of pollutants in the aqueous solution and gas phases
2. Preparation of activated carbons
3. Evaluation of the environment factors (water, soil, air) laboratories and fields
4. Petroleum analysis
5. Environmental pollution and industrial water treatment
6. Continuous monitoring (real time monitoring) of drinking and rivers water
7. Preparation of different qualities of specialty oils and greases
8. Solar energy applications
9. Applications of chemical engineering
10. Detection pesticides, PAHs, BETX, Heavy metals petroleum compounds and phenols in soil and water.

**Jobs:**

- Head of energy department, Iraq University College, (Jan. 2021- date).
- Dean of Al-Kunooze University Collage, (March 2019- January 2021)
- Assistant Dean for Scientific Affairs- Al-Nisour University Collage, (February 2016- March 2019).
- Production and laboratories QC manger –Iraqi Industrial Ministry (October 2010 - November 2015).
- Professor, Madenit Ilim University College, Baghdad, (Feb. 2005- Sep. 2010)
- Production and laboratories QC manger –Iraqi Industrial Ministry (June 1986 – January 2005).

### **Membership and Reviewing in Scientific Journals:**

1. Editor manager of Iraqi Academy Journal-Iraq
2. Editor-in-chief of the Al Kunooze Scientific Journal-Iraq
3. Editor-in-chief of Administrative and Law Sciences Journal- Iraq
4. Editorial member of Experimental and Theoretical Nanotechnology Journal-Malaysia
5. Editorial member of Al-Nisour Journal of Medical Sciences
6. Reviewer in Journal of Desalination and Water Treatment
7. Reviewer Journal of Environmental Science and Health, Part B
8. African Journal of Biotechnology
9. Bio resources Journal
10. Chemical Engineering Journal
11. Fluid Phase Equilibria Journal
12. Green Chemistry Letters and Reviews Journal, International Journal of Recycling of Organic Waste in Agriculture
13. International Journal of Research in Chemistry and Environment (IJRCE)
14. Journal of Analytical and Applied Pyrolysis
15. Journal of the Taiwan Institute of Chemical Engineers
16. Research on Chemical Intermediates Journal
17. American Journal of Experimental Agriculture
18. Separation Science and Technology Journal.
19. Patent department- Ministry of planning-Iraq

### **Journals Publications:**

1. Alaa J. Mohammed, Mohd Hafiz Ibrahim, Syaizwan Z. Zulkifli and Jasim M. Salman. Synthesis and characterisation of a nano-adsorbent derivative derived from grape seeds for cadmium ion removal in aqueous solution. Journal of water, MDPI, 13 (2021).
2. Jasim M. Salman, Alaa J. Mohammed and Mohammed J. Mohammed. Preparation of bio-nanoparticles adsorbent derivative from Iraqi date seeds for the removal of pollutants from aqueous solutions. Journal of Experimental and Theoretical NANOTECHNOLOGY, September (2021).
3. H. S. Mohammed and Jasim M. Salman. Develops and analysis of prosthetic foot by new idea. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)/ ISSN 2249-8001, 2020.
4. H. S. Mohammed and Jasim M. Salman. Business Impacts of COVID -19 Pandemic on People across Iraq. Test Engineering and Management Magazine / ISSN 01934120. 2020. Develops and analysis of prosthetic foot by new idea. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)/ ISSN 2249-8001, 2020.

5. H.S. Mohammed, S. Dowes and Jasim M. Salman. Developing of SCM-SAC-OCDMA-FSO System by using MD Code Technque to Overcome the Haze Attenuation. Journal of Information and Telecommunication, 2019.
6. Jasim M. Salman, A. J. Kadhim and F. M. Abed. Evaluation of dioxins and polychlorinated biphenyl in growing sheep's, bovines and fish's meat using chromatography techniques. Vol: 14 (No.:03-04): (Journal of Engineering and Applied Sciences. 2019/February.
7. Jasim M. Salman and A. J. Kadhim. Optimization study of preparation twigs tamarisk trees activated carbon for removal of methylene blue. Vol: 11 (No.:9-10): (Research Journal of Pharmacy and Technology. October 2018.
8. Jasim M. Salman and A. J. Kadhim. Evaluation PAHs in agriculture soil samples - Al-Khacheya site south of Baghdad-Iraq.V18/No. (2). Journal of plant active. 2018/October.
9. Jasim M. Salman and A. J. Kadhim. Investigation study on heat transfer of paraffin wax for solar energy applications. Vol: 18 (No.:13-14): (Journal of Engineering and Applied Sciences. 2018/August.
10. Jasim M Salman. Design and Implementation of Online Continuous and Direct System for Monitoring the Quality of Drinking Water that Produce in Liquefaction Plants. Iraqi Journal of Science and Technology. 2015.
11. Jasim M. Salman. Preparation of Activated Carbon from Olive Seeds for Removal of 2, 4-D in Aqueous Solutions. SCIENCEDOMAIN international Journal. Vol. 7, Issue 1. 2015.
12. Jasim M. Salman and Falah H. Hussein. (2014). Batch Adsorber Design for Different Solution Volume/Adsorbate Mass Ratios of Bentazon, Carbofuran and 2,4-D Adsorption on to Date Seeds Activated Carbon. J Environ Anal Chem ISSN: JREAC, an open access journal, Volume 2 • Issue 1 • 1000120
13. Jasim M. Salman, S. H. Muter and A. M. Salman. Design and installation of online monitoring system for drinking water and river water. Journal of Iraqi Industrial research, (ISSN 2226-0722).Vol 1, No. 1, pp 1-4, 2014.
14. Jasim M. Salman, S. H. Muter and A. M. Salman. Preparation of mesoporous activated carbon from olive seeds by physiochemical activation: Optimization study on removal of herbicide 2, 4-D from aqueous solution. Journal of Iraqi Industrial research, (ISSN 2226-0722).Vol 1, No. 1, pp 1-7, 2014.

