

CURRICULUM VITAE

Dr. Mohamed Hassan El-Newehy
Associate Professor

1. PERSONAL DATA

Name : Mohamed Hassan El-Newehy.

Date of Birth : 13 / 8 / 1973 G (15 / 7 / 1393 H)

Place of Birth : Tanta - Egypt.

Nationality : Egypt

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

Permanent Address: Chemistry Department of, Faculty of Science, Tanta University, Tanta 31527, Egypt

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http://tdb.tanta.edu.eg/staff_data/Staff%20Detailed%20Data_ar.aspx?MemberID=3760



2. ACADEMIC/PROFESSIONAL PARTICULARS

(A) FIELD OF SPECIALIZATION

Organic Chemistry (Polymers) and Nanotechnology

(B) ACADEMIC QUALIFICATIONS

- 1) **Ph.D. in Organic Chemistry**, 30 / 1 / 2005 G, Tanta University, Faculty of Science, Tanta 31527, Egypt. The thesis entitled: "Design and Studies of Some New Controlled-Release Formulations of Some Drugs".
Channel system between Tanta University (Egypt) and Virginia Commonwealth University (USA).
- 2) **M.Sc. in Organic Chemistry**, 23 / 2 / 1999 G, Tanta University, Faculty of Science, Tanta 31527, Egypt. The thesis entitled: "Synthesis and Studies of Some New Polymers and Their Use as Support for Biological Active Agents".
- 3) **B.Sc. in Chemistry**, 6 / 1995 G, Tanta University, Faculty of Science, Tanta 31527, Egypt. "Very good; with honor degree".

(C) ACADEMIC HONORS AND AWARDS

- 1) **Partnership and Ownership Grants** (ParOwn Grant, 0907), Ministry of Higher Education and Scientific Research, Egypt (2007 G).
- 2) **ICS-UNIDO Fellowship**, Trieste, Italy (2008 G).
- 3) **King Saud University Award for Research Excellence**; "Rector's List for Distinguished Research and Inventors", Distinguished Research Award "7th position 1432 H (2011 G)", for the academic year 1431-1432 H (2010/2011 G), King Saud University, Saudi Arabia (31 / 1 / 2011 G).
<http://www.alriyadh.com/600399>

- 4) **King Saud University Award for Scientific Excellence**; “Research Quality Award: Science and Engineering 1436 H (2015 G)”, For Academic Year 1435/1436 H (2014/2015 G) King Saud University, Saudi Arabia, 1 / 8 / 1436 H (19 / 5 / 2015 G).

<http://rs.ksu.edu.sa/128382.html>

- 5) **Honored by “Saudi Chemical Society”** - Participation in the activities of the Association to give lectures and participate in seminars during the academic year 2016 - 2017 G.

(D) MEMBERSHIP OF PROFESSIONAL BODIES

- 1) Egyptian Syndicate of Scientific Professions, member, (1995 G - till now).
- 2) Saudi Chemical Society, member, (6 / 2010 G – 6/2018 G).
- 3) American Chemical Society, member, (31 / 1 / 2011 G – 30 / 1 / 2012 G).
- 4) American Chemical Society, member, (29 / 3 / 2013 G – 28 / 3 / 2014 G).

3. CAREER DETAILS

(A) ACADEMIC POSITIONS HELD

- 7) **Associate Professor**; Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia. 26 / 5 / 2014 G - Till now.
- 6) **Associate Professor**; Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt. 31 / 3 / 2013 G - Till now.
- 5) **Assistant Professor**; Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia. 31 / 3 / 2009 G – 26 / 5 / 2014 G.
- 4) **Assistant Professor**; 7th of April University, Faculty of Medicine and Public Health-Al-Jomail, Azzawia, Libya. 1 / 10 / 2005 G – 31 / 7 / 2007 G.
- 3) **Assistant Professor**; Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt. 27 / 2 / 2005 G – 31 / 3 / 2013 G.
- 2) **Assistant Lecturer**; Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt. 6 / 4 / 1999 G – 27 / 2 / 2005 G.
- 1) **Demonstrator**; Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt. 25 / 10 / 1995 G – 6 / 4 / 1999 G.

(B) POSTDOCTORAL AND VISITING PROFESSOR

- 10) **Visiting Professor**; State Key Laboratory for Medication of Chemical Fibers and Polymer Materials, College of Materials Science and Engineering, Donghua University, Shanghai 201620, China; 21-27 / 3 / 2015 G.
- 9) **Visiting Professor**; Department of Organic Materials and Fibers, College of Engineering, Chonbuk National University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-75, South Korea; 20-29 / 3 / 2014 G.
- 8) **Visiting Professor**; Department of Organic Materials and Fibers, College of Engineering, Chonbuk National University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-75, South Korea; 19-25 / 6 / 2013 G.
- 7) **Visiting Professor**; College of Chemistry, Chemistry Engineering and Biotechnology, 2999 Renmin Road North, Songjiang, Shanghai 201620, China; 20-30 / 3 / 2013 G.

- 6) **Visiting Professor**; Department of Organic Materials and Fibers, College of Engineering, Chonbuk National University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-75, South Korea; 29-31 / 10 / 2011 G.
- 5) **Visiting Professor**; Department of Organic Materials and Fibers, College of Engineering, Chonbuk National University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-75, South Korea; 15-29 / 7 / 2011 G.
- 4) **Postdoctoral** (ParOwn Grant Supported by Egyptian Government); Department of Polymer Science and Engineering, Graduate School of Science and Engineering, Yamagata University, 4-3-16, Jonan, Yonezawa, 992-8510, Japan; 1 / 12 / 2008 G – 28 / 2 / 2009 G.
- 3) **Postdoctoral** (ICS-UNIDO Fellow); BIOLAB, Department Chemistry and Industrial Chemistry, University of Pisa, Pisa 56126, Italy; 1 / 6 / 2008 G – 30 / 11 / 2008 G.
- 2) **Research Scholar**; Virginia Commonwealth University, School of Engineering, Department of Chemical Engineering, Richmond, Virginia 23284-2006, USA; 1 / 11 / 2003 G – 22 / 5 / 2004 G.
- 1) **Research Scholar**; Virginia Commonwealth University, College of Humanities & Sciences, Chemistry Department, Richmond, Virginia 23284-2006, USA; 22 / 5 / 2002 G – 1 / 11 / 2003 G.

4. TEACHING

(A) SUMMARY OF COURSES TAUGHT

- 1) **CHEM 563 (MSc), Biopolymers**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 2) **CHEM 561 (MSc), Fundamentals of Polymer Science**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 3) **CHEM 574 (MSc), Preparation and Characterization of Polymers**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 4) **CHEM 342 (CHEM 346) (BSc), Polymer & Petrochemicals**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 5) **CHEM 340 (BSc), Fundamentals of Organic Chemistry**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 6) **CHEM 244, Fundamentals of Organic Chemistry (I)**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 7) **CHEM 145, Introduction to Organic Chemistry**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 8) **CHEM 109, Introduction to Organic Chemistry**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 9) **CHEM 108, Introduction to Organic Chemistry**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 10) **CHEM 101, General Chemistry**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 11) **Natural Products for 3rd year Botany students**, Faculty of Science, Tanta University, Tanta Egypt.
- 12) **Fundamentals of Organic Chemistry for the 1st year students**, Faculty of Education, Tanta University, Tanta Egypt.

- 13) **Biochemistry**, 7th of April University, Faculty of Medicine and Public Health-Al-Jomail, Azzawia, Libya.
- 14) **General Chemistry Lab for the First year students**, Faculty of Science, Tanta University, Tanta, Egypt.
- 15) **General Chemistry Lab for the Preparatory year students**, Faculty of Engineering, Tanta University, Tanta, Egypt.
- 16) **Practical Organic Chemistry for the Preparatory year students**, Faculty of Dentistry, Tanta University, Tanta, Egypt.
- 17) **Practical Organic Chemistry for the 2nd year students**, Faculty of Science and Faculty of Education, Tanta University, Tanta, Egypt.
- 18) **Practical Organic Chemistry for the 3rd year students**, Faculty of Science and Faculty of Education, Tanta University, Tanta, Egypt.
- 19) **Advanced Practical Organic Chemistry for the 4th year students**, Faculty of Science, Tanta University, Tanta, Egypt.

(B) PARTICIPATION IN ACADEMIC ACCREDITATION

- 1) **Membership of “Committees for Characterization of Academic Programs and Courses and awareness - Department of Chemistry - 2009”**, Quality Assurance Unit at Faculty of Science, Quality Assurance Center, Tanta University, Tanta 31527, Egypt.
- 2) **Membership of “Committees for Academic Accreditation for postgraduate programs”**, 30 / 5 / 1438 H - Till now (27 / 2 / 2017 G - Till now), at Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- 3) **Membership of “Annual Report Team”**, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia; 18 / 3 / 1439 H - Till now (7 / 12 / 2017 G - Till now).

(C) RESEARCH STUDENTS SUPERVISED/TRAINED

- 1) **Student name: Sameh Mohamed Osman**
Thesis Title: “Microwave-assisted synthesis and characterization of some co-polymers based on itaconic anhydride”.
Degree: Master degree in Polymer Science. **Date:** 2010-2011G (Graduated 11 / 6 / 2011 G).
Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.
Supervisors: Prof. Dr. Salem Al-Deyab and **Dr. M. El-Newehy (Co-I)**
- 2) **Student name: Abdullah Ali Alamri**
Thesis Title: “Synthesis and characterization of amine-terminated polymers and their use as carriers for antimicrobial agents”.
Degree: Master degree in Polymer Science. **Date:** 2010-2012 G (Graduated 5 / 6 / 2012 G).
Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.
Supervisors: **Dr. M. El-Newehy (PI)**, Prof. Dr. Salem Al-Deyab and Prof. Dr. Hak Yong Kim
- 3) **Student name: Saleh Alotaiby**
Thesis Title: “Preparation and characterization of electrospun nanofibers based on cellulose derivatives and their use as drug carrier”.
Degree: Master degree in Polymer Science. **Date:** 3 / 2012 G - 1 / 2013 G.
Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.
Supervisors: **Dr. M. El-Newehy (PI)**, Prof. Dr. Salem Al-Deyab and Prof. Dr. Hak Yong Kim.
- 4) **Student name: Ali Alfifiy**

Thesis Title: “Microwave-assisted graft copolymerization of amino acid based monomers onto starch and their use as drug carrier”.

