

RESUME

PERSONAL INFORMATION

Name: Hussein A. Kazem

(BEng, MEng, PhD, SMIEEE, MIEE, MISES)

Date & Place of Birth: 22 December 1969, Wassit-Iraq

Sex: Male

Nationality: Iraqi Citizen.

Marital Status: Married, three sons (24, 22 & 16 years old)

Current Employment:

Associate Professor in Sohar University-Oman

Visiting Member of Staff- Newcastle University-UK

Visiting Scientist- National University of Malaysia-Malaysia



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Electrical & Computer Eng. Dept.
Faculty of Engineering-Sohar University

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ACADEMIC QUALIFICATIONS

Field of Specializations:

Photovoltaic. Photovoltaic Power Systems. PV/T

Power Electronics and Power Quality.

Renewable Energy. Hybrid Renewable Energy Systems Optimization

Power Systems and Electrical Machines

Speciality: Electrical & Computer Engineering

PhD in Electrical and Computer Engineering,

Graduate School

Faculty of Science, Agriculture and Engineering

Newcastle University

Agriculture Building

Newcastle Upon Tyne

NE1 7RU United Kingdom

September 2008

Specialization: **Power Electronics**

Thesis title: Development and Analysis of Supply Side Rectifier Circuits Model under Balanced and Unbalanced Supply Conditions.

MEng in Electrical Engineering,

Electrical Engineering Department

University of Technology,

Baghdad,

Iraq,

1994.

Speciality: **Electrical Power Systems Control**

Thesis title: Sample Data AGC of Multi-Area Interconnected Reheat Thermal and Hydro Systems

BEng in Electrical Engineering,

Electrical Engineering Department

University of Technology,

Baghdad, Iraq

(71/100 first Honors Degree), 1991.

Speciality: **Electrical Power Systems**

Graduation Project title: Design of Computer Relaying

Iraqi Certificate of Education

Al-Zubaidyai Secondary School

Al-Zubaidyai, Wassit

Iraq

1987

RESEARCH SCORE & PUBLICATIONS

Notes: Impact Factor (IF) records are according to Journal Citation Report (ISI) for the year of publication or specified. "Q" means the rank of the journal (quartile) in the topic (i.e. Energy & Fuels) category where Q1 means the highest and Q4 the lowest. Excellence in Research for Australia (ERA)

Total Number of Publications: 198

- ☐ **Journals: 106**
- ☐ **International and National Conference Proceedings: 62**
- ☐ **International Seminar Proceedings: 12**
- ☐ **Technical Report: 5**
- ☐ **Book Chapters: 6**
- ☐ **Books: 7**

Researchgate

- ☐ **Total number of citations: 4161**
- ☐ **h-index: 46**
- ☐ **RG Score: 47.98**

Google Scholar

- ☐ **Total number of citations: 4204**
- ☐ **h-index: 43**
- ☐ **i10-index: 90**

SCOPUS

- ☐ **Total number of citations: 1395**
- ☐ **h-index: 22**
- ☐ **i10-index: 22**
- ☐ **ORCID: 0000-0002-5034-2485**

EMPLOYMENT HISTORY

September 2005 -Present. Associate Professor, Faculty of Engineering, Sohar University, Sohar, Sultanate of Oman.

Advanced Electronics and Power Electronics Design, Electronic Circuits, Electromechanics & Electronics, Electrical Machine & Drives, Mathematical Foundation, Fundamental of Electrical Circuits, Electrical & Electronic Circuit Analysis, Power System Analysis, Calculus and Linear Algebra, Calculus & Statistics, Project Managements, Renewable and Sustainable Energy, Renewable & Energy Managmenet; Laboratory supervision of Electronics Lab., Power Electronics Lab., Project Management Lab., Renewable Energy Lab., Electrical Lab.; and supervision of BEng and MSc projects. Involved with the following activities; contributing with seminars and scientific meetings in department and contributing with the development of the teaching strategies in the department.

September 2004 and September 2008 – PhD Candidate, School of Electrical, Electronics and Computer Engineering, Newcastle University, Newcastle upon Tyne-UK.

October 2002- August 2004, Lecturer, Faculty of Engineering, Sohar University, Sohar, Sultanate of Oman.

Taught Engineering Mathematics I & II, Advanced Electronics and Power Electronics Design, Electronic Circuits, Mathematical Foundation, Calculus and Linear Algebra, Project Managements, Laboratory supervision of Electronics Lab., Power Electronics Lab., Project Management Lab., Electrical Lab.; and supervision of BEng projects.

Involved with the following activities; contributing with seminars and scientific meetings in department and contributing with the development of the teaching strategies in the department.

September 1997- August 2002, Assistant Professor, Faculty of Engineering, Hoon, Libya.

Taught Electrical Machines, Power Electronics, Protection & Control Engineering, and Industrial Electronics; and Laboratory supervision of Machine Lab., Power Electronics Lab., Protection and Distribution Lab. and supervision of BSc projects..

Involved with the following activities; contributing with seminars and scientific meetings in department and contributing with the development of the teaching strategies in the department.

June 1996- February 1997, Assistant Lecturer, Electrical Eng. Dept, University of Technology, Baghdad, Iraq.

Work on research in Automatic Generation Control with a team from the staff members in electrical engineering department in UOT.

November 1995- February 1996, Assistant Lecturer, IT Dept., Al-Mamoon College, Baghdad, Iraq.

Taught FORTRAN language and Laboratory supervision and tutorial for 2nd year IT students.

AWARDS AND HONORS

1. Chair of Renewable Energy and Sustainable Technology Research Group RESTRG-Sohar University, Oman, 2009.
2. Visiting Member of Staff (Nov. 2010), Electrical, Electronic and Computer Engineering, Newcastle University, U.K.
3. Founder of Solar Cell & Photovoltaic Research Lab, Sohar University, Oman.
4. Visiting Scientist (May. 2013), University Kebangsaan Malaysia, Malaysia.
5. Sohar University Vice Chancellor award for Research and Industry, 2013.
6. Golden Medal Award, Pecipta'13, PECIPTA International Conference and Exposition on Invention of Institutions of Higher Education, Malaysia, 2013.
7. Tistahil Award, Majan Electricity Company, December 2013.
8. Outstanding Renewable Energy Lab Award, World Renewable Energy Congress XIII, 3 – 8th August 2014 London, United Kingdom.
9. Member of The Renewable & Sustainable Energies Research Group (RASERG), College of Engineering, Sultan Qaboos University, Muscat, Oman, 2015.
10. Senior member, Institute of Electrical and Electronics Engineers, United State of America, June 2016.
11. Renewable & Sustainable Energy Pioneer & ambassador, World Renewable Energy Congress 2016 (15th WREC), September 19 – 23, 2016 at the Jakarta, Indonesia.
12. Renewable & Sustainable Energy Pioneer & ambassador, World Renewable Energy Congress XVII, 3 – 7 December 2016, Bahrain.
13. Special Award, World Renewable Energy Congress XVIII, 30 July – 3 August 2018, London, United Kingdom.

PATENTS AND INTELLECTUAL PROPERTY

1. Copyright 2012, PV.MY software (Photovoltaic System Designing And Analyzing Software), Malaysia.
2. Copyright 2013, REPS.OM software (Photovoltaic Power System in Oman Software), Muscat-Oman, 16 April 2013, No. 2128.
3. Photovoltaic Thermal Collector with nano-PCM and Nanofluids, Patent, UKM, Kuala Lumpur, Malaysia, September 2017, UKM IKB/108/2/156.

SERVICE IN PROFESIONAL ORGANISATIONS

Member, Iraqi Engineers Union, Iraq	1991	Till 1997
Member, IEE, UK (# 80854059)	2004	Till 2006
Senior Member, IEEE, USA (# 85007858)	2004	Till now
Member, WSEAS, Grease	2006	Till now
Member, Iraqi Society for Higher Education Abroad, UK	2011	Till now
Member, International Association of Engineers (IAENG), UK	2012	Till now
Member of the Iraqi Engineering Association, UK	1991	Till now
Member, Iraq Energy Institute, UK	2012	Till now
Member, International Solar Energy Society (ISES), Germany	2016	Till 2017
Oman Society of Engineers	2018	Till now
Member of Asian Council of Science Editors	2018	Till now
London Journals Press "Quarterly Franklin Membership" (Membership ID#EB96249)	2018	Till now

EDITORS OF JOURNALS

1. Associate Editor, "International Journal of Computations in Science and Engineering Research (IJCSE)", ISSN: 2229-5518.
2. "Bonfring International Journals", ISSN: 2277-5072.
3. International Journal Advances in Power Systems (IJAPS, Algerian Association of Electrical Engineering (AAEE).
4. Optimization of Photovoltaic Power Systems, "Journal of Engineering", Hindawi Publishing Corporation, USA, (Guest Editor), ISSN: 2314-4904.
5. Associate Editor of the International Journal of Computation and Applied Science, UK, ISSN: 2399-4509.
6. Journal of Solar Energy Research Updates, ISSN: 2410-2199.

