



Prof. Abdul-Ghani Olabi

***Professor and Head of Sustainable and Renewable Energy Engineering
Department***

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Scopus Author ID: 6701475462

<https://scholar.google.co.uk/citations?user=JNOFSa4AAAAJ&hl=en>

Academic Qualification:

- PhD of Mech. Eng. (1991-1993), Dublin City University (Ireland).
- Master of Mech. Eng. (1989-1990), Dublin City University (Ireland).
- Degree of Mechanical Engineering (H), (1979-1984), Damascus University (Syria).

Professional Experience:

- Sept. 2021 Director of the Energy and Power Systems Research Centre
- 2018-2021 Professor and Head of Department of Sustainable and Renewable Energy Engineering, University of Sharjah.
- 2018 Visiting Professor at Aston University.
- 2019 Director of Energy Storage Systems and Energy Management Research Group, University of Sharjah.
- 2013-2018 Professor of Engineering at the University of the West of Scotland.
- 2013 Director of Institute of Engineering and Energy Technologies.
- Research Excellence Framework REF2014, Uo15 Leader (General Engineering).
- 2011-2012, Deputy Head of School of Mechanical Engineering.
- April 2008-2013, Associate Professor, Dublin City University, School of Mechanical and Manufacturing Engineering.
- Oct 2002-April 2008 Assistant Professor, Dublin City University, School of Mechanical and Manufacturing Engineering.
- 4 Years (1998- 2002) Research Centre of FIAT (CRF), Research Director, Research and Developments of the new engine feeding and injection systems with alternative fuel: LPG, CNG and H2.
- 5 Years (1994-1998) lecturer HIAST [Higher Institute of Applied Science and Technology, (Damascus, Syria)], lecturing in the following subjects: Materials, Manufacturing Processes, Supply Chain Supplement, CAD/CAM and FEM.
- 3 Years (1991-1993) working in a research project to obtain PhD. Degree.
- 2 Years (1989-1990) working in a research project to obtain M.Eng. Degree.

- 4 Years (1984-1988) Junior Engineer in R&D -Damascus, Syria.

Responsibilities & Duties:

- Director of the Energy and Power Systems Research Centre.
- Head of Department of Sustainable and Renewable Energy Engineering.
- Member of the college Board.
- Coordinating the accreditation submission for Master and PhD in Sustainable and Renewable Energy Engineering.
- Accreditation; Expert academic reviewer (committee member/chairman).
- REF2021 Leader, “General Engineering”.
- Institute of Engineering and Energy Technologies, Director, (Since 2013), www.uws.ac.uk/ieet
- REF2014 Uo15 Leader, “General Engineering”.
- Member of the Faculty Promotion Board (2013-2018).
- Chairman of Interviewing Panels (2013-2018).
- Member of Interviewing Panel (2013-2018)
- Member of School Board (Since 2013).
- Member of University Research Committee (2013-2014).
- Member of School Research Committee (Science 2014).
- Director of MSc Programme in Mech. & Manuf. Eng. (Sept 2011-March 2013)
- Deputy Head of School of Mechanical Engineering (2011-2012).
- International Director (Jan 2003 - March 2013).
- Director of Manuf. Eng. With Business Studies Programme (2005-2010)
- School Research Convenor: (Sept. 2007 to Sept 2010).
- School finance director (2005-2010).
- School Management Committee (2005-2010)
- Member of Faculty Research Committee “FRC”: (Sept. 2007 to Sept 2010).
- Member of Faculty Education Committee “FRC”: (Sept. 2011 – March 2013).
- Member of DCU Academic Council (2007-2012).

