

السيرة الذاتية للأستاذ الدكتور / سالم بن سليم الذياب

❖ الاسم: سالم بن سليم بن السالم الذياب

❖ العمل الحالي:

- عضو هيئة تدريس في قسم الكيمياء – جامعة الملك سعود
- مشرف على كرسي أبحاث البتروكيماويات

❖ المرتبة العلمية: أستاذ

درجة الدكتوراه في الكيمياء الصناعية من جامعة سنسناتي – أوهايو عام 1403هـ

❖ التدرج العلمي و الوظيفي:

- أستاذ الكيمياء الصناعية - قسم الكيمياء – جامعة الملك سعود 1415هـ - 1994م
- أستاذ مشارك - قسم الكيمياء – جامعة الملك سعود 1408هـ - 1987م .
- أستاذ مساعد - قسم الكيمياء – جامعة الملك سعود 1403- 1983م
- معيد - قسم الكيمياء – جامعة الملك سعود 1395هـ - 1975م

❖ الجوائز التي حاز عليها والنشاطات ذات العلاقة:-

- حائز على الجائزة العربية للكيمياء المقدمة من إتحاد الكيميائيين العرب للعام 1436هـ (2015م)
- حائز على جائزة الابداع الصناعي (المركز الاول) من هيئة المدن الصناعية (1435هـ / 2014م) ومقدارها مليون ريال
- حائز على عدة جوائز للتميز العلمي والتميز البحثي في جامعة الملك سعود للعام (1431هـ , 1432هـ , 1435هـ) / (2010م , 2011م , 2014م)
- حصل على براءة اختراع أوروبيه في مجال تقنية النانو 2014م
- قام بتأسيس والإشراف على كرسي أبحاث البتروكيماويات الذي تميز بما يلي :-
 - حصوله على جائزة قائمة الجامعة الشرفية للكراسي البحثية
 - حصوله على المركز الاول على مستوى الكراسي البحثية في النشر العلمي
 - حصوله على جائزة قائمة الجامعة الشرفية للتميز في كفاءة الاداء تحت إشرافه
- قام بتأسيس برنامج ماجستير علوم البوليمرات والإشراف عليه ويعتبر أول برنامج على مستوى المملكة يخدم قطاع البتروكيماويات .

❖ الإشراف على الرسائل العلمية:

أشرف على أكثر من خمسة عشر طالب دراسات عليا (الدكتوراه والماجستير)

1- رسالة دكتوراه

عنوان الرسالة: "تحضير وتوصيف متراكبات نانوية للتطبيقات الصناعية"

الطالب: عبد الله مسعد العنزي - 1435هـ

2- رسالة دكتوراه

عنوان الرسالة: "تحضير ودراسة بوليمرات جديدة لمركبات القصدير العضوية"

الطالب: نايف المعقل -1420 هـ الموافق 1999م

3- رسالة ماجستير

عنوان الرسالة: "بحث وتطوير ألياف نانومترية من الكربون النشط بواسطة المعالجة الحرارية لألياف البولي اكريلونيتريل واستخدامها في تطبيقات معالجة المياه"

الطالب: حمود الطالب - محرم/ 1433 هـ

4- رسالة ماجستير

عنوان الرسالة: "استخدام بولي أكريلونيتريل كدعامة لألياف المعادن لإنتاج أقطاب كهربائية فعالة"

الطالب: بدر محمد ثامر- 1434 هـ

5- رسالة ماجستير

عنوان الرسالة: "تطبيق معايير السلامة في محطات الوقود ومدى فعاليتها داخل المدن في المملكة العربية السعودية"
1413 هـ (1992م)

6- رسالة ماجستير

عنوان الرسالة: "دراسة فعالية عدد من بادئات التفاعل المستخدمة في إنتاج البولي ستيرين"

الطالب: غرم الله العمري. 1419 هـ-1998م

7- رسالة ماجستير

عنوان الرسالة: "تحضير ودراسة بعض بوليمرات القصدير العضوية"
الطالب: علي الحازمي -1425 هـ (2004م) .

