

Curriculum Vitae

Dr. Adnan Salim Abu-Surrah
B.Sc, M.Sc., Ph.D, D.Sc

Professor of Inorganic Chemistry and Material Sciences

Table of Content

Biography	3
Personal Data	4
Private and Work Addresses	4
Education	5
Qualification	5
Academic Appointments	6
Administration Appointments	7
Positions and Experience	8
Teaching Experience	9
Course Development	9
Industry Development	9
Advisory Boards	10
International Scientific Referee	10
Membership in Scientific and Professional Societies	11
Academic Committees	11
Research Interests	13
Co- & Supervision of Graduate Students	13
List of Publications	14
Conferences-Invited Lectures & Seminars	23
Conferences and Attendance of Scientific Activities and Meetings	25
Development Activities Attended	27
Honors & Prizes	29
Languages & Interests	30
Referees	30

Biography



Dr. Adnan S. Abu-Surrah

Professor of Inorganic & Materials Chemistry

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Adnan Salim Abu-Surrah was born in Amman, Jordan. He received his B.Sc. in Chemistry in 1985 from Qatar University (Excellent with **First-Class Honour**), M.Sc. degree in 1989 from Jordan University, Ph.D. in inorganic chemistry and material science with the honour degree (**summa cum laude**) in 1997 from Ulm University. After two periods of postdoctoral research at BASF and Ulm University in Ulm, Germany Abu-Surrah took a position as adjunct professor of inorganic chemistry and catalysis at the Department of Chemistry, Helsinki University in Helsinki, Finland (1999-2000). After productive research work at both Ulm and Helsinki Universities, he was hired by The Hashemite University, Department of Chemistry, as professor of inorganic chemistry in 2000. In 2014, he was appointed by Qatar University in Qatar as a full professor of Inorganic chemistry (2014-2019). Currently, he is a professor of inorganic Chemistry and materials Sciences, Chemistry Department and Dean of Academic Development and International Outreach at The Hashemite University.

He has worked as a visiting professor in University of Helsinki (2002), Ulm University (2003), Al-Al-Bayt University (2007), and Technical University of Munich (2011). Abu-Surrah published about 85 peer reviewed papers, 8 reviews, 4 books, 40 international conference proceedings and holds a number of patents. (Scopus Author ID: 7003503511; <https://orcid.org/0000-0002-3571-0032>, *h* index 24, National ID: 1525).

Abu-Surrah is a member of several professional societies, scientific committees, and advisory boards. He was appointed by the Prime Ministry at the Higher Accreditation Commission of Academic Institutions in Jordan (2011-2014) and at the Scientific Research Support Fund, 2013, Ministry of Higher Education and Scientific Research, Jordan. He received the DAAD Prize- Germany for Excellence in 1996, the German Industry Prize 1997, the Magnus Ehrnrooth award of Science-Finland 1999, the Hisham Hijjawi Award for Applied Sciences in the field of industry and energy in 2002, The Hashemite University Distinguished Professor Award in 2002, and the SCOPUS (ELSEVIER) award in recognition for contribution to Science", 2009.

His research activities include: (i) Design and synthesis of transition metal complexes and their application in homogeneous catalysis (polymerization-, copolymerization reactions, hydrogenation, and hydroformylation). (ii) Material design. (iii) Catalytic application of novel polymer supported catalysts. (iv) Kinetic and mechanism of oxidation of amino acids via transition metal complexes. (v) Synthesis and cytotoxic evaluation of antitumor platinum and palladium compounds. (vi) Fabrication of molecularly imprinted polymers (MIP): towards wastewater treatment, chiral separation, and pre-concentration-solid phase extraction. (vii) Re-orient university curricula to address sustainability

Personal Data

Name	Adnan Mahmoud Salim Abu-Surrah
Date of birth	1963
Place of birth	Amman-Jordan
Marital status	Married

Work Address

Professor Dr. Adnan S. Abu-Surrah

Dean

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Education

- B.Sc.** June 1985, Chemistry, awarded from [Qatar University](#), Excellent with **First-Class Honour**“.
- M.Sc.** February 1989, Organometallic chemistry, awarded from the [University of Jordan](#) (Amman-Jordan) „Synthesis Reactions and Characterization of Alkyl and Aryl Derivatives of Palladium(II) and Platinum(II) Complexes”.
- Ph.D.** May 1997, Inorganic chemistry and Material Science, awarded from the University of Ulm-Germany with the **honour degree (summa cum laude)**. Thesis entitled „Synthesis, structure and reactions of new chiral late transition metal polymerization catalysts: strategies for a new generation of high molecular weight polyketone elastomers”, under the supervision of Professor Dr. Dr. hc. Bernhard Rieger. The experimental work has been carried out at both Ulm University (Department of Material Science and Catalysis) and [Tübingen university](#) (Institute of Inorganic Chemistry II, Prof. Dr. E. Lindner).

Qualifications

- 1st September 1993 to 15th March 1994 German Language Diploma, [Philipps-Universität Marburg, Marburg-Germany](#).
- May 1997 to May 1999 Post-doc, University of Ulm, Department of Material Science and Catalysis, Ulm-Germany in cooperation with the German Company, **BASF** Aktiengesellschaft, Catalysis Unit, Germany.
- May 2019 to Sep 2000 Docentship rank in Inorganic Chemistry and Catalysis, Department of Chemistry, [University of Helsinki, Helsinki-Finland](#) "Granted in recognition of achievements in scientific research and teaching".
- 2012-2014 Monitor, evaluate and provide expert counsel to several accreditation and Quality Assurance committees for several programs in governmental and private institutes in Jordan as a member of the Board of Directors of Higher Education Accreditation Commission of Academic Institutions in Jordan (HEAC).

