**Curriculum Vitae**

**Personal:**

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**Nationality: German**

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**Key Qualification:**

* **More than 20 years experiences in Teaching and Research in international Universities and Research Center.**
* **2 years Postdoctoral Experience at University of California, Los Angeles (UCLA), USA**
* **Familiar with the German as well as the USA educational system, from first-hand experience.**
* **Three Patents on Anticancer Agents and one on Antidepressant.**
* **Many Publications in International Journals.**
* **Many Research for the Chemical Industries.**

**Education and Postdoctoral Research:**

**1997-1999: Postdoctoral Research, University of California, Los Angeles, USA synthesis of anticancer agents (marine natural products).**

**1991: Ph.D. in Organic Chemistry, University of Hannover, Germany, synthesis of neuroleptic compounds.**

**1988: Diploma thesis (M.Sc.) in Organic Chemistry, University of Hannover, Germany.**

**1988: Diploma in Chemistry, University of Hannover, Germany.**

**1981: Abitur (German university entrance qualification), College of the University**

**of Hannover, Germany.**

**Academic Background:**

**1988-1991: Teaching Assistant, Hannover University, Germany.**

**1991-1996: Dr. rer. nat. (equivalent of Assistant Professor in USA), Hannover**

**University, Germany.**

**1997-1999: Staff research associate, Department of Chemistry and Biochemistry,**

**University of California, Los Angeles, USA.**

**1999-2001: Senior Scientist, German Research Centre for Biotechnology, Division**

**Natural Product , Braunschweig, Germany**

**2001-2005: Assistant Professor, King Saud University, Riyadh, Saudi Arabia.**

**2005-2010: Associate Professor, King Saud University, Riyadh, Saudi Arabia.**

**2010-present: Professor, King Saud University, Riyadh, Saudi Arabia.**

**Languages:**

**Arabic, English, German speaking, reading and writing competence.**

**Awards:**

* **Research fellowship, Friedrich Ebert foundation (Germany), 1990-1991.**
* **Scholarship, Friedrich Ebert foundation (Germany), 1986-1988**

**Books translation:**

* **Hassan Alhazmi, Usama Karama, Process Development-Fine Chemicals from Grams to Kilograms, Oxford University press, New York, 2004 King Saud University, 2007.**
* **Hassan Alhazmi, UsamaKarama, Core Carbonyl Chemistry, Oxford University press, New York 1997, King Saud University, 2008.**

**Patents and Publications:**

**Patents:**

* **Gerhard Hoefle, Usama Karama, Pharmaceutically Active Macrocycles, United Kingdom Patent Application GB 2367553, 2002.**
* **Gerhard Hoefle, Usama Karama, Process for the production of epothilones, European Patent, EP 1564217 B1, 2006.**
* **Gerhard Hoefle, Usama Karama, Degradation of Epothilones and Ethynyl substituted Epothilones, united States Patent, US 7,157,595 B2, 2007.**
* **Usama Karama, Mujeeb Sultan, Abdulrahman Almansour and Kamal El Tahir, Antidepressant Compounds, US 9125866 B1, 2015.**
* **Usama Karama, Mujeeb Sultan, Abdulrahman Almansour and Kamal El Tahir, Yasser Elnakady and Talal Mohaya, Halogenated Tetracyclic Compounds, US 9,498,460 B1, 2016**