15. Jasim M. Salman and F. H. Hussein. Batch Adsorber Design for Different Solution Volume/Adsorbate Mass Ratios of Bentazon, Carbofuran and 2,4-D Adsorption on to Date Seeds Activated Carbon - Journal of Environmental Analytical Chemistry, Vol 2, Issue 1, 2014.
16. Jasim M. Salman. Preparation of Banana Bunch Fruits Activated Carbon for Pesticides Removal from Aqueous Solution - Progress in Chemical Engineering, Vol. 1, Issue 1, Pages 19-21. 2014.
17. Jasim M Salman. Design and manufacture measuring system of specifications drinking water produced in the liquefaction plants. Volume of the board of industrial R & D Journal. 2014.
18. Jasim M Salman. Preparation of mesoporous activated carbon from palm-date pits: Optimization study on removal of bentazon, carbofuran and 2,4-D using response surface methodology. Journal of Water Science and Technology. Vol. 68, Issue 7, pp1503-1511. 2013.
19. Jasim M. Salman & F. M. Abid. Optimization study of preparation eucalyptus trees activated carbon for removal of methylene blue dye from aqueous solution. Advances in Physics Theories and Applications, ISSN (Paper) 2224-719X ISSN (Online) 2225-0638. 2014.
20. Jasim M. Salman. Optimization of preparation conditions for activated carbon from palm oil fronds using response surface methodology on removal of pesticides from aqueous solution. Arabian Journal of Chemistry. Vol. 7, pp101–108. 2014.
21. J.M. Salman and F. D. Almutairi. Batch adsorption study of methylene blue dye onto sunflower seeds husks activated carbon. Journal of Advances in Natural Science, Vol. 6, No. 3, pp. 44-47. 2013.
22. Jasim M Salman and F. M. Abid. Preparation of mesoporous activated carbon from palm-date pits: Optimization study on removal of bentazon, carbofuran and 2,4-D using response surface methodology. Water Science & Technology, Vol. 68 No 7 pp 1503–1511. 2013.
23. Jasim M Salman and M. J. Mohammed. Batch study for herbicide bentazon adsorption onto branches of pomegranates trees activated carbon. Desalination and Water Treatment Journal. Vol. 51, pp5005-5008. 2013.
24. Jasim M Salman. Batch Study for Insecticide Carbofuran Adsorption onto Palm oil fronds activated carbon. Journal of Chemistry. Volume (2013), Article ID 630371, 5 pages. 2013.

25. Jasim M Salman. Preparation of Mesoporous-Activated Carbon from Branches of Pomegranate Trees: Optimization on Removal of Methylene Blue Using Response Surface Methodology. *Journal of Chemistry*, Volume (2013), Article ID 489670, 6 pages. 2013.
26. Jasim M. Salman, F. M. Abid and A. A. Muhammed. Batch Study for Pesticide Glyphosate Adsorption onto Palm Oil Fronds Activated Carbon. *Asian Journal of Chemistry*; Vol. 24, No. 12, pp 5646-5648. 2012.
27. F. M. Abid and Jasim M. Salman. Liquid Chromatographic Method for Determination of Biogenic Amines in Imported Fish and Meat Products. *Asian Journal of Chemistry*; Vol. 24, No. 12 (2012).
28. Jasim M. Salman, W. A. Mahmoud, A. A. Muhammed and F. M. Abid. Adsorption study of carbofuran onto mesoporous activated carbon prepared from palm oil fronds. *Int. J. Chem. Sci.*: 10(2), pp 768-776. 2012.
29. Jasim M. Salman, S. I. Khaleel, A. A. Muhammed and F. M. Abid. Preparation of mesoporous activated carbon from willow legs: Optimization study on removal of methylene blue using response surface methodology. *Int. J. Chem. Sci.*: 10(2), pp 901-913.2012.
30. Jasim M. Salman and Khalid Al-Saad. Batch study for herbicide bentazon adsorption onto palm oil fronds activated carbon. *J. Chem. Sci.*: 10 (2), 731-740. 2012.
31. Jasim M. Salman and Khalid Al-Saad. Adsorption of 2,4-D onto date seeds activated carbon: Equilibrium, kinetic and thermodynamic studies. *Int. J. Chem. Sci.*: 10(2), pp 677-690. 2012.
32. Jasim M. Salman, V.O. Njoku, B.H. Hameed. Bentazon and carbofuran adsorption onto date seed activated carbon: Kinetics and equilibrium. *Chemical Engineering Journal*.173,pp 361-368. 2011.
33. Jasim M. Salman, V.O. Njoku, B.H. Hameed, Batch and fixed-bed adsorption of 2,4-dichlorophenoxyacetic acid onto oil palm frond activated carbon *Chemical Engineering Journal*, 174, pp 33-40. 2011.
34. Jasim M. Salman, V.O. Njoku, B.H. Hameed, Adsorption of pesticides from aqueous solution onto banana stalk activated carbon. *Chemical Engineering Journal*, 174, pp 41-48. 2011.
35. Jasim M. Salman. Adsorption of carbofuran insecticide from aqueous solution using commercial activated carbon. *Int. J. Chem. Sci.*: 9(2), pp 557-564.2011.

