Qualifications

October 2020– August 2021	PG Cert University Learning and Teaching, Imperial College London, UK
July 2012 – Feb. 2016	PhD in Chemical Engineering and Analytical Science, <i>Integrating Waste Heat Recovery in Process Sites</i> , 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

November 2019 - date

Imperial College Research Fellow, Centre for Environmental Policy, Imperial College London (End date: October 2023)

Competitive (<10% success) fellowships for researchers to establish an independent group. Group Name: Clean Industrial Energy Systems (ciesresearchgroup.com). Group members to date: 1 Research Assistant, 1 Casual staff, 7 MSc students (as lead supervisor), and 3 PhD's (2 assistant supervisors and 1 co-supervisor)

- Research Theme Champion for Policy and Innovation Energy Futures Lab
- Academic Champion for Industrial Decarbonisation, Energy Futures Lab and the Grantham Institute – Climate Change and the Environment collaboration
- Lecturer and Co-convenor of the Energy Economics and Policy Module, MSc Sustainable Energy Futures, and Advanced Process Design, Department of Chemical Engineering
- Leading and conducting research in industrial decarbonisation: clean industrial systems
 (processes and their associated energy system) modelling including creation of digital
 twins and optimisation, integration of concepts for decarbonisation, policies, and business
 models to accelerate adoption of technical solutions, model-based market potential analysis
 to accelerate diffusion of clean industrial systems, analysis and development of policies
 and business models to support industrial decarbonisation

October 2020

BEIS Industrial Strategy Fellowship (Secondment)

- March 2021
 - 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 hydrogen uptake policies and regulations
 - Lead on bottom-to-top analysis for policies to support hydrogen uptake,
 - Supported modelling for Hydrogen for industry

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 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 contribute to a consultation project on decarbonisation of energy intensive industries for the OECD

Jan. 2016 – May 2016

Research Associate, The University of Manchester, UK

- 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. 14).
- Developed a novel Model-Based Economic assessment for industrial waste heat recovery
- 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 – May 2016

Residential Life Adviser, The University of Manchester Halls of Residence, UK

- 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 – March 2016

- Teaching Assistant (including course development), The University of Manchester, UK

• 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 – June 2012 –

Research Assistant, The University of Manchester, UK

- 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 March 2011

Process Engineer, Process Integration Limited, Manchester UK

- 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 August 2009

Graduate Process Engineer, National Engineering and Technical Company, Lagos Nigeria

• I participated in preparing and updating process deliverables for projects within a specific time frame as well as bids and proposals

Jan. 2008 June 2008 Knowledge Transfer Graduate, National Oil Spill Detection and Response Agency, Port-Harcourt Nigeria

Teaching and Supervision

2018 – 2024	Assistant supervisor for 2 PhDs and Co- supervisor for 1 PhD
2020 – 2021	Lecturer and Co-convener, Energy Economics and Policy Module as part of the Sustainable Energy Futures 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
2018 - 2019	Co-Supervisor of 2 MEng research projects
2017 – 2019	Lead Supervisor for 2 MRes students from Department of Energy, Politecnico di Torino
2016 – date	Leader Supervisor for 10 MSc research projects (sole supervisor for 8 of these) at Imperial College London. 2 students from MSc Chemical Engineering, 5 from MSc Sustainable Energy Futures and 3 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		
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 – date	Invited Member Assessing Low Carbon Transition (ACT) Technical Working Group on Industrial Decarbonisation (Pulp & Paper, and the Chemicals sector)	
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)	
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-PI)	£20,000	August 2020	
Imperial College London Open SPF call for white papers (Role: Co-PI)	£11,500	January 2020	
Imperial College Research Fellowship (Role: PI)	£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: £ 6,898,879)

	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
	ETI Macro DE project (Role: Researcher)	£1.1 million	April 2011 – December 2012:

Consultancies (Total: £88,000)

Project Value (Awarded) Delivery Period

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		
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 - date	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	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

ement (including Policy Engagement)
Inclusive policy making for researchers, The Forum, Imperial College London
Co-authored a paper on Achieving Net Zero: Decarbonising Industry with Lord Browne of Ladyton, Member of House of Lords
Develop a system of systems method to support policy making in BEIS hydrogen economy team in collaboration with Energy Systems Catapult
Engagement with Institute of Physics via Looking Glass Podcast on industrial decarbonisation from a global perspective
Engagement with Decarb Leaders Network (DLN) fire side chat on increasing the adoption of hydrogen use in industry podcast (vimeo.com/521833875)
BEIS Lunchtime seminar: Impact of heterogeneity on industrial decarbonisation policies
Supported the development of an essay on industrial decarbonisation with Bim Afolami, Member of Parliament of the United Kingdom
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
Contributor on Industrial decarbonisation and diversity in energy research on EXP-editions.com
Part of Imperial Voices on Climate and Environment
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/
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/
Mentor for high school students (girls) with 'I CAN BE' London
Invited to give a seminar at BEIS on industrial decarbonisation
Decarbonising Industry Workshop for members of the civil service – BEIS, Treasury, OFGEM, National Infrastructure Commission
Blog on decarbonising industry for energy post - https://energypost.eu/decarbonising-industry-how-much-policy-drivenadoption-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-totechnology-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	
2020	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