Academic Appointments

Date	Post
1 st May 2010 to date	Full Professor, Department of Chemistry, Faculty of Sciences, The Hashemite University , Zarqa, Jordan.
1 st September 2014 to 17 th August 2019	Full Professor, Department of Chemistry and Earth Sciences, College of Arts and Sciences, Qatar University , Doha, Qatar.
1st May 2010 to 25th August 2014	Full Professor, Department of Chemistry and Earth Sciences, College of Arts and Sciences, Qatar University , Doha, Qatar.
1 st May 2006 to 30 April 2010	Associate Professor, Department of Chemistry, Faculty of Sciences, The Hashemite University , Zarqa, Jordan
1st September 2006 to 1 st Sep 2007	Associate Professor, Department of Chemistry, Faculty of Sciences, Al al-Bayt University , Jordan
9 th April 2001 to 30 April 2006	Assistant Professor, Department of Chemistry, Faculty of Sciences, The Hashemite University , Zarqa, Jordan
17 th September 2000 to 8 th April 2001	Full time lecturer, Department of Chemistry, Faculty of Sciences, The Hashemite University , Zarqa, Jordan
1 st May 1999-1 st September 2000	Adjunct Professor, Department of Chemistry, laboratory of inorganic chemistry, University of Helsinki , Helsinki-Finland.
1st June 2011-1st September 2011	Guest Professor, Technische Universität München , WACKER-Lehrstuhl für Makromolekulare Chemie , Lichten-bergstraße 4, 85747, München-Germany.

Administration Appointments

Date	Post
Sep. 2020 – to date	Dean, Deanship of Academic Development and International Outreach, The Hashemite University.
Sep. 2020 – to date	Board member, Deans Council, The Hashemite University.
Sep. 2020 – to date	Board member, Faculty of Graduate Studies Council, The Hashemite University.
August. 2020 – to date	Chairman of the University Housing Fund Administration Committee, The Hashemite University.
23 August 2012 to 21 July 2014	Board member, Higher Education Accreditation Commission of Academic Institutions (HEAC), Appointed by Prime Ministry of Jordan, Jordan.
23 August 2012 to 21 July 2014	Head of several accreditation committees for private universities in Jordan and for several programs in governmental and private institutes, Higher Education Accreditation Commission of Academic Institutions (HEAC), Jordan
3 rd May 2014 to 3 rd May 2015	Member of the Board of Directors of the Scientific Research Support Fund, Ministry of Higher Education and Scientific Research, Jordan.
Sep 2011 to 15 th August 2014	Chairman of the Institutional Review Board (IRB), The Hashemite University, Zarqa-Jordan.
2010 and 2012	Dean, Deanship of Scientific Research and Graduate Studies, The Hashemite University.
2009 to 2013	Deputy Dean, Deanship of Scientific Research and Graduate Studies, The Hashemite University.
June 2005/ Sep 2006	Chairman of Chemistry Department, Faculty of Science, The Hashemite University.

Positions and Experience

Visiting Professor Ulm University	Ulm University , Department of Material Science and Catalysis, Chemistry Department, Ulm-Germany, Juli 2003-Aug. 2003.
Visiting Professor University of Helsinki Helsinki-Finland	University of Helsinki , Chemistry department, laboratory of Inorganic Chemistry, Helsinki-Finland, Aug. 2003-Sep.2003.
External Professor University of Helsinki Helsinki-Finland	University of Helsinki , Department of Chemistry, Sep. 2000-.
Chairman	(CATPOLE Ltd, Catalysis) : A.I.Virtasen aukio, 1, FIN-00560 Helsinki, Finland, Oct. 1998-Oct. 2000. The company was established by the University of Helsinki in order to bridge the gap between academic institutes and industry related to catalysis in Finland.
Research Scientist	BASF Aktiengesellschaft (Department of Catalysis) Ludwigshafen-Germany, May 1998-May 1999.
Visiting Researcher	University of Helsinki , Chemistry Department, Helsinki-Finland, Oct. 1997-Nov. 1997.
Scientific Assistant	Universität Ulm , Dept. of Macromolecular Chemistry, Ulm-Germany, July 1995-July 1996.
University Lecturer	Applied Science University : Chemistry Department, Faculty of Science, Amman-Jordan, Sep. 1989-Sep. 1993 and Al-Andalus College, Amman-Jordan.
Computer Competency	Microsoft Windows, MS-DOS, Power Point, Excell, C-Design, Microcal Origin, ISIS Draw, ACD-NMR, WIN-NMR, Hyber Chem. Using Blackboard and Microsoft Team Information & Communication (mail and internet)

Teaching Experience

During my presence at several institutions (University of Helsinki (Finland), Ulm University (Germany), and The Hashemite University (Jordan)), I acquired a good background in teaching the following graduate and undergraduate courses:

- [1] Inorganic Chemistry
- [2] Coordination Chemistry
- [3] Organometallic Chemistry
- [4] Polymer Chemistry
- [5] Applied Chemistry
- [6] Industrial Chemistry
- [7] Coordination Polymerization
- [8] Homogeneous Catalysis
- [9] Inorganic and Organometallic Reaction Mechanisms
- [10] General Chemistry (101 & 102)
- [11] General Chemistry for Engineering Students
- [12] Practical General Chemistry
- [13] Practical Inorganic Chemistry
- [14] Practical Analytical Chemistry
- [15] Supervising Graduate and Undergraduate Chemistry Students

Course Development

- [1] Experimental General Chemistry (105) for Chemistry Students at The Hashemite University (2006).
- [2] Experimental General Chemistry (108) for Engineering Students at The Hashemite University (2004).
- [3] Inorganic Chemistry (1) 221, Inorganic Chemistry (2) 321, and Organometallic Chemistry (422): Inorganic Chemistry, G. J. Miessler and D.A.Tarr, 3rd Ed., Pearson, NJ, 2004: Arabic Translation.
- [4] Set-up experiments for General and Inorganic Chemistry Laboratories.
- [5] Committee member: preparation of the laboratory manual for Practical Inorganic Chemistry at The Hashemite University (2004).
- [6] Chemistry text books for the community colleges in Jordan:
 - A. A. A. Jarrar , A. S. Abu-Surrah, T. J. Al-Ahmed, "Analytical Chemistry", Dar Al - Diya', Amman (Jordan), 1st edition, 1990 (2nd Ed. 1994, 3rd Ed. 1999).
 - B. A. A. Jarrar, A. S. Abu-Surrah, T. J. Al-Ahmed, "Principle of practical Organic Chemistry" (1st edition, 1991; 2nd Ed., 1994) Dar Al -Diya', Amman (Jordan).

Industry Development

- [1] Scientific Researcher, BASF Aktiengesellschaft (Department of Catalysis, Ludwigshafen-Germany) on the development and application of novel supported catalysts for plastic industry.
- [2] Supervisor, Technical research Center of Finland (VTT), Helsinki-Finland, improvement of novel polymer materials.
- [3] Consultant, Mayne Pharm, USA, Improvement of Anticancer Drugs.
- [4] Co-supervising the project for recycling of polystyrene in Jordan, supported by the Higher Council of Science in Cooperation with Industry.

