

## **CURRICULUM VITAE (C.V.)**

**Name** : *Dr. Najat j. Saleh*

**Date and place of birth:** 23<sup>rd</sup> Nov. 1954

**Nationality** : Iraqi

### **Academic Qualifications:**

- 1- **B.SC.** In Chemistry, June 1976, College of Science, University of Baghdad, Baghdad, Iraq.
- 2- **M.Sc.** In Fiber Science and Technology, Dec. 1981, Textile Industries Dept., University of Leeds, England.
- 3- **Ph.D.** In Chemistry, Jan. 1996, Chemistry Dept., College of Science, Mustansiriah University, Baghdad, Iraq.

### **Professional Experiences:**

- 1-Date: Oct. 1976 – Sept. 1980: Assistant Chemist, Chem. Eng. Dept. University of Technology (U. O. T.), Baghdad, Iraq.
- 2-Date: Oct. 1980- Dec. 1981: M. Sc. Student, University of Leeds, England.
- 3-Date: Jan.1982- Feb. 1987: Assistant lecturer: Chem. Eng. Dept. University of Technology (U. O. T.)
- 4-Date: March 1987 – June 1991: Lecturer, Chem. Eng. Dept. University of Technology (U.O.T.)
- 5-Date: July 1991 – Sept. 1992: Assistant Professor, Chem. Eng. Dept. University of Technology (U. O. T.)
- 6-Date: Oct. 1992 – Jan. 1996: Ph. D. Student, Chemistry Dept. College of Science, Mustansiriah University.
- 7-Date: Feb. 1996 – July 1997: Assistant Professor, Chem. Eng. Dept., University of Technology (U. O. T.):
- 8-Date: Oct. 1997 – Sept. 1998: Assistant Professor, Chem. Eng. Dept., 7th of April University, Libya: Staff member
- 9-Date: Oct. 1999 – Oct. 2012: Assistant Professor, Chem. Eng. Dept., University of Technology (U. O. T.): Staff member
- 10-Date:Oct. 2012 –up to date :Professor, Chem. Eng. Dept., University of Technology (U. O. T.): Staff member

Giving the following lecturers for under and postgraduate students

### **Lecturers**

- |                              |                                  |
|------------------------------|----------------------------------|
| 1- Industrial Chemistry      | 2- General Chemistry.            |
| 3- Analytical Chemistry.     | 4- Organic Chemistry.            |
| 5- Physical Chemistry.       | 6- Chemical Industry.            |
| 7- Polymer Technology.       | 8- Petrochemical processes.      |
| 9- Finishing processes.      | 10-naturally occurring polymers  |
| 11- Inter facial Phenomen    | 12- Petrochemical Complexes.     |
| 13-Polymer Kinetics.         | 14-Petroleum process & kinetics. |
| 15- Chemical from petroleum. | 16-Petrochemical Industries.     |

### **Research Work:**

- 1- N.S.Nassory,Najat J.Saleh,N.M.Alsis :The corrosive effects of some acids at low concentrations on copper foils using copper (II) ion selective electrode. Published in J. Iraqi Chem. Soc., Vol.9, No.1 &2,25(1984).
- 2- N.S.Nassory,Najat J.Saleh :Determination of nitrogen content in some Iraqi oils using colorimeter detector and Ionic chromatography. Published in J. Iraqi Chem. Soc., Vol.10, No.1, 12(1985).
- 3- I.M.Al-Daher, Najat J.Saleh,M.A.Noori: Potentiometric titration of metal ions with Aliphatic Amines in Dimethylsulphoxide. Published in J. Iraqi Chem. Soc., Vol.12 No.1, 183(1987).
- 4- N.S.Nassory,Najat J.Saleh,F.M.Al-Seaid:Fluoride determination in natural and waste waters by flow system using fluoride ion selective electrode. Published in J. Iraqi Chem. Soc., Vol.13, No. 1, 145(1988).
- 5- M.E.Ibrahim,Najat J.Saleh: Spent Lubrication oil treatment for re-use. Published in Iraqi Chem. Soc., Vol.16, No. 1, 96(1991).

