Curriculum Vitae

Personal

- Name: Mohammad M. Fares
- Rank: Full-Professor
- Marital status: Married
- Tel: +962-2-7201000/ ext. 23583
- +962-776345094 (Jordan)
- +1(617) 371-7265 (USA)
- Permanent address: Department of Chemistry, Jordan University of Science & Technology, P.O. box: 3030, Irbid city, JORDAN
- Address in USA: Biomaterial Innovation Research Center, Harvard Medical School, Harvard University, Cambridge, Massachusetts, USA

- Email: fares@just.edu.jo
- Homepage: http://www.just.edu.jo/~fares/

Education & Academic qualifications

2016-2017: Visiting Full-Professor, Biomaterials Innovation Research Center, Division of Biomedical Engineering, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, **Harvard University**, Cambridge, Massachusetts 02139, USA

2016-2017: Visiting Full-Professor, Harvard-MIT Division of Health Sciences and Technology, **Massachusetts Institute of Technology** (MIT), Cambridge, 02139, Massachusetts, USA

2016-2017: Visiting Full-Professor, **Northeastern University**, Department of Chemical Engineering Huntington Avenue, Boston, Massachusetts, USA

2014–now: Full-Professor, Jordan University of Science & Technology, Dept of Chemistry, P.O. box; 3030, Irbid, JORDAN

2009–2013: Associate Professor Jordan University of Science & Technology, Dept of Chemistry, P.O. box: 3030, Irbid, JORDAN

2000–2008: Assistant Professor, Jordan University of Science & Technology, Department of Chemistry, P.O. box; 3030, Irbid, JORDAN

1999–2000: Full-time lecturer, Jordan University of Science & Technology. Department of Chemistry, P.O. box; 3030, Irbid, JORDAN

1994–1998: PhD, Middle East Technical University, Department of Chemistry, Ankara, TURKEY
Major: Physical Chemistry & Polymer Engineering
GPA: 3.55/4.0, Excellent

1992–1993: MSc, Middle East Technical University, Department t of Chemistry, Ankara, TURKEY
Major: Physical Chemistry & Polymer Chemistry
GPA: 3.25/4.0, Excellent

1988–1991: BSc, Middle East Technical University, Department of Chemistry, Ankara, TURKEY
Major: Chemistry
GPA: 2.86/4.0, Very good

MSc thesis title

Direct Pyrolysis of Some Polymers Using Mass Spectrometry

PhD thesis title

Hardness of Weakly and Late Crosslinked Polystyrene and Its Relation to Chain Statistics.

Research Interests

My Research is divided to 5 categories

a. Engineering biomedical hydrogels for wound healing.
b. Invention of smart nanomaterials for brain drug delivery.
c. Cyber prosthesis coating; how to terminate squeaking in human implementable organs.
d. Water treatment.
e. Anti-wrinkle materials

Courses Taught at JUST

BSc level:

1. Physical chemistry I (Thermodynamics)
2. Physical chemistry II (Kinetics & Electrochemistry)
3. Physical chemistry III (Quantum chemistry and Surface Chemistry)
4. Polymer chemistry
5. Electrochemistry
6. Special Topics A (3 credit hours)
7. Special Topics B (2 credit hours)
8. Special Topics C (1 credit hour)
9. General chemistry I
10. General chemistry II

General chemistry III

MSc Level:

11. **Quantum Chemistry** (Chem. 741 For MSc and PhD levels)
12. Advanced physical chemistry
13. Advanced polymer chemistry

Scholarly Publications

1. **M. M. Fares**, Samah K. Radaydeh, 3D Printing Inks of rGO/Fe_3O_4@Polyacrylonitrile as Organic Semiconductors
   Synthetic Metals, 2023

2. **M. M. Fares**, Samah K. Radaydeh, Hadeel M. AlAmeen, Green tannins /Avocado oil composites; suncare and skincare materials,
   Arabian Journal of Chemistry, 16(6), **2023**, 104764
   https://www.sciencedirect.com/science/article/pii/S1878535223002265