Teaching Experience:

- Renewable Energy Technologies
- Energy storage Systems
- Engineering Materials
- Manufacturing Processes
- Supply Chain Management
- CAD and Design
- Project Management
- Energy Management
- CAM
- CIM

PhD Supervision:

1. PhD: Giovanna Brunetti, Three Dispersed Magnetorheological Fluids in Dampers for Manufacturing Applications, August 2021.
2. PhD: Fawwad Nisar, Design Optimisation and Development of Hydrogen Energy Storage System, September 2020.
3. PhD: Abdulrahman Al-Anazi, Development of Proton Exchange Membrane Fuel Cell technology in Saudi Arabia, June 2020.
4. PhD: Oluwatosin Samuel Ijaodola, Innovative Bipolar Plate Materials Investigation Using Serpentine and Open Pore Foam of Flow Field Channel for Proton Exchange Membrane Fuel Cells, May 2020.
5. PhD: David Maizak, Development of an Exhaust After-Treatment Device to Improve the Low Temperature NOx Reduction Efficiency, May 2020.
6. PhD: Emmanuel Olubunmi Ogungbemi, Analysis of Proton Exchange Membranes for an Innovative PEM Fuel Cell using CFD, May 2020.
7. PhD: Ruth Chinyere Anyanwu, Development and optimisation of effective approach to cultivate and dewater microalgae biomass for biofuels production, January 2019.
8. PhD: Omar Alghoul, Development and Optimization of Anaerobic Digestion Using Waste Materials, August 2018.
9. PhD: Awotwe Tabbi Wilberforce, Design and Development of Innovative Proton Exchange Membrane Fuel Cell Using Open Pore Cellular Foam Material, July 2018.
10. PhD: Chukwuma Onumaegbu, Optimization of three different pre-treatment processes to enhance lipid extraction from microalgal biomass, June 2018.
11. PhD: Khalid Almazyed, Attitude of Employees Toward Organizational Productivity: A Comparative Analysis of Public and Private Construction and Manufacturing Companies in Kingdom of Saudi Arabia, January 2018.
12. PhD: Cristina Rodriguez, Enhanced Methane Production from Mixed Waste Organic Materials, September 2017.
13. PhD: Atinuke Modesola Oladoye, Design and Characterisation of Metallic Bipolar Plates for Proton Exchange Membrane Fuel Cells, August 2016.
14. PhD: Ahmed Al-Makky, Prediction of the Gas Emission and Movement from Soil Media with Concern of Energy and Environment, June 2016.
15. PhD: Maria Montingelli, Development and application of a mechanical pretreatment to increase the biogas produced from Irish macroalgal biomass. September 2015.
16. PhD: Leonard Ekpeni, Investigation of Biomasses in Improving Biogas Production through their Uses in High-Pressure Homogenizer (HPH), May 2015.
17. PhD: Abdalmonem Tamtam, University Students and Teaching Staff Attitudes toward Language of Instruction in Libyan Science and Engineering Education, January 2014.
18. PhD: Ahmad Baroutaji, Energy Absorption Through the Lateral Collapse of Thin-walled Single, Nested and Sandwich Tubes, October 2013.
19. PhD: Ayad Khalifa Mohamed Aboderheeba, Novel Approach to Pre-treats Agriculture Products/Residues and Food Waste to Improve Biogas Production and Optimization Analysis using Design of Experiment, August 2013.
20. PhD: Ali Abdullah Alghamdi, Magneto-Rheological Damper Design for Vehicle Suspension System, July 2013.

