
Qualifications

- October 2020–August 2021 PG Cert University Learning and Teaching, Imperial College London, UK
Fellow Higher Education Academy
- July 2012 – Feb. 2016 PhD in Chemical Engineering and Analytical Science, *Integrating Waste Heat Recovery in Process Sites*, The University of Manchester, UK
- Sept. 2009 – Sept. 2010 M.Sc. in Advanced Chemical Process Design (with distinction), The University of Manchester, UK
- Sept. 2003 – Dec. 2007 B.Sc. in Chemical Engineering (4.21/5.00 CGPA), Obafemi Awolowo University, Ile-Ife, Nigeria.

Employment/Contracts

- September 2023 – Date **Lecturer in Cleantech**, Grantham Institute – Climate Change and the Environment, Imperial College London
- August 2021 – Date **Lecturer in Energy and Environmental Technology**, Centre for Environmental Policy, Imperial College London
- April 2022 – March 2023 **Visiting Lecturer**, Centre for Process Integration, University of Manchester, support teaching and research on integration of clean design interventions (technologies, fuels, products) in the manufacturing sector
- November 2019 – July 2021 **Imperial College Research Fellow**, Centre for Environmental Policy, Imperial College London
Competitive (<10% success) fellowships for researchers to establish an independent group.
Group Name: Modelling, Integration, Assessment and Commercialisation of Technological Solutions for Manufacturing Decarbonisation (ciesresearchgroup.com). Group members from 2019 – 2021: 1 Research Assistant, 1 Casual staff, 7 MSc students (as lead supervisor), and 3 PhD's (2 assistant supervisors and 1 co-supervisor)
- October 2020 – March 2021 **BEIS Industrial Strategy Fellowship** (Secondment)
 - Contributed to development of the UK hydrogen strategy (to be published in June 2021)
 - Lead on the development of a system of systems (SoS) approach to policy making
 - Conducted evidence assessment on cleantech fuelled hydrogen uptake policies and regulations
 - Lead on bottom-to-top analysis for policies to support hydrogen uptake,
 - Supported modelling for Hydrogen for industry
- March 2018 – Date Clean fuels, technologies, and products Consultant, Imperial Consultants and Privately
 - Lead projects on modelling, integration, assessment (environmental, economic, techno-economic) and commercialisation of low-to-zero carbon techs, fuels, products for use in several end-use systems (manufacturing, buildings, power generation and transport)
 - Prepare proposals and bid for several projects
- June 2016 – October 2019 Research Associate, Centre for Process Systems Engineering, Imperial College London
 - I collaborated with five research organizations and two industrial partners to explore the role of low carbon technologies in domestic and industrial energy systems

- I developed and quantified new business models to support fuel and technology switching in industrial systems
 - I develop state-of-the-art optimisation frameworks to support integration of low-to-zero carbon technologies in domestic and industrial energy systems. The models are applied to provide evidence to support policy creation, assess the market and flexibility potential of technologies, and provide business cases to support diffusion
 - I personally contributed to a consultation project on decarbonisation of energy intensive industries for the OECD
- Jan. 2016 – Research Associate, The University of Manchester, UK
May 2016
- I collaborated with Bayer Chemicals to apply the methodology from my PhD to their site. We achieved 12 – 53% reduction in CO₂ emissions. Case study published in Applied Energy (selected papers No. 12).
 - Developed a novel Model-Based Economic assessment of industrial systems
 - Supported the development of two-large scale research proposals (to exploit the project results) focusing on critical analysis of the state of art
- April 2014 – Residential Life Adviser, The University of Manchester Halls of Residence, UK
May 2016
- Provide pastoral care to over 300 undergraduate and postgraduate students in 2 halls of residence (Sheavyn House and Ashburne Hall), University of Manchester
 - Personal tutor (personal, academic and life issues) for 50 students (10 hours contact time per term)
 - Supported and organised events for hall residents throughout the year
- July 2012 – Teaching Assistant (*including course development*), The University of Manchester, UK
March 2016
- I developed and delivered an energy system design, optimization and economic assessment software tool and training material for the Distributed and Renewable Energy Systems course. The software has been used consecutively for nine years.
- April 2011 – Research Assistant, The University of Manchester, UK
June 2012 –
- I collaborated with European Institute for Energy Research, Caterpillar, EDF energy and two other industrial partners to quantify the potential of distributed energy in the UK
 - I performed multiple scenarios until 2050 to support the analysis.
 - I developed the optimisation framework applied in the project, and implemented it in a software tool.
 - Collaborated with Caterpillar to create digital twin of over 20 low carbon technologies for integration in the software
 - Performed an economic assessment of the affordability to support the business case
- Oct. 2010 – Process Design Engineer, Process Integration Limited, Manchester UK
March 2011
- I participated in operational improvements and retrofit projects in the petrochemical and refining industry geared towards increasing yield.
 - I participated in software development for the energy intensive industry
- July 2008 – Graduate Process Design Engineer, National Engineering and Technical Company, Lagos
August 2009
Nigeria
- I participated in preparing and updating process deliverables for projects within a specific time frame as well as bids and proposals, applied design tools like AUTOCAD and design softwares
- Jan. 2008 – Knowledge Transfer Graduate, National Oil Spill Detection and Response Agency, Port-
June 2008
Harcourt Nigeria

