CIRCUM VITAE

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CONTACT INFO

Name	Hussein A Kazem
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Email address	h.kazem@su.edu.om
Website	www.soharuni.edu.om
Researchgate	https://www.researchgate.net/profile/Hussein_A_Kazem
Googlescholar	@Dr Hussein A Kazem
SCOPUS	@Kazem, Hussein A.
Linkedine	https://www.linkedin.com/in/hussein-a-kazem-830b8571
Youtube	@ Hussein Alwaeli
channel	

PERSONAL PARTICULARS

Name	Hussein A Kazem	
Date of brith	22 December 1969	
Natinality	Iraqi	
Education level	PhD Electrical and Computer Engineering	1
Current position	Associate Professor - Sohar University	V SA V
Personal email	husseinalwaeli@gmail.com	
Passport No.	A8306482 Valid till 13/08/2023	

BIBLIOMETRIC DATA

Googlescholar			
Documents	209		
Citations	7,073		
H-Index	52		
I-10 Index	114		

Researchgate			
Documents	257		
Citations	7635		
H-Index	58		
Reads	196,769		
RG score	56.41		
Recommendations	3,046		

SCOPUS			
Documents	99		
Citations	3015		
H-Index	32		

Web od Science (WoS)			
Documents	91		
Citations	2,346		
H-Index	28		
Average Citation per Item	27.3		
Publications in WoS	86		

KEY PERFORMANCE INDICATORS













ORCID ID	0000-0002-5034-2485		
Web of Science Researcher ID	K-7304-2019		

PERSONAL STATEMENT

I am a highly motivated electrical engineer with effective communication skills. I have been a part of research teams and have successfully completed governmentally funded research projects. I have also overseen important tasks like installation, operation, maintenance of photovoltaic water pumping systems and PV/T systems. I believe that through hard work and consistency, career goals can be achieved, and that to thrive in academia, you must improvise, adapt, and overcome every situation. The core of my plans is self-growth and security. My goal is to produce meaningful research, mentor young academics and achieve purposeful projects for the world to benefit from. Finally, I see myself having a positive impact on the environment and society around me.

BIOGRAPHY

Hussein has received his BSc, MSc in electrical engineering from University of Technology (UOT), Baghdad-Iraq also, Ph.D. from Newcastle University (NCL), UK. In 1995 he joined Al-Mamon College, and in 1996 he was appointed as Assistant Lecturer in UOT, and from 1997 to 2002 he was a Lecturer and Program Coordinator with the Faculty of Engineering, AI Tahady University, Libya. In 2002-present, Hussein became a Associate Professor with the Sohar University, Oman. Also, he is an academic visiting member of staff at Newcastle University-UK and a visiting scientist at the National University of Malaysia.

Hussein is involved in academics and research, since the last 25 years and is associated with a professional organization and engineering societies as a member, researcher, editor and reviewer such as IEEE, IET, Elsevier, Springer, EDP science, IAENG, WREN, Nature, and WSEAS. Hussein organized and participated in many conferences, symposiums, and workshops. He has authored several publications, including more than 190 papers published in scientific journals and conferences, some 50 invited talks, seven chapters, and seven books. Dr. Hussein is the winner of the Sohar University Vice-Chancellor award for Research and Industry. Also, He is the winner of some national and international awards: the "Golden Medal Award"-Pecipta'13 Malaysia, and "Outstanding Renewable Energy Lab Award"-World Renewable Energy Congress 2014 London, United Kingdom, "Renewable & Sustainable Energy Pioneer Award"-World Renewable Energy Congress 2016 Jakarta, Indonesia, "Special Award of Excellence in Renewable Energy Research"- World Renewable Energy Congress 2018 Kingston, United Kingdom; is an inventor and co-inventor of 3 patents. Hussein had supervised and graduated more than 50 BSc, 7 MSc, and 3 Ph.D. Dr Hussein has completed three ORG and one FURAP

research projects granted as Principle Investigator and Co-Investigator funded by The Research Council of Oman (TRC). Also, he is currently work in few research grants. His current researches interests are in the area of Photovoltaic's, Renewable Energy, Power Electronics, Power Quality and Electrical Power System. Hussein is chairman of the Renewable Energy & Sustainable Technology Research Group. Dr Hussein is the team leader of Generation & Storage taskforce in Oman Renewable Energy Strategic Program.

RESEARCH AREAS

- Photovoltaic. Photovoltaic Power Systems.
- Photovoltaic/ Thermal Systems (PV/T)
- Power Electronics
- Power Systems and Power Quality
- Electrical Machines and Drive.
- Renewable Energy.
- Hybrid Renewable Energy Systems Optimization

ACADEMIC QUALIFICATIONS

Certificate	University	Country	Years of study
PhD in Electrical and	Newcastle University	United Kingdom	2004-2009
Computer Engineering			
Speciality: Power	Thesis Title: Development and Ar	nalysis of Supply Si	de Rectifier
Electronics/Power	Circuits Model under Balanced ar	nd Unbalanced Sup	ply Conditions
Systems			
MSc in Electrical	University of Technology	Iraq	1992-1994
Engineering			
Speciality: Power	Thesis title: Sample Data Automatic Generation Control of Multi-Area		
Systems	Interconnected Reheat Thermal and Hydro Systems		
BSc in Electrical	University of Technology	Iraq	1987-1991
Engineering			
Speciality: Power	Thesis title: Design and evaluatio	n of Computer Rela	ying
Systems (71/100 first			
Honors Degree)			
Iraqi Certificate of	Al-Zubaidyai Secondary School	Iraq	1987
Education			