Degree: Master degree in Polymer Science. **Date:** 4 / 2012 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Supervisors: Dr. M. El-Newehy (PI) and Dr. Essam Abdel-Halim

5) **Student name: Abdel-Megeed Al-Hakbany**

Thesis Title: “Preparation of ion exchangers and adsorbents for wastewater treatment through recycling of palm tree cellulosic wastes”

Degree: Master degree in Polymer Science. **Date:** 4 / 2012 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Supervisors: Dr. Essam Abdel-Halim (PI) and Dr. M. El-Newehy (Co-I).

6) **Student name: Badr Mohamed Thamer**

Thesis Title: “Synthesis and characterization of effective electrodes for the advanced energy devices based on polymeric electrospun nanofibers”.

Degree: Master degree in Polymer Science. **Date:** 12 / 2012 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Supervisors: Prof. Dr. Salem Al-Deyab and Dr. M. El-Newehy (Co-I).

7) **Student name: A. Meera Moydeen**

Thesis Title: “Fabrication, characterization and pharmaceutical applications of some electrospun nanofibers”.

Degree: Ph.D. **Date:** 1 / 1 / 2016 G - 31 / 12 / 2020 G.

Address: Department of Chemistry, Jamal Mohamed College (Autonomous), Bharathidasan University, India (www.bdu.ac.in).

Supervisors: Dr. M. Syed Ali Padusha (Research Supervisor) and Dr. M. El-Newehy (Co-guide) (Department of Chemistry, College of Science, King Saud University, Saudi Arabia).

8) **Student name: Mohamed Abbas Alabedrab Alnaby**

Thesis Title: “Fabrication, characterization and catalytic application of electrospun polymer-metallic nanofibers in fuel cells”.

Degree: Master degree in Polymer Science. **Date:** 5 / 2016 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Supervisors: Dr. M. El-Newehy (PI) and Dr. Abdullah Alenizi (Co-I).

9) **Student name: Badr Mohamed Thamer**

Thesis Title: “Synthesis of electrospun carbon nanofibers containing organic functional groups for water treatment”.

Degree: Ph.D. (Organic Chemistry). **Date:** 5 / 2017 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Supervisors: Prof. Dr. Salem Al-Deyab, and Dr. M. El-Newehy (Co-I).

(D) PARTICIPATION IN THESIS AND ORAL EXAMINATION COMMITTEES

1) **Student name: Akram Ahmed Al-Mousa**

Thesis Title: “Preparation and characterization of antimicrobial wound dressing”.

Degree: Master degree in Polymer Science. **Date:** 2 / 5 / 2011 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: Prof. Salem Al-Deyab, Dr. Ahmed Abdel-Fattah (Department of Botany and Microbiology, College of Science, King Saud University, Saudi Arabia) and Dr. M. El-Newehy.

2) **Student name: Sameh Mohamed Osman**

Thesis Title: “Microwave-assisted synthesis and characterization of some copolymers based on itaconic anhydride”.

Degree: Master degree in Polymer Science. **Date:** 11 / 6 / 2011 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: Prof. Salem Al-Deyab and **Dr. M. El-Newehy**.

3) **Student name:** Khalid Eidan Ali Aleidan

Thesis Title: “Oxidative dehydrogenation of ethylbenzene to styrene as monomer for polystyrene”.

Degree: Master degree in Polymer Science. **Date:** 14 / 1 / 2012 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: Prof. Salem Al-Deyab and Dr. Mohamed Alhazmy (SABIC), Dr. Hany El-Hamshary and **Dr. M. El-Newehy**.

4) **Student name:** Abdullah Ali Alamri

Thesis Title: “Synthesis and characterization of amine-terminated polymers and their use as carriers for antimicrobial agents”.

Degree: Master degree in Polymer Science. **Date:** 5 / 6 / 2012 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: **Dr. M. El-Newehy** and Prof. Salem Al-Deyab.

5) **Student name:** Saleh Alotaiby

Thesis Title: “Preparation and characterization of electrospun nanofibers based on cellulose derivatives and their use as drug carrier”

Degree: Master degree in Polymer Science. **Date:** 16 / 1 / 2013 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: **Dr. M. El-Newehy** and Prof. Salem Al-Deyab.

6) **Student name:** Ali Alfifiy

Thesis Title: “Microwave-assisted graft copolymerization of amino acid based monomers onto starch and their use as drug carrier”.

Degree: Master degree in Polymer Science. **Date:** 17 / 4 / 2013 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: **Dr. M. El-Newehy** and Prof. Essam Abdelhalim.

7) **Student name:** Hamud Abdullah Altaieb

Thesis Title: “R/D of activated carbon nanofibers from electrospun polyacrylonitrile bundles and its application in water purification”.

Degree: Master degree in Polymer Science. **Date:** 22 / 5 / 2013 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: Prof. Salem Al-Deyab, Prof. Khalil Abdrazek (Department of Mechanical Engineering, College of Engineering, King Saud University, Saudi Arabia) and **Dr. M. El-Newehy**.

8) **Student name:** Abdel-Megeed Al-Hakbany

Thesis Title: “Preparation of ion exchangers and adsorbents for wastewater treatment through recycling of palm tree cellulosic wastes”.

Degree: Master degree in Polymer Science. **Date:** 5 / 12 / 2013 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: Prof. Essam Abdelhalim and **Dr. M. El-Newehy**.

9) **Student name:** Badr Mohamed Thamer

Thesis Title: “Synthesis and characterization of effective electrodes for the advanced energy devices based on polymeric electrospun nanofibers”.

Degree: Master degree in Polymer Science. **Date:** 25 / 5 / 2014 G.

Address: Department of Chemistry, College of Science, King Saud University, Saudi Arabia.

Committee Members: Prof. Salem Al-Deyab and **Dr. M. El-Newehy**.

10) Student name: Ali Qassem Al-Anbari

Thesis Title: "Bio-nano-particles for the remediation of selected pesticides residues in Riyadh area".

Degree: Master of Environmental Sciences. **Date:** 28 / 12 / 2014 G.

Address: Department of Botany and Microbiology, College of Science, King Saud University, Saudi Arabia.

Committee Members: Dr. Ahmed Abdel-Fattah (Department of Botany and Microbiology, College of Science, King Saud University, Saudi Arabia) and **Dr. M. El-Newehy**.

5. RESEARCH

(A) RESEARCH INTERESTS

- 1) Polymer Synthesis and Characterization.
- 2) Microwave-Assisted Polymer Synthesis.
- 3) Electrospinning and Nanofibers.
- 4) Antimicrobial Polymers.
- 5) Drug delivery and Controlled-Release.
- 6) Water treatment.
- 8) Fuel cells.
- 9) Materials and Their Applications.

(B) PUBLICATIONS/CITATIONS DATA

<u>Type of Publication</u>	<u>Number of Publications</u>
Articles in International Refereed Journals	120
Conference Papers	4
Books	2
Book Chapters	4
Others (ON-REVIEWED ARTICLES)	4
Citation Source Number of Citations	2910
<i>h-index</i>	27

(C) RESEARCH GRANTS

1) SUBMITTED AND ACCEPTED PROJECTS

- 1) **Role:** Consultant.

Title: High strength nanofiber composite via supersonic nanoblowing for ground and aviation vehicles.

Project #: 14-NAN2221-02. **Period:** Accepted May 2015 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,800,000)

(PI: Prof. Salem Al-Deyab, King Saud University, Saudi Arabia; Joint Project with Prof. Sam Yoon; Korea University, Republic of Korea).

- 2) **Role:** Principal Investigator (PI).

Title: Bioactive electrospun nanofibres for skin cancer therapy.

Period: Submitted May 2015 G.

Funding Agent: Int. Coop and Scientific Twinning Department, King Saud University, Saudi Arabia. (SR 1,737,000)

(King Saud University, Saudi Arabia; Joint Project with Prof. Andrei Khlobystov; University of Nottingham, Nottingham, United Kingdom).

3) **Role:** Co-Investigator (Co-I).

Title: Multi scale bioactive scaffolds for bone regeneration.

Period: Submitted August 2015 G.

Funding Agent: Int. Coop and Scientific Twinning Department, King Saud University, Saudi Arabia. (SR 1,200,000)

(PI: Prof. Salem Al-Deyab; King Saud University, Saudi Arabia; Joint Project with Prof. Paulo Jorge Bartolo; University of Manchester, Manchester, United Kingdom).

4) **Role:** Co-Investigator (Co-I).

Title: Synthesis of supported catalysts based on Schiff base transition metal complexes and their applications in olefin polymerization.

Period: Submitted August 2017 G.

Funding Agent: SABIC, Riyadh, Saudi Arabia. (SR 782,000)

(PI: Dr. Hany El-Hamshary, King Saud University, Saudi Arabia).

2) CURRENT & RUNNING PROJECTS

1) **Role:** Co-Investigator (Co-I).

Title: New technology for improving phosphorus use efficiency using polymer coated fertilizer.

Project #: 37-S-188.

Period: 9 / 2016 G - 4 / 2018 G.

Funding Agent: Princess Noura Bint Abulrahman University, Riyadh, Saudi Arabia. (SR 152,000)

(PI: Dr. Azza Ibarhim Ebid, Princess Noura Bint Abdulrahman University, Saudi Arabia).

2) **Role:** Co-Investigator (Co-I).

Title: Polymers & nanofibers and their applications.

Project #: REG-201.

Period: 11 / 2017 - 11 / 2018 G.

Funding Agent: Deanship of Scientific Research, Research Groups Program, King Saud University, Saudi Arabia. (SR 150,000)

(PI: Dr. Hany El-Hamshary, King Saud University, Saudi Arabia).

3) COMPLETED & FINISHED PROJECTS

1) **Role:** Assistant Investigator.

Title: Control of bilharzia through the use of controlled-release molluscicides: development, laboratory and small field application.

Period: 1997 – 1999 G.

Funding Agent: Tanta University, Tanta, Egypt. (L.E. 100,000)

(PI: Prof. Mohamed Hassan Mona, Tanta University, Egypt).

2) **Role:** Assistant Investigator.

Title: Synthesis and characterization of new compounds and polymers.

Period: 22 / 5 / 2002 G – 1 / 11 / 2003 G.

Funding Agent: Virginia Commonwealth University, Richmond, VA, USA.

(Prof. Raphael Ottenbrite, Virginia Commonwealth University, USA).

3) **Role:** Assistant Investigator.

Title: Monomer synthesis, polymer synthesis, and polymer materials characterization for implantable biosensors.

Period: 1 / 11 / 2003 G – 22 / 5 / 2004 G.

Funding Agent: Virginia Commonwealth University, Richmond, VA, USA.

(Prof. Gary Wnek, Virginia Commonwealth University, USA).