21. PhD: Silvia Tedesco, Hollander beater mechanical pre-treatment assessment to advance methane generation from Irish indigenous marine (macroalgal) biomass. July 2013.
22. PhD: Izwan Ismail, Stress-Resistance of Magnetorheological Fluid in Squeeze Mode, May 2013.
23. PhD: Muhammad Hasanuzzaman, Investigation of Porous Glasses Based On Sodium Borosilicate Glass System, April 2013.
24. PhD: Mustafa Sajjia, Developments of New Driveline Components, PhD, March 2013.
25. PhD: Abed Al-Aswad, Finite Element Application For Multi Layered T-Branch Hydroforming, PhD, Feb 2012
26. PhD: Marwa Ali, Developments of an Eco-friendly Composite Material for Engineering Applications, Jan 2012
27. PhD: Hussam Achour, Effects of Fuel Systems on Air Pollution, PhD, Feb 2012.
28. PhD: James Carton, Developments of PEM Fuel Cell, PhD, May 2011.
29. PhD: Hayat El-Tawahni, Optimization of the Laser Cutting Process for Ceramic Materials, PhD, Feb 2011.
30. PhD: Muhammad Rehan, Design Optimisation of Mechanical Structures, PhD, July 2010.
31. PhD: Vincent Lawler, Finite Element and Experiment on S.O. Fuel Cell, PhD, June 2010.
32. PhD: Nasser Ekreem, Electro-Magnetic Properties of Parts Magnetostrictive Materials, Jan 2009.
33. PhD: Saiful Amri Bin Mazlan, Magneto Rheological Fluid "MRF" Characteristics, PhD, June 2008.
34. PhD: Ezzeddin M. Hassan, Optimization of Dissimilar Welded Components, PhD, June 2008
35. PhD: Artur Grunwald, Design and Optimization of Magnetostrictive Actuator, Sept 2007
36. PhD: Lutfi El-Gammudi, Effects of Mechanical Properties, Product Quality and Marketing Implication Due to Utilization of Rejects, Sept 2007.
37. PhD: Khaled Ben Younis, Optimisation of Laser Welded Joints, Jan. 2007.
38. PhD: Edmund Morris, Computational Simulation of the Response of Nested Systems to Impact Loading, Sept. 2006.
39. PhD: M.M.Rahman, Modelling of Rheological Characteristics of Curing PMMA Bone Cement, March 2006.

M.Phil Supervision:

1. M.Phil. A.Abulamosha, Strategy for the Development of CNG System, July 2005.
2. M.Phil. Khaled Saeed, CIM Implementation in Developed and Developing Countries, July 2005.
3. M.Phil. M.D. Din Islam, Experimental and Finite Element Study of the Hydroforming Bi-Layered Tubular components, July 2005.
4. M.Phil. A.Alsebaie, Characterisation of Alumina-Zirconia Nanocomposites, December 2005.
5. H M.Phil. ayat Tawahini, Optimization of Soft Magnetic Materials, April 2006.

6. M.Phil. M. Hasanuzzaman, Effects of Particle Size and Aspect Ratio on the Shrinkage Characteristics of Sintered Parts, Sept. 2006.
7. M.Phil. Habibulla Amin Chowdhury, Developments of Advanced CNG System, MEng, July 2008.
8. M.Phil. Andrew Clarke, Production and Optimization of Bio Fuel Energy, MEng, Aug. 2009.
9. M.Phil. Fatma A. Alfarjani, Design and Optimization of Process Parameters in Bio-Gas Production Systems, January 2012.
10. M.Phil. Esam Tabouli, Computer Intergrated Manufacturing in Prints Industry, August 2016.

Patents granted:

- **Patent Number: GB2505693-A; WO2014037494-A2**, Membrane cell arrangement e.g. electrolyser for use in fuel stack used in electronic device, has two fuel cells that shares common gas distribution layer, which is provided with open pore cellular foam flow manifold
- Project: Design and Optimization of a Mechanical Device and Delivery System for Medical Applications, IP-2008-0529, sponsored by EI. We have managed to design innovative Delivery Actuator and implant for a Transcervical Sterilization Device, this innovation has been patented by “Trinitas Ventures Ltd” as have been agreed by the research contract.

Accreditation Chairman:

- 2019, Member of the Accreditation Panel to evaluate the Engineering Programme at Prince Sultan University (Saudi Arabia).
- 2018, Chairman of the Accreditation Panel to evaluate the Engineering Programme at Limerick Institute of Technology (Ireland).
- 2017, Chairman of the Accreditation Panel to evaluate the Engineering Programme at Tallaght Institute of Technology (Ireland).
- 2013, Chairman of the Accreditation Panel to evaluate the Engineering Programme at Limerick Institute of Technology (Ireland).
- 2012, Member of the Accreditation Panel to evaluate the Engineering Programme at Cork Institute of Technology (Ireland).
- 2009, Member of the Accreditation Panel to evaluate the Mechanical Engineering Programme at University of Limerick (Ireland).
- 2009, Preparing all accreditation documents for Manufacturing Engineering with Business Studies, Results: Accreditation Obtained
- 2005, Preparing all accreditation documents for Manufacturing Engineering with Business Studies, Results: Accreditation Obtained.