Advisory Boards

- [1] Editor: Organic & Medicinal Chemistry International Journal (OMCIJ), Juniper Publishers (2015 to date).
- [2] Editorial Board: World Journal of Biological Chemistry, Baishideng Publishing Group, CA 94588, United States. (11.2013-).
- [3] Editorial Board: Science Publishing Group, Cancer Research Journal (ISSN: 2330-8192 (Print) ISSN: 2330-8214 (Online) (2012-).
- [4] Board Member, Higher Education Accreditation Commission of Academic Institutions, The Hashemite Kingdom of Jordan, (2012-).
- [5] Advisory Board, International Union of Advanced Materials (IUAM), (2012-)
- [6] Chairman, Institutional Review Board (IRB), The Hashemite University, Zarqa-Jordan (2012-2014).
- [7] Editor: ISRN Inorganic Chemistry, The International Scholarly Research Network (2012-).
- [8] Editorial Board: Dataset International Papers in Chemistry, Inorganic Chemistry (ISSN: 2314-5315 (Online) (2012-).
- [9] Editor-in-Chief, Metal-Based Drugs (MBD), Journal in medicinal inorganic chemistry, Hindawi Publishing Corporation (2006-2010).
- [10] Editor-in-Chief, Review Book "Well-Defined Metal Complexes-Catalyzed Polar Polymer Synthesis, Research Signpost publisher, 2009.
- [11] Coordinator, Council of Scientific research, The Hashemite University (2009-2013).
- [12] Coordinator, Council of Graduate Studies, The Hashemite University (2009-2013).
- [13] Member, Council of Chemistry Department, The Hashemite University, Zarqa-Jordan (2000).
- [14] Member, Council of Faculty of Science, The Hashemite University, Zarqa-Jordan (2003, 2005-2007).
- [15] Board Member, Council of e-Learning Center, The Hashemite University, Zarqa-Jordan (2011-2013).
- [16] Member, Council of The Hashemite University, Zarqa-Jordan, during 2012.
- [17] Member, Deans Council, The Hashemite University, Zarqa-Jordan, during 2012.

International Scientific Referee

Referee for several national and international chemical journals such as:

- [1] Macromolecular Chemistry and Physics (*Macromol. Chem. Phys*), Wiley-VCH.
- [2] Macromolecular Rapid Communications, WILEY -VCH.
- [3] Polymer International, Society of Chemical Industry, UK.
- [4] Inorganic Chemistry Communications, Elsevier.
- [5] Cancer Therapy, Gene Therapy Press, California, USA.
- [6] Organometallics, American Chemical Society (USA).
- [7] Zeitschrift für Anorganische und Allgemeine Chemie (ZAAC), WILEY-VCH, Weinheim (Germany).
- [8] Journal of Applied Polymer Science, John Wiley & Sons, Inc.
- [9] Metal-Based Drugs (MBD), Hindawi Publishing Corporation.
- [10] Expert reviewer for the journals related to the fields of medicinal chemistry and rational drug design, Bentham Science Publisher (BSP).
- [11] Applied Organometallic Chemistry, Wiley.

- [12] Cancer Research Journal, Science Publishing Group, (ISSN: 2330-8192 (Print) ISSN: 2330-8214 (Online)).

Membership of Scientific and Professional Societies

- [1] American Chemical Society (ACS) USA.
- [2] Gesellschaft Deutscher Chemiker (GDCH) Germany.
- [3] Society of Chemical Industry (SCI) UK.
- [4] Jordanian Chemical Society.
- [5] Member of the Association of German Universities.
- [6] Member: Academic Keys Who's Who in Sciences Higher Education (WWSHE)
- [7] International Union of Advanced Materials (IUAM).

Academic Committees

Department

- [1] Head of scientific and Seminars Committee, Department of Chemistry, The Hashemite University, 2019-2020.
- [2] Chair of Research Enabling Committee, Department of Chemistry and Earth Sciences, Qatar University, 2015-2017.
- [3] Member, Curriculum Committee, Department of Chemistry and Earth Sciences, Qatar University, 2015- 2019.
- [4] Member, Quality Assurance Committee, Department of Chemistry and Earth Sciences, Qatar University, 2015-2016.
- [5] Co-chair, Accreditation Committee, Department of Chemistry and Earth Sciences, Qatar University, 2014-2016.
- [6] Member, Program Learning outcomes Committee, Department of Chemistry and Earth Sciences, Qatar University, 2014-2016.
- [7] Co-chair, Strategic Planning and Annual Report Committee, Department of Chemistry and Earth Sciences, Qatar University, 2014-2016.
- [8] Chairman, Self-Study Report committee, Department of Chemistry and Earth Sciences, Qatar University, 2014-2015.
- [9] Member, Library, Text books and software Committee, Department of Chemistry and Earth Sciences, Qatar University, 2014-2015.
- [10] Head of Inorganic Chemistry section at Chem. Department, 2005-2013, 2020-to-date.
- [11] Head and member of examining committees of many graduate students at The Hashemite University and Qatar University.
- [12] Coordinator of all Committees at Chem. Department, 2006-2007.
- [13] Head of Seminars Committee, Chem. Department, 2000.
- [14] Member, committee of scientific research and graduate studies at Chemistry Department, Faculty of Science, and The Hashemite University for several years.
- [15] Head of public safety committee, Chemistry Department and Faculty of Science for several years

Faculty

- [1] Head of Cultural and Scientific Committee, Faculty of Science, The Hashemite University, 2019-2020.
- [2] Research Enabling Committee, College of Arts and Sciences, Qatar University, Sep. 2015-Sep. 2017.
- [3] Member of several appointment and promotion committees, Faculty of Science, The Hashemite University.
- [4] Head of public safety committee, Faculty of Science for several years.
- [5] Member of scientific research and graduate studies committee, Faculty of Science, The Hashemite University (2006-7).