- 4) **Role:** Investigator.
Title: Synthesis and applications of antimicrobial polymers for various applications.
Period: 2008 – 2010 G.
Funding Agent: Tanta University, Egypt. (L.E. 100,000)
(*PI: Prof. El-Refaie Kenawy, Tanta University, Egypt.*)
- 5) **Role:** Co-Investigator (Co-I).
Title: Chemical modification of chitosan for water treatment.
Project #: Chem/2010/12. **Period:** 2010 - 2011 G.
Funding Agent: College of Science Research Center, King Saud University, Saudi Arabia. (SR 50,000)
(*PI: Prof. El-Refaie Kenawy, King Saud University, Saudi Arabia.*)
- 6) **Role:** Co-Investigator (Co-I).
Title: Scaffolds for human osteoblast cell culture using spider-net structured with nylon 6 and lecithin via electrospinning method.
Period: 6 / 2010 – 6 / 2012 G.
Funding Agent: Visiting Professor Program (VPP), Deanship of Scientific Research, King Saud University, Saudi Arabia. (SR 100,000)
(*Joint project with Chonbuk National University, South Korea; Prof. Hak Yong Kim.*)
- 7) **Role:** Co-Investigator (Co-I).
Title: Preparation and biomedical application for spider-net structures with nylon 6 and chitosan via electrospinning technology.
Period: 6 / 2010 G – 6 / 2012 G.
Funding Agent: Visiting Professor Program (VPP), Deanship of Scientific Research, King Saud University, Saudi Arabia. (SR 100,000)
(*Joint project with Chonbuk National University, South Korea; Prof. Hak Yong Kim.*)
- 8) **Role:** Co-Investigator (Co-I).
Title: Synthesis and characterization of amine-terminated polymers and their use as carriers for antimicrobial agents.
Project #: AT-11-0564. **Period:** 27 / 2 / 2011 G – 5 / 6 / 2012 G.
Funding Agent: King Abdul-Aziz City for Science and Technology (KACST), Saudi Arabia. (SR 60,000)
(*Master Thesis in Polymer Science, King Saud University; Abdullah Ali Alamri, King Saud University, Saudi Arabia.*)
- 9) **Role:** Co-Investigator (Co-I).
Title: Microwave-assisted graft copolymerization of amino acid based monomers onto starch and their use as drug carrier.
Project #: AT-12-0667. **Period:** 2012 – 2013 G.
Funding Agent: King Abdul-Aziz City for Science and Technology (KACST), Saudi Arabia. (SR 40,000)
(*Master Thesis in Polymer Science, King Saud University; Ali Alfifi, King Saud University, Saudi Arabia.*)
- 10) **Role:** Principal Investigator (PI).
Title: Preparation of Polymers and Electrospun Nanofibers.
Project #: REG-VPP-021. **Period:** 1 / 4 / 2011 G – 31 / 3 / 2012 G.
Funding Agent: Deanship of Scientific Research – Research Groups Program, King Saud University, Saudi Arabia (SR 200,000)
- 11) **Role:** Co-Investigator (Co-I).

Title: Bio-active nanofibers via electrospinning.

Project #: 10-NAN1013-02.

Period: 1 / 7 / 2011 G - 30 / 6 / 2013 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,836,800)

(PI: Prof. Dr. Salem Al-Deyab, King Saud University, Saudi Arabia; Joint Project with Prof. Xiuemi Mo, Donghua University, Shanghai, China).

12) **Role:** Principal Investigator (PI).

Title: Non-precious metallic nanofibers as novel, cheap and effective electrodes for scaling up fuel cells manufacturing technology.

Project #: 11-ENE1721-02.

Period: 1 / 2 / 2012 G – 31 / 1 / 2014 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,678,000)

(King Saud University, Saudi Arabia; Joint Project with Prof. Nasser Barakat, Chonbuk National University, Jeonju, Republic of Korea).

13) **Role:** Co-Investigator (Co-I).

Title: Fabrication of electrospun bio-nanofibers for oil spill leakage treatment in the eastern coast of Saudi Arabia.

Project #: 12-NAN2541-02.

Period: 1 / 7 / 2013 G – 31 / 12 / 2015 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,829,600)

(PI: Dr. Ahmed Abdel-Megeed, King Saud University, Saudi Arabia).

14) **Role:** Principal Investigator (PI).

Title: Polymers & nanofibers and their applications.

Project #: REG-021.

Period: 25 / 9 / 2014 G – 24 / 9 / 2015 G.

Funding Agent: Deanship of Scientific Research - Research Groups Program, King Saud University, Saudi Arabia, (SR 150,000)

15) **Role:** Co-Investigator (Co-I).

Title: Preparation of super performance continuous carbon filaments for aircraft and automobile parts.

Project #: 11-NAN1915-02.

Period: 1 / 2 / 2014 G – 31 / 7 / 2016 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,868,000)

(PI: Prof. Dr. Salem Al-Deyab, King Saud University, Saudi Arabia; Joint Project with Prof. Hak Yong Kim, Chonbuk National University, Jeonju, Republic of Korea).

16) **Role:** Principal Investigator (PI).

Title: Development and commercialization of fuel cells based on industrial and sewage waters using nanotechnological approach.

Project #: 11-ENE1917-02.

Period: 1 / 2 / 2014 G – 31 / 7 / 2016 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,838,000)

(King Saud University, Saudi Arabia; Joint Project with Prof. Nasser Barakat, Chonbuk National University, Jeonju, Republic of Korea).

17) **Role:** Consultant.

Title: Preparation and selective modification of some clay-polymer nanocomposites and their potential applications for wastewater treatment.

Project #: 11-NAN2029-03.

Period: 1 / 9 / 2014 G – 31 / 8 / 2016 G.

Funding Agent: The National Plan for Sciences & Technology (NPST), King Saud University, Saudi Arabia. (SR 1,746,180)

(PI: Dr. Abeer Elsherbiny, King Abdul-Aziz University, Saudi Arabia).

18) **Role:** Co-Investigator (Co-I).

Title: Functional nanofibrous materials.

Project #: REG14-25.

Period: 4 / 2014 G – 4 / 2015 G.

Funding Agent: Deanship of Scientific Research – International Research Groups Program, King Saud University, Saudi Arabia. (SR 300,000)

(PI: Prof. Dr. Salem Al-Deyab, King Saud University, Saudi Arabia; Joint Project with Prof. Bin Ding, Donghua University, Shanghai, China).

(D) PARTICIPATION IN REGIONAL & INTERNATIONAL CONFERENCES

1) **Title:** The 5th Arab International Conference on Polymer Science and Technology.

Date: 18-22 / 9 / 1999 G.

Place: Luxor-Aswan, Egypt.

Organizer: Egyptian Society for Polymer Science and Technology, National Research Center.

3) **Title:** The 6th Arab International Conference on Polymer Science and Technology.

Date: 1-5 / 9 / 2001 G.

Place: Ismailia-Sharm El-Sheikh, Egypt.

Organizer: Egyptian Society for polymer science and technology, National Research Center.

4) **Title:** The 1st International Conference of Chemical Industries, Research Division.

Date: 6-8 / 12 / 2004 G.

Place: National Research Center, Cairo, Egypt.

Organizer: Chemical Industries Division, National Research Center.

6) **Title:** International Conference for Enhancing Scientific Research: New Horizons.

Date: 20-21 / 2 / 2008 G.

Place: Tanta University, Tanta 31527, Egypt.

Organizer: Tanta University.

7) **Title:** 2004 VCU Nanofiber Symposium.

Date: 16 / 4 / 2004 G.

Place: Virginia Biotechnology Association, 800 East Leigh Street, Richmond, VA 23219-1534, USA.

Organizer: School of Engineering, Virginia Commonwealth University.

8) **Title:** TA Instruments 2003 Thermal Analysis & Rheology Seminar Series.

Date: 5 / 2003 G.

Place: School of Engineering, Virginia Commonwealth University (VCU), Richmond, VA 23284, USA.

Organizer: School of Engineering, Virginia Commonwealth University.

7) **Title:** The International Conference for Nanotechnology Industries.

Date: 5-7 / 4 / 2009 G.

Place: InterContinental Hotel, Riyadh, Saudi Arabia.

Organizer: King Abdullah Institute of Nanotechnology (KAIN), King Saud University.

8) **Title:** 241st American Chemical Society-National Meeting & Exposition.

Date: 27-31 / 3 / 2011 G.

Place: Anaheim Convention Center, Anaheim, California, USA.

Organizer: American Chemical Society (ACS).

9) **Title:** The Saudi International Petrochemical Technologies Conference.

Date: 6-7 / 6 / 2011 G.

- Place:** KACST Headquarters-Conference Hall-Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
Organizer: King Abdul-Aziz City for Science and Technology (KACST).
- 10) **Title:** The 11th Asian Textile Conference “Knowledge Convergence in Textiles for Human and Nature”.
Date: 1-4 / 11 / 2011 G.
Place: EXCO, Daegu, Republic of Korea.
Organizer: Asian Textile Society.
- 11) **Title:** The 4th International Chemistry Conference.
Date: 19-21 / 11 / 2011 G.
Place: Madareem Crown Hotel, Riyadh, Saudi Arabia.
Organizer: Saudi Chemical Society and Department of Chemistry, College of Science, King Saud University.
- 12) **Title:** Advanced Technologies Forum 2011.
Date: 28-30 / 11 / 2011 G.
Place: KACST Headquarters-Conference Hall–Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
Organizer: King Abdul-Aziz City for Science and Technology (KACST).
- 13) **Title:** International Conference on Materials Science and Its Applications “Development and Innovation”.
Date: 13–15 / 2 / 2012 G.
Place: Taif University, Taif, Saudi Arabia.
Organizer: College of Science, Taif University.
- 14) **Title:** 5th Saudi Science Conference.
Date: 16–18 / 4 / 2012 G.
Place: King Abdul Aziz Hall, Umm Al-Qura University, Makkah, Saudi Arabia.
Organizer: Umm Al-Qura University.
- 15) **Title:** 2nd International Conference on Electrospinning 2012 (Electrospin 2012).
Date: 29 / 5 - 1 / 6 / 2012 G.
Place: Hyatt Regency Hotel, Jeju, Republic of Korea.
Organizer: Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST).
- 16) **Title:** The 2nd Saudi International Nanotechnology Conference (2SINC) 2012.
Date: 11–13 / 11 / 2012 G.
Place: KACST Headquarters - Conference Hall - Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
Organizer: King Abdul-Aziz City for Science and Technology (KACST).
- 17) **Title:** The 2nd KACST-Oxford Petrochemicals Forum 2012.
Date: 9-12 / 9 / 2012 G.
Place: KACST Headquarters-Conference Hall –Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
Organizer: King Abdul-Aziz City for Science and Technology.
- 18) **Title:** 245th American Chemical Society-National Meeting & Exposition.
Date: 7-11 / 4 / 2013 G.
Place: New Orleans, Louisiana, USA.
Organizer: American Chemical Society (ACS).