36. Jasim M. Salman. Batch and fixed-bed adsorption studies of 2,4-D pesticide from aqueous solution using coconut activated carbon. *Int. J. Chem. Sci.*:9(2), pp620-626.2011.
37. Jasim M. Salman. Optimization of pesticides removal by banana stalks activated carbon using response surface methodology. *E-Journal of Chemistry*. (1718) ISSN 0973-4945, June 2011.
38. Jasim M. Salman, F. M. Ali and H. S. Hassen, Substituted polyitaconic acid with different amines as biodegradable polymers. *Journal of college of Education*, 6 (2011) 366-377.
39. Jasim M. Salman, A. A. Muhammed and F. M. Ali, Batch adsorption of methylene blue dye onto date stone activated carbon. *Journal of college of Education*, 5 (22) (2011).
40. Jasim M. Salman, A. A. Muhammed and H. S. Hassen, Adsorption of 2, 4-Dichlorophenoxyacetic acid onto coconut activated carbon: kinetics and equilibrium studies. *Journal of college of Education*, 5 (22) (2011).
41. Jasim M. Salman (2011). Preparation of mesoporous activated carbon from palm-date pit: Optimization study on removal of bentazon, carbofuran and 2,4-Dichlorophenoxyacetic acid using response surface methodology. *E-Journal of Chemistry*. (1716) ISSN 0973-4945, June 2011.
42. Jasim M. Salman (2011). Optimization of preparation conditions for activated carbons from palm oil fronds using response surface methodology on removal of pesticides from aqueous solution. *E-Journal of Chemistry*. (1713) ISSN 0973-4945, June 2011.
43. Jasim M. Salman (2011). Batch adsorption studies of bentazon herbicide from aqueous solution using coconut activated carbon. *Journal of madenatalem collage*.3 (1), 2011.
44. Jasim M. Salman and B.H. Hameed (2010). Effect of preparation conditions of oil palm fronds activated carbon on adsorption of bentazon from aqueous solutions. *Journal of Hazardous Materials*, 175, 133-137.
45. Jasim M. Salman and B.H. Hameed (2010). Removal of insecticide carbofuran from aqueous solution by banana stalks activated carbon. *Journal of Hazardous Materials*. 175, 133–137.
46. Jasim M. Salman and B.H. Hameed (2010). Adsorption of 2,4-dichlorophenoxyacetic acid and carbofuran pesticides onto granular activated carbon. *Desalination*. 256, 129–135.

47. Jasim M. Salman, B.H. Hameed and A.L. Ahmad (2009). Adsorption isotherm and kinetic modeling of 2,4-D pesticide on activated carbon derived from date stones. *Journal of Hazardous Materials*, 163, 121-126.

### **Books Publications:**

1. Jasim M. Salman (2013). Preparation of activated carbons for adsorption of pesticides. LAP LAMBERT Academic Publishing, Heinrich-Böcking-Straße 6-866121 Saarbrücken, Germany.

### **Conferences Publications:**

1. Jasim M. Salman, Fanar G. Hashim and Bashdar I. Meena. Investigation of Sensible and Latent Heat Storage System Using Iraqi Paraffin Wax as Storage Media. The 4<sup>th</sup> International Conference on Materials Engineering and Science [October 06-07, 2021 - Duhok, Kurdistan – Iraq. 018/IconMEAS/2021 July 26, 2021.

2. Jasim M. Salman and Alaa J. Mohammed. Characterization and application of activated carbon prepared from Iraqi zahdi date seeds. In the preceding of Webinar on, “Chemistry” held during March 31 - April 01, 2021, Osaka, Japan.

3. Jasim M. Salman, Alaa J. Mohammed and Syaizwan Z. Zulkifli, (2021). Characterization and preparation of grape seeds nanoparticles adsorbent for the removal of heavy metals from aqueous solutions. Accepted for presentation in the 2<sup>nd</sup> Edition of World Nanotechnology Conference (World Nano 2021)” April 19-21, 2021 in Orlando, USA.

4. Jasim M. Salman, Alaa J, Mohammed and Syaizwan Z. Zulkifli (2021). Characterization and preparation of nanotube activated carbons from agriculture by products for the removal of pollutants from aqueous solutions. In *Advanced Materials Lecture Series, International Association of Advanced Materials, Sweden*, 19 January 2021.

5. Jasim M. Salman, Alaa J. Mohammed and Mohammed J. Mohammed. Characterization and preparation of porous activated carbons from agriculture by products for the removal of pollutants from aqueous solutions. The 25<sup>th</sup> International Conference on Advanced Materials Science and Engineering”, November 16-17, 2020, in Paris, France.

6. Jasim M. Salman, Alaa J. Mohammed. Detection of PAHs and Metals Ions in Tigris River near Baghdad City. In the preceding of 2<sup>nd</sup> Global Congress on Chemistry & Catalysis” June 22-23, 2020, Osaka, Japan.



