Personal Information

Zayed Al-Hamamre

Place of Birth Nationality Material Status Bait Ras-Irbid-Jordan Jordanian Married



Current Address			
	University of Jordan,		
	Faculty of Engineering and Technology Chemical Engineering Department		
	11942 Amman	an	
	Jordan		
	E-mail: z.haman	nre@ju.edu.jo	
	Tel. No.: +962 (0)6 53 55 000- 22888	
Education	1984 - 1994	Bait Ras Primary School (Biat Ras-Jordan)	
	1994 - 1995	Zaid Ben Al-Kattab Secondary School (Irbid-Jordan)	
	1995	Tawjehei: The general secondary education certificate examination (scientific stream), percentage Average of 94.0 Rating excellent	
	1995 - 2000	Studying at The Jordan University of Science and Technology at the Chemical Engineering Deparment, Irbid-Jordan,	
	Joune 2000	B.Sc. in Chemical engineering, cumulative average of 83.4/100, rating very good.	
	April 2001 – May 2003	Studying at Friedrich-Alexander-University Erlangen- Nuremberg, Chemical Engineering Department	
	May 2003	M.Sc. in Chemical Engineering, cumulative average of 1.4/1, rating excllent (the master thesis was awarded in 2005 by the first DVGW prize)	
	May 2003 – June 2006	Doctoral student at Friedrich-Alexander-University Erlangen-Nuremberg University, The Fluid Mechanics Institute, Chemical and Bio Engineering department	