DESIGNED SOFTWARES

1. PEC - Power Electronics Circuits.
2. Reg1 - AC Voltage Regulators.
3. AGC - Automatic Generation Control.
4. REPS.OM - Renewable Energy Power System in Oman.
5. PV.MY - Photovoltaic System Designing And Analyzing Software

COMPLETED RESEARCH GRANTS

- 1- Project in title "Feasibility of Solar Energy (Photovoltaic) Systems in Oman".
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 120,000.
Duty: Principle Investigator
Year: 2011
Research Grant Agreement No. ORG SU EI 11 010.
Statues: Completed
- 2- Project in title "Design and Development of Novel Optical Amplifiers for Optical Communication Networks in Oman"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 172,000.
Duty: Co-Investigator
Year: 2011
Research Grant Agreement No. ORG SU ITC 11 02.
Statues: Completed
- 3- Project in title "Study and Design of Optimum Control System for a 12 MW Hybrid Power Plant for Masirah Island"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 82,770.
Duty: Co-Investigator
Year: 2014
Research Grant Agreement No. ORG NTC IE 13 11.
Statues: Completed
- 4- FURAP Project in title "Design and Implementation of Photovoltaic Pumping System using Centrifugal Pump and Motor for Rural Area in Oman",
The Research Council of Oman, Oman 2014.
Total Amount: US\$ 5,700.
Duty: Supervisor

Research Grant Agreement No. FURAP/C2/HK/ENGEE

Statues: Completed

- 5- Project in title “Artificial Neural Network and Genetic Algorithm modeling and optimization of 1 kW photovoltaic system”

Funding Sources: Sohar University, Oman,

Total Amount: US\$ 13,000.

Duty: Principle-Investigator

Year: 2019

Program: Sustainable Future program

Research Grant Agreement No. SUSF-2018-001

Statues: ongoing

- 6- Project in title “A hybrid Artificial neural network models for analyzing the impact of weather conditions and air pollutant deposition on solar energy system efficiency”

Funding Sources: The Research Council of Oman, Oman,

Total Amount: US\$ 39,000.

Duty: Co-Investigator

Program: Blocked Research Grand

Research Grant Agreement No. SU/BFP/RG/03.

Statues: : ongoing

INDUSTRIAL CONSULTANCIES

- 7- A consultancy in title “Harmonics and Resonance of Capacitor Banks – Musrata Steel Factory”.

Funding Sources: Musrata Steel Factory, Libya

Total Amount: N/A (part of collaboration).

Duty: Co-Investigator

Year: 2001

Statues: Completed

- 8- A consultancy in title “Harmonics and Power Quality in Distribution Network at Sohar Industrial Estate”.

Funding Sources: Majan Electricity Company, Oman

Tender No. 448/2005

Total Amount: US\$ 17,100.

Duty: Principle Investigator

Year: 2005

Statues: Completed

- 9- A consultancy in title “Harmonics Distortion and Power Quality Assessment in Gulf International Pipe Plant”.

Funding Sources: Gulf International Pipe Plant Company, Oman

Total Amount: US\$ 33,910.

Duty: Principle Investigator

Year: 2010

Statuses: Completed

10- Consultancy Project in title “MAJIS 1.3 MW Grid-Connected Photovoltaic System”

Funding Sources: MAJIS INDUSTRIAL SERVICES S.A.O.C (MAJIS), Sohar, Oman.

Total Amount: US\$ 25,740.

Duty: Principle-Investigator

Client: MAJIS INDUSTRIAL SERVICES S.A.O.C (MAJIS)

Statuses: Completed

- **Undergraduate Final Year Projects:**

- B.Sc. Graduation projects in the field of Power Electronics, Electrical Machines, Solar Energy, PV and PV/T systems. Projects supervised: 50

TEACHING ACTIVITIES:

I have taught the following courses

- ***Undergraduate Courses***

- 1- Power Electronics
- 2- Industrial Electronics
- 3- Electronics
- 4- Electromechanics & Electronics
- 5- Advance Electronics & Power Electronics Design
- 6- Power Systems Protection & Control
- 7- Electrical machine I
- 8- Electrical Machine II
- 9- Project Management
- 10- Mathematical Foundation
- 11- Mathematics I
- 12- Mathematics II
- 13- Calculus and Linear Algebra
- 14- Final year Project
- 15- Energy Systems and Sustainable Development
- 16- Renewable & Sustainable Energy
- 17- Renewable & Energy Management

- 18- Electrical and Electronic Circuit Analysis
- 19- Electrical Machine and Drive
- 20- Fundamental of Electrical Engineering
- 21- Electrical Circuit Analysis I
- 22- Electrical Circuit Analysis II
- 23- Electrical & Electronic Circuit Analysis
- 24- Calculus and Statistics
- 25- Power System Analysis

- ***Undergraduate Laboratory Supervision***

- 1- Power Electronics
- 2- Electrical machines I
- 3- Electrical machine II
- 4- Protection and Control
- 5- Electronics
- 6- Industrial Electronics
- 7- Advanced Electronics & Power Electronics Design
- 8- Project Management
- 9- Fortran Language
- 10- Renewable Energy
- 11- Renewable & Sustainable Energy
- 12- Electromechanics & Electronics
- 13- Electrical Machines & Drive
- 14- Electrical Circuit Analysis II
- 15- Electrical & Electronic Circuit Analysis

RESOURCE PERSON IN WORKSHOPS

- 1- Hussein A Kazem, "Train the Trainer". The Workshop and Training are in Sohar Aluminium Company, 1 October - 30 November 2009, **Oman**.
- 2- Hussein A Kazem, "Project planning using Microsoft Project". The Workshop and Training for Majan Electricity Company staff in Sohar, December 2010, **Oman**.
- 3- Hussein A Kazem, "Introduction to Matlab", Level-4 students, Sohar University, 2012, **Oman**.
- 4- Hussein A Kazem, "HOMER software", Level-4 students, Sohar University, 2013, **Oman**.

- 5- Hussein A Kazem, "Renewable and Sustainable Energy", Ministry of Defense, September 2014, **Oman**.
- 6- Hussein A Kazem, "Energy Security and Renewable Energy: Statues and Future Prospects", Renewable Energy Symposium, National Defence College-Ministry of Defence, 1-2 March 2015, Muscat, **Oman**
- 7- Hussein A Kazem, "Sizing of Photovoltaic Energy Systems for Building at Minimum Cost", Tuesday 26 May 2015, Tehran, **Iran**.
- 8- Hussein A Kazem, "Effect of Dust Pollutants Type on Photovoltaic Performance", AIET workshop, The Research Council of Oman, 9 November 2015, Muscat, **Oman**
- 9- Hussein A Kazem, "Energy Security and Renewable Energy: Statues and Future Prospects", Renewable Energy Symposium, National Defence College-Ministry of Defence, 28-29 February 2016, Muscat, **Oman**
- 10- Hussein A Kazem, "Energy Security and Renewable Energy: Statues and Future Prospects", Renewable Energy Symposium, National Defence College-Ministry of Defence, 28-29 February 2016, Muscat, **Oman**
- 11- Hussein A Kazem, "Feasibility of 1.4 kW rooftop PV system in Oman", Renewables: A key driver for clean energy transition solar PV rooftop workshop & training, EU-GCC Clean Energy, 13-14 2017, Muscat, **Oman**
- 12- Hussein A Kazem, "Renewable Energy Resources and Technology", Ministry of Education, 12 March 2019, Ibri, **Oman**.
- 13- Hussein A Kazem, "Training program for the development of environmental responsibility in green technologies for environmental awareness-raising sector in the Sultanate of Oman", for the period 23 - 27 June 2019. Organizer: Oman Chamber of Commerce and Industry, Muscat, **Oman**.
- 14- Hussein A Kazem, "Renewable & Sustainable Energy", Sohar University summer training from 30-6-2019 to 10-7-2019. Organizer: Sohar University, Sohar, **Oman**.

KEYNOTES, INVITED SPEAKER, PLENARY SPEAKER IN CONFERENCES

- 1- Invited speaker. Hussein A. Kazem, K.A.Sattar, Ali A. Hussein, "Automatic Generation Control using continuous and discrete modes for thermal-hydro system considering governor dead band effect", 4th Regional Conference of CIGRE Committees in Arab Countries, 19-21/2/2001, Tripoli, **Libya**, Vol.2, pp 259-270.
- 2- Invited speaker. Ali A. Naser & Hussein A. Kazem, "Design Development of Solar Refrigerators Powered by PV", 5th –Scientific Conference, Faculty of Engineering, Baghdad University, Baghdad, **Iraq**, 25-27/02/2003.