3. M. A. Almomani, **M. M. Fares**, E. M. Almesidieen; Toward long-live ceramic on ceramic hip joints: *In vitro* investigation of squeaking of coated hip joint with layer-by-layer reinforced PVA coatings**.** *e-Polymers***, *2022***, 22(1), 522-535
   https://doi.org/10.1515/epoly-2022-0048

4. **M. M. Fares,** Samah K. Radaydeh, Multifunctional sustainable quercetin polyphenol/functionalized carbon nanotubes; semi-transparent conductive films and 3D printing inks, *Polymer Composites*, **2022,** 43(4), 2318-2328

5. **M. M. Fares,** Samah K. Radaydeh, Bolaamphiphilic Microstructural Polyphenol Flavonoids as Sustainable High Efficacy Coating for Aluminum Surface in Aqueous Solution, Canadian *Journal of Chemical Engineering*, **2022,** 101(3), 1387-1397,
   doi/abs/10.1002/cjce.24524

.6

7. **M. M. Fares,** Asma Bani-Domi, Sustainable betalain pigments as eco-friendly film coating over aluminium surface.
   Journal of Materials Science, **2021**, 56**,** 13556–13567

8. F. A. Abu Al-Rub, **M. M. Fares**, Ahmad R. Mohammad, Use of Nanohybrid Nanomaterials in Water Treatment; Highly Efficient Removal of Ranitidine.
   RSC Advances, **2020**, 10, 37050-37063

9. **M. M. Fares**, F. A. Abu Al-Rub, Ahmad R. Mohammad, Ultimate Eradication of the Ciprofloxacin Antibiotic from the Ecosystem by Nanohybrid GO/O-CNTs
   ACS Omega, **2020**, 5, 4457-4468

10. **M. M. Fares**, F. A. Abu Al-Rub, Tareq Talafha, Diblock Sodium Alginate Grafted Poly (N-vinylimidazole) in Blank Copolymeric Beads and Immobilized Algal Beads for Water Treatment.
    Chemical Engineering Research & Design, **2020**, 153, 603-612

11. **M. M. Fares**, E. S. Sani, R. Portillo-Lara, R. B. Oliveira, A. Khademhosseini, N. Annabi, Interpenetrating Network Gelatin Methacryloyl (GelMA) and Pectin-g-PCL Hydrogels with Tunable Properties for Tissue Engineering
    Biomaterials Science, **2018**, *6*, 2938-2950

12. **M. M. Fares**, K. H. Massadeh, Natural Dye Cyanidin based-Polyacrylonitrile Conjugate as Environmentally-friendly Thin Film Sensor
Advances in Polymer Technology, **2018**, 37(4), 977-984

13. **M. M. Fares,** □-Plasmon Absorbance Films of Carboxylic Functionalized CNTs Coupled with Renewable PGP Platforms
Polymers for Advanced Technologies, **2018**, 29, 1861-1869

14. F. A. Abu Al-Rub, **M. M. Fares,** Tareq Talafha, Poly (Acrylic acid) Grafted Sodium Alginate Di-Block Hydrogels as Efficient Biosorbents; Structure-Property Relevance
Journal of Polymers and the Environment **2018**, 26, 2333-2345

15. N. Annabi , D. Rana, E. S Sani, R. Portillo-Lara, J. L. Gifford, **M. M. Fares**, S. M. Mithieux, A. S. Weiss, Engineering a Sprayable and Elastic Hydrogel Adhesive with Antimicrobial Properties for Wound Healing
Biomaterials, **2017,** 139, 229-243

16. F. A. Abu Al-Rub, **M. M. Fares**, M. Kandah, **Chapter 37**: Toxicity of Copper and Remediation Approaches, *Handbook of Metal-Microbe Interactions and Bioremediation.*
Taylor and Francis/CRC Press, 1, *Chapter 37, pp 603–608,* **2017**

17. H. Allaboun, **M. M. Fares**, F. A. Abu Al-Rub, Removal of Uranium and Associated Contaminants from Aqueous Solutions Using Functional Carbon Nanotubes-Sodium Alginate Conjugates.
Minerals, **2016**, 6, 9; doi:10.3390/min6010009