- 19) **Title:** 1st International Conference on Natural Fibers - Sustainable Materials for Advanced Applications.
Date: 9-11 / 6 / 2013 G.
Place: Guimarães, Portugal.
Organizer: University of Minho.
- 20) **Title:** 4th Asian Biomaterials Congress” (ABMC4).
Date: 26-29 / 6 / 2013 G.
Place: Hong Kong University of Science and Technology, Hong Kong.
Organizer: Hong Kong University of Science and Technology.
- 21) **Title:** 12th International Conference-Polymers for Advance Technologies 2013” (PAT 2013).
Date: 29 / 9 - 2 / 10 / 2013 G.
Place: Henry Ford Building, Freie Universtat Berlin, Berlin, Germany.
Organizer: Freie Universtat Berlin.
- 22) **Title:** The 1st Saudi - Chinese Oil Refinery Forum 2013.
Date: 28-29 / 10 / 2013 G.
Place: KACST Headquarters–Conference Hall–Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
Organizer: King Abdul-Aziz City for Science and Technology.
- 23) **Title:** KAUST Polymer Conference: From Synthesis to Properties and Applications.
Date: 9-13 / 11 / 2013 G.
Place: King Abdullah University for Science and Technology (KAUST), Thuwal, Saudi Arabia.
Organizer: King Abdullah University for Science and Technology.
- 24) **Title:** International Conference on Chemical, Agricultural and Medical Sciences (CAMS-2013).
Date: 29-30 / 12 / 2013 G.
Place: Kuala Lumpur, Malaysia.
Organizer: IICBE Int’l Conference.
- 25) **Title:** Fifth International Chemistry Conference (5th ICC) “Chemistry for Durable Globe and Society Welfare.
Date: 26-29 / 4 / 2014 G.
Place: Abha, Saudi Arabia.
Organizer: Saudi Chemical Society and Department of Chemistry, College of Science, King Khalid University, Abha, Saudi Arabia.
- 26) **Title:** Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2014).
Date: 16-19 / 9 / 2014 G.
Place: Grand Hotel, Suzhou, China.
Organizer: Biomedical Polymers Laboratory, Soochow University
- 27) **Title:** The 3rd Saudi International Nanotechnology Conference 2014.
Date: 1-3 / 12 / 2014 G.
Place: KACST Headquarters-Conference Hall –Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
Organizer: King Abdul-Aziz City for Science and Technology.
- 28) **Title:** ICCPE 2015: XIII International Conference on Chemical and Process Engineering.
Date: 19-20 / 1 / 2015 G.
Place: London, United Kingdom.
Organizer: IICBE Int’l Conference.

- 29) **Title:** 2015 International Conference on Chemical, Metallurgy and Environmental Engineering (CMAEE-15)
Date: 3-4 / 6 / 2015 G.
Place: Istanbul, Turkey.
Organizer: IICBE Int'l Conference.
- 30) **Title:** The 2nd Saudi International Conference on Scientific Publishing 2015
Date: 11-13 / 10 / 2015 G.
Place: King Saud University, Riyadh, Saudi Arabia.
Organizer: Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.
- 31) **Title:** 1st International Conference on Applied Chemistry - ICAC 2015
Date: 18- 19 / 11 / 2015 G.
Place: King Faisal Convention Center - King Abdul-Aziz University, Jeddah, Saudi Arabia.
Organizer: Department of Chemistry, King Abdul-Aziz University.
- 32) **Title:** Sixth International Chemistry Conference (6th ICC) "New Trends in Chemistry".
Date: 8-10 / 11 / 2016 G.
Place: King Saud University, Riyadh, Saudi Arabia.
Organizer: Saudi Chemical Society and Department of Chemistry, King Saud University.

(E) PARTICIPATION IN WORKSHOPS

- 1) **Title:** Sustainable Plastics from Renewable Resources and from Agro-Food Waste
Date: 29-30 / 3 / 2008 G.
Place: Ramses Hilton Hotel, 1115 Corniche El Nile, Cairo, Egypt.
Organizer: ICS-UNIDO, Trieste, Italy in collaboration with National Cleaner Production Centre Cairo, Egypt, Plastic Technology Centre Alexandria, Egypt, and UNIDO Regional Office, Cairo, Egypt.
- 2) **Title:** Advances in Nanomaterials for Industrial Applications
Date: 17 / 10 / 2011 G.
Place: College of Engineering, KSU, Riyadh, Saudi Arabia.
Organizer: Petrochemical Research Chair (PRC), Chemical Engineering Department and Visiting Professor Program (VPP) at King Saud University, Riyadh, Saudi Arabia.
- 3) **Title:** Ethics of Scientific Research
Date: 4 / 12 / 2011 G.
Place: Diriya Hall, KSU, Riyadh, Saudi Arabia.
Organizer: Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.
- 4) **Title:** Anton Paar Seminar: Lab Systems
Date: 18 / 3 / 2012 G.
Place: Radisson Blu Hotel, Riyadh, Saudi Arabia.
Organizer: Naizak Company.
- 5) **Title:** Introduction to the FP7 European Funding for Research and Innovation
Date: 10 / 4 / 2012 G
Place: College of Science, KSU, Riyadh, Saudi Arabia.
It has been accredited by the Saudi Commission for Health Specialties with accreditation number: 26793/2012.
Organizer: Biomarkers Research Program, College of Science, King Saud University, Saudi Arabia.
- 6) **Title:** Development of Scientific Research in King Saud University
Date: 5 / 2 / 2013 G (24 / 3 / 1434 H).

- Place:** Diriya Hall, KSU, Riyadh, Saudi Arabia.
Organizer: Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.
- 7) **Title:** Research Groups: Current Status and Prospects
Date: 24 / 2 / 2013 G (14 / 4 / 1434 H).
Place: Diriya Hall, KSU, Riyadh, Saudi Arabia.
Organizer: Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.
- 8) **Title:** Towards Distinguished Outcomes for the National Plan Projects
Date: 2 / 3 / 2013 G (20 / 4 / 1434 H).
Place: Diriya Hall, KSU, Riyadh, Saudi Arabia.
Organizer: King Saud University (KSU) in collaboration with King Abdul-Aziz City for Science and Technology (KACST), Riyadh, Saudi Arabia.
- 9) **Title:** Porous Materials: Design and Applications
Date: 19 / 11 / 2013 G (16 / 1 / 1435 H).
Place: Department of Chemistry, College of Science, KSU, Riyadh, Saudi Arabia.
Organizer: Petrochemical Research Chair (PRC) and Visiting Professor Program (VPP), King Saud University, Riyadh, Saudi Arabia.
- 10) **Title:** Porous Materials: Design and Applications
Date: 20 / 11 / 2013 G (17 / 1 / 1435 H).
Place: College of Science, KSU, Riyadh, Saudi Arabia.
Organizer: King Abdullah Institute for Nanotechnology (KAIN) and Visiting Professor Program (VPP), King Saud University, Riyadh, Saudi Arabia.
- 11) **Title:** Materials and Energy for New Energy Technologies
Date: 9 / 12 / 2013 G (6 / 2 / 1435 H).
Place: Department of Chemistry, College of Science, KSU, Riyadh, Saudi Arabia.
Organizer: Saudi Chemical Society and Royal Society of Chemistry, King Saud University, Riyadh, Saudi Arabia.
- 12) **Title:** Excellence in Petrochemicals: Local and International Perspectives
Date: 12 / 2 / 2014 G (12 / 4 / 1435 H).
Place: Diriya Hall, KSU, Riyadh, Saudi Arabia.
Organizer: College of Engineering and College of Science, King Saud University, Riyadh, Saudi Arabia.
- 13) **Title:** Applications of Gas Chromatography – Mass Spectrometry (GC-MS)
Date: 14 / 5 / 2014 G (15 / 7 / 1435 H).
Place: Department of Botany and Microbiology, College of Science, KSU, Riyadh, Saudi Arabia
Organizer: Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, Saudi Arabia.
- 14) **Title:** Expert SciFinder Users Orientation Session: Presented by Mr. Paul Peters, CAS Director for Europe, Middle East and Africa
Date: 26 / 10 / 2014 G
Place: Department of Chemistry, College of Science, KSU, Riyadh, Saudi Arabia.
Organizer: Chemical Abstracts Services (CAS) & Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.
- 15) **Title:** Research Workshop on Nanotechnology & Its Applications
Date: 16 / 4 / 2015 G (26 / 6 / 1436 H).
Place: AlDirwaza Hall, KSU, Riyadh, Saudi Arabia
Organizer: Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.

- 16) **Title:** The 38th Meeting on Using Nanotechnology in Water Treatment
Date: 17 / 4 / 2016 G (10 / 7 / 2016 H).
Place: AlDirwaza Hall, KSU, Riyadh, Saudi Arabia
Organizer: KACST Headquarters-Conference Hall –Building 36, King Abdullah Road, Riyadh, Saudi Arabia.
- 17) **Title:** Invention and Innovation Culture and Its Importance in Universities
Date: 1 / 1 / 2017 G (3 / 4 / 1438 H).
Place: Diriya Hall, KSU, Riyadh, Saudi Arabia
Organizer: Intellectual Property & Technology Licensing, King Saud University, Riyadh, Saudi Arabia.
- 18) **Title:** Role of international scientific partnership in the quality of scientific research
Date: 16 / 10 / 2017 G (26 / 1 / 1439 H).
Place: AlDirwaza Hall, KSU, Riyadh, Saudi Arabia
Organizer: International Scientific Partnership Program (ISPP), Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia.

(F) PARTICIPATION IN TRAINING COURSES

Training course includes training Programs in (1) Specialization; (2) Scientific Research; (3) University Teaching; (4) Teaching and Learning; (5) Educational Technology; (6) Leadership and Management and (7) Quality and Academic Accreditation.