- 3- Invited speaker. Hussein A. Kazem, Khamis Humaid AlSaidi, Saeed Hamad AlShibli & Ali Mohammed Suliman AlBlushi, "Harmonic Limitation and Standard in Sultanate of Oman Network – Sohar Industrial Area case study ", Proceedings of IEEE ICCCP'05, **Oman**, 14th –16th February 2005, pp. 145-149.
- 4- Invited speaker. Hussein A. Kazem, Abdulhakeem A. Alblushi, Ali. S. Aljabri & Khmais H. Alsaïdi, "Simple and Advanced Models for Calculating Single-Phase Diode Rectifier Line-Side Harmonics", 7th International Conference on Enformatika Systems, Science and Engineering, 25th November 2005, Istanbul, **Turkey**.
- 5- Invited speaker. Hussein A. Kazem, Bashar Zahawi & D. Giaouris, "New Model for Three-Phase Converter Operating Under Supply Unbalanced Conditions", Proceedings of IEEE ICCCP07, **Oman**, 17-19 Feb. 2007, pp. 348-354.
- 6- Invited speaker. Hussein A. Kazem & M. I. Alzarouni, "Harmonic Mitigation of Three-Phase Rectifier in Sohar Industrial Estate-Case Study", IARE Conference 2007, April 3 – 4, 2007, Sohar, **Oman**, pp. 73-76.
12. Invited speaker. Symposium of "Higher Education in the Gulf: Research insights in learning and teaching" on Thursday 18 March 2010, Dubai, **UAE**.
13. Plenary speaker, "Renewable Energy in Oman: Statues and Future Prospects", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 5-11 December 2010, Old Ship Hotel, Brighton, **UK**.
14. Plenary speaker, "Oman Solar Energy Symposium" OSES'11, Sohar-**Oman**, May 2011.
15. Plenary speaker, "Engineering Student Projects in Renewable Energy", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 3-9 July 2011, Old Ship Hotel, Brighton, **UK**.
16. Plenary speaker, "Solar Electricity", Seminar of "Electricity in Oman and Future Prospects", Sohar-**Oman**, December 2011.
17. Plenary speaker, "Renewable Energy in Oman-Today Requirements and Tomorrow Challenges", Leadership Development Conference, AIESEC Sohar, 10th – 11th March 2012, Sohar-**Oman**.
18. Main speaker and session chairman for 3rd NCT Symposium, Nizwa College of Technology, Nizwa-**Oman**, 28-29 May 2012.
19. Main speaker for 5th STC Symposium, Shinas College of Technology, Shinas-**Oman**, 21 June 2012.
20. Plenary speaker, "Feasibility of Solar (Photovoltaic) System in Oman", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable

- Transport, Water Resources/Management and Environment, 9-15 September 2012, Old Ship Hotel, Brighton, **UK**.
21. Plenary speaker, "Solar Electricity in Oman", Electrical Energy Conservation and Management Conference, 24th December 2012, Crown Plaza Hotel, Sohar, **Oman**.
 22. Keynote speaker and session chairman, "Solar Electricity in Oman", The Gulfeco conference 2013, -Tulib Al-Seeb Hotel, Muscat-**Oman**, 21-22 January 2013.
 23. Keynote speaker, "Solar Electricity", "NCATEME2013- National Conference on Advanced Technologies in Electrical & Mechanical Engineering", 22 April 2013, Al-Musanna College of Technology, **Oman**.
 24. Keynote speaker, "Photovoltaic in Oman", 3rd International Conference FTE, November 2012, Najaf, **Iraq**.
 25. Keynote speaker and session chairman, "Solar Photovoltaic in Oman", IEEE International Power Engineering and Optimization Conference PEOCO2013, **Malaysia**, 3-4 May 2013.
 26. Plenary speaker, "Renewable and Sustainable Energy in Oman", Sohar Aluminum Seminar, 26 June 2013, Sohar, **Oman**.
 27. Plenary speaker, "Road Map of Photovoltaic System in Oman", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 25-31 August 2013, Old Ship Hotel, Brighton, **UK**.
 28. Keynote speaker, "Renewable and Sustainable Energy in Oman", Energy and Environment Seminar, University of Karbala, Iraq on 3-5 October 2013, **Iraq**.
 29. Keynote speaker, "Solar Energy and Environment in Oman", Environment and Sustainable Development Conference, Baghdad, **Iraq** 2-4 April 2014.
 30. Invited speaker, "Photovoltaic Systems in Oman", 3rd Ajman International Environment Conference, 7-8 April 2014, **UAE**.
 31. Invited speaker, "Photovoltaic Systems in Oman", 3rd Engineering Gathering, College of Applied Science, 21-23 April 2014, Sohar, **Oman**.
 32. Invited speaker, "Renewable and Sustainable Energy in Oman", Oman Methanol Company LLC Seminar, 26 February 2014, Sohar, **Oman**.
 33. Plenary speaker, "Photovoltaic in Oman: Statuses and Future Prospects", World Renewable Energy Congress 13- WREC XIII University of Kingston, London – **UK**, 3-8 August, 2014.
 34. Keynote speaker, "Photovoltaic Systems in Oman: Statuses and Future Prospects", Renewable Energy Symposium, Ministry of Defence, 14-15 October 2014, Muscat, **Oman**.
 35. Invited speaker, "Renewable Energy in Oman: Statuses and Future Prospects", Shinas

- College of Technology, Seminar, 10 March 2015.
36. Invited speaker, "Photovoltaic System in Oman: Status and Future Prospects", Workshop on Smart Grid and Renewable Energy, 22-23 March 2015, Doha, **Qatar**.
 37. Keynote speaker, and moderator "Renewable Energy Generation and Storage", Renewable Energy Strategic Program Workshop, Research Council of Oman, 8-9 April 2015, Muscat, **Oman**.
 38. Keynote speaker, and moderator "Solar Energy: Status and Prospects", Symposium of Applications of Power Electronics to Renewable Energy, Caledonian College of Engineering, 29 April 2015, Muscat, **Oman**.
 39. Invited speaker, "Solar Energy: Status and Prospects", Sherif University, 24 May 2015, Tehran, **Iran**.
 40. Invited speaker, "Solar Energy: Status and Prospects", Seminar, College of Applied Science, 2 June 2015, Sohar, **Oman**.
 41. Plenary speaker, "Solar Photovoltaic: Status and Prospects", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 11-17 November 2015, Old Ship Hotel, Brighton, **UK**.
 42. 15th World Renewable Energy Congress 2016 (15th WREC), September 19 – 23, 2016 at the Jakarta, **Indonesia**.
 43. Plenary speaker, "The impact of dust's physical properties on photovoltaic modules outcomes", World Renewable Energy Congress 15- WREC University of Kingston, London – **UK**, 30 July - 3 August, 2018.
 44. Plenary speaker, "Photovoltaic Research in Oman: Sohar University experience", Science and Technology Exchange Program, 2-5 November 2018, Muscat, Malaysia.
 45. Plenary speaker, "Photovoltaic Research in Oman Sohar University experience", 4th Science and Technology Exchange Program (STEP) in Islamic Countries, 2-5 December 2018, Muscat, **Oman**.
 46. Plenary speaker, "Photovoltaic Research in Oman Sohar University experience", International Conference "Fourth Industrial Revolution and its impact on education" 21-23 / 1/2019, Sohar, **Oman**.

ADMINISTRATION ACTIVITIES

- **External Committees:**

- 1- Research Council – Muscat, Renewable Energy-Generation & Storage Committee-Chairman
- 2- Ministry of Manpower – Muscat, Renewable Energy expertise's – Member
- 3- Research Council – Muscat, Solar Energy Committee – Member
- 4- Sohar Social Housing Program – Project Committee, Sohar – Member
- 5- Ministry of Higher Education, Engineering Program Reviewer, Muscat, Oman.

- **University Committees:**

- 1- University Quality Assurance Team (Sohar University, Oman).
- 2- Job Fair Committee - Main Committee (Sohar University, Oman).
- 3- Alumni Day Committee - Main Committee (Sohar University, Oman).
- 4- Energy Conservation Committee (Sohar University, Oman).
- 5- Students Week - Main Committee (Sohar University, Oman).