Teaching and Supervision

2018 – date	Co-supervisor for 3 PhDs and Main supervisor for 2 PhD, Imperial College London
2020 – date	Lecturer Energy Economics and Policy Module (Convener) Sustainable Energy Futures MSc, Energy Policy (Co-convener) Environmental Technology MSc, Imperial College London
2019 – 2021	Course Lecturer for Advanced Process Design as part of MSc Advanced Chemical Engineering, Imperial College London
2019 – 2020	Second Assessor for Resource Management Course, Imperial College London
2018 – 2020	Teaching assistant for Energy Systems Technology, part of MSc Sustainable Energy Futures, Imperial College London
2018 - 2020	Sole Supervisor for: 1 National Environment Research Council (NERC) Research Experience Placement, 1 Undergraduate Research Opportunities Programme (UROP), Imperial College London
2019 – date	Co-Supervisor of 4 MEng research projects
2017 – 2019	Lead Supervisor for 2 MRes students from Department of Energy, Politecnico di Torino
2016 – date	Leader Supervisor for 32 MSc research projects and co-supervisor for 1 MSc project at Imperial College London. 6 students from MSc Chemical Engineering, 9 from MSc Sustainable Energy Futures and 17 students from the MSc Environmental Technology, Imperial College London
2014 – 2016	Mentor for two PhD students, PhD Process Integration, The University of Manchester
2013 – 2014	Mentor for Manchester Access Program, The University of Manchester (4 students)
2012 – 2016	Graduate Teaching Assistant (with course development) for: Energy Systems, Utility Systems, Computer Aided Process Design, Reactions System Design, Distributed and Renewable Energy Systems, Heat Transfer and Process Integration, Process Design and Simulation, School of Chemical Engineering and Analytical science, University of Manchester
2012 – 2015	Supervisor for 10 foundation year students, The University of Manchester
2012 – 2015	Co-Supervisor of 2 MEng and 2 MSc research projects at School of Chemical Engineering and Analytical Science, The University of Manchester.

Evidence of Esteem

2022	Member of Clean Growth Leadership Network Youth Advisory Council Member of Clean Energy Ministerial Industrial Deep Decarbonisation Initiative's (IDDI) Joint Working Group Academic member The Sargent Centre for Process Systems Engineering
2021	Invited assessor for clean growth innovations submitted by entrepreneurs to the Clean Growth Fund, a UK-based, BEIS-backed investment fund established to support early-stage companies that have the potential to unlock significant GHG emissions savings
2021 – date	Invited Guest Editor of Special Issue ‘Novel Technologies for Utilising and Upgrading Waste Heat’ – systems, policies and business model to increase uptake
2021 – 2022	Invited Member Assessing Low Carbon Transition (ACT) Technical Working Group on Decarbonisation of cleantech manufacturing, Invited Member Climate Bond Initiative Technical Working Group on decarbonisation of cleantech manufacturing)
2020 – date	Invited Member Decarbonisation Leaders Network, a new ecosystem of tech and partners from across the energy-intensive sectors