University

- [1] Member of The Hashemite University Research Fund Committee, The Hashemite University (2020-).
- [2] Chairman of the University Housing Fund Administration Committee, The Hashemite University (2020-).
- [2] Coordinator, HU Research Project grants Committee, The Hashemite University (2011-2014).
- [3] Chairman of the Institutional Review Board (IRB), The Hashemite University, Zarqa-Jordan (2012-2014).
- [4] Chair, judging committee, posters in the field of Science and engineering, Qatar University Annual Forum, 2016.
- [5] Coordinator of scientific research directory committee, The Hashemite University (2009, 2010).
- [6] Coordinator of graduate studies directory committee, The Hashemite University (2009, 2010).

National and International

- [1] Committee of Scientific Research Support Fund for scholarships at governmental universities in Jordan, Ministry of Higher Education and Scientific Research, 2014-2015, Jordan.
- [2] Mentor, Research Ethics Program in Jordan, the Project is led by the University of California San Diego in collaboration with Jordan University of Science and Technology (JUST), 2015-.
- [3] Member of the organizing committee of the 4th International Conference and Exhibition on Laboratory Technology, 2017, Kingdom of Bahrain.
- [4] Scientific Program Committee, Annual International Conference on Mechanical Manufacturing, Modeling and Materials, July, 26-27, 2014, China.
- [5] Head of the committee for the accreditation of some programs at Jordan University of Science and Technology in accordance with the Jordanian Accreditation Board, 2013. Higher Education Accreditation Commission.
- [6] Head of the committee for the accreditation of Zarqa University in accordance with the Jordanian Accreditation Board, 2012. Higher Education Accreditation Commission.
- [7] Member of many accreditation committees for different programs in governmental and private universities in Jordan during 2012 to 2014 (The Hashemite University, Jordan University of Science and Technology, Yarmouk University, Zarqa Private University, Philadelphia University).

- [8] Member of the committee for the accreditation of the Department of Chemistry and Earth Sciences in Qatar University in accordance with the Canadian Society for Chemistry Accreditation Board. (CSC) international accreditation guidelines.
- [9] Member of the organizing committee of the International Conference on Sciences (ICS-2012), Al Al-Bayt University, Jordan.
- [10] Member of the scientific committee of 11th Eurasia Conference on Chemical Sciences, 2010, Jordan.
- [11] Member of the scientific committee of the 9th Chemistry Conference, 2009, Jordan.
- [12] Member of several master and Ph.D. examining committees at Jordan University, Al-Al-Bayt University, and Helsinki University.

Research Interests

My research group is involved in the following research topics:

- [1] **Catalysis by Design:** Synthesis, Characterization, and application of transition metal complexes that can be applied as homogeneous catalysts for (polymerization and copolymerization of alkenes and epoxides with polar monomers, hydrogenation, and hydroformylation).
- [2] **Heterogeneous Catalysis:** Immobilization reactions of transition metal-based catalysts. Catalysis of organic reactions (polymerization, hydrogenation, hydroformylation) can be carried by supported organic materials.
- [3] **Polymer Chemistry:** Polymerization processes of α -olefins, dienes, cycloolefins, and copolymerization of alkenes (C₂-C₂₀) with polar monomers such as carbon monoxide and acrylate derivatives.
- [4] **Materials Science:** Fabrication of **molecularly imprinted polymers (MIP):** towards wastewater treatment, chiral separation, and pre-concentration-solid phase extraction.
- [5] **Materials Chemistry:** Electrical properties of **polymer nanocomposites.**
- [6] **Bioinorganic Chemistry:** Anti-Cancer platinum and palladium compounds: Synthesis, characterization and cytotoxic evaluation.
- [7] **Coordination and Physical Chemistry:** Kinetic and **mechanism of oxidation** of amino acids via transition metal complexes.
- [8] Re-orient **university curricula** to address sustainability.

Co- & Supervision of Graduate Students

Co and supervision of graduate students and member on examining committees of many graduate students at The Hashemite University, Helsinki University, Jordan University, Al-Al-Bayt University and Qatar University:

List of Scientific Publications

Scopus Author ID: 7003503511; h index 24

National ID: 1525

I have authored and coauthored about 85 peer reviewed papers, 4 books, 40 international conference proceedings and holds a number of patents. The contributions below have been cited by around 2000 international papers.

I. Original Papers

- [1] **Adnan S. Abu-Surrah** and Saadi Abdul Jawad
“Multi-Walled Carbon-Nanotubes-reinforced alternating ethylene-carbon monoxide (ECO) and reduced propylene-carbon monoxide (POH) copolymers: dielectric performance via impedance spectroscopy”, **2020**, in preparation.
- [2] H. M. Abdel-Halim, H. M. Baker, A. S. Alhmaideen, and **Adnan S. Abu-Surrah**.
“Kinetics and mechanism of cobalt(III), iron(III) and chromium(III) Catalyzed-Oxidation of L-Cysteine: Effect of metal center, steric factors and electronic properties of the salen ligands”, **2020**, Submitted.
- [3] **A. S. Abu-Surrah** and A. K. Qaroush
“Benzothiophene-based chromium(II), iron(II), and cobalt(II) complexes: Catalyst systems for coupling of epoxides with carbon dioxide” *Transition Metal Chemistry*, **2020**, 45(1), 41-46, [DOI: 10.1007/s11243-019-00354-y](https://doi.org/10.1007/s11243-019-00354-y).
- [4] **A. S. Abu-Surrah**
"Catalysis of cycloaddition of carbon dioxide via benzothiophenealdine based metal catalyst systems", proceedings of the 6th Annual International Conference on Chemistry Chemical Engineering and Chemical Process (CCECP2018), **2018**. DOI: 10.5176/2301-3761_CCECP18.44.
- [5] **Adnan S. Abu-Surrah**, Hebah A. N. Abu-Shehab, and Esraa Al-Ramahi.
“Iron and cobalt salicylaldimine complexes as catalysts for epoxide and carbon dioxide coupling: effects of substituents on catalytic activity”, *Transit Met Chem.*, **2017**, 42:117-122, DOI: 10.1007/s11243-016-0113-9.
- [6] M. Sunjuk, **A. S. Abu-Surrah**, K. A. Abu Safieh, A. K. Qaroush, F. M. Al-Qaisi,
 γ -Diimine palladium(II) based complexes mediated polymerization of methyl methacrylate, *Arabian Journal of Chemistry*, **2017**, 10, S1209-S1215.
- [7] K. A. Abu Safieh, **A. S. Abu-Surrah**, H. D. Tabba, H. A. AlMasri, R. M. Bawadi, F. M. Boudjelal, L. H. Tahtamouni
“Novel palladium(II) and platinum(II) complexes with a fluoro piperazinyl based ligand exhibiting high cytotoxicity and anticancer activity in vitro”, *Journal of Chemistry*, **2016**, 1. <http://dx.doi.org/10.1155/2016/7508724>
- [8] H. D. Tabba, Y. M. Hijji, **A. S. Abu-Surrah**
“Olefin Polymerization”, M. Al-Ali AlMa'adeed and I. Krupa (eds.) “Polyolefin Compounds and Materials, Springer Series on Polymer and Composite Materials” Springer International Publishing Switzerland **2016**, ISBN: 978-3-319-25980-2 (Print) 978-3-319-25982-6 (Online). [DOI 10.1007/978-3-319-25982-6-3](https://doi.org/10.1007/978-3-319-25982-6-3).