	July 2006 - Dec. 2008	Continue the doctoral study and research assistant at TU- Bergakademie Freiberg (Institute of heat technology and Thermodynamic/Chair of Gas and Heat Technology)	
	March 2008	PhD in Chemical Engineering/specialization in thermodynamic and reaction engineering.	
Practical Experience	Sept. 2013	The head of the chemical Engineering Department/ The university of Jordan	
	April 20013	Associate prof. at the chemical Engineering department/ the University of Jordan	
	Sept. 2009- Sept. 2011	The head of the chemical Engineering Department/ The university of Jordan	
	Sept. 2008-April 2013	Assistant prof. at the chemical Engineering department/ the University of Jordan	
	June 2008- Aug. 2008	Part time lecturers at the German Jordanian University, Amman-Jordan	
	Courses that I teach:		
	Thermodynamics, Chem Reaction Engineering, C Energy, Fuel Cells: funda Chemical Engineering, C	ical Reaction Engineering (1 and 2), Advance chemical hemical Engineering Principles (1 and 2), Fuel and amental and Applications, Mathematical Methods for General Safety Principles, Occupational Safety	
Awards	DFG research scholarship for the year 2009, Germany		
	The DVGW (Deutsch Ve award, 2005	reinigung des Gas und Wasserfaches, Leipzig-Germany)	
Performed Projects	The DVGW (Deutsch Ve award, 2005 – Development of a b Erlangen-Nuremberg	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department)	
Performed Projects	 The DVGW (Deutsch Ve award, 2005 Development of a b Erlangen-Nuremberg Development of a bu applications (Friedric Engineering Departm) 	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department) urner for the combustion of low caloric gas for fuel cell ch-Alexander-University Erlangen-Nuremberg, Chemical ent).	
Performed Projects	 The DVGW (Deutsch Ve award, 2005 Development of a be Erlangen-Nuremberg Development of a be applications (Friedrice Engineering Departm) Development of a methatic http://www.flamesofc. Nuremberg, Chemice Freiberg), <i>Project sup</i> 	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department) urner for the combustion of low caloric gas for fuel cell ch-Alexander-University Erlangen-Nuremberg, Chemical ent). nulti-fuel reformer for solid oxide fuel cell (FlameSOFC: org/public/) (Friedrich-Alexander-University Erlangen- cal Engineering Department and TU- Bergakademie oported through the 6th framework programme of the EU.	
Performed Projects	 The DVGW (Deutsch Ve award, 2005 Development of a be Erlangen-Nuremberg Development of a be applications (Friedrid Engineering Departm) Development of a methatic http://www.flamesofc. Nuremberg, Chemic Freiberg), <i>Project sup</i> Biodiesel: An Alternational Content of the second se	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department) urner for the combustion of low caloric gas for fuel cell ch-Alexander-University Erlangen-Nuremberg, Chemical ent). nulti-fuel reformer for solid oxide fuel cell (FlameSOFC: org/public/) (Friedrich-Alexander-University Erlangen- cal Engineering Department and TU- Bergakademie ported through the 6th framework programme of the EU.	
Performed Projects	 The DVGW (Deutsch Ve award, 2005 Development of a b Erlangen-Nuremberg Development of a bia applications (Friedric Engineering Departm) Development of a m <u>http://www.flamesofc.</u> Nuremberg, Chemic Freiberg), <i>Project sup</i> Biodiesel: An Alternational Studying the possibili heating devices utilizing 	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department) urner for the combustion of low caloric gas for fuel cell ch-Alexander-University Erlangen-Nuremberg, Chemical ent). nulti-fuel reformer for solid oxide fuel cell (FlameSOFC: org/public/) (Friedrich-Alexander-University Erlangen- cal Engineering Department and TU- Bergakademie oported through the 6th framework programme of the EU.	
Performed Projects	 The DVGW (Deutsch Ve award, 2005 Development of a bierlangen-Nuremberg Development of a bierlapplications (Friedrick Engineering Departm) Development of a ministry (Nuremberg, Chemick Freiberg), Project supplications Biodiesel: An Alternational Studying the possibiling devices utilizition Deployment and Inversion 	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department) urner for the combustion of low caloric gas for fuel cell ch-Alexander-University Erlangen-Nuremberg, Chemical ent). nulti-fuel reformer for solid oxide fuel cell (FlameSOFC: org/public/) (Friedrich-Alexander-University Erlangen- cal Engineering Department and TU- Bergakademie oported through the 6th framework programme of the EU.	
Performed Projects	 The DVGW (Deutsch Ve award, 2005 Development of a bierlangen-Nuremberg Development of a bierlapplications (Friedrice Engineering Departm) Development of a ministry (Nuremberg, Chemice Freiberg), Project supplications Biodiesel: An Alternational Studying the possibilic heating devices utilizities Deployment and Inverse Investigation of the Communication (Development of the Communication) 	reinigung des Gas und Wasserfaches, Leipzig-Germany) urner for sterling engine (Friedrich-Alexander-University , Chemical Engineering Department) urner for the combustion of low caloric gas for fuel cell ch-Alexander-University Erlangen-Nuremberg, Chemical ent). nulti-fuel reformer for solid oxide fuel cell (FlameSOFC: org/public/) (Friedrich-Alexander-University Erlangen- cal Engineering Department and TU- Bergakademie ported through the 6th framework programme of the EU. tive Fuel for Household Appliances ity of Enhancing heat transfer in gaseous fuel household ng volumetric combustion in porous materials stigation of Solar Cooling System in Jordan ool Flame behavior of Jojoba oil	

Refereeing	Journals – IChemE's journals, – Chemical Engineering Research – Design Process Safety and Environmental Protection – Food and Bioproducts Processing	
Industrial Training	June 1999 – September 1999 Training at Jordan Petroleum refining company, Jordan-Zarca, Operational Chemical Engineer May, 2002 – August, 2002 Training at Framatome-Siemens, Erlangen Germany.	
Computer Experiences	 MS Office CHEMKIN CAD Solid Work 	
Language Ability	 Arabic: Mother Language English: Excellent in writing and speaking German: good 	
Publication List	 Conferences Z. Al-Hamamre, D. Trimis, K. Wawrzinek (2003), Thermal partial oxidat of methane in porous burners for hydrogen production, 7th Internatio Conference on Technologies and Combustion for a Clean Environm (Clean Air VII), Lisbon, Portugal, July 2003. Z. Al-Hamamre, K. Wawrzinek, D. Trimis, S. Diezinger, (2001) 	
	Wasserstoffproduktion durch thermische partielle Oxidation von Methan im Porenbrenner, VDI-GET Verbrennung und Feuerungen - 21. Deutscher Flammentag, Cottbus, September 2003.	
	 Z. Al-Hamamre, D. Trimis, K. Wawrzinek (2003), Hydrogen production by thermal partial oxidation of methane in a porous burner, 3rd European Conference on Small Burner and Heating Technology ECSBT3, Aachen, September 2003. 	
	 S. Diezinger, Z. Al-Hamamre, F. von Issendorff, D. Trimis (2004), Reforming of diesel by thermal partial oxidation in a reactor based on porous burner technology, Fuel Cells Science & Technology, München, Oktober 2004. 	
	 Z. Al-Hamamre, S. Diezinger, P.Talukdar, F. von Issendorff, D. Trimis (2005), Combustion of Low Calorific Gases from Landfills and Waste Pyrolysis Using Porous Medium Burner Technology, WasteEng 05, Albi (France), Mai 2005. 	
	6. Z. AL-Hamamre, S. Diezinger, A. Mach, F. von Issendorff, D. Trimis (2005), Thermal partial oxidation of diesel in porous reactors for synthesis gas	

