

**Khalid Essa Ramadhan Al-Ani (Ph D)**  
**Professor of Physical Chemistry, Photochemistry**

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**khalid7@hu.edu.jo**  
**k.alani@jadara.edu.jo**



**(I) Personal Data:**

**Name: Khalid Essa Ramadhan Al-Ani**

**Marital Status: Married**

**Nationality: Iraqi**

**Gender : Male**

**Scientific Specialization: Physical Chemistry / Photochemistry**

**Rank: Full Professor (1989) – Baghdad University**

**Place of Work: *University of Jadara, Faculty of Pharmacy,  
Department of Pharmaceutical Chemistry,  
Irbid, JORDAN.***

**(II) Education:**

**Ph.D. Physical Photochemistry/Kinetic Photochemistry (1969-1972)**

**University of Southampton, Department of Chemistry, Faculty of Science, England, U.K.**

**(Thesis): Photochemistry of Fluor, Trifluoro, and Trifluoromethyl Benzenes in Gas Phase.**

**(Advisor): Professor David Phillips/England/U.K.**

**M Ph. Qualifying Examination (Photochemistry), (1968-1969)**

**University of Southampton, Department of Chemistry, Faculty of Science, England, U.K.**

**(Thesis): Photochemistry of Pentafluoro benzene in gas phase**

**(Advisor): Professor David Phillips/England/U.K.**

**B. Sc. Chemistry (1962-1966)**

**University of Baghdad, College of Science, Chemistry Department, Baghdad, IRAQ.**

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**Postdoctoral Fellow at Chemistry Department, Faculty of Science, University of Texas at Austin, Texas, USA. (1972-1974):**

**(Advisor): Professor William Albert Noyes Jr, Austin, Texas, USA.**

Doing research work, in Fluorescence, Phosphorescence, Kinetics treatment of data for fluoro trifluoromethyl benzene in gas phase, **Austin, TEXAS, USA.**

**Visiting Professor at Physical and Industrial Chemistry Department. (1981-1982).**

Doing research in Photopolymer, with the corporation of Professor Anthony Ledwith, **Liverpool University, LIVERPOOL, ENGLAND.**

### **(III) Employment History and University Teaching Experience:**

1. **Dean of Faculty of Pharmacy, (1/9/2014 – tell Now):**  
University of Jadara, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Jadara, Irbid, JORDAN.
2. **Baghdad University: (30/5/2012 – 1/1/2014).**  
College of Science, Chemistry Department, Baghdad, IRAQ.
3. **British University of Science and Technology (Oct. /2010 – 31/1/2012):**  
Faculty of Engineering, Department of Petroleum Engineering, Erbil, IRAQ.
4. **Dean of Faculty of Pharmacy , (October 2009 – Oct./ 2010))**  
**The British University of Science and Technology, Dean of College of Pharmacy, Erbil, IRAQ.**
5. **Head of Chemistry Department – 2006-2007.**  
**(September (1<sup>st</sup> / Sep. 1998 – 1<sup>st</sup>. Oct. 2009): Hashemite University, Chemistry Department, Faculty of Science, JORDAN.**
6. **University of Al Fatah, (1993 – 1998)**  
Chemistry Department, College of Science, Al Fatah University, Tripoli, LIBYA.
7. **University of Oran for Science and Technology, (1991-1993)**  
Veterinary Medicine College, University of Science and Technology, Oran, ALGERIA.
8. **University of Baghdad-(1984 - 1991):**  
Faculty of Science, Chemistry Department, Baghdad, IRAQ.
9. **Assistant Dean for Scientific Affairs and Higher Studies- 1988 -1990.**  
University of Baghdad, Faculty of science, Baghdad, IRAQ.
10. **University of Baghdad-(1978 - 1984):**  
College of Education &, Chemistry Department, Baghdad, IRAQ.
11. **Head of the chemistry department- 1980-1982.**  
Chemistry Department, College of Education, Baghdad, IRAQ.
11. **University of Basrah-(1974–1978):**  
Faculty of Science, Chemistry Department, Basrah, IRAQ.
12. **Member of the Trustees Council -2009-2011:**  
British University of Science and Technology, Erbil, IRAQ.
13. **Member of Faculty of Science Council -1990 – 2000 & 2004-2005:**  
**Hashemite University – Faculty of Science, JORDAN**
14. **Member of Administration Council for Solar Energy Center: 1984-1988:**  
Scientific Research Council, Solar Energy Center, Baghdad, IRAQ.

