CURRICULUM VITAE

Dr. Syamimi Saadon

Department of Aerospace Engineering
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h-index: 5 (Scopus), 6 (Google Scholar)
Citations: 75 (Scopus), 114 (Google Scholar)

Education

1. PhD in Energy and Thermal, 2015, National Institute of Application Science Lyon, France
2. Diplome d'Ingenieur (Master Degree) in Energy Engineering and Propulsion, 2010, National Institute of Application Science Rouen, France
3. French Baccalaureat (A-Level), 2005, University Institute of Technology Angouleme, France
4. Sijil Pelajaran Malaysia (SPM), 2002, SMK Sultanah Asma, Alor Star, Kedah

Areas of Interest

1. Organic Rankine Cycle, Stirling Engine, Heat Transfer
2. Energy, Exergy, Solar Energy
3. Gas Turbine Propulsion

Profesional Qualification/Membership/Affiliation

1. Member, France Alumni (Campus France), 2015 to date
2. Member, Aerospace Society Malaysia (AEROS) (Membership No.: AEROS00009), March 2017 to date
3. Member, Persatuan Saintis Muslim Malaysia (PERINTIS) (Membership No.: 236), June 2017 to date

Appointments

Position	Duration
1. Head of Scientific Committee for International Symposium on Sustainable Aviation (ISSA 2020)	November 2019 to date
2. Committee Member for Persatuan Saintis Muslim Malaysia (PERINTIS)	September 2019 to date
3. Academic Coordinator II, Department of Aerospace Engineering, Faculty of Engineering, UPM	3 April 2017 to date
4. Final Year Project Coordinator, Department of Aerospace Engineering, Faculty of Engineering, UPM	September 2017 to August 2019
5. Head of Protocol for International Conference on Computational Methods in Engineering and Health Sciences (ICCMEH 2019)	July 2018 to July 2019
6. Programme Assessor Committee (PAC) for Diploma of Engineering Technology in Aeroplane Maintenance (UniKL-MIAT)	1 June 2017 to 31 May 2019
7. Head of Logistic Committee for Aerotech VII	June 2017 to August 2018
8. Senior Lecturer, Department of Aerospace Engineering, Faculty of Engineering, UPM	August 2015 to date

Updated 3rd April 2020

9. Head of Promotion Committee for Aerotech VI	November 2015 to November 2016
10. Secretary for Master of Aerospace Engineering Committee Members	August 2015 to August 2017
11. Multimedia & ICT Committee Members	16 August 2015 to 3 April 2017
12. Escort VIPs for 39th UPM Convocation	31 October 2015
13. Tutor, Department of Aerospace Engineering, Faculty of Engineering,UPM	July 2011 to August 2015

Publications

Journals (30 recent journals)