**Publications**

* **Synthesis of Homobenzoctamine and Homomaprotiline, U. Karama, H. Hoffmann Chemische Berichte, 1992, 125, 2809-2812.**
* **Synthesis of 9,10-Dihydro-9,10-propanoanthracene-12-ones Substituted at Bridgehead, H.Hoffmann, U. Karama, Chemische Berichte, 1992, 125, 2803-2807.**
* **Identification of Constituents from Organs of Egyptian Mummies, H. Khalaf, U. Karama, A. Hollerbach, M. Techner, Naturwissenschaften, 1995, 82, 474-476.**
* **Methane Emission from Livestock, E. Malt, U Karama, H. Khalaf, Egyptian Journal of Nutrition and Feeds, 1999, 2, 839-845.**
* **Higly Diastereoselective Markovnikov Hydration of 3,4-Dialkoxy-2-alkenes via a Hydroboration-Oxidation Process, M. Jung, U. Karama,Tetrahedron Letters, 1999, 45, 7907-7910.**
* **Conversion of Homoallylic Alcohol with Alkene Protection to the corresponding Methyl Ketones, M. Jung, U. Karama, R. Marquez, Journal of Organic Chemistry, 1999, 64, 663-665.**
* **Chemistry of Bioactive Compounds from Microorganisms, G. Hoefle and U. Karama, Scientific Annual Report 2000, 101-104.**
* **Chemistry of Bioactive Compounds from Microorganisms, G. Hoefle and U. Karama, Scientific Annual Report 2001, 102-105.**
* **Synthesis of Epothilone 16, 17-Alkyne Analogs by Replacement of the C13-C15(O)-Ring Segment of Natural Epothilone. G. Hoefle and U. Karama, European Journal of Organic Chemistry, 2003, 1042-1049.**
* **Semisynthesis and degradation of the tubulin inhibitor epothilone and tubulysin, G. Hoefle, N. Glaser, T. Leibold, U. Karama, F. Sasse, H. Steinmetz, Pure Appl. Chem, 2003,75, 167-178.**
* **Stereoselective Synthesis of (E)-α-Bromo-α,β-unsaturated esters.Usama Karama.Journal of Saudi Chemical Society, 2003, 157-160.**
* **Synthesis of Trisubstituted Double Bonds By Tandem Halogenation-Wittig Olefination ,Usama Karama Journal of Saudi Chemical Society, 2004, 155-158.**
* **Efficient One-Pot synthesis of Z-α-Iodo-α-β-Unsaturated Esters, Usama Karama, Journal of Saudi Chemical Socity, 2008, 12,137-140 .**
* **One-Pot synthesis of *E*-α-Chloro-α-β-Unsaturated Esters, Usama Karama , Journal of Chemical Research, 2009,7,405-406.**
* **One-Pot Approach to the conversion of Alcohols into -α-Iodo-α-β-unsaturated esters, Usama Karama, Synthetic Communication, 2010, 40, 3447-3451.**
* **Synthesis of Bishomobenzoctamine 2-(9,10-dihydro-9,10-propanoanthracen-9-yl)-N-methylethanamine, Usama Karama, Adel AL-Saidey, Abdel Rahman Almansour, Journal of Chemical Research, 2010, 241-242.**
* **A Facile One-Pot Synthesis of α-Bromo-α-β-unsaturated esters, Usama Karama, Zeid AL-Othman, Abdullah AL-Majid and Abdulrahman Almansour,molecules, 2010,15,3276-3280.**
* **Synthesis of 2-(9,10-dihydro-9,10-propanoanthracen-9-yl)-N-methylethanamine via a [4+2] Cycloaddition, Usama Karama, Adel AL-Saidey, Zeid AL-Othman , Abdel Rahman Almansour, molecules, 2010,15,4201-4206**
* **New aqua rhenium oxocomplex, synthesis, characterization, thermal studies, DFT calculations and catalytic oxidations, Refat Mahfouz, Eida AL-Frag, M. Rafiq H. Siddiqui, Waed Z. Al-Kiali, U. Karama, Arabien Journal of chemistry, 2011, 4, 119-124.**
* **9-(Pent-4-enyl)anthracene, Natarajan Arumugam, Abdulrahman Almansour, UsamaKarama, MohdRosli and Ibrahim Razak, Acta Cryst. 2011, E67, 02251.**
* **(2RS,3SR,10SR,11RS)-3,10-Diphenoxy-18,21-dioxa-5,8-diazapentacyclo-[20.4.0.0.0]hexacosa-19260,12,14,16,22,24-hxaene-4,9-dioneethyl acetate hemisolvate, J. Suresh, Natarajan Arumugam, Abdulrahman Almansour, Usama Karama and p. Lakshman , Acta Cryst. 2011, E67, 02203.**
* **Synthesis, spectroscopic Characterization and catalytic significance of palladium (II)complexes derived from 1,1bis(diphenylphosphinomethyl)ethane, Ismail Warad, Mohammad Azam, Usama Karama, Saud Al-Resayes, Ahmed Aouissi, Belkheir Hammouti, Journal of Molecular Structure, 2011, 107-112.**
* **11-hydroxy-9-(prop-2-en-1-yl)-9,10-dihydro-9,10-propanoanthracen-12-one, UsamaKarama, abdulrahmanAlmansour, Natarajan Arumugam, Ibrahim Abdul Razak and Suhana Arshad, Acta Cryst. 2011, E67, 02487.**
* **Computional and Spectral Investigation of 5,12-Dhydro-5,12-ethanonaphthacene-13-carbaldehyde, Usama Karama, Adel El-Azhry, abdulrahmanAlmansour, Abdulla Al-Kahtani, Turki Al-Turki and Mohammed Jaafar, Molecules, 2011, 16, 6746-6746.**
* **simple and Eficient One Step Synthesis of Functionalized Flavanones and Chalcones, Abdullah Albogami, Usama karama, Ahmed Mousa, M. Khan, Sara Almazroa and Hamad Alkhathlan, Oriental Journal of Chemistry, 2012, 28, 619-626.**
* **An efficient synthesis of highly functionalized novel chromeno[4,3-b]pyrroles and indolizino[6,7-b] indoles as potent antimicrobial and antioxidant agents, Natarajan Arumugam, RaghavacharyRaghunathan, Abdulrahman I. Almansour, Usama Karama, Biorg. Med. Chem. Lett. , 2012, 22, 1375-1379.**