- 1) **Title:** Preparation of Faculty Members.
Category: Training programs in teaching and learning.
Date: 7 / 1999 G.
Place: Faculty of Education, Tanta University, Tanta 31527, Egypt.
Organizer: Faculty of Education, Tanta University.
- 2) **Title:** 1st Computer Training for Graduate Students.
Category: Training programs in educational technology.
Date: 1 / 2000 G.
Place: Faculty of Commerce, Tanta University, Tanta 31527, Egypt
Organizer: University Information Network.
- 3) **Title:** Internet.
Category: Training programs in educational technology.
Date: 4 / 2000 G.
Place: Faculty of Commerce, Tanta University, Tanta 31527, Egypt
Organizer: University Information Network.
- 4) **Title:** 2nd Computer Training for Graduate Students.
Category: Training programs in educational technology.
Date: 7 / 2004 G.
Place: Faculty of Commerce, Tanta University, Tanta 31527, Egypt
Organizer: University Information Network.
- 5) **Title:** New Trends in Teaching-Use of Technology in Teaching.
Category: Training programs in educational technology.
Date: 6-9 / 6 / 2005 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).
- 6) **Title:** Active Communication.
Category: Training programs in leadership and management.

- Date:** 21-25 / 6 / 2005 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).
- 7) **Title:** Credit Hours System.
Category: Training programs in teaching and learning.
Date: 21-23 / 10 / 2007 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).
- 8) **Title:** Legal and Financial Aspects in University Environment.
Category: Training programs in leadership and management.
Date: 2-4 / 3 / 2008 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).
- 9) **Title:** Tissue Culture Training Course.
Category: Training programs in tissue engineering.
Date: 20-30 / 3 / 2013 G.
Place: College of Chemistry, Chemistry Engineering and Biotechnology, Donghua University, 2999 Renmin Road North, Songjiang, Shanghai 201620, China.
Organizer: College of Chemistry, Chemistry Engineering and Biotechnology, Donghua University. (Prof. Xiumei Mo).
- 10) **Title:** Synthesis and Electrochemical Characterization of the Inorganic Nanofibers to Be Used as Electrodes in the Fuel Cells.
Category: Training programs in fuel cells.
Date: 19-25 / 6 / 2013 G.
Place: Organic Materials and fiber Engineering Department, College of Engineering, Chonbuk National University, Jeonju, 561-756, Republic of Korea.
Organizer: Organic Materials and fiber Engineering Department, College of Engineering, Chonbuk National University. (Prof. Nasser Barakat).
- 11) **Title:** Management of Research Team.
Category: Training programs in scientific research.
Date: 9-11 / 7 / 2013 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).
- 12) **Title:** Management of Time and Meetings.
Category: Training programs in leadership and management.
Date: 16-18 / 7 / 2013 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).
- 13) **Title:** Development and Commercialization of Fuel Cells Using Nanotechnology to Process Industrial Waste and Sewage Water.
Category: Training programs in fuel cells.
Date: 20-29 / 3 / 2014 G.
Place: Organic Materials and fiber Engineering Department, College of Engineering, Chonbuk National University, Jeonju, 561-756, Republic of Korea.
Organizer: Organic Materials and fiber Engineering Department, College of Engineering, Chonbuk National University. (Prof. Nasser Barakat).
- 14) **Title:** Scientific Publishing in International Periodicals.

Category: Training programs in scientific research.
Date: 16-17 / 11 / 2014 G (23-24 / 1 / 1436 H), (10 h training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

15) **Title:** Smart Classrooms.

Category: Training programs in educational technology.
Date: 19 / 11 / 2014 G (26 / 1 / 1436 H), (5 h training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

16) **Title:** Thinking and Teaching.

Category: Training programs in teaching and learning.
Date: 17 / 12 / 2014 G (25 / 2 / 1436 H), (5 h training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

17) **Title:** References Management Software by EndNote.

Category: Training programs in scientific research.
Date: 7-8 / 12 / 2014 G (15-16 / 2 / 1436 H), (10 h training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

18) **Title:** Preparation and Evaluation of Continuous Carbon filaments via electrospinning.

Category: Training programs in carbon nanofibers.
Date: 21-27 / 3 / 2015 G.
Place: Nanomaterials Research Center, Modern Textile Institute, Donghua University, 1882 West Yan'an Road, Shanghai 200051, China.
Organizer: Nanomaterials Research Center, Modern Textile Institute, Donghua University.
(Prof. Bin Ding)

19) **Title:** Course Design and Construction.

Category: Professional Certificate Program in University Teaching.
Date: 17-18 / 4 / 2016 G (10-11 / 7 / 1437 H), (10 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

20) **Title:** Quality Standards in Teaching.

Category: Training programs in teaching and learning.
Date: 20-22 / 6 / 2017 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).

21) **Title:** Research Team Management.

Category: Training programs in scientific research.
Date: 5-6 / 7 / 2017 G.
Place: Tanta University, Tanta 31527, Egypt
Organizer: The International Center for Faculty and Leadership Development (TCIFLD).

22) **Title:** Mobile Learning.

Category: Training programs in educational technology.
Date: 30 / 10 / 2017 G (10 / 2 / 1439 H), (5 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

- 23) **Title:** Build and Manage Teams.
Category: Training programs in leadership and management.
Date: 5 / 11 / 2017 G (16 / 2 / 1439 H), (5 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 24) **Title:** Time Management Skills.
Category: Training programs in leadership and management.
Date: 16 / 11 / 2017 G (27 / 2 / 1439 H), (5 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 25) **Title:** Web of Science Certification Program.
Category: Training programs in scientific research.
Date: 29-30 / 11 / 2017 G (11-12 / 3 / 1439 H), (8 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 26) **Title:** Social Responsibility.
Category: Training programs in leadership and management.
Date: 7 / 12 / 2017 G (19 / 3 / 1439 H), (5 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 27) **Title:** Program Specification and Report.
Category: Training programs in quality and academic accreditation.
Date: 10-11 / 12 / 2017 G (22-23 / 3 / 1439 H), (10 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 28) **Title:** Effective Meetings Management.
Category: Training programs in leadership and management.
Date: 14 / 12 / 2017 G (26 / 3 / 1439 H), (5 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 29) **Title:** Patent Constituents and Determinants.
Category: Training programs in scientific research.
Date: 18 / 12 / 2017 G (30 / 3 / 1439 H), (5 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.
- 30) **Title:** Course Specification and Report.
Category: Training programs in quality and academic accreditation.
Date: 24-25 / 12 / 2017 G (6-7 / 4 / 1439 H), (10 h. training).
Place: King Saud University, Saudi Arabia
Organizer: Deanship of Skills Development.

6. SERVICE

(A) MEMBERSHIP OF CONFERENCE AND WORKSHOPS COMMITTEES

- 1) **Chairman for Scientific Session** “Fiber and Polymer Materials”, The 11th Asian Textile Conference “Knowledge Convergence in Textiles for Human and Nature”, EXCO, Daegu, South Korea, 1-4 / 11 / 2011 G.

- 2) **Membership of Organizing Committee of Training Course** entitled “Fundamentals of polymer science and its industrial applications”, Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia, 4-8 / 2 / 2012 G.
- 3) **Coordinator of Workshop** on “Electrospinning: An effective technique in nanofibers production”, Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia, 20-22 / 2 / 2012 G.
- 4) **Membership of Organizing Committee of Training Course** entitled “Fundamentals of polymer science and its industrial applications”, Petrochemical Research Chair, Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia, 12 / 11 / 2012 G.
- 5) **Coordinator of Workshop** on “Bio-Active nanofibers via electrospinning”), 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, 11-12 / 5 / 2013 G (1-2 / 7 / 1434 H).
- 6) **Coordinator of Workshop** on “Non-precious metallic nanofibers as novel, cheap and effective electrodes for scaling up of fuel cells manufacturing precious metallic nanofibers technology”, 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, 22 / 11 / 2013 G (19 / 2 / 1435 H).
- 7) **Coordinator of Workshop** on “Electrospun nanofibers: Large scale production and applications”, 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, 24 / 12 / 2013 G (21 / 2 / 1435 H).
- 8) **Chairman for Scientific Session** “Track 2: Oil, Gas & Energy and Track 3: Petrochemicals & Catalysis”, “Fifth International Chemistry Conference (5th ICC) “Chemistry for Durable Globe and Society Welfare””, Abha, Saudi Arabia, 26-29 / 4 / 2014 G
- 9) **Member in Advisory Committee** of “1st International Conference on “Recent Trends in Microbiology” (RTM-2016), at 4th floor, Conference Hall, Science Campus, Alagappa University, Karaikudi, India. 7-8 / 12 / 2016 G.
- 10) **Member of Congress** of “Asian Advanced Materials Congress (ASAMC) “, Diamond Princess Cruise Ship cruising from Singapore - Kuala Lumpur (Malaysia) - Penang (Malaysia) - Phuket (Thailand)- Singapore. During 11-16 / 3/ 2017 G, Singapore. Organized by the International Association of Advanced Materials (IAAM) with the collaboration of VBRI Press AB, Sweden.
<http://www.vbripress.org/asamc/#sthash.KWImheg4.dpuf>
- 11) **Member of Scientific Committee** of “International Conference on RECENT TRENDS IN CHEMISTRY ICRTC 2017”, Hurghada, Egypt “, Organized by Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt, 25-28 / 4 / 2017 G.
<http://icrtc.science.tanta.edu.eg>

(B) SERVICE AS REVIEWER

JOURNALS

1. Applied Catalysis B: Environmental, ISSN: 0926-3373, Elsevier B.V.
2. Arabian Journal of Chemistry, ISSN: 1878-5352, Elsevier B.V.
3. Biomacromolecules, ISSN: 1525-7797 (Print), ISSN: 1526-4602 (web), ACS Publications
4. Carbohydrate Polymers, ISSN: 0144-8617, Elsevier B.V.
5. Cellulose, ISSN: 0969-0239 (Print) 1572-882X (Online), Springer.
6. Chinese Journal of Chemistry, Online ISSN: 1614-7065, Wiley Online Library.