- 6- Najat J.Saleh,S.M.Aliwi: Photoinitiation of vinyl polymerization by Methoxo-oxobis (N(4-bromophenyl)Salicylideneiminato)Vanadium (V). Published in Iraqi J.of polymer, Vol. 1, No.1, 93-104 (1997).
- 7- Najat J.Saleh,S.M.Aliwi :Photograftization and photo curing of polymers by Chloro &Methoxo-oxobis (N (4-bromophenyl) Salicylideneiminato) Vanadium (V) Published in J. of polymers, Vol.1, No.1, 79-92 (1997).
- 8- Najat J.Saleh,S.M.Aliwi :Photoinitiation of vinyl polymerization by Chloro-oxobis(N(4-bromophenyl)Salicylideneiminato)Vanadium(V) . Published in Basra J. of Science, Vol.15, No.1, 89-98(1997).
- 9- Najat J.Saleh,S.M.Aliwi :Thermal initiation of styrene polymerization by Chloro-oxobis (N(4-bromophenyl)Salicylideniminato) Vanadium (V). Published in J. of Eng. and Technology, Vol.17, No. 3, 283-292(1998).
- 10- N.A.Hussan, Najat J.Saleh,E.M.Kather: Ultrasonic studies of molecular interactions in the aqueous solutions of poly (acrylic acid) at various temperatures. Published in J. of Eng. and Technology, Vol. 20, No.9 (2001).
- 11- Najat J.Saleh, M.I.Mohammed,R.I.Ibrahim :An experimental study on the variables affecting the production of glucose from starch. Published in J. of Eng. and Technology, Vol. 20, No.10 (2001).
- 12- E.K.Saleh,Najat J.Saleh,F.A.Abbas: Preparation and characterization of poly (vinyl formal) suitably used for wire enamel. Published in Hadhramout for studies and researches J., Vol.2, No. 2(2002).
- 13- Najat J.Saleh,E.K.Saleh, R.I.Ibrahim: A study on the kinetics of the P.V.F. formation reaction. Published in J. of Eng. and Technology, Vol. 10, No.21 (2002).
- 14- Najat J.Saleh, R.I.Ibrahim: An experimental design on the optimum conditions of the production of glucose from starch. Published in College of Eng. Al-Nahrain University, Vol. 6, No. 1 (2002).

- 15-S.Al-Naimi, Najat J.Saleh,S.H.Sultan: Preparation and modification of different grades of poly (vinyl butyral) used for aluminum metal adhesion. Published in J. of Eng. and Technology, Vol.22, No. 3(2003).
- 16- Najat J.Saleh, S.Al-Naimi S.H.Sultan: Preparation and characterization of different grades of poly (vinyl butyral) used as aluminum metal adhesive. Published in J. of Eng. and Technology, Vol.22, No. 6(2003).
- 17- Najat J.Saleh:Thermal initiation of Methylmethacrylate (MMA) by Chloro -oxobis (N(4-bromophenyl)Salicylideniminato) Vanadium (V). Published in J. of Eng. and Technology, Vol.23, No. 5(2004).
- 18- Najat J.Saleh, S.Al-Naimi S.D.Jalal: Manufacturing of different grades of poly (vinyl formal) used for electrical wire. Published in Tikrit J.of Engineering Science, Vol.12, No.2, 11-47(2005).
- 19-A.A.Razak, Najat J.Saleh, H.S.MaJed: Cure kinetics of Epon 828 cured with TETA.Published in Tikrit J. of Engineering Science, Vol.12, No.2, 118-135(2005).
- 20- Najat J.Saleh:Thermal initiation of Methylmethacrylate (MMA) by methoxo- oxobis (N (4-bromophenyl) Salicylideniminato) Vanadium (V). Published in J. of Eng. and Technology, Vol.25, No. 1(2007).
- 21- A.A.Razak, Najat J.Saleh, H.S.MaJed: Mathematical model for autoclave curing of epoxy resin based composite materials Published in J. of Eng. and Technology, Vol.25, No. 7(2007)
- 22- Najat J.Saleh,N.A.Mohammed:The effect of photo-initiated oxidation on mechanical properties of HDPE/ LLDPE Blends. Published in Iraqi J. of Chemical and Petroleum, Vol.8, No.4,( 2007).
- 23- H.A.Hamed,Najat J.Saleh, A.A.Razak H.S.Majid :.Diffusion of various liquid of tubular shaped fiber reinforced compsites. Published in J. of Eng. and Technology, Vol.26, No. 3(2008)