1. Y.S.M. Al Tarazi, A.R. Abu Talib, **S. Saadon,** J. Yu, E. Gires, M.F.A. Ghafir, J. Lucas. On-Design Operation and Performance Characteristic of Custom Engine, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, (Accepted), *(Scopus Indexed)*
2. **S. Saadon**, L. Gaillard, S. Giroux, C. Menezo. Exergy, exergoeconomic and enviroeconomic analysis of a building integrated semi-transparent photovoltaic/thermal (BISTPV/T) by natural ventilation, *Renewable Energy*, Vol. 150, pp. 981-989, **2020**. (**JCR Q1, Impact Factor 5.439**)
3. S. Salman, A.R. Abu Talib, **S. Saadon,** M.T.H. Sultan. Hybrid nanofluid flow and heat transfer over backward and forward steps: A review, Powder Technology, Vol. 363, pp. 448-472, **2020**. (**JCR Q1, Impact Factor 3.413**)
4. S.M.S. Islam, **S. Saadon**. Performance Analysis of Supercritical Organic Rankine Cycle System with Different Heat Exchangers Design Configuration, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, Vol. 65 (2), pp. 324-333, **2020**. *(Scopus Indexed)*
5. N.H.H. Zainol Abidin, **S. Saadon**. An Outlook for Waste Heat Recovery Concept for Aircraft Engine Using Organic Rankine Cycle, *Journal of Aeronautics, Astronautics and Aviation*, Vol. 52 (1), pp. 95-103, **2020**. *(Scopus Indexed)*
6. S.M.S. Islam, **S. Saadon**. Organic Rankine Cycle as waste heat recovery: a review of their potential applications, *Perintis eJournal*, Vol. 9 (2), pp. 21-36, **2019.** *(Google Scholar Indexed)*
7. H. Helman, **S. Saadon,** Design and Modelling of a Beta-Type Stirling Engine for Waste Heat Recovery, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, Vol. 64 (1), pp. 135-142, **2019**. *(Scopus Indexed)*
8. N.A.M. Rasli, **S. Saadon,** CFD Analysis of Heat Transfer Through Stirling Engine with Different Regenerators, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, Vol. 64 (1), pp. 126-134, **2019**. *(Scopus Indexed)*
9. **S. Saadon,** N.A. Mohd Nasir. Modelling and thermal analysis of organic Rankine Cycle with superheater and preheater, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, Vol. 55 (2), pp. 142-149, **2019**. *(Scopus Indexed)*
10. S. Salman, A.R. Abu Talib, A. Hilo, S.R. Nafwa, M.T.H. Sultan, **S. Saadon**. Numerical study on the turbulent mixed convective heat transfer over 2d microscale backward-facing step, *CFD Letters*, Vol. 11 (10), pp. 31-45, **2019**. *(Scopus Indexed)*
11. I. Mohammed, A.R. Abu Talib, M.T.H. Sultan, M. Jawaid, A.H. Ariffin, **S. Saadon**. Mechanical properties of fibre-metal laminates made of natural/synthetic fibre composites, *BioResources*, Vol. 13 (1), pp. 2022-2034, **2018**. (**JCR Q1, Impact Factor 1.396**)
12. N.A. Mohd Nasir, **S. Saadon**. Performance analysis of an Organic Rankine Cycle system with superheater utilizing exhaust gas of a turbofan engine, *International Journal of Engineering and Technology*, Vol. 7, pp. 120-124, **2018**. *(Scopus Indexed)*
13. I. Mohammed, A.R. Abu Talib, M.T.H. Sultan, **S. Saadon**. Fire behavioural and mechanical properties of carbon fibre reinforced aluminium laminate composites for aero-engine, *International Journal of Engineering and Technology*, Vol. 7, pp. 22-27, **2018**. *(Scopus Indexed)*
14. **S. Saadon**, L. Gaillard, S. Giroux, C. Menezo. Simulation study of a naturally ventilated building integrated photovoltaic-thermal (BIPV/T) envelope, *Renewable Energy*, Vol. 87, pp. 517-531, **2016**. (**JCR Q1, Impact Factor 3.404**)
15. **S. Saadon**, L. Gaillard, S. Giroux, C. Menezo. Simulation study of a naturally ventilated building integrated photovoltaic (BIPV) envelope, *Energy Procedia*, Vol. 78, pp. 2004-2009, **2015**. *(Scopus Indexed)*
16. L. Gaillard, G, Ruedin, S. Giroux, M. Plantevit, M. Kaytoue, **S. Saadon**, C. Menezo, J. Boulicaut. Data-driven performance evaluation of ventilated photovoltaic double-skin facades in the built environment, *Energy Procedia*, Vol. 78, pp. 447-452, **2015**. *(Scopus Indexed)*

Conference Proceedings (30 recent Conference Proceedings)

1. **S. Saadon**. Possibility of Using Stirling Engine as Waste Heat Recovery–Preliminary Concept, I*OP Conference Series: Earth and Environmental Science*, Vol. 268 (1), 012095, **2019**. *(Scopus Indexed)*
2. N.H.H. Zainol Abidin, **S. Saadon**. Parametric optimization and performance analysis of a waste heat recovery system using Organic Rankine Cycle (ORC), I*OP Conference Series: Materials Science and Engineering*, Vol. 405 (1), 012010, **2018**. *(Scopus Indexed)*
3. **S. Saadon**. Computational modelling of an Organic Rankine Cycle (ORC) waste heat recovery system for an aircraft engine, *MATEC Web of Conferences*, Vol. 151, **2018**. *(Scopus Indexed)*
4. **S. Saadon**, M S Mohd Redzuan. Sustainability assessment of turbofan engine with mixed exhaust through exergetic approach, I*OP Conference Series: Materials Science and Engineering*, Vol. 270 (1), 012012, **2017**. *(Scopus Indexed)*
5. I. Mohammed, A.R. Abu Talib, M.T.H. Sultan, **S. Saadon**. Ballistic impact velocity response of carbon fibre reinforced aluminium alloy laminates for aero-engine, *IOP Conference Series: Materials Science and Engineering*, Vol. 270 (1), 012026, **2017**. *(Scopus Indexed)*
6. **S. Saadon**, A.R. Abu Talib. An analytical study on the performance of the Organic Rankine cycle for turbofan engine exhaust heat recovery, *IOP Conference Series: Materials Science and Engineering*, Vol. 152 (1), 012011, **2016**. *(Scopus Indexed)*
7. I. Mohammed, A.R. Abu Talib, M.T.H. Sultan, **S. Saadon**. Temperature and heat flux measurement techniques for aero-engine fire test: a review, *IOP Conference Series: Materials Science and Engineering*, Vol. 152, 012036, **2016**. *(Scopus Indexed)*
8. **S. Saadon**, L. Gaillard, S. Giroux, C. Menezo. Modélisation et simulation thermique d'un bâtiment équipé d'une façade double-peau photovoltaïque naturellement ventilée, Congres Francais de Thermique, **2015**.
9. **S. Saadon**, L. Gaillard, S. Giroux, C. Menezo. Etude de simulation d'une enveloppe photovoltaïque intégrée au bâtiment (PVIB) naturellement ventilée, XII ème Colloque Interuniversitaire Franco-Québécois sur la Thermique des Systèmes - CIFQ 2015, Sherbrooke, Québec, Canada, **2015**.
10. **S. Saadon**, L. Gaillard, C. Menezo. Modélisation et simulation thermique d'un bâtiment équipé d'une façade photovoltaïque ventilée, 3ème Colloque International Francophone d'Energétique et de Mécanique-CIFEM, **2014**.
11. **S. Saadon,** C. Menezo. Study of a naturally-ventilated building integrated photovoltaic envelope, International Conference on Clean Technology for Smart Cities and Buildings from nano to urban scale - CISBAT, Lausanne, Switzerland, **2013**.
12. **S. Saadon,** L. Gaillard, C. Menezo. Modelling of a Ventilated PV Double-Skin Façade, CLIMA 2013 Congress, Prague, Czech Republic, **2013.**
13. **S. Saadon,** L. Gaillard, S. Giroux, H. Pabiou, C. Menezo. Modélisation d'une double-peau photovoltaïque ventilé, Congrès Français de Thermique, Gérardmer, France, pp.128, **2013.**