8- رسالة ماجستير

عنوان الرسالة: "بلمرة بعض الحموض الأمينية لاستغلالها في تغذية الحيوان"
الطالب: عبد الله الزارع -1426 هـ (2005م)

9- رسالة ماجستير

عنوان الرسالة: "تحضير ودراسة ليزر صبغات الحالة الصلبة المحضرة بالبولىمير والاورموسيل"

الطالب: عبد الله العنزي 1426 هـ (2005م)

10- رسالة ماجستير

عنوان الرسالة: "الخصائص الضوئية والحرارية لبعض البوليمرات العضوية بالصبغات الليزرية"

الطالب: ماجد الصيعري -1427 هـ (2006م)

11- رسالة ماجستير

عنوان الرسالة: "تحضير بولي استرات أليفاتية-عطرية بواسطة حفازات متعددة الأنيونات غير المتجانسة"

الطالب: عبد الله الحواس -1429 هـ

12- رسالة ماجستير

عنوان الرسالة: "الخواص الانسيابية والحرارية للبولي أوليفينات المختلفة"

الطالب: فهد المندرج – 1430 هـ (2009م)

13- رسالة ماجستير

عنوان الرسالة: "مقارنة الخواص الانسيابية و مرونة اللزوجة لبعض البولي

ايثيلينيات و البولي بروبينات"

الطالب: يعن الله بن أحمد القرني – 1432 هـ

14- رسالة ماجستير

عنوان الرسالة: "اعداد وتوصيف ضمادات الجروح المحتوية على مضادات

للميكروبات"

الطالب: اكرم موسى -1432 هـ

15- رسالة ماجستير

عنوان الرسالة: "تحضير وتوصيف بعض البوليمرات المشتركة المبنية على حمض

الاتاكونيك اللامائي باستخدام طريقة الميكروويف"

الطالب: سامح عثمان –1432 هـ

16- رسالة ماجستير

عنوان الرسالة: "نزع الهيدروجين بالأكسدة لمادة الايثايل بنزين لإنتاج مونيمر

الستايرين واستخدامه لتحضير البولي ستايرين"

الطالب: خالد العيدان -1433 هـ

❖ الكتب المؤلفة:

قام بتأليف عدد من من الكتب المتخصصة في مجال الكيمياء ومجال والبتروكيماويات

- **عنوان الكتاب:** أسس الكيمياء العضوية
- **عنوان الكتاب:** أسس الكيمياء العضوية أسئلة وأجوبة
- **عنوان الكتاب:** الصناعات البترولية والبتروكيماوية
- **عنوان الكتاب:** الكيمياء العضوية الأروماتية
- **عنوان الكتاب:** أسس الكيمياء الفراغية والبوليمرات العضوية
- **عنوان الكتاب:** الحلقية غير المتجانسة
- **عنوان الكتاب:** استخدامات المواد العازلة لمنع تسرب المياه وانتقال الحرارة
- **عنوان الكتاب:** إرشادات السلامة في المختبرات

❖ الخبرات الاستشارية:

تم تقديم الاستشارات العلمية والعمل في اللجان كما يلي:-

- شركة سابك.
- شركة تطوير الصناعات السعودية
- شركة صناعة العزل العربية
- الدار السعودية للخدمات الاستشارية
- المصنع الوطني للمياه الصحية
- شركة ريثم للكيماويات

❖ عضوية المجالس و اللجان:-

• عضوية المجالس واللجان الداخلية .

- عضو مجلس قسم الكيمياء
- مشرف على كرسي ابحاث البتروكيماويات
- عضو برنامج ماجستير العلوم في علم البوليمرات

• عضوية المجالس واللجان الداخلية سابقا

- عضو مجلس كلية العلوم
- عضو لجنة الترشيح لنيل جائزة درع التميز العلمي في قسم الكيمياء
- عضو اللجنة المنظمة لمؤتمر الكيمياء والصناعة . رؤية مستقبلية للألفية الثالثة والتي تم انعقادها في رحاب جامعة الملك سعود
- منسق برنامج ماجستير العلوم في علم البوليمرات

• عضوية المجالس واللجان خارج نطاق العمل الأساسي

- عضو مجلس إدارة الجمعية التعاونية لمنسوبي جامعة الملك سعود , وأمين المال فيها
- رئيساً للجنة الدائمة للسلامة والأمن في جامعة الملك سعود
- عضو اللجنة الفنية لكرسي سابك لأبحاث البوليمرات
- ممثلاً للجامعة في اللجنة الوطنية للصناعات البترولية والبتروكيماوية (في مدينة الملك عبد العزيز)
- ممثلاً للجامعة في اللجنة العامة للمنتجات الكيماوية والبترولية (في هيئة المواصفات والمقاييس).
- عضو اللجنة الفنية للبلاستيك
- ممثلاً كلية العلوم في اللجنة المشكلة لفحص وتحسين وضع المختبرات الكيميائية