- 24- H.A.Hamed,Najat J.Saleh, A.A.Razak H.S.Majid :Study the adhesion force of tubular shaped fiber reinforced composites, Published in J. of Eng. and Technology, Vol.26, No. 7( 2008).
- 26- M.I. Mohammed, R.I.Ibrahimi, Najat J.Saleh: Design and construction of a pilot plant for production of activated carbon using Iraqi source material. Published in The Iraq Research and Development Initiative"IRDI Research Compendium Round 1&2-Volume 1.
- 27- M.I. Mohammed, R.I.Ibrahimi, Najat J.Saleh::Design and construction of a pilot plant for production of Bleaching Earth Using Iraqi Clay Raw Material. Published in The Iraq Research and Development Initiative"IRDI Research Compendium Round 1&2-Volume 2.
- 28- Najat J. Saleh, M.I. Mohammed, R.I. Ibrahim, MA Zablouk, A Amer Preparation of activated carbon from Iraqi Reed. Published in J. of Eng. and Technology, Vol.26, No.3 (2008).
- 29 – H.A.Hamed,Najat J.Saleh, A.A.Razak H.S.Majid :Study the creep properties of tubular shaped fiber reinforced composite. Published in Tikrit J. of Eng. Science, Vol.15., No. 4(2008).
- 30- Najat J. Saleh, Z.Y.Shnean: Improvement of locally produced low density polyethylene. Published in J. of Eng. and Technology, Vol.26, No. 9(2008)
- 31- Najat J.Saleh A. Alhelaly,J.A.Ali,Q.Alsalhy: Recovery of PVA using PES(hollow fiber ultrafiltration membrane part 2.Effect of carboxymethyl cellulose conc. Published in J. of Eng. and Technology, Vol.26, No. 12( 2008)
- 32- Najat J.Saleh,N.A.Mohammed: The effect of blending of LLDPE on mechanical properties of HDPE. Published in J. of Eng. and Technology, Vol.27, No. 3(2009)
- 33- Najat J.Saleh,N.A.Mohammed,W.A.Abed: Studing of some physical properties and morphology of blends of HDPE/ LLDPE after and before exposure to UV light. Published in J. of Eng. and Technology, Vol.27 No. 4( 2009)

- 34- Najat J.Saleh A. Alhelaly,Samira,Q.Alsalhy Effect of alcohol as additives on the morphology and separation of PES (hollow fiber ultrafiltration membrane. Published in J. of Eng. and Technology, Vol.26, No. 5(2009).
- 35- Najat J. Saleh, Z.Y.Shnean: A Study of the effect of UV light on pigmented and unpigmented LDPE. Published in J. of Eng. and Technology, Vol.27, No. 4( 2009)
- 36- Najat J. Saleh, J.Wadha: Development and strength properties of PP/PA6/Red Kaolin and PP/PA6/Bentoinate blends. Published in J. of Eng. and Technology, Vol.27, No.12 (2009).
- 37- Najat J. Saleh, A.A.Razak,W.A.Al-Kadam: Electrical and thermal properties of epoxy resin filled with carbon black Published in J. of Eng. and Technology, Vol.27 No11. (2009).
- 38- S.R.Sultan,Najat J. Saleh, A.A.Razak:Improve the performance of epoxy resin and poly (vinyl butyral) as an aluminum metal adhesive.. Published in Al-Tagani J., Vol.23, No.1 (2010).
- 39- K.M.Shabeen,K.A.Sukker,R.A.Azeez,Najat J. Saleh: A new Development in Biological Process for Wastewater Treatment to Produce Renewable Fuel. Published in American J. of Applied Sciences, Vol.7, No.10 (2010).
- 40- M.I. Mohammed , Najat J. Saleh, , R.I. Ibrahim, L.A Hussein: Activation of Iraqi Bentonite Powder with  $H_2SO_4$  and its application in Oil Bleaching .Accepted in the 1<sup>st</sup> conference on Modern Technologies in Oil and gas Refining ,25-27 April (2011).
- 41- N.K.Ibrahim, Najat J. Saleh, , Z.S.Fahdl :Desulfurization of Light Diesel Fuel Using ChloramineT and Polymer Supported Imidation Agent. Accepted in the 1<sup>st</sup> conference on Modern Technologies in Oil and gas Refining ,25-27 April( 2011).
- 42- Najat J.Saleh S.N.Mustafa: Astudy of Some Mechanical and Thermal Properties of Polymer Blends with Iraqi Kaolin Filler. . Published in J. of Eng. and Technology, Vol.29, No11 (2011).