2020 - 2021	BEIS Industrial Strategy Fellowship
2020	Invited Member of BEIS Strategic Advisory board for the Industrial Decarbonisation Strategy (published March 2021) Invited keynote speaker at the Achieving Net Zero: Decarbonising Industry roundtable by the All-Party Parliamentary Climate Change Group (APPCCG) (2020)
2019 – date	Research Theme Champion, Policy and Innovation, and academic champion for industrial decarbonisation Energy Futures Lab, Imperial College London
2018 – 2020	Invited Member of Scientific Advisory Board for International Conference on Sustainable Development of Energy, Water and Environment systems
2016 – date	Journal reviewer for: Energy Economics, Climate Policy, Elsevier; Energy, Applied Energy, Energies, Renewable and Sustainable Energy Reviews
2016	Invited Interviewed by the University of Manchester as the most impressive Chemical Engineering post-graduate student http://www.mub.eps.manchester.ac.uk/ceasblog/2016/07/29/chemengcatchup-episode-8-gbemi-oluleye/
2016 – date	Associate Member Institution of Chemical Engineers (AMIChemE)
2016 – date	Academic member Centre for Process Systems Engineering Industrial Consortium
2015	Manchester Doctoral College Best Contribution to Society Award
2014	Prize for best oral presentation, PGR conference, University of Manchester
2014 – 2016	Widening Participation Fellow, University of Manchester
2013 – 2018	Invited for Journal special issues based on papers shortlisted at international conferences and been a subject expert
2012 – 2016	Member Process Integration Research Consortium
2012 – 2014	Developed a software for design and economic analysis of distributed energy systems (contains over 17 low carbon technology options). Has been used to support teaching and research in the University of Manchester for 9 years.
2010	Best graduating student M.Sc. Process Integration, School of Chemical Engineering and Analytical Science, The University of Manchester
2001	Best graduating student in High School, Presentation National High School, Ugbekun, Benin City, Nigeria

Funding

Funded Grants (Total: £ 378,500)

Scheme	Value of Grant	Award Date
Decarbon8 Seedcorn Fund (Role: Co-I)	£20,000	August 2020
Imperial College London Open SPF call for white papers (Role: Co-PI)	£11,500	January 2020
	£215,000 (includes 4-yr salary)	November 2019
UKERC Whole Systems Networking Fund (Role: Co-PI) – part of this was used to provided seed funds to 3 projects	£60,000	June 2018
Process Integration Research Consortium PhD extension award (Role: Recipient)	£3,000	June 2015

Centre for Process Integration, School of Chemical Engineering and Analytical Science, University of Manchester Travel grant (**Role: Recipient**) £1,200 May 2015

Process Integration Research Consortium (PIRC) three year PhD scholarship (£67800) given to the best M.Sc. student Process Integration (**Role: Recipient**) £67,800 July 2012

Successfully delivered research projects as researcher (Total: £ 12,898,879)

Project	Project Value (Awarded)	Delivery Period
EU Horizon 2020 (No 671470): Demonstration of Large Solid Oxide Fuel Cell system fed with biogas from wastewater treatment plants (Role: Researcher)	£3.9 Million	June 2017 – March 2020
EPSRC Fabric Integrated Thermal Storage for Low-Carbon Dwellings project (Role: Researcher)	£998,879	June 2016 – September 2018
EU Seventh Framework Programme (No 296003): Efficient Energy Integrated Solutions for Manufacturing Industries (Role: Researcher)	£6.9 Million	February 2015 – July 2015
ETI Macro DE project (Role: Researcher)	£1.1 million	April 2011 – December 2012:

Consultancies (Total: £170,000)