Interview Panels:

- Member of interview panel in August 2014 to appoint Reader/SL in Mech. Eng.
- Member of interview panel in August 2014 to appoint Lecturer in Mech. Eng.
- Member of interview panel in August 2014 to appoint Lecturer in Computing.
- Member of interview panel in January 2016 to appoint Lecturer in Chem. Eng.

- Chairman of interview panel in Oct 2015 to appoint KTP Associate.
- Chairman of interview panel in Dec 2015 to appoint KTP Associate.
- Chairman of interview panel in August 2016 to appoint KTP Associate.
- Chairman of interview panel in Dec 2016 to appoint KTP Associate.
- Member of interview panel in January 2016 to appoint Lecturer in Chem. Eng.
- Member of interview panel in January 2017 to appoint Lecturer in Chem. Eng.
- Member of interview panel in May 2017 to appoint Lecturer in Chem. Eng.
- Member of interview panel in June 2017 to appoint Lecturer in Mech. Eng.
- Member of interview panel in December 2017 to appoint Lecturer in Mech. Eng.
- Member of interview panel in December 2021 to appoint faculties in Sustainable and Renewable Energy Engineering.

Promotion Panels:

- Member of Faculty promotion panel April 2011.
- Member of School promotion panel Dec 2014.
- Member of School promotion panel Dec 2015.
- Member of School promotion panel Dec 2016.
- Member of School promotion panel Jan 2018.
- Chair Department Promotion Panel Oct 2018.
- Chair Department Promotion Panel Nov 2019.
- Chair Department Promotion Panel Nov 2020.
- Chair Department Promotion Panel Nov 2021.

Editorial:

1. Associate Editors: Energy Journal, Elsevier,
http://www.elsevier.com/wps/find/journaleditorialboard.cws_home/483/editorialboard
2. Subject Editor: Energy Journal, Elsevier for Hydrogen and Fuel Cell from Jan 2010.
3. Editor: Renewable & Sustainable Energy Reviews, Elsevier
<https://www.journals.elsevier.com/renewable-and-sustainable-energy-reviews/editorial-board>
4. Editor in Chief of Section Sustainable Energy-Energies
http://www.mdpi.com/journal/energies/sectioneditors/sustainable_energy
5. Associate Editor of Smart Energy Journal, Elsevier,
<https://www.journals.elsevier.com/smart-energy/editorial-board>
6. Editor for the International Journal of Thermofluids, Elsevier,
<https://www.journals.elsevier.com/international-journal-of-thermofluids/editorial-board>
7. Editor in Chief of Encyclopedia in Smart Materials (Elsevier).
8. Subject Editor: Research in Candidate Materials, *Reference Module in Materials Science and Materials Engineering, Elsevier*.
9. Editorial Board, Area Editor: Simulation Modelling Practice and Theory, Elsevier
http://www.elsevier.com/wps/find/journaleditorialboard.cws_home/622330/editorialboard
10. Editorial Board: Journal of Sustainable Manufacturing and Renewable Energy,
https://www.novapublishers.com/catalog/editorial.php?products_id=11953

11. Editorial Board: Renewable and Sustainable Energy Reviews, <https://www.journals.elsevier.com/renewable-and-sustainable-energy-reviews/editorial-board>
12. Editorial Board: World Journal of Modelling and Simulation, <http://www.wjms.org.uk/>

National delegate:

- Management committee of the European research project Action-COST-242 “High Performance Energy Storages for Mobile and Stationary Applications”.
www.cost.esf.org/print/?type=afs&action_number=542
<http://www.cost.esf.org/index.php?id=251&IDAdd=178901>
- Management Committee of the European research project Action-COST-MP1004 “High Performance Energy Storages for Mobile and Stationary Applications”.
- European Association for Experimental Mechanics “EURASEM”.
<http://www.soton.ac.uk/~eurasem/contacts54.html>

Conferences Chairman:

- Sustainable Energy and Environmental Protection SEEP 2004, Dublin-Ireland.
- Sustainable Energy and Environmental Protection SEEP 2006, Dublin-Ireland.
- Sustainable Energy and Environmental Protection SEEP 2009, Dublin-Ireland.
- Sustainable Energy and Environmental Protection SEEP 2010, Bari-Italy.
- Sustainable Energy and Environmental Protection SEEP 2012, Dublin-Ireland.
- Sustainable Energy and Environmental Protection SEEP 2013, Maribor-Slovenia.
- Sustainable Energy and Environmental Protection SEEP 2014, Dubai-UAE.
- Sustainable Energy and Environmental Protection SEEP 2015, Paisley-UK.
- Sustainable Energy and Environmental Protection SEEP 2016, Turkey.
- Sustainable Energy and Environmental Protection SEEP 2017, Bled-Slovenia.
- Sustainable Energy and Environmental Protection SEEP 2018, Paisley-UK.
- Sustainable Energy and Environmental Protection SEEP 2019, Sharjah-UK.
- Materials Science and Smart Materials MSSM 2018, Paisley-UK.
- Materials Science and Smart Materials MSSM 2019, Birmingham-UK.

Conferences Co Chairman:

- Advanced Materials & Processing Technology AMPT 2003.
- International Symposium on Engineering Education 2007.
- International Symposium on Engineering Education 2008.
- Materials Science and Smart Materials MSSM 2021, London-UK.
- Sustainable Energy and Environmental Protection SEEP 2021, Vienna-Austria.

International Evaluator:

- Promotion Assessment, Sultan Qaboos University, 2020.
- Promotion Assessment, Qatar University, 2020.
- Promotion Assessment, Palestine Polytechnic University (PPU), 2020.
- Research Proposals, Slovenian Research Agency (ARRS), 2020.

- Research Proposal, University of Kuwait, 2019-2020.
- Referee for Abdul Hamid Shoman Award-2019.
- Grant Funding of research proposals 2014-2017, National Center of Science and Technology Evaluation, Republic of Kazakhstan.
- Kuwait Research Fund proposal 2016-2017, Kuwait
- Promotion Assessment, American University of Sharjah, 2016.
- Assessment of Quality in Scientific Research 2004-2010, sponsored by MIUR (Italian Ministry for Research and Education).
- Evaluator for PRIN 2012 research funded project by MIUR (Italian Ministry for Research and Education).
- Evaluator for Futuro in Ricerca 2013 research funded project by MIUR (Italian Ministry for Research and Education).

PhD External Examiner:

1. PhD, 2021, Towards the production of adsorbents from mixed domestic discarded materials using heat pipe pyrolysis, Brunel University London, UK.
2. PhD, 2021, Laser Cladding of Tool Steel For Grain Boundary Stability, Universiti Malaysia Pahang, Malaysia.
3. PhD, 2020, Sizing, Dynamic Modeling and Simulation of a Solar-Wind-Hydrogen Power System of the MUN Explorer Autonomous Underwater Vehicle, Memorial University of Newfoundland, Canada.
4. PhD, 2020, Preparation, Tribological Behavior, and Characterization of Lube Oil With Nanoparticles Additives, University of Malaya, Malaysia.
5. PhD, 2019, Experimental and theoretical investigation of a radiative flat heat pipe based heat exchanger for waste recovery in the steel industry, Brunel University London, UK.
6. PhD, 2019, Hybrid Solar-Biomass Power Generation Systems, Technical University Dublin, Ireland.
7. PhD, 2018, On the thermodynamics and dynamics of coal and biomass combustion, University of Glasgow, UK.
8. PhD, 2018, Modelling of Laser Surface Glazing for Metallic Materials by Finite Element Method, City University London, UK.
9. PhD, 2018, Development of a global energy management system for non-energy intensive multi-site manufacturing organisations, National University of Ireland, Galway, Ireland.
10. PhD, 2017, Numerical and Experimental Investigation of Multi-Pass Thermosyphon-Based Heat Exchanger, Brunel University London, UK.
11. PhD, 2017, Investigation on Modelling and Optimization of the Cleanroom, Cork Institute of Technology, Ireland.
12. PhD, 2017, Thermal Efficiency of Nanofluid-Based Flat Plate Solar Collector, University of Malaya, Malaysia.
13. PhD, 2016, Analysis and modelling of Particulate Matter Filtration in Internal Combustion Engine Exhaust After treatment Systems, Università di Roma Tor Vergata, Italy
14. PhD, 2015, Production of Biodiesel by Mixed Culture of Oleaginous Yeast *Rhodosporidium Toruloides* and Microalga *Chlorella Pyrenoidosa* from Wastewater, University of Macau, China.