## **TEACHING CORSES**

**(Graduate M.Sc. & Undergraduate levels):**

<b>Year</b>	<b>Course No.</b>	<b>Course Name</b>	<b>No:</b>
<b>Ph D*</b>		<b>Advance Photochemistry</b>	<b>1</b>
<b>Ph D &amp; M Sc</b>	<b>103795</b>	<b>Chemical Kinetics and Dynamics</b>	<b>2</b>
<b>Ph D &amp; M Sc</b>	<b>103745</b>	<b>Advanced Polymer Photochemistry</b>	<b>3</b>
<b>Ph D &amp; M Sc</b>	<b>103495</b>	<b>Advanced Surfaces Chemistry and Catalysis</b>	<b>4</b>
<b>Forth year</b>	<b>103444</b>	<b>Photochemical Reactions</b>	<b>5</b>
<b>Forth year</b>	<b>103454</b>	<b>Methods of Instrumental Analysis</b>	<b>6</b>
<b>Forth year</b>	<b>103456</b>	<b>Practical Instrumental Analysis</b>	<b>7</b>
<b>Forth year</b>	<b>103466</b>	<b>Advanced Analytical Chemistry</b>	<b>8</b>
<b>Forth year</b>	<b>103467</b>	<b>Practical Analytical Chemistry</b>	<b>9</b>
<b>Forth year</b>	<b>103441</b>	<b>Molecular Spectroscopy</b>	<b>10</b>
<b>Third Year</b>	<b>103342</b>	<b>Physical Chemistry (3) Quantum Mechanics</b>	<b>11</b>
<b>Third Year</b>	<b>103345</b>	<b>Practical Physical Chemistry (2) Chemical Kinetics &amp; Spectroscopy</b>	<b>12</b>
<b>Third Year</b>	<b>103341</b>	<b>Physical Chemistry (2) Chemical kinetics, Electrochemistry &amp; Catalysis</b>	<b>13</b>
<b>Second Year</b>	<b>103221</b>	<b>Basic Analytical Chemistry</b>	<b>14</b>
<b>Second Year</b>	<b>103241</b>	<b>Physical Chemistry (1) Thermodynamics, thermo chemistry and Solution Chemistry</b>	<b>15</b>
<b>Second Year*</b>	<b>103222</b>	<b>Organic Chemistry (1)</b>	<b>16</b>
<b>Second Year</b>	<b>203216</b>	<b>Pharmaceutical Organic Chemistry</b>	
<b>Second Year</b>	<b>203211</b>	<b>Pharmaceutical Analytical Chemistry</b>	<b>17</b>
<b>First Year*</b>	<b>-----</b>	<b>Biophysics</b>	<b>18</b>
<b>First Year*</b>	<b>-----</b>	<b>General Chemistry for Medical Students</b>	<b>19</b>
<b>First Year</b>	<b>103102</b>	<b>General Chemistry (2)</b>	<b>20</b>
<b>First Year</b>	<b>103101</b>	<b>General Chemistry (1)</b>	<b>21</b>
<b>First Year</b>	<b>103105</b>	<b>Practical General Chemistry</b>	<b>22</b>

\* These courses were given in Baghdad University and Veterinary Medicine College at (USTO), University of Science and Technology at Oran-Algeria.

### **(VI) Administrative Experience:**

- **Dean of Pharmacy College.** At The British University of Science and Technology, Erbil, IRAQ, (Oct./2009 – Oct./2010).
- **Member of the Trustees Council** of the British University of Science and Technology, Erbil, IRAQ, (Oct. 2009 – Oct./2011).