Project	Project Value (Awarded)	Delivery Period
European Commission: study on technological solutions and cost for advanced energy efficiency in the industrial sector (Role: PI)	£20,000	April 2022 – September 2022
Skydiamonds: Integration and Environmental Assessment of cleantech (electrolysers, direct air capture) for diamond production from Carbon dioxide (Role: PI)	£10,000	December 2021 – July 2022
Ecotricity: Analysing Green Gas Potential in the UK (Role: PI)	£24,000	March 2022 – June 2022
International Gas Union: Global Hydrogen and Renewable Gas Database, in collaboration with Oxford Institute of Energy Studies, University of Texas Austin, RBAC Energy Market Simulation Systems (Role: Work package leader)	In-kind	January 2021 – June 2021
Ecotricity: The Green Britain, Carbon Footprint calculator, Client: Ecotricity (Role: PI)	£28,000	December 2021 – June 2022
Ecotricity: Environmental Impacts of Mined Diamonds (Role: PI)	£15,000	April 2020 – September 2020
The Catalyst Group Resources: Energy Efficiency and CO2 mitigation case study series vol 3: Allied Industries; cement and iron and steel and mining (Role: Work package leader)	£20,000	February 2020 – June 2020

Oxford Institute of Energy Studies: Renewable gas potential in Europe (Role: PI)	£6,000	February 2019 – June 2019
BP: exploring the potential of alternative ammonia production and end use pathways (Role: Work package leader)	£32,000	April 2019 – August 2019
Organisation for Economic Co-operation and Development: Emerging Strategies for Decarbonising Energy Intensive Industries (Role: Work package leader)	£15,000	March 2018 – June 2018

Professional Activities

2022	Member of Clean Growth Leadership Network Youth Advisory Council: In case of radical technological innovations for transforming refining and petrochemicals
2020 – 2021	Member Decarbonisation Leaders Network, a new ecosystem of tech and partners from across the energy-intensive sectors
2019 -2020	Centre for Environmental Policy Mitigating Circumstances Committee
2017 - 2022	Mock interview panellist for the Post Doc and Fellows Developmental Centre (PFDC)
2014 – 2016	Widening participation fellow, University of Manchester
2014 – 2016	Residential Life Adviser, The University of Manchester Halls of Residence, UK
2013 – 2014	Post Graduate Student Representative, Centre for Process Integration, The University of Manchester, UK
2012 – 2013	Post graduate students Ambassador, Faculty of Engineering and Physical Sciences, The University of Manchester, UK
2011 – date	(a) Associate Member, Institution of Chemical Engineers (November 2017), (b) Associate Member, Nigerian Society of Chemical Engineers, (c) Member of Quantitative Analysis Group, Imperial College London.

Activities to Promote Equal Opportunities

(championing diversity initiatives, mentoring females, and female black and minority ethnic staff)

2021 – 2022	Member Task and Finish Group on Non-gendered References, Imperial College London
2019 – 2021	Member College Athena SWAN Self-Assessment Team
2017 – 2019	Lead a collaboration between UKERC sponsored IVUGER project and STEMM-CHANGE which contributed towards Imperial College acquiring and implementing the use of job advert wording screening tool, TEXTIO to eliminate bias from job advert wording
2019	Organised a 2-day residential funding retreat for 30 women in energy research from 15 universities and multiple ethnicities.
2018	Spoke on increasing diversity (related to wording of job adverts) during OFGEM Economists Recruitment Campaign
2018	Presentation and training on Increasing Visibility of Underrepresented Groups to Senior Members of UK Civil service
2018	Organised a Networking and mentoring event for 30 women in energy from academia, industry and policy making

- 2018 My work on diversity and inclusion: On increasing visibility of women in energy research <https://energyfutureslab.blog/2019/01/03/how-a-network-of-female-energy-professionals-aims-to-defy-the-sectors-diversity-challenges/>
- 2014 – 2016 I provided support, training and mentorship as a widening participation fellow for the University of Manchester to ensure barriers to studying and learning are minimal for underrepresented groups

Media Engagement (including Policy Engagement)