15. PhD, 2015, Modelling of the thermal behaviour of a two-phase closed thermosyphon, Brunel University London, UK.
16. PhD, 2015, Experimental Investigation with CFD Modelling of Thermosyphon-Equipped Heat Exchangers Used For Recovery of Low-Grade Heat, University of South Wales, UK.
17. PhD, 2015, Dyeing Process Parameters Optimization and Quality Characteristics Modeling for Viscose Blended Knitted Fabrics, University of Malaya, Malaysia.
18. PhD, 2015, A Novel Magnetorheological Damper Using a Cooling System, Universiti Teknologi Malaysia, Malaysia.
19. PhD, 2015, Study of Organic Rankine Cycle and its Modeling Incorporating District Heating System Vis-À-Vis Impacts on Environment and Society, Department of Mechanical Engineering, National Institute Of Technology, Agartala- India.
20. PhD, 2014, Studies on Tribological Wear Behaviour for Optimization of Dual-Phase Steels, Visvesvaraya Technological University-India.
21. M.Eng, 2013, Controllable Suspension Design Using MagnetoRheological Fluid, University of Pretoria, South Africa.
22. PhD, 2013, Experimental Analysis of a Flat Plate Collector with Solar Tracking for Various Applications, Visvesvaraya Technological University-India.
23. M.Eng., 2012, Development of Portable Tensile Tester and its Use in Characterising Mechanical Behaviour of Polymer Specimens, UCD, Dublin.
24. PhD, 2011, Design and Optimization of PV Energy System, Visvesvaraya Technological University-India.
25. PhD, 2010, Design of an Otto Cycle / Stirling Cycle Hybrid Engine based Combined Heat and Power Plant, DIT, Dublin
26. MPhil, 2008, Design Developments and experimental investigation into an EloFlux Alkaline Fuel Cell “AFC”, DIT, Dublin
27. PhD degree, 2008 thesis title: Analysis of Residual Stresses and Distortions in Circumferentially Welded Thin-Walled Cylinders, National University of Sciences & Technology, Pakistan.

Research Funding History:

- 2022, Energy Storage Systems and Energy Management group research fund, UOS, UAE.
AED 150.000,00
- 2021, Energy Storage Systems and Energy Management group research fund, UOS, UAE.
AED 135.000,00
- 2020, Principal Investigator, Innovative hybrid ventilation technology to combat the spread of COVID-19 and provide cooling at half of the energy cost – IHVT, UOS, UAE.
AED 210.000,00
- 2020, Energy Storage Systems and Energy Management group equipment fund, UOS, UAE.
AED 250.000,00
- 2020, Energy Storage Systems and Energy Management group research fund, UOS, UAE.
AED 100.000,00