RESEARCH STATEMENT

Research is a passion for me. I tried to improve my research skills through my MSc and Ph.D. studies, and after that, I attended many workshops related to how to be a good researcher, critical thinking, how to write proposals, write and publish papers with high quality, etc. Also, through supervising final year projects, MSc and Ph.D. students, and working with research groups in Sohar University, Newcastle-UK, UOT-Iraq, UKM-Malaysia, University of Malaysia Perlis-Malaysia, and some groups in Oman. Collaboration with other researchers improved my experience and reflected positively on my research quality. Working hard, use my social time and passion reflected on my achievements in publishing more than 200 papers in Web/SCOPUS journals and conferences, and few books. Also, completing few TRC research grants as a PI and CO-PI investigator, one FURAP grant as a mentor, and executing two new research grants from Sohar University and TRC as PI and CO-PI investigator, which added to my student and me is a lot.

For consultancies, I brought a few alone and some with my colleagues. The first one for me and Sohar University was in 2005 with Majan Electricity Company, and since that time I work closely with them even I was an advisor and evaluator with them in some projects. Also, I implemented a few consultancies for Sohar Aluminium, Gulf International Pipe Plant Company, and MAJIS company.

TEACHING STATEMENT

I started my career working as an academic member in private and public universities in different countries in 1995. It was an exciting experience. My teaching style is based on delivering theoretical knowledge with experimental work in the lab and tries to bridge the gap between them through the project. For research-teaching nexus, it was an excellent opportunity that I had research grants, which I used to link my courses to the research activities and help my students to engage more with research and use the state-of-the-art equipment. It is essential to have various assessment tools and analyse them according to the schedule to make sure that the students are on the right track. Also, I prepared a course portfolio to have evidence of practice; including how my course's theory is linked with actual teaching experiences. I tried to be well written, clear, and readable in my lecture slides or when I use the whiteboard. I know that student's abilities are different so that I tried to use different techniques, assessment tools, and ways to help them to meet the course learning outcomes. My overall teaching philosophy is based on two values, (i) active student learning strongly influences student-learning outcomes;

and (ii) assessment strategy and procedures strongly influence student achievement of knowledge.

I tried to evaluate my teaching in different ways through my students, colleagues, and dean feedback and survey. I also asked my students to evaluate my lecture at least two times per semester. Also, my colleagues attend my lecture for peer review, which is useful. Moreover, our dean, through appraisal, evaluates my teaching and research performance.

JOB EXPERIENCE

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

Power system Analysis, Advanced Electronics and Power Electronics Design, Electronic Circuits, Electromechanics & Electronics, Electrical Machine & Drives, Mathematical Foundation, Fundamental of Electrical Circuits, Electrical & Electronic Circuit Analysis, Calculus and Linear Algebra, Calculus & Statistics, Project Managements, Renewable and Sustainable Energy, Renewable & Energy Management, Introduction to Digital Systems; 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 2009 – 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, 2009.
- 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, 2012.
- 4. Visiting Scientist, University Kebangsaan Malaysia, Malaysia, 2013.
- 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, Oman, December 2013.
- Outstanding Renewable Energy Lab Award, World Renewable Energy Congress XIII, London, United Kingdom, 3 – 8th August 2014.
- 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.
- Renewable & Sustainable Energy Pioneer & ambassador, World Renewable Energy Congress 2016 (15th WREC), Jakarta, Indonesia, September 19 – 23, 2016.
- Special Award, World Renewable Energy Congress XVIII, London, United Kingdom, 30 July – 3 August 2018.
- 13. Listed in Stanford University list of world's top 2% scientists, December 2019.
- 14. Listed in Stanford University list of world's top 2% scientists, November 2020.

PATENTS AND INTELLECTUAL PROPERTY

- 1. Copyright 2013, REPS.OM software (Photovoltaic Power System in Oman Software), Muscat-Oman, 16 April 2013, No. 2128.
- 2. Photovoltaic Thermal Collector with nano-PCM and Nanofluids, Patent, UKM, Kuala Lampur, 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 1996
Member, Iraq Energy Institute, UK	2012	Till now
Member, International Solar Energy Society (ISES),	2016	Till 2017
Germany		
Oman Society of Engineers	2018	Till now
Member of Asian Council of Science Editors	2018	Till now
London Journals Press "Quarterly Franklin Membership" (Membership	2018	Till 2019
ID#EB96249)		

EDITORS OF JOURNALS

- 1. Manager and Editor, "Renewable Energy & Environemantal Sustainability", ISSN: 2493-9439.
- Associate Editor, "International Journal of Computations in Science and Engineering Research (IJCSER)", ISSN: 2229-5518.
- 3. "Bonfring International Journals", ISSN: 2277-5072.
- International Journal Advances in Power Systems (IJAPS, Algerian Association of Electrical Engineering (AAEE).
- 5. Optimization of Photovoltaic Power Systems, "Journal of Engineering", Hindawi Publishing Corporation, USA, (Guest Editor), ISSN: 2314-4904.
- Associate Editor of the International Journal of Computation and Applied Science, UK, ISSN: 2399-4509.
- 7. Journal of Solar Energy Research Updates, ISSN: 2410-2199.
- 8. Journal of Renewable Energy and Environment (JREE), ISSN: 2423-5547.
- Guest editor of a research topic with Frontiers in Energy Research (Q2, Scopusindexed, and WoS-indexed). The title of the research topic is "Photovoltaic Thermal (PV/T) Collectors: Advances in Design and Implementation". WoS, SCOPUS, IF: 2.746, ISSN: 2296-598X.
- 10. Diyala Journal of Engineering Sciences, ISSN: 1999-8716, Iraq.