production, 8th International Conference on Technologies and Combustion for a Clean Environment (Clean Air VIII), Lisbon, Portugal, Juni 2005.

- S. Diezinger, Z. Al-Hamamre. M. Steven, J. Schäfer, B. Vogel, D. zur Megede, F. von Issendorff, D. Trimis (2005), Theoretical and experimental investigations of the combustion of hydrogen and hydrogen rich mixtures in inert porous burners, 8th International Conference on Technologies and Combustion for a Clean Environment (Clean Air VIII), Lisbon, Portugal, Juni 2005.
- Z. AL-Hamamre, A. Mach, S. Diezinger, F. von Issendorff, D. Trimis (2005), Thermal Partial Oxidation of Diesel in A porous Burner Based Refromer, 6th HiTACG Symposium, Essen, Germany, October 2005.
- Z. Al-Hamamre, S. Voß, D. Trimis, Detailed Experimental and Numerical Investigation of the Partial Oxidation of Methane in a Porous Reactor, Proceedings of the European Combustion Meeting 2007, Chania, Crete, Greece, 2007
- Z. Al-Hamamre, S. Voß, A. Al-Zoubi, D. Trimis, Experimental and Numerical Investigation of the Partial Oxidation of Methane in a Porous Reactor, 9th Conference on Energy for a Clean Environment, Lisbon, Portugal, July 2007.
- O. van Rheinberg, J. vom Schloss, K. Lucka, H. Köhne, Z. Al-Hamamre, D.Trimis, Develpment of a Cool Flame Evaporator and TPOX Reformer for the use in a SOFC- System, 9th Conference on Energy for a Clean Environment, Lisbon, Portugal, July 2007.
- Z. Al-Hamamre, S. Voß, A. Al-Zoubi, D. Trimis, Detailed Investigation of the Partial Oxidation of Methane in a Porous Reactor for Synthesis Gas Production: Experimental and Numerical Study, 23ed Deutscher Flammentag, Berlin, September 2007.
- Z. Al-Hamamre, Thermodynamic and Kinetic Analysis of Syngas Production from Ethanol Thermal Partial Oxidation, 2009 AIChE Spring National Meeting, Tampa, FL. USA, April 2009
- Fawaz K. Sweis, Ali Matar, Yousef Mubarak and Zayed Al Hamamre, Regulating the safety issue at the University of Jordan, 2nd International Chemical Engineering Conference, 12-13 October 2010, University of Jordan, Amman, Jordan

Journals

 Z. Al-Hamamre, S. Diezinger, P.Talukdar, F. von Issendorff, D. Trimis (2005), Combustion of Low Calorific Gases from Landfills and Waste Pyrolysis Using Porous Medium Burner Technology, Process Safety and Environmental Protection, 84(B4): 1–12, Trans IChemE, Part B, July 2006.