- 2021 UK Parliament, ways to engage with parliament, academic stories video interview, <https://www.parliament.uk/get-involved/research-impact-at-the-uk-parliament/ways-to-engage-with-parliament/academic-stories/dr-gbemi-oluleye-assistant-professorlecturer-imperial-college-london/>
- Evidence Week in Parliament, talk on policies and business models for accelerated adoption of clean technologies
- 2021 Inclusive policy making for researchers, The Forum, Imperial College London
- 2021 Co-authored a paper on Achieving Net Zero: Decarbonising Industry with Lord Browne of Ladyton, Member of House of Lords
- 2021 Develop a system of systems method to support policy making in BEIS hydrogen economy team in collaboration with Energy Systems Catapult
- 2021 Engagement with Institute of Physics via Looking Glass Podcast on industrial decarbonisation from a global perspective
- 2021 Engagement with Decarb Leaders Network (DLN) fire side chat on increasing the adoption of hydrogen use in industry podcast (vimeo.com/521833875)
- 2021 BEIS Lunchtime seminar: Impact of heterogeneity on industrial decarbonisation policies
- 2020 Supported the development of an essay on industrial decarbonisation with Bim Afolami, Member of Parliament of the United Kingdom
- 2020 Key speaker at the Achieving Net Zero: Decarbonising Industry roundtable by the All-Party Parliamentary Climate Change Group (APPCCG) <https://www.policyconnect.org.uk/events/achieving-net-zero-decarbonising-industry>
- 2020 Contributor on Industrial decarbonisation and diversity in energy research on [EXP-editions.com](https://www.exp-editions.com)
- 2020 Part of Imperial Voices on Climate and Environment
- 2020 Featured on Faculty of Natural Sciences new: Connecting with Policy makers to achieve net zero in UK industry <https://www.imperial.ac.uk/news/201373/connecting-with-policymakers-achieve-zero-uk/>
- 2020 Podcast for DecarbConnect (How to shorten the time from demonstration to commercialisation of new industrial decarbonisation tech) <https://decarbconnect.com/how-to-shorten-the-time-from-demonstration-to-commercialisation-of-new-industrial-decarbonisation-tech/>
- 2019 - date Mentor for high school students (girls) with ‘I CAN BE’ London
- 2019 Invited to give a seminar at BEIS on industrial decarbonisation
- 2019 Decarbonising Industry Workshop for members of the civil service – BEIS, Treasury, OFGEM, National Infrastructure Commission
- 2019 Blog on decarbonising industry for energy post - <https://energypost.eu/decarbonising-industry-how-much-policy-driven-adoption-is-needed-to-let-the-market-take-over/>

- 2019 Blog on Industrial decarbonisation: Shrinking the time from research to technology adoption <https://energyfutureslab.blog/2019/11/14/industrial-decarbonisation-shrinking-the-time-from-research-to-technology-adoption/>
- 2017 – 2019 Mentor, Imperial CREST Academy
- 2013 Speaker at Workshop with Department of Energy and Climate Change (now BEIS) and the Energy Technologies Institute (now part of Energy System's Catapult) to establish a technical case for district heating in the UK, and discuss policies to increase uptake

Personal Development, Developing Others and Training

- 2021 Personal Pitching, Selling Your Research and Expertise
- 2021 PG Cert University Learning and Teaching, Imperial College
- 2020 Lectureship CVs, What You Need to be Working Towards to Succeed in 5 Yrs
- 2020 Introduction to Teaching and Learning in the FoM
- 2020 So You've Got Your Fellowship, Now What?
- 2020 Engaging with policy makers workshop with Institute for Government and The Forum – A 2 day workshop
- 2019 The Forum Policy Engagement Seminar, Imperial College London
- 2019 Managing Your First Research Group
- 2019 Launched Industrial Decarbonisation Initiative at Imperial College
- 2019 – 2020 Line manager for Casual staff hired under UKERC IVUGER project
- 2018 Introduction to Teaching for Learning
- 2018 Science Communication, Reaching a Wider Audience
- 2018 Innovation and Industry, Effective Project Implementation
- 2018 Planning for Success Beyond Your Postdoc
- 2018 – 2021 Line manager to a research assistant for 6 months, and line manager to research assistant hired under the Decarbon8 project (hosted by University of Surrey).
- 2017 Designing and Delivering Research Projects in Academia, Making the Most of Your Postdoc and Preparing for Maternity Leave
- 2012 Graduate Teaching Assistantship Training, University of Manchester
- 2011 – 2021 Professional CPD: (a) Associate Member, Institution of Chemical Engineers (November 2017), (b) Associate Member, Nigerian Society of Chemical Engineers, (c) Member of Quantitative Analysis Group, Imperial College London.