7. Jasim M. Salman, Alaa J. Mohammed and Syaizwan Z. Zulkifli. Preparation and Characterization of Bio char from Iraqi Date Palm Bunch Fruits for the Adsorption of Cadmium and Lead Metals Ions from Aqueous Solution. In the preceding of 2<sup>nd</sup> Global Congress on Chemistry & Catalysis” June 22-23, 2020, Osaka, Japan.
8. Jasim M. Salman, Alaa J. Mohammed and Syaizwan Z. Zulkifli. Heavy Metals Contamination in Aqueous Solutions and their Removal Techniques: Review Article. In the preceding of 2<sup>nd</sup> Global Congress on Chemistry & Catalysis” June 22-23, 2020, Osaka, Japan.
9. Jasim M. Salman, Alaa J. Mohammed and Mohammed J. Mohammed. Characterization and application of nanotube activated carbon prepared from Iraqi zahdi date seeds. In the preceding of 2<sup>nd</sup> Global Congress on Chemistry & Catalysis” June 22-23, 2020, Osaka, Japan.
10. Mohammed J Mohammed, Nora Jullok and Jasim M. Salman. Adsorption of Cadmium and led Ions from River Water Using Iraqi aquatic plant *Chlorella vulgaris*. In the preceding of 2<sup>nd</sup> Global Congress on Chemistry & Catalysis” June 22-23, 2020, Osaka, Japan.
11. Nora Jullok, Mohammed J Mohammed and Jasim M. Salman. Optimization Study for removal of Heavy Metals from Aqueous Solution onto Activated Carbone Prepared from olives seeds. 6<sup>th</sup> International Conference on Advances in Chemical Engineering & Technology” March 02-03, 2020 London, UK.
12. Jasim M. Salman and Abed Jawad Kadhim. Monitoring and Evaluation the Environmental Impact in Badra Oil Field South of Baghdad-Iraq. The 6<sup>th</sup> International Conference on Advances in Chemical Engineering & Technology” March 02-03, 2020 London, UK.
13. Jasim M. Salman. Automatic monitoring and control chlorine dosing for drinking water plants requires. International Invention Fair in the Middle East, pp 58, 16-19 February 2020, Kuwait.
14. Jasim M. Salman, A.J. Mohammed and S. Z. Zulkifli. Characterization and preparation of porous activated carbon for the removal of heavy metals from aqueous solutions. In the preceding of Malta IX conference, pp 38. December 8-13, 2019 Malta.
15. Jasim M. Salman and A. J. Khadim. Preparation of mesoporous and granular activated carbon from Iraqi zahdi date seeds. The international trade fair (ideas-inventions-new products) November 2019, Nuremberg, Germany.

16. M. J. Mohammed, A.J. Mohammed and J. M. Salman. Characterization and application of nanotube activated carbon for the removal of pollutants from aqueous solutions. In the preceding of the European Advanced Materials Congress August, 2019, Stockholm, Sweden.
17. J. M. Salman. Isolation and characterization of ellagic acid from Iraqi white flesh pomegranate, Global chemistry conference, PP54, Rome, Italy 10-12 June 2019
18. Jasim M. Salman and A. J. Khadim. Characterization and application of nanotube activated carbon prepared from Iraqi zahdi date seeds. The Meeting on Nanotechnology: Principles and Applications. November 2018 in University of Malaya, Kuala Lumpur, Malaysia.
19. Jasim M. Salman and A. J. Khadim. Environmental impacts of Oil fields on soil and water south of Baghdad – Iraq. The 3<sup>rd</sup> international conference on petrochemistry and natural resources, Prague, Czech Republic, October 2018.
20. Jasim M. Salman and A. J. Khadim. Real time monitoring and control system for drinking water quality insurance. Green Technologies 2018, Berlin, Germany.
21. J. M. Salman and A. J. Khadim. Optimization study for preparation of activated carbon from Iraqi palm date fronds using response surface methodology on removal of phenolic compounds from aqueous solution. The 9<sup>th</sup> International Conference and Expo on Separation Techniques” during September 13-14, 2018 at Zurich, Switzerland.
22. Jasim M. Salman and A. J. Khadim. Preparation and characterization of nano tube zahdi date seeds activated carbon for removal of phenolic compounds from aqueous solutions. The 15<sup>th</sup> Eurasia Conference on Chemical Science, during September 5 - 8, 2018 in Rome, Italy.
23. Jasim M. Salman. Evaluation the environmental pollutants in soil and water in kut oil field south of Iraq). In the preceding of the “Frontiers of Science: Research and Education in the Middle East” (Malta VIII), Malta, December 10-15, 2017.
24. Jasim M. Salman and A. J. Khadim. Attending the 3<sup>rd</sup> scientific conference on environment and sustainable development. Environmental research center-University of Technology, Baghdad, Iraq. 15-16 November 2017.
25. Jasim M. Salman and A. J. Khadim. Attending the 1<sup>st</sup> conference to develop health system strategy. Iraqi Parliament& Iraqi Ministry of Health and environment, Baghdad, Iraq. 26 November 2017.
26. Jasim M. Salman and A. J. Khadim. Fixed-bed columns for removal of pollutants and excess of free chlorine from drinking water. In the preceding of the European Advanced Materials Congress August, 2017, Stockholm, Sweden.