- **Member of Faculty of Science Council**, at Hashemite University - Jordan (1999–2000) & (2004 – 2005).
- **Member of Administration Council for Solar Energy Center**, Scientific Research Council, Baghdad Iraq (1984-1988).
- **Head of Chemistry Department**. At college of science, Hashemite University, Jordan (June 1999 – Oct - 1999).
- **Assistant Dean for Scientific Affairs and Higher Studies**, at College of science, University of Baghdad- Iraq (1989 – 1991).
- **Head of Chemistry Department**. At College of Education, University of Baghdad – Iraq (1980– 1981).
- **Visiting Professor** at Inorganic Physical and Industrial Chemistry Department Liverpool, University of Liverpool, U.K. (1981-1982).

## (V) **Research and Creative Activities:**

### **(A) Fields of research interests:**

- Kinetics of the fluorescence quenching and fluorescence lifetimes of Polymers.
- Kinetics of thermal and photo degradations of para-substituted Polystyrene Polymers in solid films and in solutions.
- Excimer Fluorescence and Exciplex Fluorescence formation in poly Para-substituted polystyrene polymers.
- Effect of polymeric additives (plastizers) on Photodegradation and Thermal degradation of Polystyrene Derivatives in solid films and in solutions.
- Effect of polymeric additives (plasticizers) on Photodegradation and Thermal degradation of Polyvinyl biphenyl in solid films and in solutions.

### **(B) M Sc - Thesis Supervision:**

**I have supervised the following M.Sc. student's research and thesis during the period (1974-2009).**

- **Al-sabtti M.**; Effect of polar solvent on amine quenching of para- Fluorotoluene fluorescence. Basrah University – Iraq, (1977-1979).
- **Tawfiq I.**; Quenching of excimer and monomer emission by Dimethyl terephthalate in solid films. Baghdad University, Iraq, (1982-1984).
- **Suliman A.** “Effect of added terephthalate plasticizers on fluorescence quenching of poly (para-substituted styrene) in solid films and in solutions. Jordan. Hashemite University, (2003 - 2005).
- **Al Buzour M.** “Thermal degradation of plasticized poly (para- substituted styrene) in solid films and in solutions. Jordan, Hashemite University, (2003 - 2005).
- **Hawi M.** “Photo degradation of plasticized styrene derivatives in solid films. Jordan, Hashemite University, (2005 - 2007).
- **Anabtawi M.** “Photo degradation of Poly (fluorostyrene) isomers in solid films. Jordan, Hashemite University, (2007- 2009).
- **Khanfer S.** “Photo and Thermal degradation of Poly (4-Vinyl biphenyl) in Solid films and in solution. Jordan, Hashemite University, (2007-2009).

## (VI) **Computer Command Skills:**

- Microsoft Word, writing research papers, reports, and in documentation of students records.
- Excel, used in processing research data and in plotting these data.
- Microsoft Power Point, used in presentation of lectures to undergraduate and postgraduate students, and in Seminar activities.
- ISDL certificate in computer (2004), Hashemite University.

## (VII) Professional Affiliations:

- Member of the Iraqi Chemical Society- Iraq (1975-1991).
- Member of the European Photochemical Society (1988-2005).
- Member of the Jordanian Chemical Society (1998-2009).
- Member of the Scientific Research Society in Jordan (2001- 2009).