* **A facile one–pot synthesis of (*Z*)-α–chloro-α,β-unsaturated esters from alcohols U. Karama, H. Alshamari, H. Abdelall, and M. Sultan , Arabian Journal of Chemistry, Available on line 2013.**
* [**Synthesis of 9,10-dihydro-9-(4-methylaminobutyl)-9, 10-propanoanthracene] using Diels–Alder cycloaddition**](http://www.sciencedirect.com/science/article/pii/S1319610313000343)**, Adel Al-Saeedi, Usama Karama, Mazahar Farooqui, Journal of Saudi Chemical Society, Available online 4 April 2013**
* **Synthesis of [9,10-Dihydro-9-(2-methylaminoethyl)-,10propanoanthracene], Al-Saeedi Adel, Karama Usama, Farooqui Mazahar, Asian Journal of Research In Chemistry, 2013, 5, 12, 1460-1463**
* **One-pot combination of the Wittig olefination with bromination, oxidation reaction, Usama Karama, Refat Mahfouz,Zeid AL-Othman, Ismail Warad, and Abdulrahman Almansour, Synthetic Communication, 2013, 43, 893-898.**
* **Crystal structure of 4,5-dichloro-anthracen-9(10H)-one, Usama Karama, Mogeeb A. Sultan, Hazem A. Ghabour, Hoong K. Fun and Ismail Kh.Warad, Z. Kristallogr. NCS 20013, 228, 405-406.**
* **An Expedient Regio- and Diastereoselective Synthesis of Hybrid Frameworks with Embedded Spiro[9,10]dihydroanthracene [9,3']-pyrrolidine and Spiro[oxindole-3,2'-pyrrolidine] Motifs via an Ionic Liquid-Mediated Multicomponent Reaction,** [**Natarajan Arumugam**](http://www.pubfacts.com/author/Natarajan+Arumugam)**,** [**Abdulrahman I Almansour**](http://www.pubfacts.com/author/Abdulrahman+I+Almansour)**,** [**Raju Suresh Kumar**](http://www.pubfacts.com/author/Raju+Suresh+Kumar)**,** [**J Carlos Menéndez**](http://www.pubfacts.com/author/J+Carlos+Menéndez)**,** [**Mujeeb A Sultan**](http://www.pubfacts.com/author/Mujeeb+A+Sultan)**,** [**Usama Karama**](http://www.pubfacts.com/author/Usama+Karama)**,** [**Hazem A Ghabbour**](http://www.pubfacts.com/author/Hazem+A+Ghabbour)**,** [**Hoong-Kun Fun**](http://www.pubfacts.com/author/Hoong-Kun+Fun)**, Molecules 2015, 20(9), 16142-53.**
* **Synthesis of Chlorinated Tetracyclic Compounds and Testing forTheir Potential Antidepressant Effect in Mice, Usama Karama , Mujeeb A. Sultan 1, Abdulrahman I. Almansour and Kamal Eldin El-Taher, Molecules 2016, 21(1), 61-67.**
* **Mujeeb A. Sultan, Usama Karama, Abdulrahman I. Almansour, Saied M. Soliman. Theoretical Study on Regioselectivity of the Diels-Alder Reaction between 1,8-Dichloroanthracene and Acrolein. Molecules. 2016 Sep 23;21(10). pii: E1277. doi: 10.3390/molecules21101277.**
* **Mujeeb A. Sultan and Usama Karama. Substituent Effects on Regioselectivity of the Diels-Alder Reactions: Reactions of 10-Allyl-1,8-dichloroanthracene with 2-Chloroacrylonitrile, 1-Cyanovinyl Acetate and Phenyl Vinyl Sulfone. Journal of Chemistry. Volume 2016 (2016), Article ID 3943060,** [**http://dx.doi.org/10.1155/2016/3943060**](http://dx.doi.org/10.1155/2016/3943060)**.**
* **Mujeeb A. Sultan, Hana'a M. Al-Shamari, Hoda Abdelall, Abdulrahman I. Almansour and Usama Karama. Tandem Chlorination - Oxidation - Wittig reactions: An Efficient Approach to (*Z*)-α-chloro-α,β-unsaturated esters. Journal of the Chemical Society of Pakistan. Accepted 02-09-2016.**
* **Mujeeb A. Sultan, Usama Karma, Abdulrahman I. Almansour, Adel Al-Saeedi, Hazem Ghabbour. “Crystal structure of 9-allyl-4,5-dichloro-12-cyano-9,10-dihydro-9,10-ethanoanthracen-12-yl acetate, C22H17Cl2NO2”. Z. Kristallogr. NCS 2016; 231(3): 801–803**
* Usama Karama, Mujeeb A. Sultan, Abdulrahman I. Almansour and Kamal Eldin El-Taher, “Synthesis of chlorinated tetracyclic compounds and testing for their potential antidepressant effect in mice” Molecules. 2016 Jan 5;21(1). pii: E61
* **Natarajan Arumugam, Abdulrahman I. Almansour, Raju Suresh Kumar,J. Carlos Menéndez, Mujeeb A. Sultan, Usama Karama, Hazem A. Ghabbour   
  and Hoong-Kun Fun. "An Expedient Regio- and Diastereoselective Synthesis of Hybrid Frameworks with Embedded Spiro[9,10]dihydroanthracene [9,3′]-pyrrolidine and Spiro[oxindole-3,2′-pyrrolidine] Motifs via an Ionic Liquid-mediated Multicomponent Reaction" Molecules, 2015, Vol. 20, p. 16142-16153.**
* **U. Karama, M. A. Sultan, H. A. Ghabour, H. K. Fun, and I. K. Warad. "Crystal structure of 4, 5-dichloro-anthracen-9 (10H)-one, C14H8Cl2O" Zeitschrift für Kristallographie - New Crystal Structures, 2013*,* Vol. 228 (3), p. 405-406.**
* **U. Karama, H. Alshamari, H. Abdelall, M. Sultan. "A facile one-pot synthesis of (Z)-a-chloro-a,b-unsaturated esters from alcohols" Arabian Journal of Chemistry, available online May 2013.**
* **Usama Karama, Mujeeb A. Sultan, Abdulrahman I. Almansour, Yasser Elnakady. Synthesis and Anti-Proliferative Activitiy of Novel Chlorinated Normaprotiline”. Monatshefte für Chemie - Chemical Monthly (under reveiw)**