7. Current Organocatalysis, ISSN: 2213-3380 (Online) ISSN: 2213-3372 (Print), Bentham Science Publishers
8. International Journal of Biological Macromolecules, ISSN: 0141-8130, Elsevier B.V.
9. International Journal of Hydrogen Energy, ISSN: 0360-3199, Elsevier B.V.
10. Journal of Biomedical Materials Research: Part B – Applied Biomaterials, Online ISSN: 1552-4981, Wiley Online Library.
11. Journal of Applied Polymer Science, Online ISSN: 1097-4628, Wiley Online Library.
12. Journal of Bioactive and Compatible Polymers, ISSN: 08839115, SAGE Journals.
13. Journal of Materials, (Online, Hindawi Publishing Corporation).
14. Journal of Materials Science, ISSN: 0022-2461 (Print) 1573-4803 (Online, Springer).
15. Journal of Taibah University for Science, ISSN: 1658-3655, Elsevier B.V.
16. Korean Journal of Chemical Engineering, ISSN: 0256-1115 (print version) ISSN: 1975-7220 (electronic version), Springer.
17. Macromolecular Materials and Engineering, Online ISSN: 1439-2054, Wiley Online Library.
18. Macromolecular Research, ISSN: 1598-5032 (print version) ISSN: 2092-7673 (electronic version), Springer).
19. Materials Design, ISSN: 0264-1275, Elsevier B.V.
20. Polymer Chemistry (RSC), ISSN 1759-9954, RSC Publishing.
21. Saudi Journal of Biological Sciences, ISSN: 1319-562X, Elsevier B.V.
22. Scientia Iranica

PROJECTS

- 1) **Project # 641**, entitled "Optical properties and electrical conductivity measurements of some organic fluorophores and their complexes with metallic nanoparticles", 2011. (PI: Dr. Yousef Sobhy Bahnsy).
Deanship of Scientific Research, Taibah University, Al-Madinah, Saudi Arabia.
- 2) **Project # 1-438-5481**, entitled " Synthesis, characterization and optical studies for chemical modification of chitosan derivatives into hydrogels for agriculture applications", 5 / 2017 G. (PI: Dr. Khalid AbouKaila).
Deanship of Scientific Research, Taif University, Taif, Saudi Arabia.

BOOKS

- 1) **Book titled; "Nanofabrication Using Electrospinning"**, Editors: Prof. Bin Ding and Prof. Xianfeng Wang (Donghua University, China) and Dr. Jianyong Yu (Academician of China Engineering Academy, China). 14 / 3 / 2016 G.
Publisher; **ELSEVIER**. (Dr. Simon Holt; Acquisitions Editor, Micro& Nano Technologies, Email: s.holt.1@elsevier.com)
- 2) **Book titled; " Melt Electrospinning: A Green Method to Produce Superfine Fibers"**, Editors: Prof. Yong Liu (Beijing University of Chemical Technology, China) and Prof. Seeram Ramakrishna (National University of Singapore, Singapore). 28 / 9 / 2017 G.
Publisher; **ELSEVIER**. (Dr. Glyn Jones, Email: g.jones.2@elsevier.com)

(C) MEMBERSHIP OF JOURNAL EDITORIAL BOARDS

- 1) **Editorial Board Member** of "Current Organocatalysis" (COCAT); ISSN: 2213-3380 (Online) ISSN: 2213-3372 (Print), Bentham Science Publishers. (3 / 2013 – Till now)
<http://www.benthamscience.com/journal/index.php?journalID=cocat>
- 2) **Editorial Board Member** of "Current Microwave Chemistry" (CMC); ISSN: 2213-3364 (Online) ISSN: 2213-3356 (Print), Bentham Science Publishers. (3 / 2013 - Till now)
<http://benthamscience.com/journal/editorial-board.php?journalID=cmic>

- 3) **Editorial Board Member** of “American Journal of Polymer Science and Technology”; ISSN Print: 2575-5978, ISSN Online: 2575-5986, Science Publishing Group, (12 / 2016 G- Till now)
<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=316>
- 4) **Editorial Board Member** of “SCIREA Journal of Materials”; ISSN:0000-0000, Science Research Association, (4 / 2017 – Till now)
<http://www.scirea.org/journal/EditorialBoard?JournalID=43000>
- 5) International Association of Advanced Materials (IAAM) (7 / 2016 G – 7 / 2021 G)

(D) INVITED PRESENTATIONS AT SCIENTIFIC MEETINGS/WORKSHOPS

- 1) **Title:** Biomedical applications of polymers.
Date: 22 / 12 / 2008 G.
Place: Graduate School of Science and Engineering, Yamagata University, Yonezawa, Japan,
Organizer: Graduate School of Science and Engineering. (*Prof. Hidharu Mori*)
- 2) **Title:** Biomedical applications of electrospun nanofibers.
Date: 25 / 7 / 2011 G.
Place: Strategic Center for Diabetes Research, King Saud University, Riyadh, Saudi Arabia.
Organizer: Strategic Center for Diabetes Research.
- 3) **Title:** Biomedical applications of electrospun nanofibers.
Date: 25 / 7 / 2011 G.
Place: Healthcare Research Center, Chonbuk National University, Jeonju, Republic of Korea.
Organizer: Healthcare Research Center. (*Prof. Hak Yong Kim*)
- 4) **Title:** Biomedical applications of electrospun nanofibers.
Date: 20 / 2 / 2012 G.
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: Workshop on “Electrospinning: An effective technique in nanofibers production”, Petrochemical Research Chair at Department of Chemistry.
- 5) **Title:** Large scale production of nanofibers using nanospider.
Date: 21 / 2 / 2012 G.
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: Workshop on “Electrospinning: An effective technique in nanofibers production”, Petrochemical Research Chair at Department of Chemistry.
- 6) **Title:** Nanospider: description and use.
Date: 21 / 2 / 2012 G.
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: Workshop on “Electrospinning: An effective technique in nanofibers production”, Petrochemical Research Chair at Department of Chemistry.
- 7) **Title:** Electrospinning technique as a new technology for different applications.
Date: 28 / 4 / 2012 G.
Place: King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: Workshop on “Scholarship opportunities in nanotechnology and related field”, Organized by Deanship of Scientific Research, King Saud University.
- 8) **Title:** Classification and nomenclature of polymer.
Date: 12 / 11 / 2012 G.

- Place:** Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
- Organizer:** Training Course on “Fundamentals of polymer science and its industrial applications”, Petrochemical Research Chair at Department of Chemistry.
- 9) **Title:** Drug delivery systems form polymeric drugs to electrospun nanofibers.
Date: 22 / 3 / 2013 G.
Place: College of Chemistry, Chemistry Engineering and Biotechnology, 2999 Renmin Road North, Songjiang, Shanghai 201620, China.
Organizer: College of Chemistry, Chemistry Engineering and Biotechnology. (*Prof. Xiumei Mo*).
- 10) **Title:** Bio-active nanofibers via electrospinning: Project description.
Date: 12 / 5 / 2013 G (2 / 7 / 1434 H).
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: Workshop entitled “Bio-Active nanofibers via electrospinning”, Organized; National Plan for Science and Technology and Petrochemical Research Chair at Department of Chemistry.
- 11) **Title:** Polymeric drug delivery systems.
Date: 22 / 6 / 2013 G.
Place: Department of Organic Materials and Fiber Engineering, Chonbuk National University, Jeonju, Republic of Korea.
Organizer: Department of Organic Materials and Fiber Engineering. (*Prof. Hak Yong Kim*)
- 12) **Title:** Non-precious metallic nanofibers as novel, cheap and effective electrodes for scaling up of fuel cells manufacturing precious metallic nanofibers technology: Results description.
Date: 22 / 12 / 2013 G (19 / 2 / 1435 H).
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: National Plan for Science and Technology and Petrochemical Research Chair at Department of Chemistry.
- 13) **Title:** Microwave-assisted synthesis of some copolymers.
Date: 27 / 3 / 2014 G.
Place: Department of Organic Materials and Fiber Engineering, Chonbuk National University, Jeonju, South Korea.
Organizer: Department of Organic Materials and Fiber Engineering (*Prof. Hak Yong Kim*)
- 14) **Title:** Electrospun nanofibers: From fabrication to applications.
Date: 15 / 5 / 2014 G (16 / 7 / 1435 H).
Place: Department of Botany and Microbiology, College of Science, King Saud University, Riyadh 11451, Saudi Arabia.
Organizer: “National Plan for Science and Technology and Department of Botany and Microbiology. (*Dr. Ahmed Abdel-Fattah*).
- 15) **Title:** Polymers for controlled drug delivery.
Date: 20 / 9 / 2014 G.
Place: Nanomaterials Research Center, Modern Textile Institute, Donghua University, 1882 West Yan'an Road.
Organizer: Nanomaterials Research Center, Modern Textile Institute. (*Prof. Bin Ding*).
- 16) **Title:** Petrochemical research chair; Establishment, research and technology transfer.
Date: 21 / 1 / 2015 G.

Place: Nottingham Nanotechnology & Nanoscience Centre, The University of Nottingham, Nottingham, United Kingdom.

Organizer: Nottingham Nanotechnology & Nanoscience Centre. (*Director, Prof. Andrei Khlobystov*).

- 17) **Title:** Electrospun nanofibers: Fabrication and applications.

Date: 8 / 2 / 2015 G.

Place: Department of Chemistry, College of Science and Arts, King Abdul-Aziz University, Rabgh, Saudi Arabia.

Organizer: NSTIP and Department of Chemistry. (*Dr. Abeer Elsherbiny*).

- 18) **Title:** Microwave-assisted synthesis of some copolymers and their applications.

Date: 24 / 3 / 2015 G.

Place: College of Chemistry, Chemistry Engineering and Biotechnology, 2999 Renmin Road North, Songjiang, Shanghai 201620, China.

Organizer: College of Chemistry, Chemistry Engineering and Biotechnology. (*Prof. Xiumei Mo*)

- 19) **Title:** Biomedical applications of electrospun nanofibers: drug delivery and antimicrobial activity.

Date: 26 / 3 / 2015 G.

Place: Nanomaterials Research Center, Modern Textile Institute, Donghua University, 1882 West Yan'an Road, Shanghai 200051, China.

Organizer: Nanomaterials Research Center, Modern Textile Institute. (*Prof. Bin Ding*)

- 20) **Title:** How to write a scientific paper.

Date: 22 / 10 / 2015 G (9 / 1 / 1437 H).

Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (*for undergraduate students; CHEM 499*)

Organizer: Department of Chemistry.

- 21) **Title:** Electrospinning: History overview.

Date: 27 / 12 / 2015 G (14 / 1 / 1437 H), Arab Chemistry Week 2015, Union of Arab Chemists.

Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia. (*General Lecture*)

Organizer: Department of Chemistry.

- 22) **Title:** Biomedical applications of electrospun nanofibers: drug delivery and antimicrobial activity.

Date: 7 / 2 / 2016 G.

Place: Department of Chemistry, College of Science and Arts, King Abdul-Aziz University, Rabgh, Saudi Arabia. (*General Lecture*)

Organizer: NSTIP and Department of Chemistry (*Dr. Abeer Elsherbiny*).

- 23) **Title:** Plastic waste management.

Date: 25 / 10 / 2016 G (24 / 1 / 1438 H) Arab Chemistry Week 2016.

Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (*for undergraduate students*)

Organizer: Department of Chemistry.

- 24) **Title:** How to write a scientific paper.

Date: 21 / 12 / 2016 G (22 / 3 / 1438 H).

Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (*for undergraduate students; CHEM 499*)

Organizer: Department of Chemistry.