27. Jasim M. Salman. Preparation Nabk (Jerusalem thorn) twigs trees activated carbon for removal of methylene blue from aqueous solution. In the preceding of the European Advanced Materials Congress August, 2017, Stockholm, Sweden.
28. Jasim M. Salman and A. J. Khadim. Optimization study of preparation twigs tamarisk trees activated carbon for removal of methylene blue. In the preceding of the In the preceding of 5<sup>th</sup> Annual International Conference on Chemistry, 17-20 July 2017), Greece, Athena.
29. Jasim M. Salman and A. J. Khadim. Purification and micro filter of suspended particles and bacteria in drinking water. In the preceding of the In the preceding of the Frontiers International Conference on Wastewater Treatment FICWTM2017.p 809-814, 21-24 May -2017, Palermo-Italy.
30. Jasim M. Salman and A. J. Khadim. Preparation of activated carbon from Iraqi green olives seeds for removal of pollutants from aqueous solutions. Conference – Al-Rafiden University College. April-2017, Baghdad.
31. Jasim M. Salman and A. J. Khadim. Evaluation and monitoring the impact environmental pollution in water and soil south of Baghdad (IRAQ). In the preceding of the 2nd national conference for chemical, biological, radiation and nuclear safety. April, 2017. Baghdad.
32. Jasim M. Salman. Optimization of pesticides removal by olive tree stalk activated carbon using response surface methodology. In Proceedings of Conference on Frontiers of Chemical Sciences V: Research and Education in the Middle East, p, 15<sup>th</sup> -20<sup>th</sup> November 2015, **Al-Rebate, Morocco**.
33. Jasim M. Salman (2014). Production of Soften Drinking Water by Micron Filtration Technique. In Proceedings of the Desalination for the Environment: Clean Water and Energy, 11–15 May, 2014, **Limassol, Cyprus**.
34. Jasim M. Salman and Abdalkarim M Salman. Design and implementation of continuous monitoring system for drinking and river water. In Proceedings of the Conference Commission of Research & Industrial Development, Ministry of Industrial & Minerals, February 2014, **Baghdad, Iraq**.
35. Jasim M. Salman and Abdalkarim M Salman. Preparation of mesoporous activated carbon from olives seeds by physiochemical activation: Optimization study on removal of herbicide 2,4-Dichlorophenoxyacetic acid from aqueous solutions. In Proceedings of the Conference Commission of Research & Industrial Development, Ministry of Industrial & Minerals, February 2014, **Baghdad, Iraq**.

36. Jasim M. Salman and Abdalkarim M Salman. Evaluation and monitoring the impact environmental pollution in water and soil south of Baghdad (IRAQ). In Proceedings of the Conference on Frontiers of Chemical Sciences V: Research and Education in the Middle East, p 59, 10<sup>th</sup> -15<sup>th</sup> November 2013, **Valetta, Malta**.
37. Jasim M. Salman and Abdalkarim M Salman. Online Monitoring Analysis of Tigris River Water Quality North of Baghdad (Al-Taji Site). In Proceedings of Conference on Frontiers of Chemical Sciences V: Research and Education in the Middle East, p 88, 10<sup>th</sup>-15<sup>th</sup> November 2013, **Valetta, Malta**.
38. Jasim M Salman, Seminar in Water and Waste Water Industry. Endress+Hauser academy. 06 - 12 October 2013. **Basel, Switzerland**.
39. Jasim M. Salman, Fifth session of the intergovernmental negotiating committee on mercury, 13 to 18 January 2013. **Geneva, Switzerland**.
40. Jasim M. Salman, Abdulkarim Mohammed and F.M. Abid. Evaluation of Tigris River Raw Water Quality near Al Towatha Site South of Baghdad. In Proceedings of the Environmental Science Conference University of Babylon. December 2012. **Iraq**.
41. Jasim M. Salman and Abdulkarim Mohammed. Batch study for herbicide bentazon adsorption onto branches pomegranate trees activated carbon. In Proceedings of the International conference on membranes in drinking and industrial water production. 10<sup>th</sup>– 12<sup>th</sup> September (2012), **Leeuwarden, Netherlands**.
42. Jasim M. Salman. Conversion of agricultural waste to activated carbons for environmental applications. The third specified conference on recycling industrial waste. 2<sup>nd</sup>– 3<sup>rd</sup> May 2012, **Al Muthana University, Iraq**.
43. Jasim M. Salman. Batch study for pesticide glyphosate adsorption onto palm oil fronds active ted carbon. International Conference on Global Trends in Pure & Applied Chemical Sciences (ICGTCS-2012) 3<sup>rd</sup> – 4<sup>th</sup> March, **Udaipur (Rajasthan), India**.
44. Jasim M. Salman. Batch adsorption study of methylene blue dye onto sunflower seed husks activated carbon. International Conference on Global Trends in Pure & Applied Chemical Sciences (ICGTCS-2012) 3<sup>rd</sup> – 4<sup>th</sup> March, **Udaipur (Rajasthan), India**.
45. Jasim M. Salman & F. M. Abid. Liquid chromatographic method for determination of biogenic amines in imported fish and meat products. International Conference on Global Trends in Pure & Applied Chemical Sciences (ICGTCS-2012) 3<sup>rd</sup> – 4<sup>th</sup> March, **Udaipur (Rajasthan), India**.