Invited Lectures and Oral Presentations - Highlights

- 2022 Lecture for Imperial College Business School (MBA students). Talk: Accelerating adoption of clean technologies for decarbonisation: The innovation trilemma (**Invited**)
- Lecture for Science communication module, Imperial College London. Talk: Role of Scientific advice in climate change mitigation (focusing on decarbonisation) (**Invited**)
- Energy Futures Lab weekly energy seminars. Talk: A novel market potential assessment for adoption of decarbonisation concepts (cleantech for zero carbon) (**Invited**)
- 2021 Imperial College transition to net zero seminar. Talk: A mountain to climb? Industrial process heat decarbonisation (**invited**)

- 2021 Imperial College Centre for Energy Policy and Technology Book club. Talk: Decarbonising Industrial Process Heat: Is a cost-effective transition possible? **(invited)**
- 2020 12th International conference on applied energy. Talk: A comparative assessment of policies to support industrial heat decarbonisation **(invited)**
- 2020 2nd international conference on technologies and business models for circular economy. Talk: Top Level Analysis of 10 Novel Business Models to Support industrial decarbonisation **(invited)**
- 2020 DecarbConnect podcast 2020. Title: How to shorten the time from demonstration to commercialisation of new industrial decarbonisation tech) <https://decarbconnect.com/how-to-shorten-the-time-from-demonstration-to-commercialisation-of-new-industrial-decarbonisation-tech/>**(invited)**
- 2020 Podcast Why Decarbonisation? Expeditions: The Knowledge Platform (2020), <https://open.spotify.com/episode/7McGyWbc06XZj2gTz36433>**(invited)**
- 2020 15th international conference on Sustainable Development of Energy, Water and Environment Systems. Talk: reducing mitigation costs of biogas fuelled solid oxide fuel cells: An impact of new business models
- 2020 23rd International Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution. Talk: A novel optimisation framework to support increased uptake of low carbon industrial energy systems **(invited)**
- 2019 EFL lunchtime seminar: shrinking the time from research to technology adoption to support Industrial Decarbonisation **(invited)**
- 2019 2019 I am actively involved in delivering part of the EFL Energy for Development Workshop during a visit to Kenya and Nigeria for one week
- 2019 Decarbonising Industry Workshop for members of the civil service – BEIS, Treasury, OFGEM, National Infrastructure Commission **(invited)**
- 2018 28th European Symposium on Computer Aided Process Engineering
- 2018 Post Doc SPOTlight Series Department of Chemical Engineering Imperial College London **(invited)**
- 2017 The 12th international conference on Sustainable Development of Energy, Water and Environment Systems
- 2015 28th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems
- 2015 IChemE ChemEng Day UK
- 2014 17th International Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction
- 2014 American Institution of Chemical Engineers Annual meeting (3 talks) **(invited)**
- 2014 Post Graduate Research conference CEAS, University of Manchester
- 2014 Manchester Earth Week. Talk: Sustainability of waste heat recovery using case study of cereal manufacturing **(invited, keynote)**
- 2014 IChemE ChemEng Day UK
- 2014 Department of Chemical Engineering, University of Lagos, Nigeria. Talk: Graphical and Optimisation techniques for evaluating energy efficiency potential in industry **(invited)**
- 2013 Radical Emission Reduction Conference by Tyndall Centre for Climate Change Research
- 2013 EU Low Carbon Industrial Manufacturing Parks Workshop. Talk: Achieving Low Carbon in the energy intensive industry from waste heat recovery **(invited)**