**Papers and presentation at conferences and seminars:**

* **Novel Side Chain modified Epothilone, Algaue, Germany, 2001**
* **Mummies and Computers, science seminar, Hannover, Germany, 1996.**
* **Hazardousness of Dioxine, Ecology study seminar, Sehnde, Germany. 1993.**
* **Antidepressant Compounds, Annual Conference of Chemistry Department, Hannover, Germany, 1991**

**Research for chemical industries:**

* **Quantitative determination of Nonivamide in plaster, Chem Tech company, Wedemark, Germany, 1994.**
* **Research about insitue manufacture of Chlorine dioxide, Chem Tech Company, Wedemark, Germany, 1994.**
* **Research about degradation of organic pollutants in waste water, was carried out on request of Water Institute in Hannover, 1993**
* **Research for Asaka company, Japan, to remove PCB for polluted land, 1992**

**Contribution to international meetings and scientific visits to industrial facilities:**

* **American Chemical Society, March 21-25, 1999, Anaheim, California, USA.**
* **Visit to BASF company, 1996, Frankfurt, Germany.**
* **Visit to Sichel Company, 1995, Hannover, Germany.**
* **Bayer AG Company for pharmaceuticals, 1993, Leverkusen, Germany.**
* **Visit to Riedel de Haën Company, 1992, Seelze, Germany.**
* **Environmental protection meeting, 1992, Göttingen, Germany.**
* **Young German chemists meeting, 1988, Göttingen, Germany**

**Social Activities and Committee Memberships:**

* **Member of the Accreditation Committee of the Chemistry Department, King Saud University.**
* **Board member of German School-Riyadh.**
* **Environmental consultant, Kyrochem company-Wedemark-Germany.**

**Teaching Commitments:**

* **Teaching experimental organic chemistry.**
* **Teaching undergraduate and graduate students.**

**Topics:**

* **Fundamental of organic chemistry.**
* **Synthesis**
* **Chemistry of Natural Products.**
* **Stereochemistry.**
* **Organometallic Compounds.**
* **Spectroscopy**

**Research Interests:**

* **Synthesis of biological active natural products.**

**References:**

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