## (VIII) Scientific Publications:

### (A) - Scientific Papers

- (1) "The photochemistry of pentafluorobenzene in vapour phase". **Kh. Al-Ani** and D. Phillips, *J. Phys. Chem.*, (1970) 74, 4046.
- (2) "Quenching of biactyle phosphorescence by fluorinated aromatics". **Kh. Al-Ani** and D. Phillips, *J. Chem. Phys.*, (1970) 53, 855.
- (3) "On self-quenching of first excited singlet states of aromatic molecules in gas phase". **Kh. Al-Ani** and D. Gray and D. Phillips *J. Chem. Soc. A*, (1971) 905.
- (4) Effect of "aromatic donor on the cis-trans isomerization of but-2-ene". D. Gray, **Kh. Al-Ani**, and D. Phillips, *J. Chem. Soc. A*, (1971) 2949.
- (5) "Quenching of excited states of fluorobenzene in gas phase". **Kh. Al-Ani** and D. Phillips, *J. Phys. Chem.*, (1971) 75, 3662.
- (6) "The Photochemistry of the fluorotoluenes I; Quantum yields of fluorescence and intersystem crossing in 1-fluoro 2-; 1-fluoro 3-; and 1-fluoro 4-methyl benzenes". **Kh. Al-Ani** and D. Phillips, *J. Phys. Chem.*, (1972) 76, 3662.
- (7) "The Photochemistry of the fluorotoluenes II; Quenching of excited states". **Kh. Al-Ani** and D. Phillips, *J. Phys. Chem.*, (1972) 76, 2967.
- (8) "Photochemistry of trifluoromethyl benzene IV; 1, 2 1, 3 and 1, 4- CF<sub>3</sub> substituted benzenes". **Kh. Al-Ani**, G. das Gupta, R.G. Brown and D. Phillips, *J. Photo. Chem.*, (1973) 1, 379.
- (9) "Photochemistry of fluoro (trifluoromethyl) benzenes I; photophysical processes of 1-fluoro 2, 1-fluoro 3, and 1-fluoro 4-(trifluoromethyl) benzenes in the gas phase". **Kh. Al-Ani**, *J. Chem., Phys.* (1973) 59, 330.
- (10) "Photochemistry of fluoro (trifluoromethyl) benzenes II; Fluorescence spectra and quenching of singlet state emission in 1-fluoro 2-, 1-fluoro 3-, and 1-fluoro 4-(trifluoromethyl) benzenes in the gas phase". **Kh. Al-Ani**, *J. Chem., Phys.* (1973) 59, 341.

- (11) "Photochemistry of fluoro (trifluoromethyl) benzenes III; photoisomerization of fluoro 2-, 1-fluoro 3-, and 1-fluoro 4-(trifluoromethyl) benzenes in the gas phase". **Kh. Al-Ani, *J. Chem., Phys.* (1974) 58, 5073.**
- (12) "The photochemistry of some simple aromatic molecules in gaseous states". W.A. Noyes Jr., and **Kh. Al-Ani, *Chemical Reviews (American)* (1974), 74(1), 29.**
- (13) "Quenching of excited state of trifluoro methyl benzenes by heterocyclic compounds". **Khalid E. Al-Ani, M.E. Sime and D. Phillips, *Molecular Photochem.* (1976) 7(2), 149-169.**
- (14) "Nanosecond fluorescence decay studies on aromatic molecules". **Kh. Al-Ani, *J. Iraqi Chem. Sec.* 2(2), (1977), 107-116.**
- (15) "Quenching of the first excited singlet state of CF<sub>3</sub> substituted benzenes by diethyl amine". **Kh. Al-Ani, *J. Photochem.* (1982) 19, 73.**
- (16) "Effect of polar solvent on amine quenching for p-fluorotoluene fluorescence". **Kh. Al-Ani and M. Al-Sabbti *J. Phys. Chem.* (1983) 87, 446.**
- (17) Solvent and excitation wave length effects on fluorescence decay times of fluoro-substituted benzenes". **Kh. E. Al-Ani, *J. Iraqi Chem. Soc.* (1983), 8(2), 79-88.**
- (18) "Quenching of fluorotoluene isomers fluorescence by aliphatic amines in solution". **Kh. E. Al-Ani, *J. Iraqi Chem. Soc.* 12(1), (1987), 73-78.**
- (19) "Photochemistry and Photodegradation of some p-substituted polystyrene in solid films". **Khalid E. Al-Ani\* and I. Tawfiq workshop on recent trends in photochemistry, Irbid-Jordan *Abhath Al- Yarmouk.* 2(1), (1989).**
- (20) "Effect of molecular weight on fluorescence and absorption spectra of poly p-methoxystyrene in solution ". R.K. Al-Ani and **Khalid E. Al-Ani\***, ***Iraqi J. Sci.* 31, (1990), 79-89.**
- (21) "Photo degradation of excimer/exciple formation in poly p-methoxystrene and poly p-ethoxystyrene in solid films". **Khalid E. Al-Ani\***, I. Tawfiq, and R.K. Al-Ani. ***Iraqi J. Sci.* (1991), 32(1), 290 – 295.**
- (22) Temperature effect on excimer/polymer fluorescence of some para- substituted polystyrene in solid films and in solutions. **Khalid E. Al- Ani\***, ***J Abhath Al Yarmouk*, 10(1), 289-298, (2002).**
- 
- (23) Thermal effect and Quenching of exciplex Fluorescence of Polystyrene derivatives by Dimethyl terephthalate in solid films and solutions. **Khalid E. Al-Ani\***, Afrah E. Ramadan and R H Ahmed, ***Polymer Journal*, 38, 355-363, (2006).** <http://dx.doi.org/10.1295/polymj.38.355>
- 
- (24) Solvent effect on thermal degradation of plasticized Para-Substituted Polystyrenes. **Khalid E. Al Ani\***, Musa Al Barghouthi and Manal Al Buzour. ***Polymer Degradation and Stability*, 91, 3252 – 3258, (2006).** <http://dx.doi.org/10.1016/j.polymdegradstab.2006.07.002>
- 
- (25) Effect of Solvents on Fluorescence and Fluorescence Lifetimes of Para-Substituted Polystyrene. **Khalid E. Al-Ani\***, Talal Akasheh and Yaser Yousef.