18. **M. M. Fares**, F. A. Abu Al-Rub, K. H. Massadeh, Lightweight MWCNTs-g-PAN Carbon Fibers. Sensitive high Absorptivity and Novel Wide-Bandgap Conjugated Polymers.
Industrial and Engineering Chemistry Research, **2015**, 54, 9064−9071

19. **M. M. Fares**, K. H. Massadeh, Glutamine-Reinforced Silica Gel Microassembly as Protective Coating for Aluminum Surface.
Materials Chemistry & Physics **2015,** *162*, 124–130

20. **M. M. Fares,** M. S. Salem, Dissolution Enhancement of Curcumin via Curcumin-Prebiotic Inulin Nanoparticles.
Drug Development & Industrial Pharmacy **2015**, 41(11), 1785–1792

21. **M. M. Fares,** M. S. Salem, Dissolution Enhancement of Curcumin via Curcumin-Prebiotic Inulin Nanoparticles
https://connects.catalyst.harvard.edu/Profiles/display/68426002

22. R. Banat, **M. M. Fares**, Thermo-Gravimetric Stability of High Density Polyethylene Composite Filled with Olive Shell Flour, *American Journal of Polymer Science* **2015**, 5 (3), 65-74

23. R Banat, MM Fares Olive Oil Waste Filled High Density Polyethylene Bio-Composite: Mechanical, Morphological and Water Absorption Properties, *International Journal of Composite Materials* **2015**, 5 (5), 133-141

24. **M. M. Fares,** A. K. Maayta, Jamil A. Al-Mustafa, Synergistic Corrosion Inhibition of Aluminum by Poly(ethylene glycol) and Ciprofloxacin in acidic Media
Journal of Adhesion Science & Technology **2013**, *27 (23)*, 2495–2506

25. M. Khanfar, **M. M. Fares,** M. Sheikh Salem, A. Qandil, Mesoporous Silica based Macromolecule for Dissolution Enhancement of Irbesartan Drug Using Pre-adjusted pH method
Microporous and Mesoporous Materials **2013**, *123*, 22–28

26. **M. M. Fares,** A. K. Maayta, M. M. Al-Qudah, Polysorbate-20 Adsorption Layers Below and Above Critical Micelle Concentration; Cloud Point and Inhibitory Role Investigations at the Solid/Liquid Interfaces
Surface and Interface Analysis **2013,** *45*, 906–912

27. **M. M. Fares,** F. A. Abu Al-Rub**,** M. Kandah, H. Allaboun, Environmentally-friendly Copolymeric Beads of *Chlorella Vulgaris* and Poly (methacrylamide) Grafted Aliginic Acid Di-block Copolymers for Biosorption of Zinc Ions
Polymer International **2013**, *62*, 1179–1186

28. **M. M. Fares,** A. K. Maayta, Jamil A. Al-Mustafa, Corrosion Inhibition of *Iota-Carrageenan* Natural Polymer on Aluminum in Presence of Zwitterion Mediator in HCl Media
Corrosion Science **2012,** *65*, 223–230

29. **M. M. Fares,** A. K. Maayta, M. M. Al-Qudah, Pectin as Promising Green Inhibitor of Aluminum in Hydrochloric acid solution.
Corrosion Science **2012,** *60*, 112–117

30. **M. M. Fares,** A. Al-Shbool, Stimuli pH-responsive (N-vinylimidazole-*co*-acryloylmorpholine) Hydrogels; Meso- and Nano-porous Scaffolds.
Journal of Biomedical Materials Research, Part A. **2012**, *100A (4)*, 863–871

31. Y. R. Tahboub, **M. M. Fares**, A predictive Kinetic Model for Inhibitory effect of Nitrite on Myeloperoxidase Catalytic Activity towards Oxidation of Chloride.
Journal of Biophysical Chemistry **2011**, *3*, 202–207

32. **M. M. Fares,** M. Sheik Salem, M. Khanfar, Inulin and Poly(acrylic acid) Grafted Inulin for Dissolution Enhancement and Preliminary Controlled Release of Poorly Water-Soluble Irbesartan Drug
International Journal of Pharmaceutics **2011**, *410*, 206–211