- 25) **Title:** Electrospinning, simple and effective approach in nanotechnology.
Date: 2-3 / 1 / 2017 G (4-5 / 4 / 1438 H).
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (for Higher Institute for Plastics Fabrication, Riyadh). (*for Higher Institute for Plastics Fabrication, Riyadh*)
Organizer: Department of Chemistry.
- 26) **Title:** Electrospinning, simple and effective approach in nanotechnology.
Date: 5/7/2017 G.
Place: Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt. (*General Lecture*)
Organizer: Department of Chemistry.
- 27) **Title:** Biohybrid electrospun nanofibers: encapsulation of cells into electrospun fibers.
Date: 21 / 12 / 2017 G (3 / 4 / 1439 H).
Place: Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia. (*General Lecture*)
Organizer: Saudi Chemical Society.

(E) UNIVERSITY SERVICE

- 1) **Membership of “Committee of Master of Polymer Science”,** Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia”, By decision of Department of Chemistry Council on Tuesday 17 / 6 / 1433 H (8 / 5 / 2012 G).
- 2) **Participation in establishment of Petrochemical Research Chair’s laboratories** (under Supervision of Prof. Salem S. Al-Deyab, ssdeyab@ksu.edu.sa, 0555452169) at Chemistry Department, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (4/2009 – Till now).
- 3) **Membership of “Committee of labs, Instruments and Tools”,** Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia”, By decision of Department of Chemistry Council on Tuesday 5 / 4 / 1438 H - 24/9/1438 H (3 / 1 / 2017 G).
- 4) **Membership of “Committees for Revision of CHEM 145, Introduction to Organic Chemistry - For Health Students Program”,** Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (Coordinator; Dr. Abdullah Alenizi); 21-27 / 6 / 1438 H - Till now (20-26 / 3 / 2017 G - Till now).
- 5) **DSP Academic Coordinators - College of Science for;** “KSU Distinguished and Talented Students Program” College of Science, King Saud University, Riyadh 11451, Saudi Arabia; 18 / 9 / 1438 H – 17 / 9 / 1439 H (13 / 6 / 2017 G – 12 / 6 / 2018 G).
- 6) **Membership of “Committees for Preparing the contents of the new course “CHEM 146, Introduction to Organic Chemistry - For College of Nursing Students”,** Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (Coordinator; Dr. Abdullah Alenizi); 10 / 11 / 1438 H - Till now (2 / 8 / 2017 G - Till now).
- 7) **Coordinator of “CHEM 146, Introduction to Organic Chemistry - For College of Nursing Students”,** Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia; 19 / 12 / 1438 H – 18 / 12 / 1439 H (10 / 9 / 2017 G – 9 / 9 / 2018 G).
- 8) **Consultant; Vice Deanship for Educational and Academic Affairs - College of Science;** College of Science, King Saud University, Riyadh 11451, Saudi Arabia; 12 / 2 / 1439 H – 11 / 2 / 1440 H (1 / 11 / 2017 G – 31 / 10 / 2018 G).

7. INTERNATIONAL COLLABORATION

Dr. El-Newehy coordinates the international collaboration with some international universities via joint projects, publications, and presenting lectures

- 1) Chonbuk National University, Jeonju, Republic of Korea.
- 2) Donghua University, Shanghai, China.
- 3) Korea University, Seoul, South Korea.
- 4) Ewha Womens University, Seoul, China.

Dr. El-Newehy coordinates the international collaboration of Petrochemical Research Chair Department of Chemistry, College of Science, King Saud University, Riyadh 11451, Saudi Arabia (Supervisor; Prof. Salem S. Al-Deyab, ssdeyab@ksu.edu.sa, 0555452169) and he participated in issue of Memorandum of Understanding (MOU) between Petrochemical Research Chair, and

- 1) College of Materials Science and Engineering, Donghua University, Shanghai, China. (Dean; Prof. Meifang Zhu). (27 / 3 / 2015 G)
- 2) Nottingham Nanotechnology & Nanoscience Centre at the University of Nottingham, Nottingham, United Kingdom. (Director, Prof. Andrei Khlobystov). (21 / 1 / 2015 G)
- 3) Center for Intelligent Nano-Bio Materials at Ewha Womans University, Seoul, Republic of South Korea. (Director, Professor Jin-Ho Choy). (3 / 11 / 2014 G)
- 4) Department of Chemistry, Sogang University, Seoul, Republic of Korea. (Professor Dae Yoon Chi). (8 / 9 / 2014 G)
- 5) Council of Scientific and Industrial Research (CSIR-Indian Institute of Petroleum) ‘CSIR-IIP’; Anusandhan Bhawan, 2, Rafi Marg, New Delhi, 110 001, through its constituent institute, the Indian Institute of Petroleum (IIP) located at Mohkampur, Dehradun-248005, India. (Director; Professor M.O. Garg). (13 / 2 / 2014 G)
- 6) College of Polymer Science and Polymer Engineering (CPSPE) ‘CPSPE-UA’; Polymer Engineering Academic Center 422, Akron, OH 44325-0301, through The University of Akron (UA) located at Akron, OH 44325-0301, USA. (Associate Dean of Research; Professor Alamgir Karim). (13 / 2 / 2014 G)
- 7) Biomaterials and Tissue Engineering Research Group, Chemistry, Chemical Engineering & Bioengineering, Institute of Biological Sciences and Biotechnology, Donghua University, Shanghai, China. (Director; Professor Xiumei Mo). (19 / 3 / 2013 G)
- 8) Center for Healthcare Technology Development, Chonbuk National University. (Director; Professor Hak Yong Kim). (17 / 12 / 2010 G).

Dr. El-Newehy invited Professors to present lectures in King Saud University, Riyadh, Saudi Arabia:

1) Prof. Hak Young Kim;

Department of Organic Materials and Fiber Engineering, College of Engineering, Chonbuk national University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-756, South Korea.

➤ 24-30 / 12 / 2010 G (20-26 / 1 / 1432 H)

- 26 / 12 / 2010 G (22 / 1 / 1432 H); “Spider-net structures of electrospun nanofibers”.
- 27 / 12 / 2010 G (23 / 1 / 1432 H); “Inorganic nanofibers and their applications”

➤ 17-23 / 2 / 2012 G (25 / 4 – 1 / 5 / 1433 H).

- 19 / 2 / 2012 G (27 / 4 / 1433 H); "Nanofibers: Photos archive".
- 21 / 2 / 2012 G (29 / 4 / 1433 H); "Large scale electrospun nanofibers production"
- **21-27 / 12 / 2013 G (18-24 / 2 / 1435 H).**
 - 22 / 12 / 2013 G (19 / 2 / 1435 H); "Electrospinning, basics, and applications of the electrospun nanofibers"
- **20-25 / 12 / 2014 G (28 / 2 – 3 / 3 / 1436 H)**
 - 23 / 12 / 2014 G (1 / 3 / 1436 H); "Carbon quantum dots decorated electrospun fibers and their photoluminescence"

2) Prof. Nasser Barakat;

Department of Organic Materials and Fiber Engineering, College of Engineering, Chonbuk national University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-756, South Korea.

- **17-23 / 2 / 2012 G (25 / 4 – 1 / 5 / 1433 H)**
 - 19 / 2 / 2012 G (27 / 4 / 1433 H); "Electrospinning: facile, effective, low-cost and high yield nanofibers making process".
 - 19 / 2 / 2012 G (27 / 4 / 1433 H); "Advanced Techniques".
- **21-27 / 12 / 2013 G (18-24 / 2 / 1435 H)**
 - 22 / 12 / 2013 G (19 / 2 / 1435 H); "Non-precious metallic nanofibers as novel, cheap and effective electrodes for scaling up of fuel cells manufacturing precious metallic nanofibers technology: Results Description".
- **3 / 2 / 2015 G (14 / 4 / 1436 H);** "Microbial fuel cells; magic solution for energy crisis and wastewater treatment"

3) Prof. Xiumei Mo;

Biomaterials and Tissue Engineering Research Group, Chemistry, Chemical Engineering & Bioengineering, Institute of Biological Sciences and Biotechnology, Donghua University, Shanghai, China.

- **17-23 / 2 / 2012 G (25 / 4 – 1 / 5 / 1433 H)**
 - 20 / 2 / 2012 G (28 / 4 / 1433 H); "Electrospun nanofiber for tissue engineering".
- **19-22 / 12 / 2014 G (27 / 2 – 1 / 3 / 1435 H).**
 - 21 / 12 / 2014 G (29 / 2 / 1436 H); "Electrospinning nanofiber and nanoyarn for tissue engineering"

4) Prof. Bin Ding;

Donghua University, Shanghai, China.

- **21-27 / 12 / 2013 G (18-24 / 2 / 1435 H)**
 - 22 / 12 / 2013 G (19 / 2 / 1435 H); "Flexible Electrospun Inorganic Oxide Nanofibers"
- **21 / 12 / 2014 G (29 / 2 / 1436 H);** "Electrospun Nanofibrous Aerogels: Progress in Materials, Properties, and Applications".

5) Prof. Mohamed Ali Abdelkareem;

Department of Chemical Engineering, Faculty of Engineering, Minia University, Minia, Egypt.

- **12 / 2 / 2012 G (20 / 3 / 1433 H);** "Challenges facing commercialization of fuel cells"

➤ **21-27 / 12 / 2013 G (18-24 / 2 / 1435 H).**

- 22 / 12 / 2013 G (19 / 2 / 1435 H); “Non-precious metallic nanofibers as novel, cheap and effective electrodes for scaling up of fuel cells manufacturing technology: project description”.

➤ **3 / 2 / 2015 G (14 / 4 / 1436 H); “The Progress and Challenges in Fuel Cells”**

6) Prof. Dae Yoon Chi;

Department of Chemistry, Sogang University, Seoul, South Korea.

➤ **8 / 9 / 2014 G (13 / 11 / 1435 H); “Development and perspective of radiopharmaceuticals”**

8. REFERENCES

1. Prof. Hak Yong Kim

Department of Organic Materials and Fiber Engineering, College of Engineering, Chonbuk national University, 664-14, 1-Ga Dukjin-Dong, Duckjin-Gu, Jeonju, 561-756, South Korea.

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2. Prof. Hideharu Mori

Department of Polymer Science and Engineering, Graduate School of Science and Engineering, Yamagata University, 4-3-16, Jonan, Yonezawa, 992-8510, Japan.