46. Jasim M. Salman and Abdulkarim M Salman. Batch study for herbicide bentazon adsorption onto palm oil fronds activated. Conference on Frontiers of Chemical Sciences V: Research and Education in the Middle East, 4<sup>th</sup> -9<sup>th</sup> December 2011, **Paris, France**.
47. Jasim M. Salman and Abdulkarim Mohammed. Batch study for insecticide carbofuran adsorption onto oil palm fronds activated. In *Proceedings of the International week water, 1st– 5<sup>th</sup> November (2011)*, **Amsterdam, Netherlands**.
48. Jasim M. Salman and Abdulkarim Mohammed. Preparation of mesoporous activated carbon from date seeds for removal of pollutants from aqueous solution. In *Proceedings of the first Arab- American scientific symposium, 17<sup>th</sup> – 19<sup>th</sup> October (2011)*, **KISR, Kuwait**.
49. J. M. Salman. Regional consultation for the Asia-Pacific region in preparation for the third session of the intergovernmental negotiating committee on mercury, **Kobe, Japan**, 26 – 28 September 2011.
50. Jasim M. Salman, F. M. Ali and H. S. Hassen. Substituted polyitaconic acid with different amines as biodegradable polymers. In *Proceedings of the seventh scientific conference, collage of science-Al Mustansereah university, 3<sup>rd</sup> –4<sup>th</sup> March (2011)*, **Baghdad, Iraq**.
51. Jasim M. Salman and Abdulkarim Muhammed. Batch adsorption study of methylene blue dye onto date stone activated carbon. In *Proceedings of the seventh scientific conference, collage of science-Al Mustansereah university, 3<sup>rd</sup> – 4<sup>th</sup> March (2011)*, **Baghdad, Iraq**.
52. Jasim M. Salman and Abdulkarim Muhammed. Adsorption of 2,4-Dichlorophenoxyacetic acid onto coconut activated carbon: Kinetics and equilibrium studies. In *Proceedings of the seventh scientific conference, collage of science-Al Mustansereah university, 3<sup>rd</sup> –4<sup>th</sup> March (2011)*, **Baghdad, Iraq**.
53. Jasim M. Salman, F.M. Abid and N. A. Jasim. Deteolism using HPLC-MS and Tandem LC-MS-MS. In **Proceedings of the 11<sup>th</sup> Eurasia conference on chemical sciences**, pp. 182. 6-10 October (2010), **Dead sea, Jordan**.
54. Jasim M. Salman, A.L. Ahmad and B.H. Hameed. Adsorption of carbofuran pesticide from aqueous solution using granular activated carbon F-300. In *Proceedings of Colloquium 2009, Synergizing Innovation and Thinking Beyond Sustainable Future*, pp. 33 31<sup>st</sup>. October-1<sup>st</sup> November (2009), **Penning, Malaysia**.
55. Jasim M. Salman and B.H. Hameed. Batch and fixed-bed adsorption studies of 2,4-Dichlorophenoxyacetic acid pesticide from aqueous solution using activated

- carbon. In *Proceedings of Symposium of USM Fellowship Holders*, pp. 76. 14-15 November (2009), **Penning, Malaysia**.
56. Jasim M. Salman and Abdulkarim Mohammed. Tigris river water criteria within 200km around Baghdad city after 2007. In *Proceedings of the Frontiers of chemical sciences IV: Research and education in the Middle East*., pp. 51. 14-19 November (2009), **Amman, Jordan**.
57. Jasim M. Salman, A.L. Ahmad and B.H. Hameed. Removal of 2, 4-D pesticide from water by adsorption onto granular activated carbon. In *Proceedings of 2<sup>nd</sup> USM Penang International Postgraduate Convention (ICYC 2008)*,pp. 234-244. 18-20 June (2008), **Penang, Malaysia**.
58. Jasim M. Salman, A.L. Ahmad and B.H. Hameed. Adsorption of bentazon pesticide from aqueous solution using granular activated carbon. In *Proceedings of 2<sup>nd</sup> International Conference on Science and Technology: Applications in Industry and Education (ICSTIE 2008)*, pp. 447-452. 12-13 December (2008), **Penang, Malaysia**.
59. Jasim M. Salman, A.M. Salman and A. Abdul-Jabbar. The quality of raw water south of Baghdad which used to produce drinking water. In *Proceedings of 2<sup>nd</sup> International Conference on Environment (ICENV 2008)*,pp. 1-6. 15-17 December (2008), **Penning, Malaysia**.
60. J.M. Salman. Removal of pesticides from aqueous solutions by adsorption technique using agriculture solid waste. In *Proceedings of the Frontiers of chemical sciences III: Research and education in the Middle East*, pp. 62.8-13 December (2007), **Istanbul, Turkey**.
61. Jasim M. Salman. Removal of pesticide from aqueous solution by adsorption technique using activated carbon derivative from agriculture waste. American Chemical Society (ACS) international conference. **Boston, USA**.
62. Jasim M. Salman and Abdulkarim Mohammed. Monitoring the drinking water quality produce in five stations south of Baghdad near polluted sources. In *Proceedings of the International conference for Clean Water in Iraq: Water Purification and Environmental Remediation*, 25-29 June (2006), **Jordan**.
63. Jasim M. Salman and Abdulkarim Mohammed. Contamination of drinking water sources by pesticides residues and dyes in Al Zuefuraneah site south of Baghdad. In *Proceedings of the International conference for Environmental contamination and Public Health*, 12-16 February (2006), Amman, Jordan.