- 2. Z. Al-Hamamre, S. Diezinger, A. Mach, F. v. Issendorff, D. Trimis, Thermal partial oxidation of diesel in porous reactors for synthesis gas production, Clean Air 7 (4), pp. 391 407, 2006
- Z. Al-Hamamre, S. Voß, D. Trimis, Characterisation of the emissions behaviour and combustion stability in porous media burner by using low and medium calorific value gases [Charakterisierung des Emissionsverhaltens und der Verbrennungsstabilität von Schwach-und Mittelgasen in Porenbrennern], Gaswaerme International 56 (3), pp. 200-204, 2007
- G. Vourliotakis, G. Skevis, M.A. Founti, Z. Al-Hamamre, D. Trimis, Detailed kinetic modelling of the T-POX reforming process using a reactor network approach, International Journal of Hydrogen Energy, Volume 33, Issue 11, Pages 2816-2825, June 2008.
- 5. Z. Al-Hamamre, S. Voß, D. Trimis, Hydrogen Production by Thermal Partial Oxidation of Hydrocarbon Fuels in Porous Media Based Reformer, International Journal of Hydrogen Energy, 2009, 34: 827-823.
- Z. Al-Hamamre, D. Trimis, Investigation of the intermediate oxidation regime of Diesel fuel, combustion and flame, Volume 156, Issue 9, September 2009, Pages 1791-1798.
- Z. Al-Hamamre; A. Al-Zoubi; D. Trimis, Numerical investigation of the partial oxidation process in porous media based reformer, Combustion Theory and Modelling, Vol. 14, No. 1, 2010, 91–103
- Z. Al-Hamamre, A. Al-Zoubi, The Use of Inert Porous Media Based Reactors for Hydrogen Production, International Journal of Hydrogen Energy 35: 2010; 1971–1986
- M. R. Abdelkader, A. Al-Salaymeh, Z. Al-Hamamre, Firas Sharaf, A comparative Analysis of the Performance of Monocrystallinea nd Multiycrystalline PV Cells in Semi Arid Climate Conditions: the Case of Jordan, 4(5),2010: 543- 552
- A. Al-Salaymeh a, Z. Al-Hamamre, F. Sharaf, M.R. Abdelkader, Technical and economical assessment of the utilization of photovoltaic systems in residential buildings: The case of Jordan, Energy Conversion and Management, 51 (2010) 1719–1726
- Z. Al-Hamamre, M. A. Hararah, Hydrogen Production by Thermal Partial Oxidation of Ethanol: Thermodynamics and Kinetics Study, International Journal of Hydrogen Energy, 35(2010) 5367-5377.
- Zayed Al-Hamamre, Sascha Foerster, Franziska Hartmann, Michael Kröger Martin Kaltschmit, Oil extracted from spent coffee grounds as a renewable source for fatty acid methyl ester manufacturing, Fuel 96 (2012) 70–76
- Menwer Attarakih, Tamadur Albaraghthi, Mazen Abu-Khader, Zayed Al-Hamamre and Hans-Jorg Bart, Mathematical Modeling of High- Pressure Oil-Splitting Reactor using a Reduced Population Balance Model, Chemical Engineering Science, 84 (2012) 276–291

- A. Fasfous, J. Asfar, A. Al-Salaymeh, A. Sakhrieh, Z. Al_hamamre c, A. Albawwab, M. Hamdan, Potential of utilizing solar cooling in The University of Jordan, Energy Convers Manage 65 (2013): 729-735
- Z. Al-Hamamre, Jojoba is a Possible Alternative Green Fuel for Jordan, Energy Sources, Part B: Economics, Planning, and Policy, 8(3), (2013): 217-226
- Zayed Al-Hamamre, Jehad Yamin, The Effect of Hydrogen Addition on Premixed Laminar Acetylene-Hydrogen-Air and Ethanol-Hydrogen-Air Flames, International Journal of Hydrogen Energy, (2013), 38: 7499 -7509.
- Zayed Al-Hamamre, Thermodynamic and Kinetic Analysis of the Thermal Partial Oxidation of n-Heptane for the Production of Hydrogen Rich Gas Mixtures, International Journal of Hydrogen Energy, 2013, 38 (26): 11458– 11469
- Zayed Al-Hamamre, Potential of Utilizing Olive Cake Oil for Biodiesel Manufacturing, Energy Sources Part A: Recovery Utilization and Environmental Effects, accepted
- 19. Zayed Al-Hamamre, Ali Al-Matar, fawaz sweis, khalid Rawajfeh, Assessment of the Status and Outlook of Biomass Energy in Jordan, Energy Conversion and Management, accepted
- Zayed Al-Hamamre, Khalid Rawajfeh Investigating the Energy Value of Jojoba as an Alternative Renewable Energy Source, International Journal of Green Energy, accepted

Hobbies

Reading, Travelling, Playing Chess