السيرة الذاتية

١. الاسم: صلاح مهـدي مجيـد الشكري
٢. المواليد: ١٩٦٩
٣. الشهادة: دكتوراه
٤. العنوان الوظيفي: اسـتاذ مساعــد
٥. الحالة الزوجية: متزوج
٦. العنوان البريدي: salah_m@uomustansiriyah.edu.iq
٧. مكان العمل: قسـم الكيمياء - كليــة العلوم / الجامعــة المستنصريــة

٨. التحصيـل الدراســي:
- دكتوراه في الكيـمياء الصناعيـة - الجامعــة الماليزيــة للعلوم عام ٢٠٠٣
- ماجستير في الكيمياء – جامعــة بغداد ١٩٩٥
- بكالوريوس في الكيمياء العامة - جامعــة بغداد ١٩٩١

٩. المهام المكلف بها:
- تدريسي في قسـم الكيمياء من ٢٠٠٥ ومستمر حاليا –
- مقرر الدراسات العليا – قسم الكيمياء من ٢٠١٩-٢٠١٤ –
- عضو مجلس القسم ٢٠١٩-٢٠١٥ –
- عضو اللجنة الامتحانية للدراسات العليا في قسم الكيمياء ٢٠١٩-٢٠١٤و ٢٠٢٣-٢٠٢١
- عضو تحرير ثم مدير تحرير مجلة المستنصرية للعلوم ٢٠١٧-٢٠١١
- مدير تحرير مجلة المستنصرية للعلوم ٢٠١٩-٢٠١٧ –
- عضو لجنة تقويم المجلات العلمية- الجامعة المستنصرية -٢٠١٧ ومستمر
- رئيس لجنة رصانة المجلات العلمية - قسم الكيمياء -٢٠١٩ مستمر
- عضو اللجنة العلمية - قسم الكيمياء -٢٠١٩ ومستمر
- باحث أقدم في وحدة ابحاث البوليمرات – كلية العلوم ٢٠١٣-٢٠٠٦
- باحث اقدم في مدرسة الكيمياء الجامعة الماليزية للعلوم ١٩٩٨-٢٠٠٣

١٠. الجوائز الحاصل عليها:
-جائـزة ملــك ماليزيــا لافضل الانجازات العلمية عام ٢٠٠١
- جائزة يوم العلم – وزارة التعليم العالي والبحث العلمي ٢٠١٢
- شهادة تقديرية من السيد وزير التعليم العالي والبحث العلمي ٢٠١٢
- المدالية الذهبية- معرض براءات الاختراع والنماذج الصناعية الاول- الجامعة المستنصرية ٢٠١٨.
- المدالية البرونزية- المعرض الدولي للاختراعات في الشرق الأوسط/نادي الكويت العلمي- الكويت ٢٠٢٣

١١. براءات الاختراع:
- براءة اختراع أستراليــة الرقم AU2014256440 عـــام ٢٠١٥
- براءة اختراع أمريكية الرقم US 2015/0210900 A1 ٢٠١٥
- براءة اختراع استرالية الرقم AU2017203330 ٢٠١٧

Curriculum Vitae (CV)

Professor Dr. Salah Mahdi Al-Shukri, Head of chemistry department at Mustansiriyah University, General specialization in Polymer chemistry (preparation and diagnosis of hybrid organic inorganic polymers with thermal specifications and high resistance to combustion used in industrial applications. Also in diagnosing the molecular structure of polymeric compounds using spectroscopic devices.

Biography:

Ph.D. in polymer chemistry - Universtiy Sains Malaysia in 2003
Masters in Chemistry- Baghdad University 1995
Bacheler degree in General Chemistry - Baghdad University 1991.

Assigned tasks:

- Head of chemistry department 2023- currently continuing
- Teaching in the Chemistry Department from 2005 and currently continuing
- Teaching Postgraduate Course - Chemistry Department from 2014-Current
- Managing Editor of Al-Mustansiriya Journal of Science 2011-2018
- Senior Researcher in the Polymer Research Unit - College of Science 2006-2013
- Senior Researcher in the School of Chemistry - University of Science Malaysia 1998-2004.

Research of interest:

- Synthesis and spectroscopic characterization of organic and inorganic polymers
- Synthesis and characterization of Liquid Crystal molecules and polymers using different spectroscopic techniques.
- Studying the thermal properties of the polymers and monomers using thermal analysis techniques
- Studying the mechanical properties of polymers

- Modification of the thermal and fire retardant characteristics of polymers
- Studying the morphology of polymers after modification.

The devices used in the research field: FTIR, NMR (^{1}H, ^{9}F, ^{13}C, ^{15}N and ^{31}P), GPC, SEM, EDX, TGA, DSC, DTA, TMA, OPM, LOI tester and UL94.

Publications:

1- Othman A. Al-hanbali and Salah Mahdi Al-Shukri. Stabilization of Poloxamines and Poloxamers Block Copolymers Complexes in Chlorinated Organic Solvents: A Mathematical Modelling Approach. Submitted to Heliyon journal (under review).

2- Salah Al-Shukri , Ayad Tarik mahmoood and Othman A. Al Hanbali . (2021). Spiro-cyclotriphosphazene with three functional end groups: synthesis and structural characterization of new polycyclotriphosphazenes with Schiff-base groups. 66 (6), 341-349, Polimery.

3- Alaa Shaban, Salah Mahdi Al-Shukri, Hussein Ismail Kahlaf, Othman A. Al Hanbali (2019). Synthesis, characterization, thermal and fire retardant properties of new homo- and block copolymers of polyacrylate and epoxy resin with cyclotriphosphazene core. *Polimery*, 64(9), 9-22.