- 2019-2021, Principal Investigator, Developments on the Microalgae Cultivation, Seed Fund, UOS, UAE.
AED 40,000.00
- 2017-2018, Co-Investigator, Algal Solutions for a Local Energy Economy (ASLEE)-Phase 2, funded by Local Energy Scotland.
£1.08M
- 2017-2019, Principal Investigator (PI), CFD and Prototype Developments for Tidal Energy, KTP with Linell, funded by Innovate UK.
£199K
- 2016-2018, Principal Investigator (PI), Hydrogen Cell Developments, KTP with PEAK Science, funded by Innovate UK.
£170K
- 2016-2018, Principal Investigator (PI), Design of Innovative Education Facilities, KTP with EME Furniture, funded by Innovate UK.
£150K
- 2016, Principal Investigator (PI), Energy Management “Report Review”, funded by Jabil, Livingston-UK.
£16.5K
- 2016, Principal Investigator (PI), Study on Heating, Cooling and Air Conditioning “HVAC”, funded by Mitsubishi Electronic, Livingston-UK.
£7.5K
- 2016-2017, Co-Investigator, Algal Solutions for a Local Energy Economy (ASLEE)-Phase 1, funded by Local Energy Scotland.
£550K
- 2016, Principal Investigator (PI), Using Waste Heat in Cooking Industries, ETP.
£15K
- 2016, Principal Investigator (PI), Developments of Micro AD, ETP.
£15K
- 2015-2016, Co-Investigator, Robust Thermal Engineering Approach for Generating Energy from Waste, funded by Scottish Funding Council “Interface – Food and Drink”.
£96.5K
- 2015, Principal Investigator (PI), Feasibility Study for Using Waste Heat in Cooking Industries, funded by Scottish Funding Council “Interface – IV”.
£5K
- 2015, Principal Investigator (PI), Energy Optimization for Medical Device, funded by Scottish Funding Council “Interface – IV”.
£5K
- 2014, Principal Investigator (PI), CPD Course on Gas and Oil Developments, funded by Saudi Gov.
£15K
- 2013-2014, Principal Investigator (PI), Teaching Project on: Design, Optimization and Experimental Verification of Advanced Engineering Components, funded by MIUR-Italy
Euro53.5K
- 2013-2014, Principal Investigator (PI), Capital Fund to build Renewable Energy Lab, funded by UWS.

- £50K**

• 2013-2014, Principal Investigator (PI), Design and Development of Fuel Cell, funded by Enterprise Ireland.
- Euro260K**

• 2012-2015, Principal Investigator (PI), Development and application of innovative mechanical pre-treatment to increase the bio-gas produced from algae, funded by Irish Research Council.
- Euro72K**

• 2012-2015, Principal Investigator (PI), Design and Optimization of PEM Flow Plate, funded by Irish Research Council.
- Euro72K**

• 2013, Principal Investigator (PI), Design of Water Collector, funded by Enterprise Ireland “Innovation Voucher”.
- Euro5K**

• 2012, Principal Investigator (PI), Design of Anti-Bedsore Mattress Using MRF Materials, funded by Enterprise Ireland “Innovation Voucher”.
- Euro5K**

• 2011-2012, Principal Investigator (PI), Capital Fund to build Renewable Energy facilities, funded by DCU.
- Euro32K**

• 2010-2013, Principal Investigator (PI), Novel Pre-treatment of Biomass to Advance Irish Indigenous Biofuel Generation, funded by Irish Research Council.
- Euro72K**

• 2010-2013, Principal Investigator (PI), Watching Brief technology Review: Hydrogen and Fuel Cell & Watching Brief technology Review: Solar Energy, funded by Sustainable Energy Authority Ireland.
- Euro16K**

• 2010-2011, Co-Investigator, Optimization of the Cutting Parameters of New Developed Laser Cutting Machine, funded by Adriatica Industriale-Italy.
- Euro49.8K**

• 2009-2011, Principal Investigator (PI), Tempus Project Nr.159165.2009, Accreditation Pathway to Quality Assurance, funded by EC.
- Euro510K**

• 2009-2010, Co-Investigator, A Mechanical Methods of Rupturing Cell Walls, funded by Enterprise Ireland.
- Euro129K**

• 2008-2010, Principal Investigator (PI), Design and Optimization of a Mechanical Device and Delivery System for Medical Applications, funded by Enterprise Ireland.
- Euro102K**

• 2008, Principal Investigator (PI), Evaluon of Bio-Diesel in Ireland, funded by Enterprise Ireland “Innovation Voucher”.
- Euro5K**

• 2006-2008, Co-Investigator, Study to Characterise the Performance of Micro Tubular Solid Oxide Fuel Cells by the Invention of an Avant Garde Experimental Apparatus and Computational Modelling, funded by Austrian Science fund (FWF) HITSIM.
- Euro60.5K**