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.

COMPLETED & ONGOING RESEARCH GRANTS

- 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: 2011-2013
 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: 2011-2013
 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: 2014-2017
 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 anayzing 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 & IDVISORY SERVICES

- 1- 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
- 2- 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

- 3- 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
 Statues: Completed
- 4- Advisory service 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)
 Year: 2019
 Statues: Completed

• Undergraduate Final Year Projects:

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

TEACHING ACTIVITIES

I have taught the following courses

- Undergraduate Courses

- 1- Power Systems Analysis
- 2- Power Electronics
- 3- Electrical Machine and Drive
- 4- Industrial Electronics
- 5- Electronic circuits
- 6- Electromechanics & Electronics
- 7- Advance Electronics & Power Electronics Design
- 8- Power Systems Protection & Control
- 9- Electrical machine I

- 10- Electrical Machine II
- 11- Project Management
- 12- Mathematical Foundation
- 13- Mathematics I
- 14- Mathematics II
- 15- Calculus and Linear Algebra
- 16- Final year Project
- 17- Energy Systems and Sustainable Development
- 18- Renewable & Sustainable Energy
- 19- Renewable & Energy Management
- 20- Electrical and Electronic Circuit Analysis
- 21- Fundamental of Electrical Engineering
- 22- Electrical Circuit Analysis I
- 23- Electrical Circuit Analysis II
- 24- Electrical & Electronic Circuit Analysis
- 25- Calculus and Statistics
- 26- Introduction to Digital Systems.

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
- 16- Introduction to Digital Systems

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.**
- 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**.

- 15- International workshop on "Nanotechnology and Renewable Energy (NTRE2019)", 10 November 2019, Materials and Energy Research Center (MERC), **Iran**.
- 16- Hussein A Kazem, "PSpice software", electrical engineering students, Sohar University, 2020, **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. Alsaidi, "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.
- 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**.
- 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, May 2011, Sohar-Oman.

- 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", December 2011, Sohar-**Oman**.
- Plenary speaker, "Renewable Energy in Oman-Today Requirements and Tomorrow Challenges", Leadership Development Conference, AIESEC Sohar, 10th – 11th March 2012, Sohar-**Oman**.
- Main speaker and session chairman for 3rd NCT Symposium, Nizwa College of Technology, 28-29 May 2012, Nizwa-**Oman**.
- Main speaker for 5th STC Symposium, Shinas College of Technology, 21 June 2012, Shinas-Oman.
- 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, 21-22 January 2013, Muscat-**Oman**.
- 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, 3-4 May 2013, Malaysia.
- Plenary speaker, ""Renewable and Sustainable Energy in Oman", Sohar Aluminum Seminar, 26 June 2013, Sohar, **Oman**.
- 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, 2-4 April 2014, **Iraq**.
- 30. Invited speaker, "Photovoltaic Systems in Oman", 3rd Ajman International Environment Conference, 7-8 April 2014, **UAE**.
- Invited speaker, "Photovoltaic Systems in Oman", 3rd Engineering Gathering, College of Applied Science, 21-23 April 2014, Sohar, **Oman**.
- Invited speaker, ""Renewable and Sustainable Energy in Oman", Oman Methanol Company LLC Seminar, 26 February 2014, Sohar, **Oman**.
- Plenary speaker, "Photovoltaic in Oman: Statues and Future Prospects", World Renewable Energy Congress 13- WREC XIII University of Kingston, 3-8 August, 2014, London – UK.
- Keynote speaker, "Photovoltaic Systems in Oman: Statues and Future Prospects", Renewable Energy Symposium, Ministry of Defence, 14-15 October 2014, Muscat, Oman.
- Invited speaker, "Renewable Energy in Oman: Statues and Future Prospects", Shinas College of Technology, Seminar, 10 March 2015, **Oman**.
- Invited speaker, "Photovoltaic System in Oman: Statues and Future Prospects", Workshop on Smart Grid and Renewable Energy, 22-23 March 2015, Doha, Qatar.
- Keynote speaker, and moderator "Renewable Energy Generation and Storage", Renewable Energy Strategic Program Workshop, Research Council of Oman, 8-9 April 2015, Muscat, **Oman**.
- 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.**
- 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.**
- 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, 30

July - 3 August, 2018, London – UK.

- 44. 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**.
- 45. 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**.
- 46. Plenary speaker, "Photovoltaic Research in Oman: Status and Prospects", 11 November 2019, Sharif University, **Iran**.
- 47. Plenary speaker, "Creative, innovation & community service: Solar Energy in Oman as an example", 20 May 2020, Diyala University, **Iraq**.
- 48. Plenary speaker, "Thermoelectric generators, solar cells, and thermal collectors for solar cogeneration: a review of recent research trends", 10-12 April 2021, International Hazar scientific researchs conference-II Baku, Azerbaijan, Khazar University.

ADMINISTRATION ACTIVITIES

- External Committees:

- The Research Council Muscat, Oman, Renewable Energy Strategic Program, 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).
- 6- Risk Management Committee (Sohar University, Oman).