4- Patent of Australia No. 2014256440 (2015); Adhesive Material For Bonding of Glass to Glass; Salah Mahdi Majeed Al-Shukri and Othman A. Al-Hanbali.

5- US patent No. US 2015/0210900 A1 Adhesive Material For Bonding of Glass to Glass; Salah Mahdi Majeed Al-Shukri and Othman A. Al-Hanbali.

6- Patent of Australia No. AU201720333 (2017); FORMULATIONS FOR BABY ANIMALS. Salah Mahdi Majeed Al-Shukri, Othman A. Al-Hanbali and others.

7- Al-Shukri, S.M. (2015). ^{31}P NMR spectroscopy for quantification of moieties present in the backbone of poly(aryloxycyclotriphosphazene). *Journal of Molecular Structure*. 1084, 148–154.

8- Al-Shukri, S.M., Mahmood, A.T., Al-Hanbali, O.A. (2011). Thermal properties, adhesive strength, and optical transparency of cyclolinear

poly(aryloxycyclotriphos-phazenes). *Journal of applied polymer science.* Vol. 122 (2), 1058–1065.

9- Shyaa, A.A., Al-Shukri, S.M. (2012). Synthesis, characterization and thermal properties of styrenated poly(ester-amide) resin. *Basrah Journal of Science*, Vol. 30(1), 79-91.

10- Al-Shukri, S.M. and Mas Rosemal Hakim Mas Haris.(2012). Synthesis, Characterization and Fire Retardant Properties of Poly(1,3-benzenedioxy)cyclotriphosphazenes and Their Blend with ENR-25. *Iraqi Journal of Polymers.* Vol. 16 , No.2, 1-9.

11- Al-Shukri, S.M., Shyaa, A.A. (2011). Synthesis, characterization, thermal properties and fire retardancy of new poly(aryloxycyclotriphosphazene bearing trimethyl siloxane groups. *Mu'tah journal for research and study.* Vol 26 (2), 11-32.

12- Al-Shukri, S.M. (2011). The *in-situ* reaction of hexachlorocyclotriphosphazene with (2- and 4- hydroxyaniline) in the presence of 25 mole percent epoxidized natural rubber. *Iraqi National Journal of Chemistry*, Vol. 43, 447-466.

13- Shyaa, A.A., AL-Zubaidy, A.A., Al-Shukri, S.M. (2011). Synthesis, Characterization, Thermal and Mechanical Properties of Epoxidized *p*-Cresol Novolac and *p*-Ethyl Phenol Novolac, Iraqi journal of polymer science. Vol 15 (3), 1-17.

14- Salah Mahdi Al-Shukri and Mas Rosemal Hakim. (2003). Synthesis, Structure and Fire Retardant Properties of Poly(Phenylene-1,3-dioxy)cyclotriphosphazenes. In Investing in Innovation, Vol, 5: Scince and Engenerring, *ed.* Y.A. Khlid *et al*., pp. 383-388, Universiti Putra Malaysia Press, Serdang, Selongor, Malaysia.

15- Salah Mahdi Al-Shukri, Mas Rosemal Hakim, Loo, S.C., Zainab, N. and Lim, E.K. (2002). Fire-Retardant Rubber Derivatives: Preparation and Characterization of Phosphazene-Modified Natural Rubber Derivatives. A review Paper (13 Pages). In, Malaysian Chemical Congress (MCC). December 2002, Kuching, Sarawak, Malaysia.

16- Lim, E.K., Salah Mahdi Al-Shukri and Mas Rosemal Hakim. Products of the Reaction of Hexachlorocyclotriphosphazene with 1-Naphthol as Model Study for Structural Characterization of Poly(1,5-dioxynaphthalene)cyclotriphosphazenes (2002). *Simposium Kimia Analisi Malaysia Ke-15,* 10-12th September 2002, Bayview Branch Resort, Penang, Malaysia.

17- Salah Mahdi Al-Shukri and Mas Rosemal Hakim (2001). Flame Retardant Polymers: Cyclotriphosphazene-Aryloxy Networks And Their Application in the Modification of Natural Rubber and Epoxidized Natural Rubber. *Regional Conference for Young Chemists (RCYC)*. 3-4 April, USM Conference Hall, Penang, Malaysia.

18- Salah Mahdi Al-Shukri and Mas Rosemal Hakim, (2000). Entanglement of Epoxidized Natural Rubber Chain in Organocyclotriphosphazene Networks. *Sixth Eurasia Conference on Chemical Sciences,* 27th February-2nd March 2000, University Brunei Darussalam.

19- Salah Mahdi Al-Shukri, Mas Rosemal Hakim (2000). Synthesis and Characterization of Cyclolinear Aryloxycyclotriphosphazene. *National Symposium of Polymeric Materials 2000 (NSPM 2000)*. 1-2 June, USM, Penang, Malaysia.

20- Salah Mahdi Al-Shukri and Mas Rosemal Hakim. (2000). Synthesis Characterization and Applications of Cyclomatrix and Cyclolinear Aryloxycyclotriphosphazenes in the Entrapment of Natural Rubber and Epoxidized Natural Rubber. *1st Regional Conference On Inorganic Chemistry (ReCIC).* 14-15th November, USM Conference Hall, Penang, Malaysia.

21- Salah Mahdi Al-Shukri and Mas Rosemal Hakim, (1998). Synthesis of Cyclophosphazene Core Networks with Aminophenols and their Entrapment with Matrix of 30 % Epoxidized Natural Rubber. *Seminar Kimia Dan Industri*. 14 Dcember, USM, Penang, Malaysia.