- **Faculty Committees:**

- 6- Faculty Board (Faculty of Eng., Libya)
- 7- Faculty Program Revision Committee (Faculty of Eng., Libya)
- 8- Faculty Examination Committee (Faculty of Eng., Libya)
- 9- Research Committee (Faculty of Eng., Libya)
- 10- Faculty Teaching Committee (Faculty of Eng., Libya)
- 11- Level-4 Advisor (Faculty of Eng., Libya)
- 12- Faculty Board (Faculty of Eng., Oman)
- 13- Faculty Program Revision Committee (Faculty of Eng., Oman)
- 14- Faculty Strategic Plan Committee (Faculty of Eng., Oman)
- 15- Faculty Examination Committee (Faculty of Eng., Libya)
- 16- Research and Industrial Committee (Faculty of Eng., Oman)
- 17- Faculty Teaching Committee (Faculty of Eng., Oman)
- 18- Faculty Quality Assurance Committee (Faculty of Eng., Oman)
- 19- Level-1, 2, 3 & 4 Advisors (Faculty of Eng., Oman)
- 20- Courses Hour Revision Committee (Faculty of Eng., Oman)
- 21- Faculty Research Committees (Faculty of Eng., Oman)

RESPOSIBILITIES

- 1- Program Coordinator (Faculty of Eng. - Al-Tahdi University, Libya, 1997-2002)
- 2- Industrial Visits Coordinator (Faculty of Eng., Oman, 2008-2019)
- 3- In charge for mapping Electrical & Computer Engineering stream (Faculty of Eng., Sohar University, Oman, 2013-2019).
- 4- Chair of Renewable Energy & Sustainable Technology Research Group RESTRG.
- 5- Courses Hours Revision team leader, (Faculty of Eng., Sohar University, Oman)

OTHER ACTIVITIES

- 1- Students advising
- 2- Participating in Seminars, Conferences, and Symposiums
- 3- Participate in engineering open day and students seminars
- 4- Joint research and seminars with power utilities and industries
- 5- Participating in social events in Faculty of Engineering and Sohar University
- 6- Participating in students scientific trips
- 7- Participating in preparing laboratory manuals
- 8- Advisor, mentor, and moderator
- 9- Member of interview committee and SU FP in “Renewable Energy”, Ministry of Manpower, Oman.
- 10- Member of the expertise team of “Renewable Energy”, Ministry of Manpower, Oman.
- 11- Consultant, Referee, and Advisor for Majan Electricity Company, Oman
- 12- Member of programs review committee, Ministry of Higher Education, Oman.

QUALITY ASSURANCE ACTIVITIES

- 1- Active member of Sohar University QA Committee (2008–2009).
- 2- Participant in the development of Sohar University Self-Study Portfolio for Quality Accreditation (2008–2010).
- 3- Familiar with ABET requirements.
- 4- Attended the Omani National Accreditation workshop for the higher education sector (2009).
- 5- Courses Hours Revision for Faculty of Engineering-Sohar University, Quality Report, 2 November 2013.

CONFERENCES, SYMPOSIUM, WORKSHOP, AND SEMINARS ORGANISOR

- 1- Symposium on Development of Engineering & Technical Education with the Beginning of 21st Century, Higher Institute of Mechanical & Electrical Engineering, Hoon – **Libya**, 30-31/10/2001.
- 2- Industrial Applications of Energy Systems Conference IAES 2007, Sohar, Sultanate of **Oman**, 2007.
- 3- Industrial Applications of Energy Systems Conference IAES 2008, Sohar, Sultanate of **Oman**, 2008.
- 4- Industrial Applications of Energy Systems Conference IAES 2009, Sohar, Sultanate of **Oman**, November 2009.
- 5- International Conference on Harnessing Technology ICHT 2011, Muscat-**Oman**, February 2011.
- 6- Industrial Applications of Energy Systems Conference IAES 2011, Sohar-**Oman**, December 2011.
- 7- Chairman of "Oman Solar Energy Symposium" OSES'11, Sohar-**Oman**, May 2011.
- 8- Seminar chairman of "Electricity in Oman and Future Prospects", Sohar-**Oman**, December 2011.
- 9- 2nd National Symposium of Engineering Final Year Projects May 15, 2012, **Oman**.
- 10- Student Symposium on Mechanical Eng. and Mechatronics MECHFIRE2012, Caledonian College of Engineering, Muscat-**Oman**, 17th April 2012.
- 11- 3rd NCT Symposium, Nizwa College of Technology, Nizwa-**Oman**, 28-29 May 2013.
- 12- World Renewable Energy Congress 13- WREC2014, University of Kingston, LONDON – **UK**, 3-8 August, 2014.
- 13- 4th NCT Symposium, Nizwa College of Technology, Nizwa-**Oman**, May 2014.
- 14- International Conference on Environmental Energy, And Sustainable Development (ICEEASD), 11-13 November 2014, Kerbala – **Iraq**.
- 15- 9th International Conference on Intelligent Systems and Control, 2015, Tamilnadu, **India**.
- 16- World Renewable Energy Congress, WREC XIV, **Bucharest**, June 8-12, 2015.
- 17- Cooling by Geothermal and Solar, The Research Council of Oman, Workshop, 9th November 2015, Muscat, **Oman**.
- 18- Member of the International Advisory and Program Committee for the WREC XVI conference to be held in Perth, Western **Australia** in February 2017.

LIST OF PUBLICATIONS

Notes: Impact Factor (IF) records are according to Journal Citation Report (ISI) for the year of publication or specified. "Q" means the rank of the journal (quartile) in the topic (i.e. Energy & Fuels) category where Q1 means the highest and Q4 the lowest. Excellence in Research for Australia (ERA)

Total Number of Publications: 199

- **Journals: 107**
- **International and National Conference Proceedings: 62**
- **International Seminar Proceedings: 12**
- **Technical Report: 5**
- **Book Chapters: 6**
- **Books: 7**

Refereed Journals:

1. Alwaeli, Ali HA, Kamaruzzaman Sopian, Hussein A. Kazem, and Miqdam T. Chaichan. "Novel criteria for assessing PV/T solar energy production." *Elsevier-Case Studies in Thermal Engineering* (2019): 100547. (Impact Factor: 3.26, 2019, ISI, Scopus, **Q1**-2019).
2. Mahdi, Mustafa S., Anees A. Khadom, Hameed B. Mahood, Mahmood Abdul Razak Yaqup, Jammal M. Hussain, Khalid I. Salih, and **Hussein A. Kazem**. "Effect of Fin Geometry on Natural Convection Heat Transfer in Electrical Distribution Transformer: Numerical Study and Experimental Validation." *Thermal Science and Engineering Progress* (2019): 100414. (SCOPUS, Impact Factor: 1.094)
3. Ali H. A. Alwaeli, **Hussein A. Kazem**, Miqdam T. Chaichan and K. Sopian, "Experimental investigation of using nano-PCM/nanofluid on a photovoltaic thermal system (PVT): Technical and economic study", *Thermal Science and Engineering Progress* (2019), 11, pp.213-230. (SCOPUS, Impact Factor: 1.094)
4. **Hussein A. Kazem**, Jabar Yousif, Miqdam T. Chaichan, Ali H. A. Alwaeli, "Experimental and deep learning artificial neural network approach for evaluating grid-connected photovoltaic systems", *Wiley-International Journal of Energy Research*, 3 September 2019, Vol. 43, Issue 11, pp. 1-17. (Impact Factor: 3.343, 2019, ISI, Scopus, **Q1**-2019)
5. K. Sopian, Ali H. A. Alwaeli, **Hussein A. Kazem**, "Advanced photovoltaic thermal collectors", *Proc IMechE Part E: J Process Mechanical Engineering*, 13 August 2019, pp. 1-8. (Impact Factor: 1.126, 2019, ISI, Scopus, **Q1**-2019)
6. Ali H. A. Alwaeli, **Hussein A. Kazem**, Jabar Yousif, Miqdam T. Chaichan and K. Sopian, "Mathematical and Neural Network Models for Predicting the Electrical Performance of a PV/T system", *Wiley-International Journal of Energy Research*, 28 August 2019, Vol. 43, Issue 10, pp. 1-18. (Impact Factor: 3.343, 2019, ISI, Scopus, **Q1**-2019)
7. Ali H. A. Alwaeli, **Hussein A. Kazem**, Jabar Yousif, Miqdam T. Chaichan and K. Sopian, "Mathematical and neural network modeling for predicting and analyzing of nanofluid-nano PCM photovoltaic thermal systems performance", *Elsevier-Renewable Energy RE*, February 2020, Vol. 145, pp. 963-980. (Impact Factor: 5.395, 2019, ISI, Scopus, **Q1**-2019,

SJR 6.19 for 2019)