- Faculty Committees:

- 7- Faculty Board (Faculty of Eng., Libya)
- 8- Faculty Program Revision Committee (Faculty of Eng., Libya)

- 9- Faculty Examination Committee (Faculty of Eng., Libya)
- 10- Research Committee (Faculty of Eng., Libya)
- 11- Faculty Teaching Committee (Faculty of Eng., Libya)
- 12- Level-4 Advisor (Faculty of Eng., Libya)
- 13- Faculty Board (Faculty of Eng., Oman)
- 14- Faculty Program Revision Committee (Faculty of Eng., Oman)
- 15- Faculty Strategic Plan Committee (Faculty of Eng., Oman)
- 16- Faculty Examination Committee (Faculty of Eng., Libya)
- 17- Research and Industrial Committee (Faculty of Eng., Oman)
- 18- Faculty Teaching Committee (Faculty of Eng., Oman)
- 19- Faculty Quality Assurance Committee (Faculty of Eng., Oman)
- 20- Level-1, 2, 3 & 4 Advisors (Faculty of Eng., Oman)
- 21- Courses Hour Revision Committee (Faculty of Eng., Oman)
- 22- 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, 2008-2020)
- 3- In charge for mapping Electrical & Computer Engineering stream (Faculty of Eng., Sohar University, Oman, 2013-2020).
- 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, SYMOPSIUM, WORKSHOP, AND SEMINARS ORGANISOR

- Symposium on Development of Engineering & Technical Education with the Beginning of 21st Century, Higher Institute of Mechanical & Electrical Engineering, 30-31/10/2001, Hoon – Libya.
- 2- Industrial Applications of Energy Systems Conference IAES 2007, 2007, Sohar, Sultanate of **Oman**.
- 3- Industrial Applications of Energy Systems Conference IAES 2008, 2008, Sohar, Sultanate of **Oman**.
- Industrial Applications of Energy Systems Conference IAES 2009, November 2009, Sohar, Sultanate of Oman.
- 5- International Conference on Harnessing Technology ICHT 2011, February 2011, Muscat-Oman.
- Industrial Applications of Energy Systems Conference IAES 2011, December 2011, Sohar-Oman.
- 7- Chairman of "Oman Solar Energy Symposium" OSES'11, May 2011, Sohar-Oman.
- 8- Seminar chairman of "Electricity in Oman and Future Prospects", December 2011, Sohar-Oman.
- 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, 17th April 2012, Muscat-**Oman**.
- 11- 3rd NCT Symposium, Nizwa College of Technology, 28-29 May 2013, Nizwa-Oman.
- 12- World Renewable Energy Congress 13- WREC2014, University of Kingston, 3-8 August, 2014, LONDON **UK**.
- 13- 4th NCT Symposium, Nizwa College of Technology, May 2014, Nizwa-**Oman**.
- 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, June 8-12, 2015, Bucharest.
- 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, February 2017, Western **Australia**.
- Member of the organization committee, 2020 6th International Conference on Energy, Environment and Materials Science (EEMS2020), August 28-30, 2020, Hulun Buir, China.

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: 222

- □ Journals: 129
- □ International and National Conference Proceedings: 61
- □ International Seminar Proceedings: 11
- □ Technical Report: 5
- □ Book Chapters: 8
- \square Books: 7

Refereed Journals:

- 1. Hussein A. Kazem, Ali H. A. Alwaeli, Miqdam T. Chaichan, K Sopian, "Numerical and experimental evaluation of nanofluids based photovoltaic/thermal systems in Oman: using silicone-carbide nanoparticles with water-ethylene glycol mixture." Case Studies in Thermal Engineering (2021): 101009. Elsevier-Case Studies in Thermal Engineering (2021): 100547. (Impact Factor: 4.01, 2020, ISI, Scopus, Q1-2020). Link: https://www.sciencedirect.com/science/article/pii/S2214157X21001726?via%3Dihub
- 2. Moosa, Iessa Sabble, Hussien A. Kazem, Humaid Al-Badi, and Ahmed Said Al-Hashimi. "Evaluation and analysis of freshwater from atmospheric moisture as byproduct of aircooling units in Oman." Renewable Energy and Environmental Sustainability 6 (2021): 19. Link: https://www.rees-journal.org/articles/rees/abs/2021/01/rees210017/rees210017.html
- 3. K Sopian, Ali H. A. Alwaeli, Hussein A. Kazem, , " Nano enhanced fluids and latent heat storage material for photovoltaic modules: A case study and parametric analysis ." Wiley-International Journal of Energy Research, 2021. (Impact Factor: 3.741, 2021, ISI, Scopus, Q1-2021)

Link: https://onlinelibrary.wiley.com/doi/abs/10.1002/er.6625

- Hussein A. Kazem, Migdam T. Chaichan, Ali H. A. Alwaeli, K Sopian, "Investigation of a 4. nanofluid-based photovoltaic thermal system using single-wall carbon nanotubes: An experimental study." Wiley-International Journal of Energy Research, 2021. (Impact Factor: 3.741, 2021, ISI, Scopus, Q1-2021) Link: https://onlinelibrary.wiley.com/doi/abs/10.1002/er.6515
- 5. Hussein A. Kazem, Miqdam T. Chaichan, Ali H. A. Alwaeli, K Sopian, " Comparison and evaluation of solar photovoltaic thermal system with hybrid collector: An experimental study", Elsevier- Thermal Science and Engineering Progress (2021): 100845. (SCOPUS, Impact Factor: 1.094) Link: https://www.sciencedirect.com/science/article/abs/pii/S245190492100007X
- Hussein A. Kazem, Miqdam T. Chaichan, Ali H. A. Alwaeli, K Sopian, "Evaluation and 6. comparison of different flow configurations PVT systems in Oman: A numerical and experimental investigation", Elsevier-Solar Energy SE, (ISSN: 0038092X), UK, Vol. 208,