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- (26) Decay lifetimes for Para-Substituted polystyrene in solid films and in Dichloromethane Solution. **Khalid E. Al-Ani\***, Talal Akasheh and Yaser Yousef. *International Journal of Polymeric Materials*, 56, 387–396 (2007).
- 
- (27) Thermal Degradation of Plasticized Poly (para-methoxystyrene) in Solid Films. **Khalid E. Al Ani\***. *Journal of polymer research*, 14, 83-90, (2007). <http://dx.doi.org/10.1007/s10965-006-9084-4>
- 
- (28) Substituent effect on the fluorescence quenching of polystyrene derivatives by polymeric plasticizers. **Khalid E. Al Ani\*** and Azza M. Suleiman. *Journal of Photochemistry and Photobiology*. 188, 177 – 184, (2007). <http://dx.doi.org/10.1016/j.jphotochem.2006.12.010>
- 
- (29) Thermo Gravimetric Analysis On The Effect Of Dimethyl Terephthalate Plasticizer On Thermal Degradation Of Polystyrene **Khalid E. Al Ani\***, Mohamed Al Omari and Basim Nasralla. *Macromolecules, Ind. J.*, 4(1), 202-211, (2008).
- 
- (30) **Photodegradation of Plasticized Poly (para-substituted styrene) in Solution.** **Khalid E. Al Ani\*** and Afrah E. Ramadhan. *Polymer Degradation and Stability*, 93(8), 1590-1569, (2008). . <http://dx.doi.org/10.1016/j.polymdegradstab.2008.04.010>
- 
- (31) UV-Irradiation Effect on Degradation of Plasticized Poly (*para*-Chlorostyrene) and Poly (*para*-Bromostyrene) in Solid Films, **Khalid E. Al Ani\*** and Muna A. Hawi, Presented in the **14<sup>th</sup> Arab Chemistry Conference**, (2008).
- 
- (32) Effect of Plasticization on the Photodegradation of Poly (para-methoxystyrene) Films. **Khalid E. Al Ani\*** and Muna A. Hawi, *Journal of Material Science*. 44, (10), 2674-2681, (2009). <http://dx.doi.org/10.1007/s10853-009-3350-x>
- 
- (33) Study of the effluence of UV irradiation on the photodegradation of plasticized poly (*para-tert*-butylstyrene). **Khalid E. Al Ani\*** and Afrah E. Ramadhan. *Int. J Mater. Research*, 101(12), 1554 - 1562.(2010), <http://dx.doi.org/10.3139/146.110434>
- 
- (34) Plasticization effect on the photodegradation of poly (4- chlorostyrene) and poly (4-bromostyrene) films. **Khalid. E. Al Ani\*** and **A. E. Ramadhan.**, *Materials Sciences and Applications*, Vol. 1, No. 4, (2010), 358-368. <http://dx.doi.org/10.4236/msa.2010.16052>
- 
- (35) Radiation effect on the Photodegradation of Poly (*Ortho*, *Meta*, and *Para*-Fluorostyrene) Isomers in Solid Films. **Khalid E. Al Ani\***, and **Mai Anabtawi.** *International Journal of Chemistry*. 62 - 84, Vol. 4, No. 5; (2012) [doi:10.5539/ijc.v4n5p62](http://dx.doi.org/10.5539/ijc.v4n5p62)
- 
- (36) **Al Ani K. E.**, Al Safi S. A., Mouamin M.T. and Al Sieadi W. N., (2014), Irradiation Effect on Photodegradation of Pure and Plasticized Poly (4-Methylstyrene) in Solid Films, *Materials Sciences and Applications Journal*, 1, 358-368. (2014). *Materials Sciences and Applications Journal* <http://dx.doi.org/10.4236/msa.2014.55036>
- 
- (37) Irradiation effect on stability of plasticized poly (fluorostyrene) isomers in