8. **Hussein A. Kazem**, and Miqdam T. Chaichan, "The effect of dust accumulation and cleaning methods on PV panels' outcomes based on an experimental study of six locations in Northern Oman", *Elsevier-Solar Energy SE*, (ISSN: 0038092X), **UK**, Vol. 187, July 2019, pp. 30-38. (Impact Factor: 4.739, 2018, ISI, Scopus, **Q1**-2018, IPP 4.52 & SJR 4.108 for 2018)
9. Ali H.A. Al-Waeli, K. Sopian, Jabar Yousif, **Hussein A. Kazem**, John Boland, Miqdam T. Chaichan, "Artificial neural network modeling and analysis of photovoltaic/thermal system based on the experimental study", *Elsevier-Energy Conversion and Management (ECM)*, (ISSN: 0196-8904), **UK**, Vol. 186, 15 April 2019, pp. 368–379. (Impact Factor: 6.377, 2019, ISI, Scopus, **Q1**-2019, ERA-2010-B, IPP 6.850 & SJR 2.537 for 2019)
10. **Hussein A. Kazem**, "Evaluation oscillatory flow photovoltaic/thermal (PV/T) system in Oman", *International Journal of Computation and Applied Sciences*, Volume 6, Issue 1, February 2019, ISSN: 2399-4509, pp. 429-436.
11. Jabar H Yousif, **Hussein A. Kazem**, Miqdam T Chaichan, "Evaluation Implementation of Humanoid Robot for Autistic Children: A Review", *International Journal of Computation and Applied Sciences*, Volume 6, Issue 1, February 2019, ISSN: 2399-4509, pp. 412-420.
12. Iessa Sabbe Moosa, **Hussein A. Kazem**, "Review of Basic Renewable Energy in GCC Countries: Current Status and Future Vision", *International Journal of Computation and Applied Sciences*, Volume 6, Issue 1, February 2019, ISSN: 2399-4509, pp. 397-406.
13. **Hussein A. Kazem**, "Evaluation and analysis of water-based photovoltaic/thermal (PV/T) system", *Elsevier-Case Study of Thermal Engineering*, Vol. 13, 2019, pp. 100401. (Impact Factor: 3.26, 2019, ISI, Scopus, **Q1**-2019).
14. Ali H.A. Al-Waeli, Miqdam T. Chaichan, **Hussein A. Kazem**, K. Sopian, "Evaluation and analysis of nanofluid and surfactant impact on photovoltaic-thermal systems ", *Elsevier-Case Study of Thermal Engineering*, Vol. 13, March 2019, pp. 100392. (Impact Factor: 3.26, 2019, ISI, Scopus, **Q1**-2019).
15. Ali H. A. Alwaeli, K. Sopian, and **Hussein A. Kazem**, Hameed B. Mahood, Anees A. Khadom Miqdam T. Chaichan, "Modeling and experimental validation of a PV/T system using nanofluid coolant and nano-PCM", *Elsevier-Solar Energy SE*, (ISSN: 0038092X), **UK**, Vol. 177, January 2019, pp. 178-191. (Impact Factor: 4.739, 2018, ISI, Scopus, **Q1**-2018, IPP 4.52 & SJR 4.108 for 2018)
16. J H Yousif, H Al-Bulushi, **Hussein A Kazem**, Miqdam T Chaichan, "Analysis and Forecasting of Weather Conditions in Oman for Renewable Energy", *Elsevier-Case Study of Thermal Engineering*, Vol. 13, March 2019, pp. 100355. (Impact Factor: 3.26, 2019, ISI, Scopus, **Q1**-2019).
17. Ali H.A. Al-Waeli, Miqdam T. Chaichan, K. Sopian, **Hussein A. Kazem**, "Influence of the base fluid on the thermo-physical properties of PV/T nanofluids with surfactant", *Elsevier-Case Study of Thermal Engineering*, Vol. 13, March 2019, pp. 100340. (Impact Factor: 3.26, 2019, ISI, Scopus, **Q1**-2019).
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impact on the photovoltaic outcomes”, *International Journal of Computation and Applied Sciences*, Volume 5, Issue 2, October 2018, ISSN: 2399-4509, pp. 385-390.

19. Ali H.A. Al-Waeli, K. Sopian, **Hussein A. Kazem**, Miqdam T. Chaichan, “Nanofluid based grid connected PV/T systems in Malaysia: A technoeconomical assessment”, *Elsevier-Sustainable Energy Technologies & Assessments SETA* (ISSN: 22131388), UK, Vol. 28, June 2018, pp. 91-95. (Impact Factor: 4.739, 2018, ISI, Scopus, **Q1**-2018, IPP 1.334 & SJR 1.234 for 2018)
20. Ali H.A. Al-Waeli, Miqdam T. Chaichan, **Hussein A. Kazem**, K. Sopian, Adnan Ibrahim, Sohif Mat and Mohd Hafidz Ruslan, “Comparison study of indoor/outdoor experiments of a photovoltaic thermal PV/T system containing SiC nanofluid as a coolant”, *Elsevier-Energy*, (ISSN: 0038092X), **UK**, Vol. 151, May 2018, pp. 33-44. (Impact Factor: 4.520, 2018, ISI, Scopus, **Q1**-2018, IPP 4.95 & SJR 2.00 for 2018)
21. Ali H.A. Al-Waeli, Miqdam T. Chaichan, **Hussein A. Kazem**, K. Sopian, Javad Safaei, “Numerical study on the effect of operating nanofluids of photovoltaic thermal system (PVT) on the convective heat transfer”, *Elsevier-Case Study of Thermal Engineering*, Vol. 12, June 2018, pp. 405-413. (Impact Factor: 1.26, 2017, ISI, Scopus, **Q1**-2017).
22. Miqdam T. Chaichan, **Hussein A. Kazem**, “Single slope solar distillator productivity improvement using phase change material and Al₂O₃ nanoparticle”, *Elsevier-Solar Energy SE*, (ISSN: 0038092X), **UK**, Vol. 164, April 2018, pp. 370-381. (Impact Factor: 4.739, 2018, ISI, Scopus, **Q1**-2018, IPP 4.52 & SJR 4.108 for 2018)
23. Miqdam T. Chaichan, Kaleel I Abass and **Hussein A. Kazem**, “Dust and pollution deposition impact on a solar chimney performance”, *International Research Journal of Advanced Engineering and Science*, Vol. 3, No. 1, pp. 127-132, 2018.
24. Ali H.A. Al-Waeli, K. Sopian, **Hussein A. Kazem**, Jabar Yousif, Miqdam T. Chaichan, Adnan Ibrahim, Sohif Mat and Mohd Hafidz Ruslan, “Comparison of prediction methods of PV/T nanofluid and nano-PCM system using a measured dataset and Artificial Neural Network”, *Elsevier-Solar Energy SE*, (ISSN: 0038092X), **UK**, Vol. 162, March 2018, pp. 378-396. (Impact Factor: 4.739, 2018, ISI, Scopus, **Q1**-2018, IPP 4.52 & SJR 4.108 for 2018)
25. Miqdam T. Chaichan, Kaleel I Abass and **Hussein A. Kazem**, “Energy yield loss caused by dust and pollutants deposition on concentrated solar power plants in Iraq weathers”, *International Research Journal of Advanced Engineering and Science*, Vol. 3, No.1, pp. 160-169, 2018.
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27. Haitham A. Al-Balushi, Jabar H. Yousif, **Hussein A Kazem**, “Mobile Application for Visualizing Weather Data in Oman Based Cloud Computing”, *International Journal of Computation and Applied Sciences IJOCAAS* (ISSN: 2399-4509), February 2018, Vol. 4, Issue 1, pp. 295-302.
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29. Ali H.A. Al-Waeli, K. Sopian, Miqdam T. Chaichan, **Hussein A. Kazem**, Adnan Ibrahim, Sohif Mat and Mohd Hafidz Ruslan, "Evaluation of the nanofluid and nano-PCM based photovoltaic thermal (PVT) system: An experimental study", *Elsevier-Energy Conversion and Management* (ECM, ISSN: 0196-8904), **UK**, Vol. 151, November 2017, pp. 693–708. (Impact Factor: 2.64, 2012, ISI, Scopus, **Q1**-2016, ERA-2010-**B**, IPP 4.801 & SJR 1.948 for 2016)
30. Jabar Yousif, **Hussein A. Kazem**, John Boland, "Predictive Models for Photovoltaic Electricity Production in Hot Weather Conditions", *MDPI- Energies*, Vol.10, Issue 7, September 2017, page. 971. (Impact Factor: 2.707, 2016, ISI, Scopus, **Q1**-2016, IPP 2.23 & SJR 0.69 for 2016)
31. **Hussein A. Kazem**, Jabar Yousif, "Comparison of prediction methods of photovoltaic power system production using a measured dataset", *Elsevier-Energy Conversion and Management* (ECM, ISSN: 0196-8904), **UK**, Vol. 148, September 2017, pp. 1070–1081. (Impact Factor: 2.64, 2012, ISI, Scopus, **Q1**-2016, ERA-2010-**B**, IPP 4.801 & SJR 1.948 for 2016)
32. Ali H.A. Al-Waeli, Miqdam T. Chaichan, **Hussein A. Kazem**, K. Sopian, "Energy Storage: CFD Modeling of Thermal Energy Storage for a Phase Change Materials (PCM) added to a PV/T using nanofluid as a coolant", *Journal of Scientific and Engineering Research* (ISSN: 23942630), 2017, Vol. 4, Issue 12, pp. 193-202.
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34. **Hussein A. Kazem**, M.H. Albadi, Ali H.A. Al-Waeli , Ahmed H. Al-Busaidi , Miqdam T. Chaichan, "Techno-economic feasibility analysis of 1 MW photovoltaic grid connected system in Oman", *Elsevier- Case Studies in Thermal Engineering*, Vol. 10, September 2017, pp. 131-141. (Impact Factor: 1.26, 2016, ISI, Scopus, **Q1**-2016)
35. Ali H Al-Waeli, K Sopian, **Hussein A Kazem** and Miqdam T Chaichan, "Photovoltaic Thermal PV/T systems: A Review", *International Journal of Computation and Applied Sciences* (IJOCAAS), **UK**, Volume 2, Issue 2, April 2017, Vol. 2, Issue 2, pp. 62-67.
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37. Hilal M S Al-Mamaari, **Hussein A Kazem** and Miqdam T Chaichan, "Climate Change: the Game Changer in the Gulf Cooperation Council Region", *Elsevier-Renewable and Sustainable Energy Review* (RSER, ISSN: 1364-0321), **USA**, September 2017, Vol. 76, pp. 555-576. (Impact Factor: 7.896, 2016, ISI, Scopus, **Q1**-2016, IPP 7.031 & SJR 2.982 for 2016)
38. Ali H.A. Al-Waeli, K. Sopian, **Hussein A. Kazem**, Miqdam T. Chaichan,