2020, pp. 58-88. (Impact Factor: 4.807, 2020, ISI, Scopus, **Q1**-2020, CiteScore 10.9 & SJR 1.886 for 2020) Link: https://www.sciencedirect.com/science/article/abs/pii/S0038092X20308100

 Hussein A. Kazem, Miqdam T. Chaichan, Ali H. A. Alwaeli, K Sopian "Evaluation of aging and performance of grid-connected photovoltaic system northern Oman: Seven years' experimental study ", *Elsevier-Solar Energy* SE, (ISSN: 0038092X), UK, Vol. 207, 2020, pp. 1247-1258. (Impact Factor: 4.807, 2020, ISI, Scopus, Q1-2020, IPP 4.674 & SJR 5.240 for 2020)

Link: https://www.sciencedirect.com/science/article/abs/pii/S0038092X20307933

- Hussein A. Kazem, Miqdam T. Chaichan, Ali H. A. Alwaeli, K Sopian, "A review of dust accumulation and cleaning methods for solar photovoltaic systems", *Elsevier-Journal of Cleaner Production*, Vol. 276, December 2020, pp. 123187. (Impact Factor: 7.246, 2020, ISI, Scopus, Q1-2020, IPP 4.674 & SJR 5.240 for 2020) Link: <u>https://www.sciencedirect.com/science/article/abs/pii/S0959652620332327</u>
- Hussein A. Kazem, Miqdam T. Chaichan, Ali H. A. Alwaeli, K Sopian "A novel model and experimental validation of dust impact on grid-connected photovoltaic system performance in Northern Oman", *Elsevier-Solar Energy* SE, (ISSN: 0038092X), UK, Vol. 206, 2020, pp. 564-578. (Impact Factor: 4.807, 2020, ISI, Scopus, Q1-2020, IPP 4.674 & SJR 5.240 for 2020)

Link: https://www.sciencedirect.com/science/article/abs/pii/S0038092X20306575

- Ali H. A. Alwaeli, Hussein A. Kazem, Miqdam T. Chaichan and K. Sopian, "A review of photovoltaic thermal systems: Achievements and applications", *Wiley-International Journal* of *Energy Research*, September 2020, doi.org/10.1002/er.5872. (Impact Factor: 3.343, 2019, ISI, Scopus, Q1-2019) Link: <u>https://onlinelibrary.wiley.com/doi/10.1002/er.5872</u>
- Iessa Sabbe Moosa, Laila Masoud Rashid Al-lessi, Hussein A. Kazem, "Freshwater production and solar disinfection of water released from the air-conditioning cooling system: an experimental investigation", *EDP Science - Renewable Energy and Environmental Sustainability*, 2020, Vol. 5, No. 9, pp. 10. Link: <u>https://www.rees-journal.org/articles/rees/full_html/2020/01/rees200002/rees200002.html</u>
- Hussein A. Kazem, "Evaluation of PV output in terms of environmental impact based on mathematical and artificial neural network models", *Wiley-International Journal of Energy Research*, 2020, pp. 1-17. (Impact Factor: 3.343, 2019, ISI, Scopus, Q1-2019) Link: <u>https://onlinelibrary.wiley.com/doi/abs/10.1002/er.5564</u>
- Ali H. A. Alwaeli, K Sopian, Hussein A. Kazem, and Miqdam T. Chaichan. "Evaluation of the electrical performance of a photovoltaic thermal system using nano-enhanced paraffin and nanofluids." *Elsevier-Case Studies in Thermal Engineering* (2020): 100678. (Impact Factor: 3.26, 2019, ISI, Scopus, Q1-2019) Link: https://www.sciencedirect.com/science/article/pii/S2214157X19304137
- Miqdam T. Chaichan and Hussein A. Kazem, "Experimental evaluation of dust composition impact on photovoltaic performance in Iraq", *Taylor & Francis - Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2020, pp. 1-22. (Impact Factor: 0.98, 2020, ISI, Scopus, Q2-2019) Link: <u>https://www.tandfonline.com/doi/full/10.1080/15567036.2020.1746444</u>
- 15. Sopian, Kamaruzzaman, Ali HA Al-Waeli, and Hussein A. Kazem. "Energy, exergy and

efficiency of four photovoltaic thermal collectors with different energy storage material." *Elsevier-Journal of Energy Storage*, Vol. 29 (2020): 101245. (Impact Factor: 3.517, 2020, ISI, Scopus, **Q1**-2018, IPP 1.232 & SJR 1.055 for 2020) Link: <u>https://www.sciencedirect.com/science/article/abs/pii/S2352152X19312915</u>