- [9] A. K. Qaroush, D. A. Castillo-Molina, C. Troll, M. A. Abu-Daabes, H. M. Alsyouri, **A. S. Abu-Surrah**, B. Rieger. [n]-Oligourea-Based Green Sorbents with Enhanced CO₂ Sorption Capacity. **2015**, Chem. Sus. Chem., 8, 1618-1626., DOI: [10.1002/cssc.201402828](https://doi.org/10.1002/cssc.201402828).
- [10] **A. S. Abu-Surrah**, S. Abdul Jawad, E. Al-Ramahi, A. B. Hallak, Z. Khattari, "Effect of multi-walled carbon nanotubes aspect ratio and temperature on the dielectric performance of alternating alkene-carbon monoxide polyketone nanocomposites", Physica B, **2015**, 463, 76-81.
- [11] H. M. El-Ghanem, S. Abdul Jawad, M. H. Al-Saleh, Y. A. Hussain, **A. S. Abu-Surrah** "Electrical Impedance Spectroscopic Study of CNT/ Ethylene-alt-CO/Propylene-alt-CO Polyketone Nanocomposites" [Journal of Macromolecular Science: part B](https://doi.org/10.1002/polb.23188), **2014**, 53, 878.
- [12] M. Sunjuk, **A. S. Abu-Surrah**, I. Al-Ramahi, A. K. Qaroush, A. Saleh "Selective coupling of carbon dioxide and epoxides via salicylaldimine, thiophenaldimine, and quinolinaldimine- iron(II), iron(III), chromium (III) and cobalt(III) /Lewis base catalysts", Transition Metal Chemistry, **2013**, 38, 253-257, DOI: 10.1007/s11243-012-9685-1.
- [13] H. M. Abdel-Halim, **A. S. Abu-Surrah**, H. M. Baker. "Kinetics of Oxidation of L-Cysteine by Cobalt(III), Iron(III), and Chromium(III) Complexes of Salicylaldiminato Ligands". JJC, **2012**, 7, 33-40.
- [14] M. Al-Noaimi, **A. S. Abu-Surrah**, and L. Tahtamouni "Palladium(II) complexes incorporating phenylazophenylmethine ancillary ligands: synthesis, spectral, redox properties and antitumor activity". Arabian Journal of Chemistry, **2012**, doi.org/10.1016/j.arabjc.2012.03.009.
- [15] S. Abdul Jawad, **A. S. Abu-Surrah**, M. Maghrabi, Z. Khattari. "Dielectric behavior of alternating ethylene-carbon monoxide and ethylene-propylene-carbon monoxide polyketones via impedance spectroscopy" *Journal of Applied Polymer Science*, **2012**, 123, 2020-2026.
- [16] Jawad, S.A., **Abu-Surrah, A.S.**, Maghrabi, M., Khattari, Z., Al-Obeid, M. "Electrical impedance of ethylene-carbon monoxide/propylene-carbon monoxide (EPEC-69) thermoplastic polyketone", *Journal of Material Science*, **2011**, 46, 2748.
- [17] Jawad, S.A., **Abu-Surrah, A.S.**, Maghrabi, M., Khattari, Z., Al-Obeid, M. "Electric impedance study of elastic alternating propylene-carbon monoxide copolymer (PCO-200): 1,4-polyketone elastomer with semiconductor properties" *Physica B: Condensed Matter*, **2011**, 13, 2565-2569. Doi: 10.1016/j.physb.2011.03.069.
- [18] **A. S. Abu-Surrah**, K. A. Ibrahim, M.Y. Abdalla, A. A. Issa, "Pentacoordinated iron(II) complexes with 2,6-bis[(imino)ethyl]pyridine-Schiff base ligands as new catalyst systems mediated atom transfer radical polymerization of (meth)acrylate monomers" *J. Polym. Research*, **2011**, 18(1), 59-66.
- [19] **A. S. Abu-Surrah**, K. A. Ibrahim, M.Y. Abdalla, A. A. Issa, "Pentacoordinated iron(II) complexes with 2,6-bis[(imino)ethyl]pyridine-Schiff base ligands as new catalyst systems mediated atom transfer radical polymerization of (meth)acrylate monomers" *J. Polym. Research*, **2011**, 18(1), 59-66.

- [20] Muhanned A. Hararaha, Khalid A. Ibrahim, Ala'a H. Al-Muhtasebb, Rushdi I. Yousef, **A. Abu-Surrah**, Ala'a Qatatshehe
"Removal of phenol from aqueous solutions by adsorption onto polymeric adsorbents", *Journal of Applied Polymer Science*, **2010**, 117, 1908-1913.
- [21] H. M. Abdel-Halim, **A. S. Abu – Surrah**,
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III. Patents

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Conferences-Invited Lectures & Seminars

- [1] **A. S. Abu-Surrah**, 6th Annual International Conference on Chemistry, Chemical Engineering and Chemical Process(CCECP2018), “Catalysis of cycloaddition of carbon dioxide via benzothioephenealdine based metal catalyst systems” 12th–13th March, **2018**, Singapore
- [2] **A. S. Abu-Surrah**, “Research Graduation Project: Finale of a student’s education, skills and experience: Guidelines, Forms and Templates” May 1st, **2017**, Chemistry Department, College of Arts and Sciences, Qatar University, Doha-Qatar.
- [3] **A. S. Abu-Surrah**, 14th EURASIA CONFERENCE ON CHEMICAL SCIENCES (14th EURASIA), “Synthesis of cyclic carbonates from CO₂ and epoxide by transition metal based catalysis” Key Speaker”, December 15 – 18, **2016**, International center for chemical and biological sciences (ICCBS), Karachi University, Karachi-Pakistan.
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- [12] **A. S. Abu-Surrah**, “Synthesis and Antitumor evaluation of novel Chiral Platinum and Palladium Complexes Bearing New (1R)-(-)-Myrtanyl-Based