- "Photovoltaic/Thermal (PV/T) Systems: Status and Future Prospects", *Elsevier-Renewable and Sustainable Energy Review* (RSER, ISSN: 1364-0321), **USA**, September 2017, Vol. 77, pp. 109-130. (Impact Factor: 7.896, 2016, ISI, Scopus, **Q1**-2016, IPP 7.031 & SJR 2.982 for 2016)
39. Ali H.A. Al-Waeli, K. Sopian, Miqdam T. Chaichan, **Hussein A. Kazem**, Husam Abdulrasool Hasan, and Ali Najah Al-Shamani, "An experimental investigation of SiC nanofluid as a base-fluid for a photovoltaic thermal PV/T system", *Elsevier-Energy Conversion and Management* (ECM, ISSN: 0196-8904), **UK**, Vol. 142, 15 June 2017, pp. 547–558. (Impact Factor: 2.64, 2012, ISI, Scopus, **Q1**-2016, ERA-2010-**B**, IPP 4.801 & SJR 1.948 for 2016)
 40. Miqdam T Chaichan and **Hussein A Kazem**, "Effect of Sand, Ash and Soil on Photovoltaic Performance: An Experimental Study", *International Journal of Scientific Engineering and Science*, Volume 1, Issue 2, pp. 27-32, 2017.
 41. Hilal M S Al-Mamaari, Hussein A Kazem and Miqdam T Chaichan, "Renewable energy and GCC States energy challenges in the 21st century: A review", *International Journal of Computation and Applied Sciences*, Vol. 2, Issue 1, pp. 11-18, 2017.
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 44. **Hussein Kazem**, Hamood A. S. Al-Badi, Ahmed S. Al Busaidi and Miqdam T Chaichan, "Optimum design and evaluation of hybrid solar/wind/ diesel power system for Masirah Island", Springer - *Environment, Development and Sustainability*, **ISSN**: 1387585X, Netherlands, 2016, pp. 1-18. (ERA-2010-**B**, Scopus, **Q2**-2014, IPP 0.939 & SJR 0.456 for 2014).
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166. **Hussein A. Kazem**, Kadhim Noor Kadhim, Mohammed A Buazoom, "Analysis of a three-phase delta connected inductive load controlled by an ac voltage controllers", *IEEE IPEMC 2004*, **China**, Vol. 2, 14-16 Aug. 2004 pp. 420 - 424.
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169. **Hussein A. Kazem**, "Reg1 – AC Voltage Regulators, an Educational Software Program", *IEEE ICECE 2002*, Dhaka-1000, **Bangladesh**, 26-28/12/2002, pp 382-385.
170. **Hussein A. Kazem**, "PEC-Power Electronics Circuit, An Educational Software", International Conference on Modelling & Simulation in Technical and Social Sciences (MS'2002-Spain), Girona, **Spain**, 25-27 June 2002, pp 533-540.
171. **Hussein A.Kazem**, K.A.Sattar, Ali A. Hussein, "Automatic Generation Control using continuous and discrete modes for thermal-hydro system considering governor dead band effect", 4th Regional Conference of CIGRE Committees in Arab Countries, 19-21/2/2001, Tripoli, **Libya**, Vol.2, pp 259-270.
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International Conference, Symposium and Seminars:

173. **Hussein A Kazem** (Invited speaker), "Roadmap of Photovoltaic in Oman", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 25-31 August 2013, Old Ship Hotel,

Brighton-UK, paper. No. 20.

174. **Hussein A Kazem** (Invited speaker), "Renewable Energy in Oman: Today and Future Prospects", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 5-11 December 2010, Old Ship Hotel, **Brighton-UK**, paper. No. 22.
175. **Hussein A Kazem** (Invited speaker), "Renewable Energy in Oman", Oman Solar Energy Symposium OSES'11, **Sohar-Oman**, May 2011, paper No. 1.
176. **Hussein A Kazem** (Invited speaker), "Engineering Student Projects in Renewable Energy", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 3-9 July 2011, Old Ship Hotel, **Brighton-UK**, paper No. 13.
177. **Hussein A Kazem** (Invited speaker), "Solar Electricity", Seminar of "Electricity in Oman and Future Prospects", **Sohar-Oman**, December 2011, paper No 2.
178. **Hussein A Kazem** (Invited speaker), "Renewable Energy in Oman-Today Requirements and Tomorrow Challenges", Leadership Development Conference, AIESEC Sohar, 10th – 11th March 2012, **Sohar-Oman**.
179. **Hussein A Kazem** (Main speaker and session chairman), "Progress in Renewable Energy in Oman", 3rd International NCT Symposium, Nizwa College of Technology, **Nizwa-Oman**, 28-29 May 2012, paper No. 8.
180. **Hussein A Kazem** (Keynote speaker), "Solar Energy in Oman", 5th STC Symposium, Shinas College of Technology, **Shinas-Oman**, 21 June 2012.
181. **Hussein A Kazem** (Invited speaker), "Feasibility of Solar (Photovoltaic) System in Oman", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 9-15 September 2012, Old Ship Hotel, **Brighton-UK**, paper No. 15.
182. **Hussein A Kazem** (Invited speaker), "Renewable and Sustainable Energy in Oman", Sohar Aluminum Seminar, 26 June 2013, Sohar, **Oman**, paper No. 1
183. **Hussein A Kazem** (Invited speaker), "Roadmap of Photovoltaic System in Oman", International Seminar in Brighton, Renewable Energy Policy, Security, Electricity, Sustainable Transport, Water Resources/Management and Environment, 25-31 August 2013, Old Ship Hotel, **Brighton-UK**, paper No. 11.
184. **Hussein A Kazem** (Keynote speaker), "Renewable and Sustainable Energy in Oman", Energy and Environment Seminar, University of Karbala, Iraq on 3-5 October 2013, **Iraq**, paper No. 1

Technical Reports:

185. "Harmonics & Power Quality in Distribution Network at Sohar Industrial Estate", final report submitted to Majan Electricity Company, Sohar-Sultanate of Oman, January 2006. Principal Investigator Dr Hussein A. Kazem. Majan Electricity Company, Oman, Tender No. 448/2005.

186. "Analysis of Pole-Mounted Capacitors Installed in the MJEC Network", June 2010", Majan Electricity Company.
187. "Gulf International Pipe Industry (GIPI) Harmonic Distortion and Power Quality Assessment", final report submitted to Gulf International Pipe Industry, Sohar-Sultanate of Oman, June 2010. Principal Investigator Dr **Hussein A. Kazem**. Gulf International Pipe Plant Company, Oman
188. "Feasibility of Solar (Photovoltaic) Systems in Oman", final report submitted to The Research Council, Muscat-Sultanate of Oman, November 2013. Principal Investigator Dr **Hussein A. Kazem**. The Research Council of Oman, Oman, Research Grant Agreement No. ORG SU EI 11 010.
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Book Chapters:

190. **Hussein A Kazem**. "Techno-Economic Assessment of Photovoltaic Systems in Oman: Review Article", Renewable Energy in the Service of Mankind, Vol II, 2016, **Springer** International Publishing, pp. 541-550.
191. Hudhaifa Mazin, **Hussein A Kazem**, Hilal A Fadhil, SA Aljunid, Qutaiba M Abdulmajeed, Miqdam T Chaichan. "Linear and Nonlinear Modeling for Solar Energy Prediction for Zone, Region and Global Areas", Renewable Energy in the Service of Mankind, Vol II, 2016, **Springer** International Publishing, pp. 21-34.
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BOOKS

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197. **Hussein A. Kazem**, "Principles of Three Phase Induction Machines", 1st Edition, Bishara Establishment Comp. Ministry of Information Serial Number: 248-2003, Muscat, Oman.