- Chaichan, Miqdam T., Hussein A. Kazem, Ali HA Al-Waeli, and Kamaruzzaman Sopian. "The effect of dust components and contaminants on the performance of photovoltaic for the four regions in Iraq: a practical study." *EDP Science - Renewable Energy and Environmental Sustainability* 5 (2020): 3. Link: https://www.rees-journal.org/articles/rees/abs/2020/01/rees190008/rees190008.html
- Tamadher M A Alnasser, Aedah M J Mahdy, Khaleel I Abass, Miqdam T. Chaichan, Hussein A. Kazem, "Impact of dust ingredient on photovoltaic performance: an experimental study", *Elsevier-Solar Energy* SE, (ISSN: 0038092X), UK, Vol. 195, 2020, pp. 651-659. (Impact Factor: 4.807, 2020, ISI, Scopus, Q1-2018, IPP 4.674 & SJR 5.240 for 2020)

Link: https://www.sciencedirect.com/science/article/pii/S0038092X1931223X

- Hussein A. Kazem, Miqdam T. Chaichan, Ali H. A. Al-Waeli, K. Sopian, "Evaluation of Grid-Connected PV Electricity Generation Systems using Experimental Approaches", Test Engineering and Management, 2020, pp. 1264 – 1270.
- 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). Link: <u>https://www.sciencedirect.com/science/article/pii/S2214157X19303533</u>
- 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", *Elsevier- Thermal Science and Engineering Progress* (2019): 100414. (SCOPUS, Impact Factor: 1.094) Link: https://www.sciencedirect.com/science/article/abs/pii/S2451904919302240
- 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", *Elsevier-Thermal Science and Engineering Progress* (2019), *11*, pp.213-230. (SCOPUS, Impact Factor: 1.094) Link: https://www.sciencedirect.com/science/article/abs/pii/S2451904918306437
- 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) Link: <u>https://onlinelibrary.wiley.com/doi/abs/10.1002/er.4855</u>
- 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) Link: <u>https://journals.sagepub.com/doi/abs/10.1177/0954408919869541</u>
- 24. 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) Link: <u>https://onlinelibrary.wiley.com/doi/abs/10.1002/er.4807</u>

 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)

Link: https://www.sciencedirect.com/science/article/pii/S0960148119309218

 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)

Link: https://www.sciencedirect.com/science/article/abs/pii/S0038092X19304992

- 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) Link: <u>https://www.sciencedirect.com/science/article/pii/S0196890419302572</u>
- 28. **Hussein A. Kazem**, Miqdam T Chaichan, Jabar H Yousif, "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. Link: <u>https://ijocaas.com/wp-content/uploads/2019/02/IJOCAAS-06-01-005-February-2019.pdf</u>
- 29. 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. Link: <u>https://ijocaas.com/wp-content/uploads/2019/02/IJOCAAS-06-01-003-February-2019.pdf</u>
- 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. Link: <u>https://ijocaas.com/wp-content/uploads/2019/02/IJOCAAS-06-01-001-February-2019.pdf</u>
- Kamaruzzaman Sopian, Ali H.A. Alwaeli, Adnan Ibrahim, Hussein A. Kazem, "Evaluation and Design Criteria of Photovoltaic Thermal (PV/T)", *Elsevier-Materials Today: Proceedings*, Vol. 19, 2019, pp. 1111–1118. Link: <u>https://www.sciencedirect.com/science/article/pii/S2214785319336764</u>
- 32. Thangam, Thomas, K. Muthuvel, and Hussein A. Kazem. "Research perspectives and state-of-the-art methods in photovoltaic microgrids." *World Journal of Engineering* (2019).
- 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). Link: https://www.sciencedirect.com/science/article/pii/S2214157X18303939
- 34. 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). Link: https://www.sciencedirect.com/science/article/pii/S2214157X1830368X

- 35. Ali H. A. Alwaeli, K. Sopian, and Hussein A. Kazem, Hameed B. Mahood, Anees A. Khadom Migdam 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) Link: https://www.sciencedirect.com/science/article/abs/pii/S0038092X18311150
- 36. Thangam, Thomas, K. Muthuvel, and Hussein A. Kazem. "Research perspectives and state-of-the-art methods in photovoltaic microgrids." World Journal of Engineering (2019). Link: https://www.emerald.com/insight/content/doi/10.1108/WJE-06-2019-0181/full/html
- 37. Thangam, Thomas, Hussein A. Kazem, and K. Muthuvel. "SFOA: Sun Flower Optimization Algorithm to Solve Optimal Power Flow.", Journal of Computational Mechanics, Power System and Control, 2019, Vol. 2, No. 4, pp. 10-18. Link: https://publisher.resbee.org/assets/pdf/JCMPS/Volume-2/Issue-4/paper-2.pdf
- 38. 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). Link: https://www.sciencedirect.com/science/article/pii/S2214157X18303253
- 39. Ali H.A. Al-Waeli, Migdam 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).