- 43- Najat J. Saleh, A.A.Razak,M.A.Tooma,M.E.Aziz: A Study of mechanical properties of epoxy resin cured at constant time and temperature with different hardeners Published in J. of Eng.and Technology, Vol.29, No.9 (2011).
- 44- M.I. Mohammed, Najat J. Saleh :Development A method for Production of Carbon Nanotubes, Published in J. of Engineering, Vol.18, No.8 (2012).
- 45- Q. F. Alsahy Najat J. Saleh,N. S. Ali: Effect of osmotic agent concentration and type on the performance ofOsmotic membrane distillation. Accepted in the sixth Jordan International chemical Engineering conference 12-14 March 2012, Amman, Jordan.
- 46 – Najat J. Saleh,M.A.Muslim : A Study of the Effect of Iraqi Bentonite on Some Properties of Polymeric Blend . Published in J. of Eng. and Technology, Vol.31, No.2 (2013).
- 47- Najat J. Saleh, J.Wadha: Proccessability and Determination of Some Mechanical and Thermal Properties of Filled and Unfilled PP/Polyamide 6 Blends. Published in Diyala J. of Engineering Sciences, Vol. 6., No.4(2013).
- 48- Najat J. Saleh, A.A.Jawad: Studying the effect of addition of carbon black on Rhological Properties of polypropylene and polycarbonate. Published in J. of Eng. and Technology, Vol.31, No.5 (2013).
- 49- Najat J. Saleh, A.A.Jawad: Studying the effect of Gas oil and diesel fuel on. Polypropylene poly carbonate reinforced with carbon black. Published in J. of Eng And Technology, Vol.31, No.11 (2013).
- 50- Najat J. Saleh, B. J.Kadhim: Study of the cure reaction of epoxy resin diglycidyl ether of Bisphenol-A(DGEBA) with meta-phenylene diamine. Published in J. of Eng. and Technology, Vol.31, No.9(2013).
- 51-S.Al-Ramadhani, Najat J. Saleh ,G.A.R.Rassol:Effect of surfactance additives on drag reduction forces for kerosene flowing in

carbon steel and P.V.C pipes. Accepted in the 2<sup>nd</sup> conference on Modern Technologies in Oil and gas Refining ,14-15 May( 2013)

52- Najat J. Saleh ,H.A.Abdullah,A.S.Mahmod:Thermal polymerization of Acrylamide by using Three Novel Types of High Oxidation State of Transition Element Complexes. Published in Al-Mustansiriyah J. of Sci., Vol.25 No1. (2014).

53- Najat J Saleh,R. I Ibrahim, A. D Salman: Characterization of Nano-silica prepared from locally silica sand and its application in cement mortar using optimization technique. Published in Advanced Powder Technology J.,Vol.26 (2015).

54- Najat J. Saleh\* , A. A.Abdulrahman\*, Z. A. Yousif :Preparation and Characterization of nano-silica from Iraqi rice husk waste with applications to cement used in oil well. Published in Wulfenia J., Vol.22 No.4 (2015)

55- M.I. Mohammed, Najat J. Saleh, , L.A Hussein: Studing the mechanical properties of epoxy carbon nanotubes composite Published in J. of Al-Nahrain University College of Engineering J.(NUCEJ) Vol.18, No.1 (2015).

56- Najat J Saleh, A Razak, M ToomaM Aziz The rheological properties of Isothermal Curing of DGEBA/TETA Epoxy System. Published in J. of Eng. and Technology, Vol.33, Part( A)No.5(2015).

57- Najat J. Saleh\* , A. A.Abdulrahman\*, Z. A. Yousif Characterization of NanoSilica prepared from Iraqi Rice Husk and its Application in Oil Well's Cement. Accepted in the ministry of oil and gas conference in Al mara.

58- Najat J. Saleh,R. I Ibrahim, A. D Salman : Optimization Process for Using Prepared Nano Silica In Concrete. Published The 2nd International Conference of Buildings, Construction and Environmental Engineering (BCEE2-2015) in Lebanon.