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	2 nd 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	15 th 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	23 rd 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	28 th European Symposium on Computer Aided Process Engineering
2018	Post Doc SPOTlight Series Department of Chemical Engineering Imperial College London (invited)
2017	The 12 th international conference on Sustainable Development of Energy, Water and Environment Systems
2015	28 th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems
2015	IChemE ChemEng Day UK
2014	17 th 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)
2012 – 2015	XXIX, XXX & XXXI and XXXII, Process Integration Research Consortium. Talk: Off-site Process Integration , Waste heat utilisation and flexibility potential of Industrial process heating (invited)

Publications

H-index is 10, 18 first-author papers, and corresponding author for 18 papers

Peer Reviewed Scientific Publications in Journals

- 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
- 2. 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
- 3. **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
- 4. **Oluleye G.**, Wigh D, Shah N, Napoli M, Hawkes Aet al., 2019, A framework for biogas exploitation in Italian waste water treatment plants, Chemical Engineering Transactions, Vol: 76, Pages: 991-996
- 5. 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 timescales. Applied Thermal Engineering, 136, pp.602-616. https://doi.org/10.1016/j.applthermaleng.2018.02.104
- 6. **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
- 7. **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.
- 8. **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
- 9. 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.
- 10. **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
- 11. **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
- 12. **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
- 13. **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
- 14. **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
- 15. **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
- 16. Sechi, S., Giarola, S., Lanzini, A., Gandiglio, M., **Oluleye, G.,** Santarelli, M., Hawkes, A. (2017). "Technoeconomic 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.
- 17. **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

- 18. **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
- 19. **Oluleye, G.,** Jobson, M., Smith, R. (2015). Optimisation-based Design of Site Waste Heat Recovery Systems. 28th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, ECOS 2015; Pau; France; 29 June 2015 through 3 July 2015; Code 119546.
- 20. **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. 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, 23-27 August 2014 https://doi.org/10.3303/CET1439179
- 21. **Oluleye G,** Jobson M, Smith R. A hierarchical approach for evaluation of waste heat utilization opportunities. Chemical Engineering Transactions 2014; 39: 1093-1098. 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, 23-27 August 2014 https://doi.org/10.3303/CET1439183

Peer Reviewed Conference Proceedings and Abstracts

- 22. 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.appliedenergy.org/icae2020/wp-content/uploads/2020/11/ICAE_Program_1130.pdf
- 23. 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
- 24. **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
- 25. **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
- 26. **Oluleye G.** et al. Integrating Waste Heat Utilization in Process Sites, Webinar for Process Integration Research Consortium, April 2016
- 27. **Oluleye G.** et al. A Mixed Integer Linear Programming (MILP) Model for Integrating Waste Heat Recovery in Process Sites, IChemE ChemEngDayUK March 2016
- 28. **Oluleye G.** et al. Site Waste Heat Recovery Systems, XXXII Process Integration Research Consortium, October 2015
- 29. **Oluleye G.** et al. Conceptual design of site waste heat recovery systems, IChemE ChemEngDayUK April 2015
- 30. **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
- 31. **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)
- 32. **Oluleye G.** et al. Exergy analysis for the design of a site waste heat recovery system, CEAS PGR conference, July 2014
- 33. **Oluleye G.,** Role of Industrial Waste heat in the current energy landscape, Manchester Earth Week, March 2014
- 34. **Oluleye G.** et al. A hierarchical approach for evaluation of waste heat utilization opportunities, IChemE ChemEngDayUK March 2014
- 35. **Oluleye G.** et al. Waste Heat Utilization, presented at XXX & XXXI Process Integration Research Consortium, October 2013 and 2014
- 36. **Oluleye G**. et al. Reducing emissions from the process industry through waste heat recovery, Radical Emission Reduction Conference by Tyndall Centre for Climate Change Research, 10-11 December 2013
- 37. **Oluleye, G.,** Energy Systems Modelling tool, workshop organised by EU Low Carbon Industrial Manufacturing Parks project, July 2013
- 38. Oluleye G. et al. Off-site Process Integration, XXIX Process Integration Research Consortium, October 2012

Other: Research reports, Online articles and blogs

- 39. **Oluleye G.**, Decarbonising Industry: is a cost-effective transition possible? (2021), Imperial Business Partners Insights
- 40. **Oluleye G.,** (2020) Connecting with policymakers to achieve net zero in UK industry, https://www.imperial.ac.uk/news/201373/connecting-with-policymakers-achieve-zero-uk/
- 41. Paul Fennel, Justin Driver, **Oluleye G.**, (2020) Decarbonisation of Iron and Steel, Cement and Mining Industry, TCCI on iron and steel, report prepared for The Catalyst Group Resources (TCGR).
- 42. **Oluleye G.,** (2019) Decarbonising industry: how much policy-driven adoption is needed to let the market take over. https://energypost.eu/decarbonising-industry-how-much-policy-driven-adoption-is-needed-to-let-the-market-take-over/
- 43. **Oluleye G.,** (2019) 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/
- 44. **Oluleye G.,** "Towards a Low-to-Zero Carbon Energy System: Energy Systems Engineering, The Role of Process Systems Engineering". (2019) in Centre for Process Systems Engineering, Newsletter. https://www.imperial.ac.uk/media/imperial-college/research-centres-and-groups/cpse/annual-report/19_CPSE-AnnualReport-FINAL-4.pdf
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