Link: https://www.sciencedirect.com/science/article/pii/S2214157X18302843

- 40. Roshen T A Hamdi, Sanaa H Hafed, Miqdam T Chaichan, Hussein A Kazem, "Dust impact on the photovoltaic outcomes", International Journal of Computation and Applied Sciences, Volume 5, Issue 2, October 2018, ISSN: 2399-4509, pp. 385-390. Link: https://ijocaas.com/wp-content/uploads/2018/10/IJOCAAS-05-02-004-October-2018.pdf
- 41. Ali H.A. Al-Waeli, K. Sopian, Hussein A. Kazem, Migdam T. Chaichan, "Nanofluid based arid connected PV/T systems in Malaysia: A technoeconomical assessment". Elsevier-Sustainable Energy Technologies & Assessements 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)

Link: https://www.sciencedirect.com/science/article/abs/pii/S2213138817300280

- 42. 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) Link: https://www.sciencedirect.com/science/article/abs/pii/S0360544218304420
- 43. 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), Link: https://www.sciencedirect.com/science/article/pii/S2214157X18301266

- 44. 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) Link: https://www.sciencedirect.com/science/article/abs/pii/S0038092X18301828
- 45. 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, 2018, Vol. 3, No. 1, pp. 127-132, 2018. Link: http://www.irjaes.com/pdf/V3N1Y17-IRJAES/IRJAES-V3N1P588Y18.pdf
- 46. Ali H.A. Al-Waeli, K. Sopian, Hussein A. Kazem, Jabar Yousif, Migdam 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)

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Link: <u>https://www.springerprofessional.de/en/advances-in-nano-materials-used-in-photovoltaic</u> <u>-thermal-systems/18203076</u>



- Hussein A Kazem, "Impacts of Output Variability on Transmission and Distribution Networks". Book: Solar PV Power Intermittency and Implications on Power Systems, 2021, Cambridge Scholars Publishing, United Kingdom, Reg. Number: 4333775. VAT Number: 108280727.
- 213. James Watson, Lawrence Kazmerski, Dave Renne, Hussein A Kazem, K. Sopian, Nader Al-Bastaki, Dr Shaker Haji, Mohd. Yusof Othman, Winfried Hoffmann, Stefan Krauter, D. T Swift-Hook, and Tony Book "Practical Photovoltaic for Sustainable Electricity and Buildings", Editor: Prof Ali Sayigh, 1st Edition, Springer Nature 2017, ISBN10 3319392786, ISBN13 9783319392783, Switzerland.



214. **Hussein A. Kazem**, Miqdam T. Chaichan, Ali H. A. Alwaeli, "The Impact of Dust's Physical Properties on Photovoltaic Modules Outcomes. Book: Renewable Energy and Sustainable Buildings pp 495-506, 31 August 2019, **Springer**, ISBN978-3-030-18488-9.



BOOKS

- 215. **Hussein A. Kazem**, "Principles of Power Electronics", 1st Edition, Bishara Establishment Comp. Ministry of Information Serial Number: 91-2003, Muscat, Oman.
- 216. **Hussein A. Kazem**, "Principles of Three Phase Induction Machines", 1st Edition, Bishara Establishment Comp. Ministry of Information Serial Number: 248-2003, Muscat, Oman.
- 217. 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. Link: <u>https://www.amazon.com/PHOTOVOLTAIC-POWER-SYSTEMS-PROSPECTIVE-</u> OMAN/dp/3659372951



218. Hussein A. Kazem, "Renewable and Sustainable Energy, Principles and Applications", 1st Edition, 978-3-659-46238-2 LAP LAMBERT Academic Publishing, Germany. Link: <u>https://www.amazon.co.uk/Renewable-Sustainable-Energy-Principles-Applications/dp/ 3659462381</u>



219. Miqdam T Chaichan and Hussein A Kazem, "Generating Electricity Using Photovoltaic Solar Plants in Iraq", 1st Edition, Springer Nature 2018, ISBN: 978-3-319-75030-9. Link: <u>https://link.springer.com/book/10.1007/978-3-319-75031-6</u>



220. Ali H A Al-Waeli, Hussein A Kazem, Miqdam T Chaichan and K Sopian, "Photovoltaic/Thermal System: Principles, Design and Applications", 1st Edition, Springer Nature 2020, ISBN: 978-3-030-27824-3. Link: <u>https://www.springer.com/gp/book/9783030278236</u>

> Ali H A Al-Waeli - Hussein A. Kazem Miqdam Tariq Chaichan Kamaruzzaman Sopian

Photovoltaic/ Thermal (PV/T) Systems

Principles, Design, and Applications

Springer

221. K Sopian, Ali H A Al-Waeli, **Hussein A Kazem**, Miqdam T Chaichan, "Photovoltaic thermal collectors with nanofluid and nano-PCM", to be publish in the National University of Malayisa, In Press.

PHOTOVOLTAIC THERMAL COLLECTORS WITH NANOFLUIDS AND NANO-PCM



JOURNALS & INTERNATIONAL BODIES REFEREE

Citation index Journals Reviewer

- 1- IEEE Industrial Electronics Society IES
- 2- IEEE Transaction of Power Electronics
- 3- Nature-Sceientific 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-Hyrogen 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.
- 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.
- Book. "Technology of Photovoltaic Power Generation and its Grid-Connection", by Guangyu Wang, 1st Edition, Wiley, UK, 2014.
- Book. "Photovoltaics: Fundamentals, Technology and Practice", 2nd Edition, Wiley, UK, 2016.