Publications

Peer Reviewed Scientific Publications in Journals

1. **Oluleye, G.**, Bishay, D. and Kas, B. (2023) “Can a hierarchical ordering of alternative technological concepts for decarbonizing industrial energy systems minimize mitigation costs?,” *Frontiers in Sustainability*, 4. Available at: <https://doi.org/10.3389/frsus.2023.1057064>.
2. Rai U, **Oluleye G**, Hawkes A, 2022, An optimisation model to determine the capacity of a distributed energy resource to contract with a balancing services aggregator, *Applied Energy*, Vol:306, ISSN:0306-2619, Pages:1-22
3. **Oluleye G**, Gandiglio M, Santarelli M, et al., 2021, Pathways to commercialisation of biogas fuelled solid oxide fuel cells in European wastewater treatment plants, *Applied Energy*, Vol:282, ISSN:0306-2619 <http://dx.doi.org/10.1016/j.apenergy.2020.116127>
4. Sechi, S., Giarola, S., Lanzini, A., Gandiglio, M., Santarelli, M., **Oluleye, G.**, Hawkes, A 2021, A bottom-up appraisal of the technically installable capacity of biogas-based solid oxide fuel cells for self power generation in waste water treatment plants, *Journal of Environmental Management*, Vol:279, ISSN:0301-4797, Pages:1-15 <http://dx.doi.org/10.1016/j.jenvman.2020.111753>
5. **Oluleye G.**, 2020, A novel optimisation framework to support increased uptake of low carbon industrial energy systems, *Chemical Engineering Transactions*, Vol:81, ISSN:1974-9791, Pages:1063-1068 <http://dx.doi.org/10.3303/CET2081178>
6. **Oluleye G.**, Wigh D, Shah N, Napoli M, Hawkes A et al., 2019, A framework for biogas exploitation in Italian waste water treatment plants, *Chemical Engineering Transactions*, Vol: 76, Pages: 991-996
7. Allison, J., Bell, K., Clarke, J., Cowie, A., Elsayed, A., Flett, G., **Oluleye, G.**, Hawkes, A., Hawker, G., Kelly, N., de Castro, M., Sharpe, T., Shea, A., Strachan, P. and Tuohy, P. (2018). Assessing domestic heat storage requirements for energy flexibility over varying escales. *Applied Thermal Engineering*, 136, pp.602-616. <https://doi.org/10.1016/j.applthermaleng.2018.02.104>
8. **Oluleye, G.**, Allison, J., Hawker, G., Kelly, N. and Hawkes, A. (2018). A two-step optimization model for quantifying the flexibility potential of power-to-heat systems in dwellings. *Applied Energy*, 228, pp.215-228. <https://doi.org/10.1016/j.apenergy.2018.06.072>
9. **Oluleye, G.**, Allison J., Kelly N., Hawkes, A. (2018). “A Multi-period Mixed Integer Linear Program for Assessing the Benefits of Power to Heat Storage in a Dwelling Energy System”. *Computer Aided Chemical Engineering*, Volume 43, Pages 1451-1456. ISSN: 1570-7946.
10. **Oluleye, G.** (2018) “Chapter 5: Process Integration Applied to Waste-To-Energy Production”. Book Chapter.ID_54083_ in *Waste-to-Energy (WtE)* Nova Science Publishers
11. Sechi, S., Giarola, S., Lanzini, A., Gandiglio, M., **Oluleye, G.**, Santarelli, M., Hawkes, A. (2018). “An optimization method to estimate the SOFC market in waste water treatment” *Computer Aided Chemical Engineering*, Volume 43, Pages 415-420. ISSN: 1570-7946.
12. **Oluleye, G.**, Jiang, N., Smith, R. and Jobson, M. (2017). A novel screening framework for waste heat utilization technologies. *Energy*, 125, pp.367-381. <https://doi.org/10.1016/j.energy.2017.02.119>
13. **Oluleye, G.** and Smith, R. (2016). A mixed integer linear programming model for integrating thermodynamic cycles for waste heat exploitation in process sites. *Applied Energy*, 178, pp.434-453. <https://doi.org/10.1016/j.apenergy.2016.06.096>
14. **Oluleye, G.**, Smith, R. and Jobson, M. (2016). Modelling and screening heat pump options for the exploitation of low grade waste heat in process sites. *Applied Energy*, 169, pp.267-286. <https://doi.org/10.1016/j.apenergy.2016.02.015>
15. **Oluleye, G.**, Vasquez, L., Smith, R. and Jobson, M. (2016). A multi-period Mixed Integer Linear Program for design of residential distributed energy centres with thermal demand data discretisation. *Sustainable Production and Consumption*, 5, pp.16-28. <https://doi.org/10.1016/j.spc.2015.11.003>
16. **Oluleye, G.**, Jobson, M. and Smith, R. (2016). Process integration of waste heat upgrading technologies. *Process Safety and Environmental Protection*, 103, pp.315-333. <https://doi.org/10.1016/j.psep.2016.02.003>