33. **M. M. Fares**, Y. R. Tahboub, S. T. Khatatbeh, Y. M. Abul-Haija, Eco-Friendly, Vascular Shape and Interpenetrating Poly (Acrylic Acid) Grafted Pectin Hydrogels; Biosorption and Desorption Investigations.
Journal of Polymers and the Environment **2011**, *19*, 431–439

34. **M. M. Fares,** S. M. Assaf, Anees A. Jaber, Biodegradable Amphiphiles of Grafted Poly (lactide) onto 2-Hydroxyethyl Methacrylate-*co*-N-Vinylpyrrolidone Copolymers as Drug Carriers.
Journal of Applied Polymer Science **2011**, *122 (2)*, 840–848

35. S. M. Assaf, Y. Abul-Haija, **M. M. Fares,** Versatile Pectin Grafted Poly (N-isopropylacrylamide); Modulated Targeted Drug Release.
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry **2011**, *48(6)*, 493–502

36. **M. M. Fares,** Correlation of Diffusional Exponent with Structural Sequence of (N-vinyl pyrrolidone-alt-Acrylic Acid) Hydrogels; A Predictive Hydrogel Design approach.
Journal of Macromolecular Science, Part B: *Physics* **2011**, *50(8)*, 1471–1480

37. I. M. Arafa, **M. M. Fares**, A. Obaidat, H. Ghanem, Two-dimensional Texture of Intrinsic Conductive Poly(Styrene-co-Maleanilic acid) Grafted with Polyaniline: Formation and Conductivity.
International Journal of Polymeric Materials **2011**, *60*, 620–640

38. A. K. Maayta**, M. M. Fares,** A. F. Al-Shawabkeh, Infuence of LAS on Corrosion of Iron in Presence of Magnetic Field: Kinetic and Thermodynamic Paramteres. *International Journal of Corrosion*, Vol. 2010, Article ID 156194, 9 pages, doi:10.1155/2010/156194, **2010**

39. M. M. Fares, S. M. Assaf, Y. Abul-Haija, Pectin Grafted Poly (vinylpyrrolidone); Optimization and *In vitro* Controllable Theophylline Drug Release.
Journal of Applied Polymer Science **2010**, *117(4)*, 1945**–**1954

40. M. M. Fares, A. S. El-Faqeeh, H. Ghanem, M. E. Osman, E. A. Hassan, Hydrogels of Starch-g-(tert-butylacrylate) and Starch-g-(n-butylacrylate) copolymers: Synthesis and Formation.
Journal of Thermal Analysis & Calorimetry **2010**, *99(2)*, 659–666

41. M. M. Fares, A. A. Othman, Smart pH-sensitive Alternating Copolymers of (methylacrylamide-hydroxyethylmethacrylate); Kinetic and Physical Properties.
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry **2009**, *47(1)*, 61–70

42. M. M. Fares, I. M. Arafa, Crystalline Amphiphilic (Maleanilic acid-ran-styrene) Copolymers: Structural and Kinetic Properties.
International Journal of Polymer Analysis and Characterization **2009**, *14(1)*, 34–51

43. M. M. Fares, A. A. Othman, Lower Critical Solution Temperature Determination of Smart, Thermosensitive N-isopropylacrylamide-alt-2-hydroxyethyl methacrylate copolymers: Kinetics and Physical Properties.
Journal of Applied Polymer Science **2008**, *110(5)*, 2815–2825

44. Gündüz G., Dernaika M., Dikencik G., **M. M. Fares**., Aras L., Graph Theoretical Approach to the Mechanical Strength of Polymers.
Molecular Simulation **2008**, *34(5)*, 541–558

45. M. M. Fares, Revisited Kinetic Chain Length and Reactivity Ratios Approaches for Linear Polymers and Copolymers.
Open Macromolecules Journal **2008**, *2*, 1–5

46. M. M. Fares, A. S. El-Faqeeh, Thermal and Thermoxidative degradations of Starch and Thermosensitive Starch-g-BAM Copolymers.
Journal of Thermal Analysis & Calorimetry **2005**, *82(1)*, 161–166