CONFERENCES REFEREE

- IEEE International Electric Machines and Drives Conference IEMDC07, Antalya, Turkey, May 3-5 2007, <u>http://www.iemdc07.org</u>.
- The 33rd Annual Conference of the IEEE Industrial Electronics Society IECON07, Taipei, Taiwan, November 5-8 2007, <u>http://www.iecon07.ccu.edu.tw</u>.
- IEEE International Conference on Industrial Technology IEEE ICIT2008, 21-24 April 2008, Sichuan University, Chengdu, China, <u>http://www.scueei.net/icit08/</u>
- 4- The IEEE International Symposium on Industrial Electronics IEEE ISIE2008, July 2, 2008 Cambridge, UK, <u>http://www.fastconf.com/isie2008/</u>
- 5- 36th Annual Conference of the IEEE Industrial Electronics Society, ECON-2010, 7-10 November 2010, Glendale, AZ, USA, <u>http://iecon2010.njit.edu/index2.html</u>
- 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.
- 20th IEEE International Symposiam on Industrial Electronics, Gadansk, Poland, 27-30 June 2011.
- 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 Symposiam on Industrial Electronics, Gadansk, **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, Mol and MoU

- 1- Renewable Energy Research Center-UKM, Kuala Lampur-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:

Name of student	Degree	University		Year	Status
1-Zaki Ahmed Darwish	PhD	University Kebangsaan Malaysia		2012	Graduated
2-Hilal Al-Mamari	PhD	Universidad Complutense De Madri	d	2014	Graduated
3-Ali H A Alwaeli	PhD	University Kebangsaan Malaysia		2016	Graduated
• Master Theses:					
Nome of student	Dograa	Linivorsity	Vor	or S	tatus
Name of Student	Degree	Oniversity	100	<i>a</i> 3	เลเนร
1-Khamis Al-Saidi	MSc	Newcastle University-UK	200)8 G	raduated
2-Naser Al-Wahshi	MSc	Newcastle University-UK	200)9 G	raduated
3-Ibrahim Ali Al-Mamari	MSc	Newcastle University-UK	201	10 G	raduated
4-Salim M. Ali Al-Kabi	MSc	Newcastle University-UK	201	10 G	raduated
5-Kutyaba Mazin	MSc	University of Malaysia Perlis	201	13 G	raduated
6-Huthaifa Mazin	MSc	University of Malaysia Perlis	201	13 G	raduated
7-Imad Eldeen	MSc	Sohar University	201	17 G	raduated
8- Mariam Al Nofli	MSc	University of Glasgow	202	20 G	raduated

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

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

REFEREES

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 Sultanate of Oman
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 GSM: ++968-99661242
 E-mail: h.edrees@soharuni.edu.om
- Dr. Mohammed Al-Miqbali
 Pro. VC, Student Affairs & Engagement
 University of Buraimi
 Buraimi
 Sultanate of Oman
 Telephone: ++968-99343444
 E-mail: almoqbalim@soharuni.edu.om
- Prof. Ali Sayigh
 Director of World Renewable Energy Congress
 PO Box 362, Brighton, BN2 1YH,UK
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 Email: asayigh@netcomuk.co.uk
 http://wrenuk.co.uk

 Dr Dato Kamaruzzaman Sopian (Professor) Solar Energy Research Institute - Director Universiti Kebangsaan Malaysia 43600 Bangi Selangor MALAYSIA <u>ksopian@ukm.edu.my</u> Telephone:603-89214592, 8921 5555 H: 603-89265126, M: 60193375785

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Manager Renewable Energy Strategic Program The Research Council of Oman Muscat Sultanate of Oman **Telephone**: +96825446550 Mobile: 92828303 Email: ahmed.albusaidi@nct.edu.om

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 Senior Researcher in Photovoltaic Power Systems,
 Institute of Networked & Embedded Systems,
 Alpen-Adria Universitat Klagenfurt
 Lakeside laps B10.A, L10.2.18, 9020 Klagenfurt, Austria,

Telephone: 004346327003637 Mobile: 00436645649732|Office Email: tamer.khatib@aau.at | Skype: tamer.khatib313

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, Neurosolution.

LANGUAGES

English and Arabic

HOBBIES AND INTERESTS

Reading, Computers, Swimming and Football

(WWW.YOUTUBE.COM) مقابلات تلفزيونية

حفل 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/AlU1xaG78Hs

مقابلة تلفزونية – تلفزيون عمان - بحوث - الخميس ٢٧ نوفمبر ٢٠١٤ https://www.youtube.com/watch?v=WvB5ehX4cY8&feature=youtu.be

- on YouTube "2014-01-07 "برنامج من عمان- حلقة الثلاثاء on YouTube http://www.youtube.com/watch?v=91uyrnl1aJg&feature=youtube_gdata_player

> مقابلة تلفزونية – تلفزيون عمان http://www.youtube.com/watch?v=S2Weu_R3-ao

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

- on YouTube "مشاريع وتجارب جامعة صحار في توليد الطاقة الشمسية" http://www.youtube.com/watch 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

الجلسة الحوارية للركيزة البينية للاستدامة https://twitter.com/nama_estidama/status/940629155422654464

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	3.00 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	Sohar University
			System	
2014	1	0.90 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
2020	1	0.25 kW	Grid Connected System	Sohar University
2020	1	1.25 kW	Grid Connected System	Sohar University
2020	1	0.60 kW	Standalone Solar System	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: Petrolium Development Oman (PDO), Burhan Field, Muscat, Oman.
Total Amount: US\$ 41,065.
Duty: Principle-Investigator
Client: Petrolium Development Oman (PDO), Burhan Field, Muscat, Oman
Statues: : 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)
Statues: : submitted

19- Project in title "A novel design and evaluation of nano-fluid photovoltaic thermal solar energy system in Oman"
Funding Sources: The Research Council of Oman, Oman,
Total Amount: US\$ 49,223.
Duty: Principle-Investigator
Program: Blocked Research Grand
Statues: : submitted