- Nitrogen Ligands”, Presentation, The 12th Asian Chemical Congress (12ACC), 23-25/9/2007, Kuala Lumpur, Malaysia.
- [13] **A. S. Abu-Surrah**, “New Bis(imino)pyridine Iron(II)- and Cobalt(II)- Based Catalysts for Polymerization of α - Olefins and Acrylate Monomers: A Versatile Catalyst System for Organic Polymers”, Presentation, Transmediterranean Symposium on Organometallic Chemistry and Catalysis (RENACOM 2005), May 4-7, 2005, Marrakech-Morocco.
- [14] **A. S. Abu-Surrah**, “Late Transition Metal Complexes as Polymerization Catalysts” Chemistry Department, University of Helsinki, Sep. 1-15, **2003**, Helsinki, -Finland.
- [15] **A. S. Abu-Surrah**, “Catalysis by Late Transition Metal Complexes” Chemistry Department, University of Helsinki, Nov. 20-25, **2002**, Helsinki, -Finland.
- [16] **A. S. Abu-Surrah**, “Organometallic Catalysts and Olefin Polymerization”. New Millennium International Conference” June 18-22, **2000**, Oslo, Norway
- [17] **A. S. Abu-Surrah**, K. Lappalainen, T. Repo, U. Piironen, M. Leskelä. “New Fe(II) and Co(II) complexes Containing Enantiomerically pure bornyl and mertanyl moieties: synthesis, characterization and evaluation towards the polymerization of ethene” Symposium of Inorganic Chemistry, Finnish Chemical Society Congress and Exhibition, Abstracts P. 27, Nov. 21-24, **2000**, Helsinki, -Finland.
- [18] **A. S. Abu-Surrah**, “Toward A New Generation of Polymerization Catalysts” presentation at the Annual Dutch/Finnish Meeting, Abo Academy University, 08.09.12.**1999**, Turku, Finland.
- [19] **A. S. Abu-Surrah**, “Late Transition Metal Complexes: Catalysts for a New Generation of Organic Polymers”. presentation at the Second Annual Finnish-Norwegian Borealis Symposium on Single Site Catalyst Technology -BSSS- August 14-16, **1999**, Borealis, Rönningen-Norway.

Conferences/Attendance of Scientific Activities and Meetings

- [1] **A. S. Abu-Surrah**, B. Rieger.
“Homo- und Copolymere durch Insertionpoly-merisation an Komplexe-katalysatoren der Späten Übergangsmetalle”.
A Poster presented at SFB Kolloquium, June **1995**, Ulm Universität, Ulm, Germany.
- [2] **A. S. Abu-Surrah**, B. Rieger.
“Synthesis of Chiral and C₂-Symmetric Complexes of Fe(II), Co(II), and Pd(II) Bearing New Amine Ligands”.
3rd International Conference on Inorganic Chemistry, July **1995**, University of Sussex, England.
- [3] **A. S. Abu-Surrah**, B. Rieger.
“Homo- und Copolymere durch Insertionpoly-merisation an Komplexe-katalysatoren der Späten Übergangsmetalle”.
A Poster presented at SFB Kolloquium, June **1995**, Ulm Universität, Ulm, Germany.
- [4] **A. S. Abu-Surrah**, B. Rieger.
“Control of Molecular Weight in α -Olefin Carbon Monoxide Alternating Copolymerization. A Way to New High Molecular Weight Thermoplastic Elastomers”.
International Symposium on Polycondensation, Related Processes and Materials, Sept. **1996** a Cité International Universitaire de Paris, Paris, France.
- [5] B. Rieger, **A. S. Abu-Surrah**.
“New Polyketone Elasmers: Control of Material Properties by Transition Metal Catalysis” 4th German-American Polymer Symposium, Sep. **1996**, Universität Leipzig, Leipzig, Germany.
- [6] B. Rieger, **A. S. Abu-Surrah**, R. Wursche, M. Möller, R. P. Franke.
“Hochmolekulare Polyketone als Biokompatible Haftvermittler auf Stahl- und Polyethylenberoflächen”.
BMBF-Begutachtung, Kompetenzzentrum: “Biokompatible Materialien”, Oct. **1996**, Universität Ulm, Ulm, Germany.
- [7] W. Huhn, **A. S. Abu-Surrah**, A. Maier, B. Rieger.
“Novel Palladium(II) Catalysts for Polymerization of Norbornene and Derivatives” Conference on Metal Complex Catalysts for Polymerization Processes, June 1-4, **1998**, Institute of Chemical Physics, Russian Academy of Sciences, Chernogolovka, Moscow-Russian Federation.
- [8] **A. S. Abu-Surrah**
“International Symposium on Metalorganic Catalysts for Synthesis and Polymerization”
Sep. 13-17, **1998**, Institute of Technical and Macromolecular Chemistry, University of Hamburg, Germany.
- [9] A. Mücke, **A. S. Abu-Surrah**, B. Rieger.
“Polyketone Thermoplastic Elastomers: New Generation of Bio-compatible Polymers”. International Congress on Advanced Materials and Processes, Biokompatible Materialien”, Werkstoff Woche, 12.-15.Oct. **1998**, Munich, Germany.
- [10] **A. S. Abu-Surrah**
“INTAS Meeting”
Karpov Institute of Physical Chemistry, Moscow, Russia, 15-18.09, **1999**.