47. I. M. Arafa, **M. M. Fares**, A. S. Barham, Sol-gel Preparation and Properties of Interpenetrating, Encapsulating and Blend silica-based urea-formaldehyde Hybrid Composite Materials.
European Polymer Journal **2004**, *40(7)*, 1477–1487

48. M. M. Fares, M. El-Khateeb, K. J. Asali, Synthesis, Characterization, and Some Properties of 4-vinylpyridine-$Cr(CO)_5$ Containing Polymers.
Journal of Inorganic and Organometallic Polymers and Materials **2003**, *13(3)*, 143–155

49. **M. M. Fares**, A. S. El-faqeeh, M. E. Osman, Graft Copolymerization onto Starch-I; Synthesis and Optimization of Starch Grafted with N-tert-butylacrylamide Copolymer and its Hydrogels.
Journal of Polymer Research **2003**, *10(2)*, 119–125

50. **M. M. Fares**, B. Al-Ta'ani, Graft Copolymerization onto Chitosan-I. Grafting of ethyl-methacrylate using Ceric Ammonium Nitrate as an Initiator.
Acta Chimica Slovenica **2003**, *50(2)*, 275–285

51. **M. M. Fares**, Graft Copolymerization onto Chitosan-II. Grafting of acrylic acid and Hydrogel formation.
Journal of Polymer Materials **2003**, *20(1)*, 75–82

52. **M. M. Fares**, On the kinetics and mechanism of the copolymerization of acrylonitrile with styrene in the presence of copper chloride.
Chinese Journal of Polymer Science **2003**, 21(1), 57–64

53. G. Gündüz, G. Dikencik, **M. M. Fares**, L. Aras**,** Scaling relations in weak and late cross-linked polymers .
Journal of Physics-Condensed Matter **2002**, *14(9)*, 2309–2322

54. J. Hacaloglu, **M. M. Fares**, S. Suzer, Pyrolysis Mass Spectrometric Analysis of Styrene Isoprene Styrene Copolymer.
European Polymer Journal **1999**, *35(5)*, 939–944
55. J. Hacaloglu, T. Ersen, N. Ertugrul, **M. M. Fares**, S. Suzer, Pyrolysis mass spectrometric analysis of styrene-butadiene block and random copolymers.
European Polymer Journal **1997**, *33(2)*, 199–203

56. **M. M. Fares**, T. Yalcin, J. Hacaloglu, A. Gungor, S. Suzer, Analysis of polymers using evolved-gas and direct-pyrolysis techniques.
The Analyst **1994**, *119(4)*, 693–696

57. **M.M. Fares**, J. Hacaloglu, S. Suzer, Characterization of degradation products of polyethylene oxide by pyrolysis mass spectrometry.
European Polymer Journal **1994**, *30(7)*, 845–850

Dissertations & Theses

58. Student name: Zaid Al-Jabany, Degree: MSc, year: **2022** (Supervisor), University: **JUST**
59. Student name: Safa'a Rahhal, Degree: MSc, year: **2020** (Co-supervisor), University: **JUST**
60. Student name: Ahmad Rafeeq, Degree: MSc, year: **2019** (Co-supervisor), University: **JUST**
61. Student name: Lubna Albanna, Degree: MSc, year: **2018** (Co-supervisor), University: **JUST**
62. Student name: Ban Tayyem: Dr. Bassam Sweileh, Degree: PhD, year: **2017**, University: **University of Jordan**
63. Student name: Khansa'a Masadeh, Degree: MSc, year: **2017** (supervisor), University: **JUST**
64. Student name: Deema Zgool, Degree: MSc, year: **2016** (Co-supervisor), University: **JUST**
65. Student name: Elham Mohammad, Degree: MSc, year: **2015** (Co-supervisor), University: **JUST**
66. Student name: Sawsan Al-Fayoumi, Degree: MSc, year: **2013** (Supervisor), University: **JUST**
67. Student name: Tariq Talafha, Degree: MSc, year: **2013** (Co-supervisor), University: **JUST**
68. Student name: Anees Jaber, Degree: MSc, year: **2010** (Supervisor), University: **JUST**
69. Student name: Yousef Abul-Heija, Degree: MSc, year: **2009** (Supervisor), University: **JUST**
70. Student name: Ahmad Al-Shbool Degree: MSc, year: **2009** (Supervisor), University: **JUST**