- (38) Infrared spectroscopic study of photodegradation of Plasticized Poly (fluorostyrene) Isomers films, **Khalid E. Al Ani\***, Afrah Essa Ramadhan' Mai Anabtawi ,Wadhah N. Al Sieadi, accepted for Publication, **Journal of Vinyl & Additive Technology**, Oct. (2015).
- 
- (39) Kinetic Study of Photodegradation of plasticized Polystyrene in solid films. **Khalid E. Al Ani\***, Afrah E. Ramadhan. , 617-633, Vol. 6. (2015). *Materials Sciences and Applications Journal*, <http://dx.doi.org/10.4236/msa.2015.67064>
- 
- (40) Study of the effluence of UV irradiation on the photodegradation of plasticized poly (4-vinyl biphenyl) in solid films and in solution, **Khalid E. Al Ani\***, and Suha Khanfer, **in preparation**, (2015).
- 
- (41) Plasticization Effect on Thermal stability of poly (4-vinyl biphenyl) in solid films and in solution, **Khalid E. Al Ani\***, and Suha Khanfer, **in preparation**, (2015).
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### **(B) - BOOKS Authorship**

- (1) **Problems and answers in physical chemistry**  
*Khalid Al-Ani* and Anís Al Najar.  
Ministry of Higher Education, University of Basrah, Basrah, Iraq.  
(1980). [IN ARABIC].
- (2) **Chemical Kinetics**  
For third year students at college of education:  
*Khalid Al Ani*, M Al Bermani, and S. Aziz.  
Ministry of Higher Education, University of Baghdad, Baghdad, Iraq  
(1983). [IN ARABIC].
- (3) **Physical Chemistry "Theory and Practical Applications"**  
*Khalid Al Ani*.  
Ministry of Higher Education, University of Baghdad, Baghdad, Iraq  
(1990). [IN ARABIC].
- (4) **Thermodynamics and Thermochemistry**  
*Khalid Al Ani*, B. Al-Sadder, H.A. Hessian and S. Salman.  
Ministry of Higher Education, University of Baghdad, Baghdad, Iraq  
(1993). [IN ARABIC].
- (5) **Laboratory Manual for Engineering Chemistry (103107)**  
*Khalid Al Ani* and Guhaina Tawfiq.  
Hashemite University, Faculty of Science, Chemistry Department,



- (6) **Laboratory Manual for General Chemistry (103105)**  
*Khalid Al Ani*, A. Abu Surrah, and K. Abu Safiah.  
Hashemite University Faculty of Science, Chemistry Department,  
JORDAN, (2007). [IN ENGLISH].