- 2006-2008, Co-Investigator, Increased Renewable Energy recovery from Biomass by highly Efficient Disruption Process, funded by EU, Project FP6-2004-SME-COOP.
Euro1.8M
- 2004-2007, Principal Investigator (PI), Design and Optimization of Magnetostrictive Actuator, funded by GKN-Germany.
Euro72K
- 2004-2006, Principal Investigator (PI), Tempus Project Nr.18062.2003, Curricula Development In Mechanical Engineering According To Bologna Declaration Towards A Two Tier Structure (Undergraduate And Graduate Studies), funded by EC.
Euro277K
- 2005-2012, Principal Investigator (PI), 2 PhD projects on Magneto Rheology Fluids “MRF”, funded by Higher Education Authority-Malaysia.
Euro240K
- 2009-2013, Principal Investigator (PI), 2 PhD projects on Magneto Rheology Fluids “MRF”, and PEM Fuel Cell, funded by Higher Education Authority-Saudi Arabia.
Euro240K
- 2006-2010, Principal Investigator (PI), 4 PhD projects on Renewable Energy, Materials and Manufacturing, funded by Higher Education Authority-Syria.
Euro480K
- 2003-2010, Principal Investigator (PI), 3PhD projects on Laser Welding and Cutting Characterisation, funded by Higher Education Authority-Libya.
Euro360K

Books Publications:

1. A.G. Olabi, A.H Alami, M. Tawalbeh and A. Inayat, 2019, **Toward 100% Renewables**, [ISBN: 978-9948-36-625-6](https://doi.org/10.1002/9781119994836).
2. A.G. Olabi, M. A. AbdelKareem, C. Ghenai and T. Salameh, 2019, **Renewable Energy Developments Beyond 2030**, [ISBN: 978-9948-36-626-3](https://doi.org/10.1002/9781119994836).
3. A.G. Olabi, 2018, **Materials Science and Smart Materials**, [ISBN: 9781903978634](https://doi.org/10.1002/9781119994834).
4. A.G. Olabi, 2018, **Renewable and Sustainable Energy Developments Beyond 2030-Volume 1**, [ISBN: 978-1-903978-60-3](https://doi.org/10.1002/9781119994834).
5. A.G. Olabi, 2018, **Renewable and Sustainable Energy Developments Beyond 2030-Volume 2**, [ISBN: 978-1-903978-61-0](https://doi.org/10.1002/9781119994834).
6. A.G. Olabi, 2018, **Renewable and Sustainable Energy Developments Beyond 2030-Volume 3**, [ISBN: 978-1-903978-62-7](https://doi.org/10.1002/9781119994834).
7. J. Krope, A. G. Olabi, D. Goričanec, S. Božičnik, 2017, 10th International Conference on Sustainable Energy and Environmental Protection: **Bioenergy and Biofuels**, ISBN-13: 978-961-286-048-6, DOI: <https://doi.org/10.18690/978-961-286-048-6>.
8. J. Krope, A. G. Olabi, D. Goričanec, S. Božičnik, 2017, 10th International Conference on Sustainable Energy and Environmental Protection: **Combined and Hybrid Energy Systems**, ISBN-13: 978-961-286-049-3, DOI: <https://doi.org/10.18690/978-961-286-049-3>
9. J. Krope, A. G. Olabi, D. Goričanec, S. Božičnik, 2017, 10th International Conference on Sustainable Energy and Environmental Protection: **Energy Efficiency**, ISBN-13: 978-961-286-050-9, DOI: <https://doi.org/10.18690/978-961-286-050-9>.

10. J. Krope, A. G. Olabi, D. Goričanec, S. Božičnik, 2017, 10th International Conference on Sustainable Energy and Environmental Protection: **Energy Management and Policies**, ISBN-13: 978-961-286-051-6, DOI: <https://doi.org/10.18690/978-961-286-051-6>
11. J. Krope, A. G. Olabi, D. Goričanec, S. Božičnik, 2017, 10th International Conference on Sustainable Energy and Environmental Protection: **Energy Storage**, ISBN-13: 978-961-286-052-3, DOI: <https://doi.org/10.18690/978-961-286-052-3>
12. J. Krope, A. G. Olabi, D. Goričanec, S. Božičnik, 2017, 10th International Conference on Sustainable Energy and Environmental Protection: **Environmental Management and Impact Assessment**, ISBN-13: 978-961-286-053-0, DOI: <https://doi.org/10.18690/978-961-286-053-0>
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