71. Student name: Ali A. Othman, Degree: MSc, year: **2008** (Supervisor), University: **JUST**
72. Student name: Adeeb El-Faqeeh: Degree: **PhD**, year: **2005** (Co-supervisor), University: **JUST**
73. Student name: Ahmad S. Barham, Degree: MSc, year: **2002** (Co-supervisor), University: **JUST**
74. Student name: J. Bandak, Supervisor: Dr. Isam Arafa, Degree: MSc, year: **2011**, University: **JUST**
75. Student name: Osama al-Kassab, Supervisor: Dr. Isam Arafa, Degree: MSc, year: **2010**, University: **JUST**
76. Student name: Dalia Ali, Supervisor: Dr. Bassam Sweileh, Degree: MSc, year: **2010**, University: **University of Jordan**
77. Student name: Fatin Al-Odwan, Supervisor: Dr. Bassam Sweileh, Degree: MSc, year: **2009**, University: **University of Jordan**
78. Student name: Dalia Al-Ali, Supervisor: Dr. Bassam Sweileh, Degree: MSc, year: **2008**, University: **University of Jordan**
79. Student name: Husam Qalawi Supervisor: Dr. Bassam Sweileh, Degree: PhD, year: **2006**, University: **University of Jordan**
80. Student name: Ayat Allah Al-Massaaedh, Supervisor: Dr. Rateb Hina, Degree: MSc, year: **2004**, University: **JUST**
81. Student name: Othman Al-Hamouz, Supervisor: Dr. Bassam Sweileh, Degree: MSc, year: **2004**, University: **University of Jordan**
82. Student name: Nadhir Abdullah, Supervisor: Dr. Mousa Al-Smadi Degree: MSc, year: **2002**, University: **JUST**
83. Student name: Muneer Al-Atrash, Supervisor: Dr. Isam Arafa, Degree: MSc, year: **2000**, University: **JUST**
84. Student name: Abdelrazaq Odeh Issa, Supervisor: Prof. Ragheb Atmeh, Degree: MSc, year: **2000**, University: **JUST**

Patents registered or under Consideration

85. ANTICORROSION FILM COMPOSITION, AN ANTICORROSION FILM AND A METHOD OF FORMING THE SAME. **filling serial number:** 5/210,621**, 2016**.
86. Biocompatible Inulin-Curcumin Nanoparticles; Dual Function of Curcumin Dissolution Enhancement and Prebiotic Inulin for Cancer Therapeutics. Under processing

Recent External Funds (2012 and above)

1. Utility of Olive Oil Wastes to form Fiber Reinforced Composite Materials via Recyclable Plastics and Natural Fibers
   Sponsor: Ministry of Higher Education & Scientific Research, JORDAN, **Budget:** 120,000 US $

2. Production of Biofuels from Agricultural Wastes.
   Sponsor: Ministry of Higher Education & Scientific Research, JORDAN, **Budget:** 205,000 US $

University and Society Service

1. Review Editor of ***Frontiers of Chemical Engineering Journal***
2. Rapporteur and Member of many university committees;
   a) Academic Accreditation Committee
   a) Curriculum Plans Committee.
   b) Scientific Research Committee.
   c) Academic Advising Committee.
   d) Library and Internet Committee.
   e) Social Committee and Seminars.

f) Laboratory and Public Safety Committee.

3. Mentor and Rapporteur for different years for the student elections Committees.
4. Member of academic promotion committee inside Jordan and for many regional countries for assistant, associate, and full-professor ranks.
5. Supervisor and co-supervisor for many graduate students in different departments (Chemistry, Pharmacy, Chemical engineering, Industrial engineering).
6. External member in academic juries for master and doctoral students in different Jordanian universities.
7. Applied to be a member of the Arab Thought Forum in Amman, Jordan.