**(C) National and International Conference Participation:**

- (1) **IRAQI CHEMICAL SOC. CONFERENCES IN IRAQ**  
a- University of Sulimania, Sulimania 1974 (Presentation of paper).  
b- University of Basrah, Basrah 1975 (Presentation of paper).  
c- University of Mousil, Mousil 1977 (Presentation of paper).  
d- University of Baghdad, Baghdad 1980 (Presentation of paper).  
e- University of Baghdad, Baghdad 1983 (Presentation of paper).  
f- University of Technology, Kurkuk 1987 (Presentation of paper).  
g- University of Baghdad, Baghdad 1989 (Presentation of paper).  
h- University of Basrah, Basrah 1990 (Presentation of paper).  
i-
- (2) **CONFERENCES ON RADIATION CURING OF POLYMERS.**  
17–18 November 1981. University of Liverpool, Liverpool, **ENGLAND**.
- (3) **SYMPOSIUM ON PHOTOPHYSICS OF SYNTHETIC POLYMERS.**  
10<sup>th</sup> – December 1981. Royal Institute of Great Britain, **ENGLAND**.
- (4) **3<sup>rd</sup> ARAB CONFERENCE ON CHEMISTRY.**  
11<sup>th</sup> – 4<sup>TH</sup> November 1983. Alhamamat, **TUNIS**.  
**Paper:**  
Energy transfer in fluorotoluene-aliphatic amines system in solution.
- (5) **FOURTH SCIENTIFIC CONFERENCE, SCIENTIFIC RESEARCH COUNCIL.**  
23 – 28<sup>th</sup> October 1986, BAGHDAD-**IRAQ**.  
**Paper:**  
Effect of molecular weight on fluorescence and absorption spectra of poly-p-methoxystyrene in solution.
- (6) **XIII<sup>th</sup> INTERNATIONAL CONFERENCE ON PHOTOCHEMISTRY.**  
9 – 14<sup>th</sup> August, 1987, Budapest, **HUNGARY**.  
**Paper:**  
Photo and Thermal Stability to excimer / exciplex formation in p-substituted polystyrene in solid films.
- (7) **IUPAC INTERNAL SYMPOSIUM, MOLECULAR DESIGN OF FUNCTIONAL POLYMERS.**  
25–29<sup>th</sup> June, 1989, Seoul, **SOUTH KOREA**.  
**Paper:**  
Fluorescence Quenching from energy transfer complexes of p-substituted Polystyrene-dimethyl terephthalate in solid films and in solutions.
- (8) **RECENT TRENDS IN PHOTOCHEMISTRY CONFERENCE**  
29<sup>th</sup> Oct.–Nov. 1<sup>st</sup>, 1989, Yarmouk University, Irbid, **JORDAN**.  
**Paper:**

Photochemistry of some p-substituted polystyrenes polymers in solid films.

(9) ***IUPAC INTERNATIONAL CONFERENCE ON MACROMOLECULES (Macro 90).***

8–13<sup>th</sup> July, 1990, Montreal, **CANADA**.

**Paper:**

Effect of molecular weight on fluorescence and absorption spectra of poly para-methoxystyrene in solution.

(10) ***XIII The IUPSC SYMPOSIUM ON PHOCHEMISTRY***

22–28<sup>th</sup> July, 1990, University of Warwick, Warwick, Coventry, **ENGLAND**.

**Paper:**

Fluorescence quenching effect on excimer and monomer formations of polystyrene in solid films.

(11) ***II<sup>nd</sup> INTERNATIONAL CONFERENCE OF PURE, APPLIED AND ENVIROMENTAL CHEMISTRY***

17–21<sup>st</sup> April 2000. Al-Yarmouk Universiy, Irbed, **JORDAN**.

**Paper:**

Temperature effect on exciplex formation in para-substituted polystyrene in Solutions of Different polarity.

(12) ***III<sup>rd</sup> INTERNATIONAL CONFERENCE OF PURE, APPLIED AND ENNIROMENTAL CHEMISTRY***

7–11<sup>st</sup> April 2002. Al-Yarmouk University, Irbed, **JORDAN**.