❖ المسؤولية الاجتماعية:

- محاضرا في دورة تدريبية بعنوان أساسيات علم البوليمرات وتطبيقاته الصناعية
- محاضراً في دورة عن مستقبل الصناعات الكيميائية في المملكة ، مركز خدمة المجتمع والتعليم المستمر بجامعة الملك سعود
- محاضراً في دورة عن المواد العازلة للمياه في دولة الإمارات
- محاضرا في دورة تدريبية لمنسوبي وزارة الدفاع عن السلامة في المختبرات والتعامل مع المواد الكيميائية
- محاضرا في البرنامج التدريبي لأولمبياد الكيمياء العربي الثالث

❖ الأنشطة البحثية الجارية في الوحدات:

- 1- عنوان المشروع: "ألياف النانو النشطة بيولوجيا عن طريق الغزل الكهربائي لمخاليط البوليمرات".
جهة الدعم : الخطة الوطنية للعلوم و التقنية – جامعة الملك سعود – السعودية.
- 2- عنوان المشروع: "ألياف النانو مصنعة من معادن غير نادرة كأقطاب مبتكرة ورخيصة وفعالة لتوسعة تكنولوجيا صناعة خلايا الوقود"
جهة الدعم : الخطة الوطنية للعلوم و التقنية – جامعة الملك سعود – السعودية.

- 3- **عنوان المشروع:** "تطوير و إنتاج بصورة تجارية خلايا وقود تعتمد على مياه الصرف الصناعي ومياه الصرف الصحي بإستخدام تقنية النانوتكنولوجيا".
جهة الدعم: الخطة الوطنية للعلوم و التقنية – جامعة الملك سعود.
- 4- **عنوان المشروع:** "تأثير أنواع من البروتين والدهن على قوام وسلامة المواد اللاصقة:
جهة الدعم : الخطة الوطنية للعلوم و التقنية – جامعة الملك سعود – السعودية.
- 5- **عنوان المشروع:** "إعداد شعيرات الكربون المستمر عالية الأداء لقطع غيار الطائرات والسيارات"
جهة الدعم: الخطة الوطنية للعلوم و التقنية – جامعة الملك سعود.
- 6- **عنوان المشروع:** "تطعيم بعض المونومرات المبنية على الأحماض الأمينية على النشا باستخدام الميكروويف و إستخدامها كناقلات للدواء".
جهة الدعم : مدينة الملك عبدالعزيز للعلوم و التقنية – جامعة الملك سعود
- 7- **عنوان المشروع:** "تدوير و استخدام المخلفات السليلوزية للنخيل فى تحضير مبادلات ايونية و عوامل ادمصاص لتنقية مياه الصرف الصناعى"
8- **عنوان المشروع:** "التحوير الكيمياءى للسليولز المستخلص من مخلفات الحاصلات الزراعية و استخدامه فى التحضير الآمن بيئيا لدقائق المعادن النانومترية".
جهة الدعم: مدينة الملك عبدالعزيز للعلوم و التقنية – جامعة الملك سعود – السعودية
- 9- **عنوان المشروع:** "تحضير و انتاج الياف نانومترية ذكية للاغراض الطبية"
- 10- **عنوان المشروع:** "استخدام تقنيه الغزل الكهربائي في انتاج ضمادات طبيه جديده مقاومه للميكروبات والمحتويه علي دقائق الفضة النانومترية المحضره بالميكروويف".

❖ حضور المؤتمرات

- 1) "ICCPE 2015: XIII International Conference on Chemical and Process Engineering", January 19-20, 2015, London, United Kingdom.
- 2) "5th Saudi Science Conference", April 16–18, 2012, King Abdul Aziz Hall, Umm Al-Qura University, Makkah, Saudi Arabia.
- 3) "The 11th Asian Textile Conference "Knowledge Convergence in Textiles for Human and Nature", November 1–4, 2011, EXCO, Daegu, Republic of Korea.
- 4) "241st American Chemical Society-National Meeting & Exposition", March 27-31, 2011, Anaheim Convention Center, Anaheim, California, USA.