17. **Oluleye, G.**, Allison, J., Kelly, N. and Hawkes, A. (2018). An Optimisation Study on Integrating and Incentivising Thermal Energy Storage (TES) in a Dwelling Energy System. *Energies*, 11(5), p.1095. <https://doi.org/10.3390/en11051095>
18. Sechi, S., Giarola, S., Lanzini, A., Gandiglio, M., **Oluleye, G.**, Santarelli, M., Hawkes, A. (2017). “Techno-economic assessment of the effects of biogas rate fluctuations on industrial applications of solid-oxide fuel cells”. *Computer Aided Chemical Engineering*, Volume 40, 2017, Pages 895-900. ISSN: 1570-7946.
19. **Oluleye, G.**, Jobson, M., Smith, R. and Perry, S. (2016). Evaluating the potential of process sites for waste heat recovery. *Applied Energy*, 161, pp.627-646. <https://doi.org/10.1016/j.apenergy.2015.07.011>
20. **Oluleye, G.**, Jobson, M. and Smith, R. (2015). A hierarchical approach for evaluating and selecting waste heat utilization opportunities. *Energy*, 90, pp.5-23. <https://doi.org/10.1016/j.energy.2015.05.086>
21. **Oluleye G.**, Jobson M., Smith R., Perry S.J., 2014, Evaluating the potential of a process site for waste heat recovery, *Chemical Engineering Transactions*, 39, 1069-1074. <https://doi.org/10.3303/CET1439179>
22. **Oluleye G.**, Jobson M, Smith R. A hierarchical approach for evaluation of waste heat utilization opportunities. *Chemical Engineering Transactions* 2014; 39: 1093-1098. <https://doi.org/10.3303/CET1439183>

Peer Reviewed Conference Proceedings and Abstracts

23. Teng Y., **Oluleye G.**, 2020, A Comparative Assessment of Policies to Support Heat Decarbonisation in an Industrial Site Utility System, 12th International Conference on Applied Energy http://www.applied-energy.org/icae2020/wp-content/uploads/2020/11/ICAE_Program_1130.pdf
24. Alwishah A., **Oluleye G.**, 2020, Top-level Analysis of New Business Models to Support the Decarbonisation of Industrial Clusters, International Conference of Technologies and Business Models for Circular Economy
25. **Oluleye G.**, 2020, Reducing Carbon Mitigation costs of Biogas Fuelled Solid Oxide Fuel Cells: An impact of new business models, 15th Conference on Sustainable Development of Energy Water and Environment Systems (SDEWES 2020) <http://hdl.handle.net/10044/1/85261>
26. **Oluleye, G.**, Allison, J., Kelly, N. and Hawkes, A. (2017). An Optimisation Study on Integrating Thermal Energy Storage in a Dwelling Energy System. The 12th international conference on sustainable development of energy, water and environment systems; Dubrovnik, Croatia, 4 – 8 October 2017
27. **Oluleye G.** et al. Integrating Waste Heat Utilization in Process Sites, Webinar for Process Integration Research Consortium, April 2016
28. **Oluleye G.** et al. A Mixed Integer Linear Programming (MILP) Model for Integrating Waste Heat Recovery in Process Sites, IChemE ChemEngDayUK March 2016
29. **Oluleye G.** et al. Site Waste Heat Recovery Systems, XXXII Process Integration Research Consortium, October 2015
30. **Oluleye G.** et al. Conceptual design of site waste heat recovery systems, IChemE ChemEngDayUK April 2015
31. **Oluleye G.** et al. Optimal Design and Integration of a Process Site Waste Heat Recovery System, American Institution of Chemical Engineers Annual Meeting, November 16 – 21, 2014
32. **Oluleye G.** et al. Improving a process site sustainability through waste heat recovery, American Institution of Chemical Engineers Annual Meeting, November 16 – 21, 2014 (Oral presentation)
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