**Paper:**

Thermal effect and Fluorescence Quenching of Polystyrene derivatives – by Dimethyl terephthalate in solid films and solutions.

(13) ***XXVII EUROPEAN CONGRESS ON MOLECULAR SPECTROSCOPY.***

5-10 September, 2004. KRAKOV, **POLAND**.

**Paper:**

Fluorescence, quantum yields and decay lifetimes for Para-substituted polystyrene in solid films and in dichloromethane solution.

(14) ***THE 9<sup>th</sup> INTERNATIONAL CONFERENCE ON SOLAR ENERGY AND APPLIED PHOTOCHEMISTRY.***

23 – 27 January, 2006, CAIRO - **EGYPT**.

**Paper:**

Effect of polymeric additives on thermal degradation of para-substituted polystyrene in solid films.

(15) ***THE INTERNATIONAL CONFERENCE ON FRONTIERS OF RADIATION AND PHOTOCHEMISTRY.***

8 – 11 / 2/ 2007, Kottayam, **INDIA**.

**Paper:**

Photodegradation of Pure and Plasticized Poly (para- Substituted Styrene) in Solid Films and in Solution.

**(16) THE 14<sup>th</sup> ARAB CHEMISTRY CONFERENCE.**

(31 /3 – 3 /4) / 2008, Tripoli, LYBIA.

**Paper:**

UV-Irradiation Effect on Degradation of Plasticized Poly (*para*-Chlorostyrene) and Poly (*para*-Bromostyrene) in Solid Films,

**(IX) Community services:**

- Consultation concerning solar energy storage and solar cells, Solar Energy Center, Scientific Research Council ,Baghdad , Iraq.
- Training course (one week), using Spectrophotometers and Spectrofluorometers in Instrumental Analysis, Baghdad Iraq.
- Training course (theoretical–one month) in chemistry and teaching chemistry for Secondary School Teachers, Baghdad Iraq.
- Training course (theoretical-two weeks) in electrochemical methods in evaluating corrosion in Oil Industries, Tripoli, Libya.
- A practical show in a TV-program “Science for All” showing some experiments in Chemical Kinetics (Reactions and Rate of Reactions), Baghdad Iraq.

**(X) Other University Activities:**

**Committee membership:**

- The scientific committee at chemistry department, college of science, University of Baghdad, (1985-1991).
- Higher studies committee at chemistry department, college of science, University of Baghdad, (1986-1990).
- Head of the departmental safety committee at chemistry department, University of Baghdad, (1986-1988).
- College of Science Council, Baghdad University (1989-1991).
- Head of the examinations committee, college of science, University of Baghdad, (1987- 1989).
- Social committee, chemistry department, college of science, University of Baghdad, (1984-1991).
- Chemistry department Council, college of science, University of Baghdad, (1984-1991).
- Chemistry department laboratories committee, college of science, University of Baghdad, (1984-1986).
- Faculty members promotion committee, college of science, University of Baghdad, (1988-1990).
- College of science council, (chemistry staff representative), college of A science, Hashemite University, Jordan, (1999-2000).
- Examinations committee, chemistry department, college of Science, Hashemite University, Jordan, (1998-2001).
- Scientific literatures translation committee, University of Hashemite University (1998- 2000).

- Faculty members promotion committee, college of science, Hashemite University, (1998-2000).
- Departmental needs from scientific instruments, glass wear, and chemicals, chemistry department of chemistry, college of science, Hashemite University. (1999-2006).
- Also many other committees relate to the scientific and common activities in the chemistry department and at Faculty of Science and at Hashemite University.

### **(XI) Students supervision:**

- Academic student's supervision at chemistry department, Alfateh University, Tripoli, Libya (1994-1998).
- Academic students supervision at chemistry department, college of science, Hashemite University, (1998-2009).
- Scientific supervision for many forth year student's research projects at different departments, (1977-2009).
- Supervising many students' papers that were presented in students conferences.

### **(XI) References:**

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