- [11] **A. S. Abu-Surrah**
 “Catalysis Technology Car Boot Sale, CATCBS99” Royal Society of Chemistry
 06-08.10, **1999**, Manchester, UK.
- [12] **A. S. Abu-Surrah**, M. Duverne, U. Piironen, M. Klinga, T. Repo, M. Leskelä.
 “New Chiral Late Transition Metal Complexes Bearing Myrtanyl- and
 Oxazoline-Based Nitrogen Donor Ligands”
 The 4th Spring Meeting of the Division of Synthetic Chemistry, Abstracts P. 39,
 May 22-23, **2000** Espoo, Finland.
- [13] **A. S. Abu-Surrah**, M. Kettunen, T. Repo, M. Leskelä, M. Auer, C.- E. Wilén,
 “Carbonylation of Functionalized 1-Olefins by Biphosphine Pd(II)-Based
 Catalysts: Novel Hydroxy- and Methylene-Functionalized Organic Polymers”
 The 4th Spring Meeting of the Division of Synthetic Chemistry, Abstracts P. 42,
 May 22-23, **2000** Espoo, Finland.
- [14] K. Lappalainen, P. Castro, K. Yliheikkilä, M. Kalmi, **A. S. Abu-Surrah**, M.
 Leskelä, T. Repo
 “New Diimine Pyridine Fe(II) and Co(II) Complexes: Synthesis,
 Characterization and Polymerization of t-Butyl Acrylate”
 2nd EFCATS School on Catalysis, Tihany-Hungary, Sep. **2002**, Abstract, P. 69.
- [15] A. K. Qaroush, F. M. Alqaisi, **A. S. Abu-Surrah**
 “ α -Olefin-Functionalized Polymers Via 2,6-Bis(Imino)Pyridine Iron(II)-Based
 Catalysts”, Poster, the 6th Jordanian International Conference in Chemistry, 12-
 12-**2005**, Zarqa-Jordan.
- [16] A. K. Qaroush, F. M. Alqaisi, **A. S. Abu-Surrah**
 “Synthesis of new penta-coordinated iron(II) and cobalt(II) complexes bearing
 bis(imino)pyridine-, salicylaldimine-, and quinaldimine-based tridentate ligands“,
 Poster, المؤتمر الكيميائي الأول لطلبة الكيمياء, 26.04.**2006**, Mutah University, Jordan.
- [17] F. M. Alqaisi, A. K. Qaroush, H. M. Abdel-Halim, **A. S. Abu-Surrah**
 “Synthesis and characterization of new iron(III), cobalt(III), and chromium(III)
 complexes with bidentate N-N, and N-O Schiff base ligands“, Poster, المؤتمر
 الكيميائي الأول لطلبة الكيمياء, 26.04.**2006**, Mutah University, Jordan
- [18] A. K. Qaroush, F. M. Alqaisi, **A. S. Abu-Surrah**
 “ α -Olefin-Functionalized Polymers with MAO Activated Iron(II) Dichloro Complexes
 Bearing Bis(imino)pyridine-, Quinaldimine- and Thiophenaldimine-based Tridentate
 Nitrogen Ligands”, Poster, The 7th Jordanian Chemical Conference, 1-3.**2007**,
 Al-Albaysat University, Jordan.
- [19] F. M. Alqaisi, A. K. Qaroush, H. M. Abdel-Halim, **A. S. Abu-Surrah**
 “Synthesis and Characterization of New Iron(III)-, Cobalt(III)-, and
 Chromium(III)- Based Complexes Bearing Multidentate Nitrogen Ligands:
 Evaluation of the Complexes as Catalysts for Oxidation of Amino Acids”,
 Poster, The 7th Jordanian Chemical Conference, 1-3-**2007**, Al-Albaysat
 University, Jordan.
- [20] Abba Afaneh, Hamzeh Abdel-Halim, **Adnan Abu surrah**
 “Ruthenium(III), Rhodium(III) and Iridium(III) Complexes Bearing Bidentate
 Imine Ligands: Synthesis, Characterization, and Catalytic Application in
 Oxidation of some Amino Acids”, Poster, The 9th Jordanian Chemical
 Conference, 28-4-**2009**, The Hashemite University, Jordan.
- [21] T. K. Harahsha, H. M. Abdel-Halim, H. M. Baker, and **Adnan S. Abu-Surrah**,
 “Kinetics of Oxidation of L-Cysteine via Salicylaldiminato Based Cobalt(III),
 Iron(III), and Chromium(III) Catalysts” Eurasia Conference on Chemical
 Sciences-11, 6-11Oct. **2010**, Dead Sea-Jordan.

- [22] H. M. Abdel-Halim, **Adnan S. Abu-Surrah** "Kinetics of Oxidation of L-Cysteine with Cobalt(III), Iron(III), and Chromium(III) Complexes of Salicylaldiminato Ligands" 1st United Arab Emirates Conference on Pure and Applied Chemistry- ECPAC11, 1-3 March, **2011**, UAE/American University of Sharja, Sharja.
- [23] **Adnan S. Abu surrah** The 6th Jordanian International Conference of Chemistry, 18-21.**2011**, Yarmouk University, Jordan.
- [24] A. K. Qaroush, **A. S. Abu-Surrah**, M. Sunjuk, I. Al-Ramahi, A. Saleh, C. Troll, B. Rieger "Schiff Base Containing Late Transition Metal Based Complexes As Chemoselective Catalysts For Synthesis of Styrene Carbonate", Presentation, International Conference On Sciences (ICS-2012), 20-22, Nov. **2012**, Al-Albait University, Jordan.
- [25] **A. S. Abu-Surrah**, "Design and Application of Advanced Materials", The Royal Society of Chemistry`s Second Gulf Symposium, **2014**, 10 Dec., College of Arts and Sciences, Qatar University.
- [26] **A. S. Abu-Surrah**, Regional Virtual Consultation Meeting for Open Science - Arab States, August 24, 2020.organized by UNESCO Regional Bureau for Sciences in the Arab States – Cairo.

Development Activities Attended

I have joined several advanced workshops/seminars related to education at higher institutions and online learning.

- [1] Workshop, "Vitalsource-How blended learning can improve students learning outcomes," Qatar University, Doha, Qatar. (2018).
- [2] Seminar, "Implementing problem and project based learning in QU," Qatar University, Doha, Qatar. (2018).
- [3] Seminar, "Teaching General courses," Qatar University, Doha, Qatar. (2018).
- [4] Workshop, "Application of MS-word in research," Qatar University, Doha, Qatar. (2018).
- [5] Seminar, "Finding and using on-line resources to facilitate teaching and Learning," Qatar University, Doha, Qatar. (2018).
- [6] Seminar, "What is new in Blackboard update," Qatar University, Doha, Qatar. (2018).
- [7] Seminar, "How to Flip your Classroom," Qatar University-Office of Faculty and Instructional Development (OFID), 2018.
- [8] Seminar, "Who are they and what are they thinking," Qatar University-Office of Faculty and Instructional Development (OFID), 2018.
- [9] Workshop, "قواعد مدرسة شيكاغو في توثيق البحث العلمي," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [10] Workshop, "Digital Measures and FPRDS," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [11] Workshop, "Google Drive and One Drive," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [12] Workshop, "Cite as you write-using Zotero for writing research," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [13] Seminar, "Active learning strategies to promote engaged learning and critical thinking," Department of Chemistry and Earth Sciences, Doha, Qatar. (2017).