198. **Hussein A. Kazem** and Tamer Khatib, "Photovoltaic Power System Prospective in Oman, Technical and Economical Study", 1st Edition, ISBN: 978-3659372957, LAP LAMBERT Academic Publishing, Germany, 2013.
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- 1- IEEE Industrial Electronics Society IES
- 2- IEEE Transaction of Power Electronics
- 3- Nature-Scientific Reports
- 4- Elsevier-Electric Power Systems Research
- 5- Elsevier-Renewable & Sustainable Energy Review
- 6- Elsevier-Energy Conversion & Management
- 7- Elsevier-Sustainable Energy Technologies and Assessments
- 8- Elsevier-Renewable Energy
- 9- Elsevier - Alexandria Engineering Journal
- 10- Elsevier- Energy Report
- 11- Elsevier-Hydrogen Energy
- 12- The Journal of Nature
- 13- IET, The Journal of Engineering
- 14- ASME- The Journal of Renewables: Wind, Water, and Solar
- 15- AMSE- Journal of Association for the Advance of Modelling & Simulation Techniques in Enterprises.

National & International Journals Reviewer

- 1- International Journal of Renewable Energy Research-IJRER, Turkiya.
- 2- "The World Scientific and Engineering Academy and Society ", WSEAS Greece.
- 3- "Aljufra Journal for science & engineering", Libya.
- 4- International Journal of Electronics, Computer and Communications Technologies, Malaysia.
- 5- "Learning and Teaching in Higher Education: Gulf Perspectives", UAE
- 6- "International Journal of Electrical & Electronics System Research", Malaysia.
- 7- The Research Council of Oman.
- 8- Journal of Environment, Development and Sustainability.
- 9- The Journal of Engineering Research (TJER), Sultan Qaboos University, Muscat, Oman.
- 10- International Journal of Ambient Energy.

EDITORS AND REVIEWER OF PROCEEDINGS AND BOOKS

- 1- Book. "Photovoltaics Power Systems", by Remus Teodorescu, Dezso Sera, and Tamas Kerekes, John Wiley & Sons, Ltd, Chichester, West Sussex, UK, 2013.
- 2- Book. "Electricity from Sunlight: An Introduction to Photovoltaics", by Paul Lynn, 2nd Edition, Wiley, UK, 2014.
- 3- Book. "Technology of Photovoltaic Power Generation and its Grid-Connection", by Guangyu Wang, 1st Edition, Wiley, UK, 2014.
- 4- Book. "Photovoltaics: Fundamentals, Technology and Practice", 2nd Edition, Wiley, UK, 2016.

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- 2- The 33rd Annual Conference of the IEEE Industrial Electronics Society **IECON07**, Taipei, **Taiwan**, November 5-8 2007, <http://www.iecon07.ccu.edu.tw>.
- 3- IEEE International Conference on Industrial Technology **IEEE ICIT2008**, 21-24 April 2008, Sichuan University, Chengdu, **China**, <http://www.scueei.net/icit08/>
- 4- The IEEE International Symposium on Industrial Electronics **IEEE ISIE2008**, July 2, 2008 Cambridge, **UK**, <http://www.fastconf.com/isie2008/>
- 5- 36th Annual Conference of the IEEE Industrial Electronics Society, **ECON-2010**, 7-10 November 2010, Glendale, AZ, **USA**, <http://iecon2010.njit.edu/index2.html>

- 6- 7th International Conference-Workshop Compatibility and Power Electronics, June 01-03, 2011 Tallinn, **Estonia**.
- 7- IEEE International Conference on Industrial Electronics (**ICIT**) & Southeastern Symposium on System Theory (SSST), ICIT2011, Auburn, **Alabama**, 14-17 March 2011.
- 8- 20th IEEE International Symposium on Industrial Electronics, Gdansk, **Poland**, 27-30 June 2011.
- 9- International Conference on Harnessing Technology **ICHT 2011**, Muscat, Sultanate of **Oman**, February 2011.
- 10- 7th International Conference-Workshop Compatibility and Power Electronics, June 01-03, 2011 Tallinn, **Estonia**.
- 11- IEEE International Conference on Industrial Electronics (**ICIT**) & Southeastern Symposium on System Theory (SSST), ICIT2011, Auburn, **Alabama**, 14-17 March 2011.
- 12- 20th IEEE International Symposium on Industrial Electronics, Gdansk, **Poland**, 27-30 June 2011.
- 13- 2nd International Conference on Computer Communication and Informatics (**ICCCI 2012**), **India**.
- 14- IEEE GCC Conference & Exhibition (GCC), 1 - 4 February 2015, in Muscat, **Oman**.
- 15- IEEE International Conference on Industrial Technology (**IEEE ICIT 2015**), March 17th to 19th, 2015, Seville, **Spain**.
- 16- 4th International Conference of Renewable Energy: Generation and Applications Control to be held in Belfort, **France**, during February 8-10, 2016
- 17- 9th International Conference on Robotic, Vision, Signal Processing & Power Applications, **Malaysia**, February 2016.
- 18- ASME Power & Energy Conference and Exhibition 2016, North Carolina, **USA**, 26-30 June 2016.

COLLABORATION, MoI and MoU

- 1- Renewable Energy Research Center-UKM, Kuala Lumpur-Malaysia.
- 2- VTT Technical Research Centre of Finland, Finland.
- 3- University of Nottingham, Nottingham, United Kingdom.
- 4- University of Nizwa, Nizwa, Oman.
- 5- Universidad Complutense De Madrid, Spain
- 6- Sultan Qaboos University, Muscat, Oman.
- 7- World Renewable Energy Network, Brighton, United Kingdom.
- 8- Nizwa Technical College, Nizwa, Oman.

9- University of Technology, Baghdad, Iraq.

10- University of Malaysia Perlis, Malaysia

11- University of Baghdad, Baghdad, Iraq.

SUPERVISION ACTIVITIES:

- Doctoral Dissertation:**

<i>Name of student</i>	<i>Degree</i>	<i>University</i>	<i>Year</i>	<i>Status</i>
1-Zaki Ahmed Darwish	PhD	University Kebangsaan Malaysia	2012	Graduated
2-Hilal Al-Mamari	PhD	Universidad Complutense De Madrid	2014	Graduated
3-Ali H A Alwaeli	PhD	University Kebangsaan Malaysia	2016	Graduated

- Master Theses:**

<i>Name of student</i>	<i>Degree</i>	<i>University</i>	<i>Year</i>	<i>Status</i>
1-Khamis Al-Saidi	MSc	Newcastle University-UK	2008	Graduated
2-Naser Al-Wahshi	MSc	Newcastle University-UK	2009	Graduated
3-Ibrahim Ali Al-Mamari	MSc	Newcastle University-UK	2010	Graduated
4-Salim M. Ali Al-Kabi	MSc	Newcastle University-UK	2010	Graduated
5-Kutyaba Mazin	MSc	University of Malaysia Perlis	2013	Graduated
6-Huthaifa Mazin	MSc	University of Malaysia Perlis	2013	Graduated
7-Imad Eldeen	MSc	Sohar University	2017	Graduated

EXTERNAL EXAMINER FOR MSc/PhD CANDIDATES

Bil	Name	University	MSc/PhD	Title
1	Vimalakeerthy, D (2013)	Anna University, India	PhD	An Improved Design of Permanent Magnet Synchronous Reluctance Motor Using Finite Element Method
2	Maheswari, M. (2015)	Anna University, India	PhD	Performance Analysis of PI Controlled 27 Level Cascaded H-Bridge Based Dynamic Voltage Restorer
3	Rajalakshmi D	Anna University, India	PhD	Certain Harmonic Investigations on Hybrid Power System Comprising Renewable Energy Sources Using Optimized Converter Topologies
4	Abdullah Al-Wahiabi	Sultan Qaboos University	MSc	Energy Saving Potential in Residential Sector and its Impact on Power Planning A Case Study of the Main Interconnected System (MIS)
5	Haitham Yousuf Mohammed Al-Ajmi	Sultan Qaboos University	MSc	Magnetically Coupled Generator Fed from Composite PV System

EXTERNAL EVALUATOR OF ACADEMIC PROGRAMS

Bil	Programme	Role	Duration
1	Electrical & Computer Engineering, Faculty of Engineering, Hoon - Libya	Evaluation of BEng roadmap and the program	1999
2	Electrical & Computer Engineering, Sohar University, Sohar - Oman	Evaluation of BEng roadmap and the program	2002
3	Department of Electrical and Electronics Engineering, Wiljat College, Muscat – Oman	Evaluation of BEng roadmap and program for Electrical and Electronics Engineering	2015

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COMPUTER LANGUAGES

QUIK BASIC, VISIUAL BASIC, C++, FORTRAN and PASCAL

COMPUTER LITERACY

Good programmer using MATLAB, MATHCAD, ETAP, MultiSim, PSpice, REPS.OM and HOMER software's. Good knowledge of programming using Visual Basic to design Software's and Models. General Qbasic, FORTRAN, C-Language, and Pascal-Language programming experience. Good knowledge of web page design and HTML. Used Microsoft Front page to design and publish web pages. Proficient in using most of Microsoft Office components such as Word, Excel, Microsoft Project, Outlook Power Point and Publisher. Used various graphic and drawing. Design and Analysis different Electrical-Electronics circuits and systems using PSpice, MultiSim, ETAP and MatLab/Simulink.