Tel. (work) : +81 238 26 3765

E-mail : h.mori@yz.yamagata-u.ac.jp

3. Prof. Bin Ding

Vice Dean, College of Textiles, Donghua University, Shanghai 201620, China

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List of Publications
Dr. Mohamed El-Newehy

Associate Professor of Organic Chemistry (Polymers) and Nanotechnology

(1) BOOKS/BOOK CHAPTERS

(a) Books

1. **M. El-Newehy**, F. Abdel-Hay and E-R. Kenawy. "Design and studies of some new controlled-release formulations", June 2012, LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany, ISBN: 978-3-659-14499-8.
2. A. Al-Amri, **M. El-Newehy** and S. Al-Deyab. "Synthesis of amine-terminated polymers carrying antimicrobial agents", November 2013, LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany, ISBN: 978-3-659-49000-2.

(b) Book Chapters

1. E-R. Kenawy, F.I. Abdel-Hay, **M.H. El-Newehy** and G.E. Wnek. "Processing of polymer nanofibers through electrospinning as drug delivery systems. in "Nanomaterials: Risks and Benefits", Proceedings of the NATO Advanced Research Workshop on Nanomaterials: Environmental Risks and Benefits, Faro, Portugal, 27-30 April 200, Series: NATO Science for Peace and Security Series C: Environmental Security, Igor Linkov and Jeffery Steevens Editors, pp. 247-263, 2009, SPRINGER, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS, ISSN: 1871-4668; ISBN: 978-1-4020-9490-3.
2. **M. El-Newehy**, A. Barghini, S. Cometa, S. Miertus and E. Chiellini. "Polymeric materials from renewable resources. Blends of poly(3-hydroxybutyrate) and cellulose acetate derived from rice straw & bagasse". Paolo Fornasiero and Mauro Graziani, Editors, 8 December 2011, Francis & Taylor book entitled "Renewable Resources and Renewable Energy: A Global Challenge, Second Edition". "Plastics and materials from renewable resources" ISBN: 9781439840184; ISBN 10: 1439840180.
3. R.-C. Luo, Y.-L. Wu and **M.H. El-Newehy**. "The industrial production of PHA". Lin-Ping Wu, Editors, 30 September 2014, NOVA SCIENCE PUBLISHERS, INC., 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788-3619, USA book entitled "Polyhydroxy alkanooates (PHA): biosynthesis, industrial production and applications in medicine" ISBN: 978-1-63321-659-4; ISBN-13: 978-1633216228; ISBN-10: 1633216225.
4. R.-C. Luo, Y.-L. Wu and **M.H. El-Newehy**. "Extraction and purification of polyhydroxy alkanooates". Lin-Ping Wu, Editors, 30 September 2014, NOVA SCIENCE PUBLISHERS, INC., 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788-3619, USA book entitled "Polyhydroxy alkanooates (PHA): biosynthesis, industrial production and applications in medicine" ISBN: 978-1-63321-659-4; ISBN-13: 978-1633216228; ISBN-10: 1633216225.

(2) INTERNATIONAL REFEREED JOURNALS (PUBLISHED)

1. E-R. Kenawy, F.I. Abdel-Hay, A-R.R. El-Shanshoury and **M.H. El-Newehy**. "Biologically active polymers: synthesis and antimicrobial activity of modified glycidyl methacrylate polymers having quaternary ammonium and phosphonium groups", *Journal of Controlled Release*, **50(1-3)**, 145-152, 2 January 1998.
2. Y. A-G. Mahmoud, E-R. Kenawy and **M.H. El-Newehy**. "Antifungal activity of some new polymers and derivatization of a mathematical equation on the fungal growth inhibition", *Arab Journal of Biotechnology*, **4(1)**, 15-22, 2001.

3. E-R. Kenawy, F.I. Abdel-Hay, A-R.R. El-Shanshoury and **M.H. El-Newehy**. "Biologically active polymers V: synthesis and antimicrobial activity of modified poly(glycidyl methacrylate-co-2-hydroxyethyl methacrylate) derivatives with quaternary ammonium and phosphonium groups", *Journal of Polymer Science Part A: Polymer Chemistry*, **40(14)**, 2384-2393, 15 July 2002.
4. E-R. Kenawy, F.I. Abdel-Hay, L. Shahada, A-R.R. El-Shanshoury and **M.H. El-Newehy**. "Biologically active polymers IV: synthesis and antimicrobial activity of tartaric acid polyamides", *Journal of Applied Polymer Science*, **102(5)**, 4780-4790, 5 December 2006.
5. E-R. Kenawy, **M.H. El-Newehy**, F.I. Abdel-Hay and R.M. Ottenbrite. "New degradable hydroxamate linkages for controlled drug delivery", *Biomacromolecules*, **8(1)**, 196-201, 2007.
6. E-R. Kenawy, F.I. Abdel-Hay, **M.H. El-Newehy** and G.E. Wnek. "Controlled release of ketoprofen from electrospun poly(vinyl alcohol) nanofibers", *Materials Science and Engineering: A*, **459(1-2)**, 390-396, 25 June 2007.
7. E-R. Kenawy, **M.H. El-Newehy**, F.I. Abdel-Hay and R.M. Ottenbrite. "Effect of temperature and pH on the drug release rate from a polymer conjugate system", *Polymer International*, **57(1)**, 85-91, January 2008.
8. E-R. Kenawy, F.I. Abdel-Hay, **M.H. El-Newehy** and G.E. Wnek. "Processing of polymer nanofibers through electrospinning as drug delivery systems", *Materials Chemistry and Physics*, **113(1)**, 296-302, 15 January 2009.
9. S.S. Al-Deyab and **M.H. El-Newehy**. "Synthesis and characterization of novel organotin-phosphorous compounds II", *Molecules*, **15(3)**, 1425-1432, 8 March 2010.
10. S.S. Al-Deyab, A.M. Al-Hazmi and **M.H. El-Newehy**. "Synthesis and characterization of organotin containing copolymers: reactivity ratio studies", *Molecules*, **15(3)**, 1784-1797, 12 March 2010.
11. E-R. Kenawy, S.S. Al-Deyab and **M. El-Newehy**. "Controlled release of 5-aminosalicylic acid (5-ASA) from new biodegradable polyurethanes", *Molecules*, **15(4)**, 2257-2268, 30 March 2010.
12. E-R. Kenawy, **M.H. El-Newehy** and S.S. Al-Deyab. "Controlled release of atenolol from freeze/thawed poly(vinyl alcohol) hydrogel", *Journal of Saudi Chemical Society*, **14(2)**, 237-240, April 2010.
13. **M.H. El-Newehy**, S.S. Al-Deyab and A.M. Al-Hazmi. "Reactivity ratio for organotin copolymer systems", *Molecules*, **15(4)**, 2749-2758, 15 April 2010.
14. S.S. Al-Deyab, **M.H. El-Newehy** and A.M. Al-Hazmi. "Synthesis, characterization and reactivity ratio study of poly(di(tri-n-butyltin) citraconate-co-N-vinylimidazole)", *Molecules*, **15(7)**, 4750-4756, 7 July 2010.
15. E.S. Abdel-Halim, W. Konczewicz, M. Zimniewska, S.S. Al-Deyab and **M.H. El-Newehy**. "Enhancing hydrophilicity of bioscoured flax fabric by emulsification post treatment", *Carbohydrate Polymers*, **82(1)**, 195-201, 2 August 2010.
16. E.S. Abdel-Halim, F.A. Abdel-Mohdy, S.S. Al-Deyab and **M.H. El-Newehy**. "Chitosan and monochlorotriazinyl-beta-cyclodextrin finishes improve antistatic properties of cotton/polyester blend and polyester fabrics", *Carbohydrate Polymers*, **82(1)**, 202-208, 2 August 2010.
17. B. Dong, Z. Li, Z. Li, X. Xu, M. Song, W. Zheng, C. Wang, S.S. Al-Deyab and **M. El-Newehy**. "Highly efficient LaCoO₃ nanofibers catalysts for photocatalytic degradation of Rhodamine B", *Journal of the American Ceramic Society*, **93(11)**, 3587-3590, November 2010.

18. **M. El-Newehy**, S. Al-Deyab, E-R. Kenawy and A. Abdel-Megeed. "Nanospider technology for the production of nylon-6 nanofibers for biomedical applications", *Journal of Nanomaterials*, **2011**, Article ID 626589, 8 pages, 15 February 2011.
19. R. Nirmala, R. Navamathavan, **M.H. El-Newehy** and H.Y. Kim. "Preparation and electrical characterization of polyamide-6/chitosan composite nanofibers *via* electrospinning", *Materials Letters*, **65(3)**, 493-496, 15 February 2011.
20. R. Nirmala, R. Navamathavan, H-S. Kang, **M.H. El-Newehy** and H.Y. Kim. "Preparation of polyamide-6/chitosan composite nanofibers by a single solvent system *via* electrospinning for biomedical applications", *Colloids and Surfaces B: Biointerfaces*, **83(1)**, 173–178, 1 March 2011.
21. R. Nirmala, H-M. Park, R. Navamathavan, H-S. Kang, **M.H. El-Newehy** and H.Y. Kim. "Lecithin blended polyamide-6 high aspect ratio nanofibers scaffolds *via* electrospinning for human osteoblast cell culture", *Materials Science and Engineering C*, **31(2)**, 486–493, 12 March 2011.
22. R. Nirmala, B.W. Il, R. Navamathavan, **M.H. El-Newehy** and H.Y. Kim. "Preparation and characterizations of anisotropic chitosan nanofibers *via* electrospinning", *Macromolecular Research*, **19(4)**, 345-350, April 2011.
23. H. Mao, Y. Li, X. Liu, W. Zhang, C. Wang, S.S. Al-Deyab and **M. El-Newehy**. "The application of novel spindle-like polypyrrole hollow nanocapsules containing Pt nanoparticles in electrocatalysis oxidation of nicotinamide adenine dinucleotide (NADH)", *Journal of Colloid and Interface Science*, **356(2)**, 757-762, 15 April 2011.
24. R. Nirmala, H-S.Kang, **M.H. El-Newehy**, R. Navamathavan, H-M.Park and H.Y. Kim. "Human osteoblast cytotoxicity study of electrospun polyurethane/calcium chloride ultrafine nanofibers", *Journal of Nanoscience and Nanotechnology*, **11(6)**, 4749-4756, June 2011.
25. R. Nirmala, R. Navamathavan, **M. El-Newehy** and H.Y. Kim. "Preparation and characterization of electrospun ultrafine polyamide-6 nanofibers", *Polymer International*, **60(10)**, 1475–1480, October 2011.
26. H. El-Hamshary, **M. El-Newehy** and S. Al-theayab. "Oxidation of phenol by hydrogen peroxide catalyzed by metal-containing poly(amidoxime) grafted starch", *Molecules*, **16(12)**, 9900-9911, 29 November 2011.
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