- [14] Seminar, "The Finish way to high class achievement in education," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [15] Seminar, "Developing Narrative Approaches to enhance teaching and learning," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [16] Seminar, "10 things to do now that will make next Semester even more successful," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [17] Workshop, "دور المعلم في عملية التعليم المتمركز حول الطالب," QU-OFID, Doha, Qatar. (2017).
- [18] Workshop, "ورشة عمل: التأكد من صدق الاختبارات وثباتها والاستفادة من البيانات في تحسين الأداء," QU-OFID, Doha, Qatar. (2017).
- [19] Workshop, "Engaging the disengaged-Challenges and Hopes," Qatar University-Office of Faculty and Instructional Development (OFID), Doha, Qatar. (2017).
- [20] Seminar, "Social Networking for Educational Purposes: A Qatar/Australia Comparative Study," Office of Faculty and Instructional Development, Doha, Qatar. (2016).
- [21] Seminar, "Teaching First-Year Students (and Courses) Effectively," Office of Faculty and Instructional Development, Doha, Qatar. (2016).
- [22] Seminar, "Lynda.com and Using Kahoots as a Teaching and Learning Tool," QU-OFID:Organized in collaboration with the College of Business and Economics, Innovative Teaching Task Forc, Doha, Qatar. (2016).
- [23] Workshop, "The Scholarship of Undergraduate/Graduate Degree Program Reform and Curriculum Renewal in Research-intensive University Contexts: Strategic Curricular and Pedagogical Implications-Part 1," QU-OFID, Doha, Qatar. (2016).
- [24] Workshop, "World café," OFID:Organized in collaboration with the College of Business and Economics, Innovative Teaching Task Force, Doha, Qatar. (2016).
- [25] Workshop, "التدريب على استخدام نظام التقييم الإلكتروني لمخرجات التعلم," QU-OFID, Doha, Qatar. (2016).
- [26] Workshop, "Enhancing Web Presence for Faculty," OFID, Doha, Qatar. (2015).
- [27] Workshop, "Introduction to Publication in Academic Journals," OFID, d, Qatar. (2015).
- [28] Workshop, "Improving students interaction in class using Clickers Technology through Mobile/Tablet devices" OFID, Doha, Qatar. (November 16, 2015).
- [29] Workshop, "Hands On Training: The Online Assessment Management System," OFID, Doha, Qatar. (2015).
- [30] Workshop, "Guide to Scientific Writing: Research Manuscripts & Review Articles," Department of Chemistry and Earth Science, Doha, Qatar. (2015).
- [31] Workshop, "Blackboard 9.1-Assignments & Safe Assign," Office of Faculty and Instructional Development, Doha, Qatar. (2015).
- [32] Workshop, "First-year focus faculty professional-development day," Office of Faculty and Instructional Development, Doha, Qatar. (2015).
- [33] Workshop, "Developing Institutional Leadership for the Scholarship of teaching and Learning," Office of Faculty and Instructional Development, Doha, Qatar. (2015).

Honors and Prizes

- [1] Editorial Board: Science Publishing Group, Cancer Research Journal (ISSN: 2330-8192 (Print) ISSN: 2330-8214 (Online) (2012-2016).
- [2] Expert reviewer for the journals related to the fields of medicinal chemistry and rational drug design, Bentham Science Publisher (BSP) (2012 to date).
- [3] Appointed by the Prime ministry as a board member, Higher Education Accreditation Commission of Academic Institutions-Jordan (2011-2014)
- [4] Chairman, Institutional Review Board (IRB), The Hashemite University, Zarqa-Jordan (2011-2014).
- [5] Editor: ISRN Inorganic Chemistry, International Scholarly Research Network.
- [6] Advisory Board, International Union of Advanced Materials (IUAM), (2012-2016)
- [7] DFG-Fellow, 2011, Technical University of Munich, Technische Universität München, WACKER-Lehrstuhl für Makromolekulare Chemie, München-Germany.
- [8] Seniority in both promotion to associated professor and full professor at The Hashemite University.
- [9] Academic Keys Who's Who in Sciences Higher Education (WWSHE).
- [10] SCOPUS (ELSEVIER) award" Recognition for contribution to Science", Jordan, 2009.
- [11] Editor, Metal-Based Drugs (MBD), Journal in medicinal inorganic chemistry, Hindawi Publishing Corporation, USA.
- [12] Editor-in-Chief, Review Book "Well-Defined Metal Complexes-Catalyzed Polar Polymer Synthesis, Research Signpost publisher.
- [13] DAAD-Research Fellowship, 2003, Universität Ulm, Ulm-Germany
- [14] The Hashemite University Distinguished Professor Award.
- [15] The Hisham Hijjawi Award for Applied Sciences in the Field of Industry and Energy for the year 2002.
- [16] Neste Company research fellowship, Helsinki, 1999-2000.
- [17] Magnus Ehrnrooth foundation award in Science, 1999 Finland.
- [18] International Center for Mobility (CIMO) grant, Finland, 1999.
- [19] DOCENTSHIP: June, 1999, University of Helsinki, department of chemistry, Helsinki-Finland.
- [20] Prize of the Association of German Metal Industry (Verband der Metallindustrie e.V.) for young scientists, Baden-Württemberg, Germany, 1997.
- [21] BASF research fellowship 1997, Germany.
- [22] Ph.D. in Chemistry with the uppermost honor degree (summa cum laude), Ulm University, Ulm-Germany.
- [23] DAAD- Prize for the year 1996, Ulm-Germany.
- [24] Ph.D. Scholarship from German Academic Exchange service (DAAD), (1994-1997) Germany.
- [25] Scholarship from the University of Jordan during the study for M.Sc.

Languages

Reading and writing skills: Arabic, English, German

Interests

Family Vacations

Sports: Football and swimming

Reading: History and Poetry books

Travelling & listening to classical music

Refs

Adnan S. Abu-Surrah