❖ أنشطة أخرى

- 1) Establishment of **Petrochemical Research Chair's laboratories** (at Chemistry Department, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (April 2009 – till now).
- 2) Chairman of organizing committee of Training Course entitled "**Fundamentals of Polymer Science and its Industrial Applications**", February 4-8, 2012, Petrochemical Research Chair,

Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.

- 3) Chairman of Workshop on **“Electrospinning: an Effective Technique in Nanofibers Production”**, February 20-22, 2012, Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 4) Chairman of organizing committee of Training Course entitled **“Fundamentals of Polymer Science and its Industrial Applications”**, November 12, 2012, Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 5) Chairman of Workshop on **“Bio-Active Nanofibers via Electrospinning”**, May 11-12, 2013G (Rajab 1-2, 1434 H), Organized by “National Plan for Science and Technology in cooperation with Petrochemical Research Chair”, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 6) Chairman of Workshop on **“Non-Precious Metallic Nanofibers as Novel, Cheap and Effective Electrodes for Scaling Up of Fuel Cells Manufacturing Precious Metallic Nanofibers Technology”**, December 22, 2013 G (Safar 19, 1435 H), Organized by “National Plan for Science and Technology in cooperation with Petrochemical Research Chair”, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 7) Chairman of Workshop on **“Electrospun nanofibers: Large scale production and applications”**, December 24, 2013G (Safar 21, 1435 H), Organized by “Petrochemical Research Chair (PRC) in cooperation with Visiting Professor Program (VPP)”, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.

List of (ISI) Publications

Prof. Dr. Salem S. Al-Deyab

- [1] Solute-solvent interaction in methyl methacrylate and 2-hydroxyethyl methacrylate monomers solutions, Al-ghamdi AA, Bahattab MA, Farhoud M, Al-Dossary M, Al-Enizi A, Al-Deyab SS. **Optical Materials**, (2006);29(2-3):159-66.
- [2] Synthesis and Antimicrobial Activity of Metronidazole Containing Polymer and Copolymers, Kenawy E-R, Al-Deyab SS, Shaker NO, El-Sadek BM, Khattab AHB. **Journal of Applied Polymer Science**, (2009); 113(2):818-26.
- [3] Chitosan and monochlorotriazinyl-beta-cyclodextrin finishes improve antistatic properties of cotton/polyester blend and polyester fabrics, Abdel-Halim ES, Abdel-Mohdy FA, Al-Deyab SS, and El-Newehy MH. **Carbohydrate Polymers**, (2010);82(1):202-8.
- [4] Enhancing hydrophilicity of bioscoured flax fabric by emulsification post-treatment, Abdel-Halim ES, Konczewicz W, Zimniewska M, Al-Deyab SS, El-Newehy MH. **Carbohydrate Polymers**, (2010);82(1):195-201.
- [5] Purification and biochemical characterization of recombinant alcohol dehydrogenase from the psychrophilic bacterium *Pseudomonas frederiksbergensis*, Abdel-Megeed A, Aboul-Soud MAM, Mueller R, Rudolf FA, Al-Deyab SS. **Journal of Polymers and the Environment**, (2010);18(4):617-25.
- [6] Hexadecane degradation by bacterial strains isolated from contaminated soils, Abdel-Megeed A, Al-Harbi N, Al-Deyab S. **African Journal of Biotechnology**, (2010);9(44):7487-94.
- [7] Synthesis and Characterization of Organotin Containing Copolymers: Reactivity Ratio Studies, Al-Deyab SS, Al-Hazmi AM, El-Newehy MH. **Molecules**, (2010);15(3):1784-97.
- [8] Synthesis and Characterization of Novel Organotin-Phosphorous Compounds II, Al-Deyab SS, El-Newehy MH. **Molecules**, (2010);15(3):1425-32.
- [9] Synthesis, Characterization and Reactivity Ratio Study of Poly(di(tri-n-butyltin) citraconate-co-N-vinylimidazole), Al-Deyab SS, El-Newehy MH, Al-Hazmi AM. **Molecules**, (2010);15(7):4750-6.
- [10] Friedel-Crafts benzylation of benzene and other aromatics using 3D mesoporous gallosilicate with cage type porous structure, Anand C, Sathyaseelan B, Samie L, Beitollahi A, Kumar RP, Palanichamy M, et al. **Microporous and Mesoporous Materials**, (2010);134(1-3):87-92.
- [11] Reactivity of Heteropolytungstate and Heteropolymolybdate Metal Transition Salts in the Synthesis of Dimethyl Carbonate from Methanol and CO₂, Aouissi A, Al-Deyab SS, Al-Owais A, Al-Amro A. **International Journal of Molecular Sciences**, (2010);11(7):2770-9.