59-M.A .Muslim,S.R.Sultan,Najat J.Saleh :Effects of Wood Filler Contents and Particle Sizes on the Mechanical and Thermal Properties of Polypropylene. Published in **International Journal of Engineering Innovation & Research** Volume 4, Issue 6, ISSN: 2277 – 5668 J

60- A.A.Razak, Najat J.Saleh, M.M.Aziz :Cure Kinetics of Epoxy Resin Studied By Dynamics and Isothermal DSC Data. Published in J. of Eng. and Technology, Vol.34, Part( A)No.9(2016).

### **Patent**

Graft polymerization on alumina for dry pressing applications: CO4B35\1 CO8F\04 Baghdad- Iraq.

Preparation and Characterization of naon-silica from Iraqi rice husk aste with applications to cement used in oil well. Baghdad- Iraq.

### **Books Published**

Basic Principle in Analytical Chemistry in Arabic.

### **Postgraduate Supervision**

**Supervise the Ph.D. projects titled as:**

- 1-Graft polymerization on alumina for dry pressing applications.
- 2-Development of high performance polymer matrix composite
- 3-Effects of curing cycle on some mechanical properties of epoxy composite.
- 4-Synthesis and study properties of polymer with semiconductor
- 5- Force reduction of flowing (kerosene and gas oil) using – surfacacnts in carbon steel and P.V.C. pipes.
- 6-Osmotic distillation process using polytetrafluoroethylene (PTFE)macro porous layer supported by a polypropylene (pp) net.

**Also supervise the M.Sc. projects titles:**

- 1- Manufacturing of different grades of poly (vinyl formal) used for electrical wire.
- 2- Preparation and modification of different grades of poly (vinyl butyral) used for aluminum metal adhesion
- 3- Effect of photo-initiated oxidation on mechanical properties of polyethylene blends.

- 4- A study of mechanical and thermal properties of Novalack resin reinforced with different types of fibers.
- 5- Study the effect of addition of mineral clays on mechanical properties of PP\PA6 blend composite.
- 6- Improvement of locally produced low density PE.
- 7- Study of mechanical and physical properties of some epoxy composites
- 8- Processibility and effects of UV radiation on some mechanical properties of PC/PP blend.
- 9- Study of some physical and mechanical properties of polymer blend with Iraqi filler.
- 10- Thermal polymerization by using some transition element complexes in high oxidation state.
- 11- Investigation of some mechanical properties of hybrid composites.
- 12- A study the effect of Iraqi bentonite on some properties of polymeric blend (PP/PMMA).
- 13- Study the effect of addition of carbon black on some physical properties of polymer blends (PP/PC).
- 14- Desulphurization of Light Diesel Fuel Using Chloramine T and Polymer Supported Imidation Agent.
- 15- A Study of mechanical properties of epoxy resin cured at constant time and temperature with different hardeners.
- 16- Rheological and kinetic study of diglycidyl ether of bisphenol-A (DGEBA) cured with phenylenediamine.
- 17- Preparation, characterization of nanosilica from Iraqi rice husk and its application in oil well cement.
- 18- Characterization of Nano-silica prepared from locally silica sand and Its application in cement mortar using optimization technique

### **Conferences Attended**

- 1- The 11<sup>th</sup> Iraqi Chemical conference, Baghdad 28-31\3\1983.
- 2- The Annual conference of University of Technology, Baghdad 7\4\1984.
- 3- The 12<sup>th</sup> Iraqi Chemical conference, Baghdad 2-6\2\1985.
- 4- The 2<sup>nd</sup> conference of polymers: Basra-Iraq 7-8<sup>th</sup> Nov.1995.
- 5- The 10<sup>th</sup> Arab Chemists conference, Baghdad- Iraq 22-24 Oct.1996
- 6- The 20<sup>th</sup> Iraqi Chemistry conference, Baghdad- Iraq 8-10 Nov.2002.
- 7- The 1<sup>st</sup> conference on Modern Technologies in Oil and gas Refining, 25-27 April (2011)

- 8- The sixth Jordan International chemical Engineering conference 12-14 March 2012, Amman ,Jordan.
- 9- The 2<sup>nd</sup> conference on Modern Technologies in Oil and gas Refining, 14-15 May (2013).
- 10- The 2nd International Conference of Buildings, Construction and Environmental Engineering (BCEE2-2015) Lebanon (2015)

**Membership of National /International Organization**

Member in the Iraqi Chemical Society and Polymer Society.