64. Jasim M. Salman and Abdulkarim Mohammed. Detection of alpha and beta radiation in the water and crops south of Baghdad. In Proceedings of the International conference for biological risk Environmental contamination and Public Health, 18-20 December (2006), **Amman, Jordan**.

65. Jasim M. Salman and Walled M Saleh. Release of Latent and sensible heat of paraffin wax for solar energy applications. In Proceedings of the International renewable energy conference, 22-26 June (1992), **Jordan**.

### **Training Certificates:**

1. Certificate of attendance and achievement the program “master in globalization, governance and international understanding” Link campus university, November 2019, Rome, Italy.
2. Certificate of attendance and achievement the program and passed the final examination in the field of: Quality Consultant (ISO 9001:2015), from the American – Canadian Board Training. 2019.
3. Certificate of achievement and commendation "Chemical security regulations and monitoring workshop's & CRDF GLOBAL, APRIL 3-5 2018, Baghdad, Iraq.
4. Certificate of achievement "ISO 9001:2015 Lead auditor: Quality management systems training course" [Certified Course] CQI-IRCA, 27<sup>th</sup>-31<sup>st</sup> January 2018
5. Certificate of achievement "Quality management system auditor/lead auditor-based on ISO 9001:2015" Baghdad, Iraq 27<sup>th</sup> -31<sup>st</sup>January 2018
6. Certificate of participation from Malta conferences foundation (Malta VIII), Malta-Valetta, December, 2017.
7. Certificate of complete training course "Impact of DNA in Criminal Evidence" In collaboration between Al-Nisour University Collegewith the Institute of Technical Medicine - Department of Forensic. Al-Nisour University College, Baghdad, Iraq– November-2017.
8. Certificate of complete training course "Safety in laboratories and workshops" The Iraqi society of occupational health & safety. Baghdad, July, 2017.
9. Certificate of participation "The Role of Medicinal Herbs in the Treatment of Urinary Trace Infections" The5<sup>th</sup> scientific symposium held in the department of pharmacognosy and medicinal plants/college of pharmacy/Al-Mustansiriyah University. May 2017.

10. Certificate of participation "The requirements of the strategic plan for academic accreditation in educational institutions" Al-Nisour university College – 2017.
11. Certificate of participation "Quality Management Systems Concepts, Foundations, Control of Documents and Procedures, and ISO 10013/2000", Al-Nisour university College, 2017.
12. Certificate of participation "Application mechanism for the requirements of the international standard ISO 9001/2008" Al-Nisour University College – 2017.
13. Certificate of participation - Civilian Research and Development Foundation (CRDF) "Chemical supply chain security and enterprise outreach workshop" Turkey, Istanbul. December, 2015.
14. Certificate of participation - Civilian Research and Development Foundation (CRDF) "Responsible care for Iraqi chemical enterprises workshop" Turkey, Istanbul, September, 2015.
15. Recognition of participation - Civilian Research and Development Foundation (CRDF) "Chemical security for industry (CSI) and strategic trade management (STM) workshop" Italy, Milan, June, 2015.
16. Certificate from WTW Company "**Advance training for online instrumentation**" Germany. Munich, October 21-23, 2015.
17. Certificate from WTW Company "**Advance training for Lab &Field instruments**" Germany. Munich, October 19-21, 2015.
18. Certificate from WTW Company "**Online field service training**" Germany. Munich, October 12-16, 2015.
19. Certificate from Endress+Hauser academy "**Online Monitoring of Water and Waste Water Industry Seminar**" Switzerland, October 2013.
20. Certificate from WTW Company "**Multi parameter online measuring systems**" Germany, Munich, 2013.
21. Certificate for Chiltern TMC, ISO 9001:2008 "**Quality management system awareness seminar**" Iraq, Baghdad, November 2012.
22. Certificate of for participation the 2<sup>nd</sup> scientific symposium in Almustnsriyah University- College of pharmacy "**Pharmaceutical chemistry and pharmacognosy**" Iraq, Baghdad. May 2012.



23. Certificate from WTW Company "**Drinking water online instruments**" Germany. Munich, 2011.
24. Certificate from the American University for Science and Technology (AUST) Shemadizu Center for Research and Development "**Fundamental of UV and UV probe software operation (UV 2450)**" Lebanon, Beirut, 2009.
25. Certificate from the American University for Science and Technology (AUST) Shemadizu Center for Research and Development "**Fundamental of Atomic Absorption Spectroscopy for AA6300**" Lebanon, Beirut, 2009.
26. Certificate from the American Association for Laboratory Accreditation "**ISO/IEC 17025 and Accreditation Course**" Jordan, Amman, 2009.
27. Certificate from Lawrence Livermore National Laboratory "**Environmental Sampling and Methodology- Based Field Training**" Jordan, Amman, 2009.
28. Certificate from the(USM) "**Occupation safety and healthy course**" Malaysia. Pining, 2008.
29. Certificate from the University of California, Laboratory "**Management Institute. Laboratory Leadership and Management**" Jordan, Amman, 2008.
30. Certificate from Civilian Research and Development Foundation (CRDF) "**Business Marketing and Presentation Workshop**" Turkish, Istanbul, 2008.
31. Certificate from Sandia National Laboratories "**Water Quality and the Shortage of Water Resources Workshop**" Jordan, Amman, 2008.
32. Certificate from Civilian Research and Development Foundation (CRDF) "**Business Planning Workshop**" Turkish, Istanbul, 2007.
33. Certificate from the American Chemical Society (ACS) "**Job Skills Workshop for Chemistry Professionals**" USA, Boston, 2007.
34. Certificate from the University of Science Malaysia "**Research Design and Methodology, Data Analysis & Scientific Writing**" Malaysia, 2007.
35. Certificate from the University of Science Malaysia (USM) "**Applied Science School. Heterogeneous Catalysts: An Introduction to Principles and Industrial applications**" Malaysia, Pining, 2007.
36. Certificate from Royal Scientific Society (RSS) "**Environmental Contamination and Public Health**" Amman, 2006.