- [12] The Cationic Ring-Opening Polymerization of Tetrahydrofuran with 12-Tungstophosphoric Acid, Aouissi A, Al-Deyab SS, Al-Shahri H. **Molecules**, (2010);15(3):1398-407.
- [13] CATIONIC RING-OPENING POLYMERIZATION OF TETRAHYDROFURAN WITH KEGGIN-TYPE HETEROPOLYCOMPOUNDS AS SOLID ACID CATALYSTS, Aouissi A, Al-Deyab SS, Al-Shehri H. **Chinese Journal of Polymer Science**, (2010);28(3):305-10.
- [14] Nanoporous aluminosilicate catalyst with 3D cage-type porous structure as an efficient catalyst for the synthesis of benzimidazole derivatives, Chari MA, Shobha D, Kenawy E-R, Al-Deyab SS, Reddy BVS, Vinu A. **Tetrahedron Letters**, (2010);51(39):5195-9.
- [15] Efficient Synthesis of 2,3,4-Trisubstituted Quinolines via Friedlander Annulation with Nanoporous Cage-Type Aluminosilicate AlKIT-5 Catalyst, Chauhan S, Chakravarti R, Zaidi SMJ, Al-Deyab SS, Reddy BVS, Vinu A. **Synlett**, (2010) (17):2597-600.
- [16] Corrosion Inhibition of C38 Steel in 1 M HCl: A Comparative Study of Black Pepper Extract and Its Isolated Piperine, Dahmani M, Et-Touhami A, Al-Deyab SS, Hammouti B, Bouyanzer A. **International Journal of Electrochemical Science**, (2010);5(8):1060-9.
- [17] Crystal Structure and Spectroscopic Investigations of a New Organic Monophosphate Monohydrate, Dhaouadi H, Marouani H, Rzaigui M, Al-Deyab SS, Madani A. **Phosphorus Sulfur and Silicon and the Related Elements**, (2010);185(3):609-19.
- [18] Highly Efficient LaCoO₃ Nanofibers Catalysts for Photocatalytic Degradation of Rhodamine B, Dong B, Li Z, Li Z, Xu X, Song M, Zheng W, et al. **Journal of the American Ceramic Society**, (2010);93(11):3587-90.
- [19] Reactivity Ratios for Organotin Copolymer Systems, El-Newehy MH, Al-Deyab SS, Al-Hazmi AMA. **Molecules**, (2010);15(4):2749-58.
- [20] 4-Phenylpiperazin-1-ium dihydrogen phosphate, Essid M, Marouani H, Rzaigui M, Al-Deyab SS. **Acta Crystallographica Section E-Structure Reports Online**, (2010);66:O2244-U1733.
- [21] Bis(homopiperazine-1,4-diium) cyclotetraphosphate-telluric acid (1/2), Hemissi H, Rzaigui M, Al-Deyab SS. **Acta Crystallographica Section E-Structure Reports Online**, (2010);66:O2712-U1687.
- [22] Bis(3-ammoniomethylpyridinium) cyclotetraphosphate, Hemissi H, Rzaigui M, Al-Deyab SS. **Acta Crystallographica Section E-Structure Reports Online**, (2010);66:O779-U1896.
- [23] Structural and optical properties of Dy doped ZnO thin films prepared by pyrolysis technique, Ilanchezhian P, Kumar GM, Vinu A, Al-Deyab SS, Jayavel R. **International Journal of Nanotechnology**, (2010);7(9-12):1087-97.
- [24] Controlled Release of 5-Aminosalicylic Acid (5-ASA) from New Biodegradable Polyurethanes, Kenawy E-R, Al-Deyab SS, El-Newehy MH. **Molecules**, (2010);15(4):2257-68.
- [25] Controlled release of atenolol from freeze/thawed poly(vinyl alcohol)

hydrogel, Kenawy E-R, El-Newehy MH, Al-Deyab SS. **Journal of Saudi Chemical Society**, (2010);14(2):237-40.

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