LANGUAGES

English and Arabic

HOBBIES AND INTERESTS

Reading, Computers, Swimming and Football

مقابلات تلفزيونية (WWW.YOUTUBE.COM)

حفلة استقبال الطائرة الشمسية Impulse II

<https://www.youtube.com/watch?v=Xw1tBOTuydo&feature=youtu.be>

مقابلة تلفزيونية من برنامج قهوة الصباح مع طاقم المضخة المائية المشغلة

<http://youtu.be/AIU1xaG78Hs>

مقابلة تلفزيونية - تلفزيون عمان - بحوث - الخميس ٢٧ نوفمبر ٢٠١٤

<https://www.youtube.com/watch?v=WvB5ehX4cY8&feature=youtu.be>

Watch "2014-01-07 - حلقة الثلاثاء - برنامج من عمان" on YouTube -

http://www.youtube.com/watch?v=91uyrnl1aJg&feature=youtube_gdata_player

مقابلة تلفزيونية - تلفزيون عمان

http://www.youtube.com/watch?v=S2Weu_R3-ao

See the part from 23:45 to 48:10 minute.

Watch "مشاريع وتجارب جامعة صحار في توليد الطاقة الشمسية" on YouTube -

http://www.youtube.com/watch?v=yDdXvkfm5zM&feature=youtube_gdata_player

تقرير تلفزيوني عن المضخة المائية الشمسية

<https://youtu.be/bRwP84wJqo8>

تقرير تلفزيوني عن اسعار النفط والطاقة الشمسية

<https://www.youtube.com/watch?v=VMBShgbE3Bw>

RENEWABLE ENERGY PROJECTS EXECUTED, SUPERVISED OR EVALUATED BY ME:

Can provide support and handle consultations in the fields related to system design, implementation, assessment, feasibility, solutions to the implementation & fabrication of systems, and hybrid renewable energy systems optimization.

Year	Quantity	Rating	Customer/Application	Customer
2008	1	0.20 kW	Standalone Solar System	Sohar University
2009	1	0.35 kW	Hybrid Solar/Wind System	Sohar University
2010	1	200 L	Solar Water Heating System	Sohar University
2011	2	200 L	Solar Water Heating System	Sohar University
2011	1	3 kW	Standalone Solar System	Majan Electricity Company
2012	1	1.68 kW	Standalone Solar System	Sohar University
2012	1	1.40 kW	Grid Connected System	Sohar University
2012	1	0.28 kW	Solar Tracking System	Sohar University
2013	1	37.75 kW	Grid Connected System	Majan Electricity Company
2013	1	13 Sensors	Renewable Energy Weather Station	Sohar University
2014	1	200 L	Solar Air Heating System	College of Applied Science
2014	1	11 Sensor	Renewable Energy Monitoring System	Sohar University
2014	1	0.9 kW	Solar Water Pumping System	Sohar University
2015	1	200 L/0.1 kW	Solar PVT System	College of Applied Science
2015	1	0.15 kW	Standalone Solar System	Sohar University
2016	1	0.30 kW	Standalone Solar System	Sohar University
2017	1	0.12 kW	PV/T Standalone Solar System	Sohar University
2017	1	5 Sensors	Wireless Weather Station	Sohar University
2017	1	0.12 kW	Solar PVT System	Sohar University
2017	2	0.10 kW	Standalone Solar System	Sohar University
2017	2	0.20 kW	Solar PVT System	Sohar University
2017	1	0.30 kW	Standalone Solar System	Sohar University
2018	1	5 Sensors	Wireless Weather Station	Sohar University
2018	1	0.20 kW	PV/PVT Systems	Sohar University
2018	1	0.50 kW	PV/PVT Systems	Sohar University
2019	1	0.60 kW	PV/PVT Systems	Sohar University

SUBMITTED RESEARCH GRANTS & INDUSTRIAL CONSULTANCIES

- 1- Proposal in title “Harnessing the inexhaustible Energy from Deserts by Integrated CSP Technologies for Power, Water and Cooling Generation with Unique Economic, Social and Environmental Opportunities in the Sultanate of Oman”, has been short listed to receive ASTF Arab Science & Technology Foundation grant. Its reference number is EG091267P, UAE, US\$ 50,000. (Co-Investigator)
- 2- A consultancy in title “Investigation of Power Quality Problems and Protection Coordination in Sohar Port, Sohar Industrial Area and Directly Connected Substation” for the benefit of Majan Electricity Company, total amount US\$ 171,000, Sohar-Oman. (Principle Investigator)
- 3- Project in title “Optimum Planning, Control and Characterization of Hybrid Wind and Solar Power Systems in Oman”, The Research Council of Oman, Oman, ORG-EI, US\$ 129,400. (Principle-Investigator)
- 4- A consultancy in title “Consultancy Service for Developing and Reviewing the Policies and Procedures for the Distribution, Operation & Maintenance Division”, Tender NO. 47/2014, for the benefit of Majan Electricity Company, total amount US\$ 48,700, Sohar-Oman. (Principle Investigator)
- 5- FURAP Project in title “Comparison Study of Photovoltaic Pumping/Diesel Pumping Systems for Rural Areas in Oman”,
The Research Council of Oman, Oman.
Total Amount: US\$ 6,200.
Duty: Supervisor
Research Grant Agreement No.
Statues: submitted
- 6- FURAP Project in title “Building a multi-purpose photovoltaic mobile weather and environmental monitoring system”,
The Research Council of Oman, Oman.
Total Amount: US\$ 6,200.
Duty: Supervisor
Research Grant Agreement No.
Statues: submitted

- 7- FURAP Project in title “Design and evaluation of Solar Car based on Oman Environment”,
The Research Council of Oman, Oman.
Total Amount: US\$ 6,200.
Duty: Supervisor
Research Grant Agreement No.
Statues: submitted
- 8- FURAP Project in title “Effect of Dust and Cleaning Methods on Photovoltaic Performance
for Oman Environment”,
The Research Council of Oman, Oman.
Total Amount: US\$ 6,200.
Duty: Supervisor
Research Grant Agreement No.
Statues: submitted
- 9- Project in title “Assessment of Tri-generation system in Oman using High Vacuum Solar
Flat Plate Collector”
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 402,000.
Duty: Co-Investigator
Research Grant Agreement No. ORG SCT.
Statues: : submitted
- 10- Project in title “Assessing and evaluating carbon footprint of Sohar University”
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 207,000.
Duty: Co-Investigator
Research Grant Agreement No. ORG SU.
Statues: : submitted
- 11- Project in title “Weather and Environmental data analysis using Artificial Neural Network”
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 75,000.
Duty: Co-Investigator
Research Grant Agreement No. ORG SU.
Statues: : submitted

- 12- Project in title "Rural Transformation Through Net Neutral Renewable Energy Sustainable Community in Oman"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 500,000.
Duty: Co-Investigator
Program: Renewable Energy Strategic Program
Statues: : submitted
- 13- Project in title "Energy Management in Omani Building"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 500,000.
Duty: Co-Investigator
Program: Renewable Energy Strategic Program
Statues: : submitted
- 14- Project in title "Prospective of Energy Efficiency in Buildings and Renewable Energy Integration in Oman"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 400,000.
Duty: Co-Investigator
Program: Renewable Energy Strategic Program
Statues: : submitted
- 15- Project in title "Performance evaluation of water-based grid-connected photovoltaic thermal (PV/T) collectors in Oman"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 52,000.
Duty: Principle-Investigator
Program: Blocked Research Grand
Statues: : submitted
- 16- Project in title "Smart Data Integration Center from Heterogeneous Sources for Environment and Renewable Energy Applications"
Funding Sources: Sohar University, Oman,
Total Amount: US\$ 10,400.
Duty: Principle-Investigator
Program: Sustainable Future program
Statues: : submitted

17- Consultancy Project in title "Burhan field Power Quality Study"

Funding Sources: Petroleum Development Oman (PDO), Burhan Field, Muscat, Oman.

Total Amount: US\$ 41,065.

Duty: Principle-Investigator

Client: Petroleum Development Oman (PDO), Burhan Field, Muscat, Oman

Statuses: : submitted

18- Consultancy Project in title "Provide Solar Electricity for Safa Project"

Funding Sources: Million Date Palm Plantation Project (MDPPP), Muscat, Oman.

Total Amount: US\$ 28,338.

Duty: Principle-Investigator

Client: Million Date Palm Plantation Project (MDPPP)

Statuses: : submitted