37. Certificate from Royal Scientific Society (RSS) "**Business Planning Seminar**" Jordan, Amman, 2006.
38. Certificate from Royal Scientific Society (RSS) "**Water Purification and Environmental Remediation**" Jordan, Amman, 2006.
39. Certificate from Civilian Research and Development Foundation (CRDF) "**Business Planning Workshop**" Jordan, Amman, 2006.
40. Certificate from WTW Company "**Water analysis instrumentation and online monitoring**" Germany, Munich, 2006.
41. Certificate from Sandia National Laboratories "**Biological Risk Workshop**" Jordan, Amman, 2006.
42. Certificate from the International Catalysts Company "**Production and Modification of Bed Catalysts**" Ukraine, Kharkov, 2000.
43. Certificate from the Iraqi Special Institute for Engineering Industrial "**Welding Tests Workshop**" Iraq, Baghdad, 1996.

### **Patents:**

1. Patents under registration in the Iraqi Ministry of Planning - Department of Industrial Property. 5285 -12 March 2018"Automatic monitoring and control chlorine dosing for drinking water plants requires".
2. Patents (Preparation of new Iraqi paving asphalt oxidation using local additives). Patents registered under No. 4634 on 19 7 2016 - Iraqi Ministry of Planning – patent department.
3. Patents registered in the Iraqi Ministry of Planning - Department of Industrial Property number 3881 on 22 04 2014 under the title (Preparation of granular activated carbon from Iraqi Zahdi dates seeds).
4. Patents registered in the Iraqi Ministry of Planning - Department of Industrial Property number 3519 on 01312013 under the title (preparing porous activated carbon from date palm fronds).

### **Societies and Scientific Committees**

1. Member of the scientific association of Iraqi academics and intellectuals, 2021.
2. Member of the Higher Private Education Council in Iraq, 2020

3. Member of the Deans' Committee for Engineering Faculties 2020
4. Member of the Arab Scientists commission.
5. Member of the Union of Arab Chemists - League of Arab States
6. Member of the Greek Scientific Society of Chemistry.
7. Member of European Society of Advanced Materials Science- Sweden (EAM).
8. Member of the European Desalination Association (EDS)
9. Member of the International Water Association (IWA)
10. Member of Iraqi chemists syndicate board
11. Vice President of the Rafidain Association for Chemical Dealers (NGO)
12. Member of the International Association of Advanced Materials (IAAM)
13. Member of the American Chemical Society (ACS)
14. Member of the Iraqi Engineers Syndicate
15. Member of Iraqi Society for Safety and Health- Ministry of Higher Education
16. Member of the Association of Iraqi Academies-Ministry of Higher Education
17. Member of the Iraqi Scientific Board Society
18. Member of the Iraqi Engineering Inspection Society
19. Member of Iraqi Businessmen Association
20. Member of international of creators – Iraq branch

**Awards:**

1. Dr. Jasim Mohammed Salman awarded a fellow of the International Association of Advanced Materials (FIAAM), 2020, Sweden.
2. Dr. Jasim Mohammed Salman awarded and candidate to the Master course in "Globalization, governance and international understanding" University Degli Studi "Link Campus University", 2019-2020, Italy.
3. iENA, 2019 Bronze medal awarded from iENA, 2019. The international trade fair (ideas-inventions-new products) November 2019, Nuremberg, Germany.

4. Scientist Medal for the year 2019\* from the International Association of Advanced Materials (IAAM). This award during the IAAM award ceremony in the European Advanced Materials Congress 2019. Stockholm, Sweden.
5. Scientist Medal for the year 2017\* from the International Association of Advanced Materials (IAAM). This award during the IAAM award ceremony in the European Advanced Materials Congress 2017. Stockholm, Sweden.
6. Award of researchers and innovators in the Ministry of Industrial and Minerals in Iraq - the board of industrial R & D -2014.
7. Malaysian SanggarSanjung Award from University of Science Malaysia /2010
8. Malaysian SanggarSanjung Award from University of Science Malaysia /2008
9. Scientific award discretion granted by the Deanship of the Faculty of Chemical Engineering at the University of Science Malaysia / 2008
10. Award granted by the Iraqi Center for International Science and Industry for the active role in the projects of the Centre / 2008
11. Award of scientific staffs of the year 2002, submitted by the Committee for the Welfare of scientific cadres in Iraq.
12. Award of scientific staffs of the year 2000, provided by the Committee for the Welfare of scientific cadres in Iraq.