Academic Memberships

1. American Chemical Society (ACS), Polymer division.
2. DAAD-Jordan Selection Panels
3. Jordan Chemical Society

Honors and Awards

1. Visiting professor at Biomaterials Innovation Research Center, Division of Biomedical Engineering, Harvard Medical School, **Harvard University**, Massachusetts, **USA**.
2. Visiting professor at Harvard-MIT Division of Health Sciences and Technology (HST), **Massachusetts Institute of Technology** (MIT), Cambridge, Massachusetts, **USA**.
3. Visiting Professor at **Northeastern University**, Dept of Chemical Engineering, Boston, Massachusetts, **USA**.
4. Editorial Board member of "Open Macromolecules J.", Netherlands, **2007**, Bentham Publishers.
5. Member of selection DAAD-Jordan panels (The German Academic Exchange Service-Amman), **2015**
6. Member of Promotion committees for many applications for associate and full professor promotion ranks inside and outside Jordan
7. Review Editor of "**Frontiers of Chemical Engineering**" journal, Switzerland, **2020**.
8. Academic international reviewer for many high-caliber international peer-reviewed journals;
   - **a)** Materials Today Communications, Elsevier, **2020**
   - **b)** European Physical Journal Plus, **2019**
   - **c)** Corrosion Science, Elsevier, (IF= 5.33) , **2017**
   - **d)** International Journal of Biological Macromolecules, Elsevier, (IF= 3.67), **2016**
   - **e)** ACS Petroleum Research Fund**, 2015**
   - **f)** Journal of Fluorescence, Springer, (IF= 1.46), **2014**
   - **g)** Research on Chemical Intermediates, Springer, (IF= 1.37), **2014**
   - **h)** Journal of Membrane Science, Elsevier, (IF= 5.98), **2013**
   - **i)** *ACS* Applied Materials & Interfaces, ACS**,** (IF= 7.50), **2012**
   - **j)** Fibers and Polymers Journal, Springer, (IF= 1.11), **2012**
   - **k)** Journal of Thermal Analysis & Calorimetry, **Springer**, (IF= 2.04), **2011**
   - **l)** Industrial & Engineering Chemistry Research Journal, ACS**,** (IF= 2.84), **2010**
   - **m)** Dirasat Journal, University of Jordan, **JORDAN**, **2010**
   - **n)** Carbohydrate Polymers Journal, Elsevier, (IF= 5.13), **2010**
   - **o)** Journal of Applied Polymer Science, Wiley, (IF= 1.60), **2006**
   - **p)** European Polymer Journal**,** Elsevier**,** (IF= 3.66), **2004**
   - **q)** Macromolecular Rapid Communications**,** Wiley**,** (IF= 4.61), **2003**
   - **r)** Journal of Polymer Research**,** Springer**,** (IF= 1.62), **2003**

IF stands for impact factor

9. Teaching Assistant from 1993-1998, Middle East Technical University, Department of Chemistry, Ankara, TURKEY

10. First Class High Honor 1989, Middle East Technical University, Ankara, TURKEY

University Affiliation and Collaborations

1. Harvard University, USA
2. Massachusetts Institute of Technology, USA
3. Northeastern University, USA
4. University of Leeds, UK
5. American University of Beirut, Lebanon
6. American University of Sharjah, UAE
7. Middle East Technical University, Turkey

Potential Referees

1. Prof. Fahmi Abu Al-Rub, Board Member of Trustee of the **German Jordan University**, Director of the Applied Scientific Research Fund (ASRF), INVENT Erasmus+ Project Coordinator, NETKITE ENPI Project Jordan Coordinator VTC Erasmus+ Project Jordan Coordinator, former Dean of Research at JUST, Department of Chemical Engineering, Jordan University of Science & Technology, JORDAN, Email: abualrub@just.edu.jo
2. Prof. Mu'taz Salem, President of Philadelphia University, Amman, JORDAN and staff member of Faculty of Pharmacy, Department of Pharmaceutical Sciences, Jordan University of Science & Technology, JORDAN, Email: salem@just.edu.jo
3. Prof. Isam Arafa, Department of Chemistry, Jordan University of Science & Technology, JORDAN, Email: isamaraf@just.edu.jo

Thank You

During my visit to Prof. Dr. **Farouq Al-Baz** the famous **NASA** scientist, and the Director of Center for Remote Sensing and Research at **Boston University** (BU), Boston, Massachusetts, USA.