Book Chapters

1. **S. Saadon**, S.M.S. Islam. A recent review in performance of Organic Rankine Cycle (ORC), *ORC for Waste Heat Recovery Application*, IntechOpen, **2019.** *(Google Scholar Indexed)*

Research Grants

No	Project Title	Amount	Year	Source of Fund
1	Project Skybelt: Enhancement of engineering skills of students of all levels for application of evidence based sustainable renewable energy solutions in the built environment (Team Member)	1,000,000 (Euro)	Nov 2019 - Oct 2022	Erasmus + Programme of the European Union
2	The effect of heat transfer enhancement in tubular heater of	RM 118,000	Jan 2019 - Dec 2021	Fundamental Research Grant Scheme (FRGS)

	Stirling engine for waste heat recovery with different materials and fins attachments (Project Leader)			
3	Thermodynamic and economic performance optimization of an organic Rankine cycle system using exhaust heat of a jet engine core (Project Leader)	RM 50,000	Oct 2016 – Sept 2018	Putra Grant - IPM

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Nik Kechik Mujahidah Nik Abdul Rahman	The effect of heat transfer enhancement in tubular heater of Stirling engine for waste heat recovery with different materials and fins attachments	On-going

PhD (Co-Supervisor)

No.	Name	Title	Status
1.	Albuhamdan Sadeq Salman Abed	Heat Transfer and Fluid Flow over Microscale Backward / Forward Facing Step utilizing Hybrid Nanofluid	On-going
2.	Ibrahim Mohammed	Burn-Through Time Responses of Fireproof and Fire Resistant Materials for Aero-engine Application	Graduated 2018

MSc with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Nur Athirah Mohd Nasir	Thermodynamic analysis of an organic Rankine cycle system using exhaust heat of a jet engine core	On-going
2.	Agustinnie Tukimin	CFD Analysis of Flow Through Venturi Tube and Its Discharge Coefficient	On-going

MSc coursework (Main Supervisor)

No.	Name	Title	Status
1.	Hassan Shafeeq	A block based coding kit to teach younger children coding and conditioning	On-going
2.	Harlinda Helman	CFD Modelling of a Stirling Engine Gas Stove for Heat Recovery	Graduated 2019

Bachelor (Main Supervisor)

No.	Name	Title	Status
1.	Thavamalar Kumaravelu	The effect of heat transfer enhancement in tubular heater of Stirling engine for waste heat recovery with fins attachments	On-going
2.	Salmah Md Saiful Islam	Modelling and Thermal Analysis of a Supercritical Organic Rankine Cycle System with DIfferent Heat Exchangers Configuration	Graduated 2019
3.	Nur Amanina Mohamad Rasli	Effects of Heat Transfer Enhancement in Stirling Engine with Different Porosity and Regenerator Materials	Graduated 2019
4.	Muhammad Nor Asyraf Mohd Isa	Sustainability assessment of turbofan engine integrated with ORC through exergetic approach	Graduated 2018
5.	Nurul Huda Husna Zainol Abidin	Thermodynamic analysis and performance optimization of an Organic Rankine Cycle (ORC)	Graduated 2018

		waste heat recovery system for an aircraft engine	
6.	Nur Hazwani Binti Isham	Modelling of Organic Rankine Cycle with a Turbofan Engine for Exhaust Heat Recovery	Graduated 2018
7.	Muhamad Syukri Bin Mohd Redzuan	Energy and Exergy Analysis of Turbofan Engine	Graduated 2017
8.	Norimah Binti Zakaria	Analytical Model of Shock Wave Structure in Over Expanded Supersonic Flow	Graduated 2016

Teaching Experiences			
No.	**Course**	**Course code**	**Semester**
1.	Air Breathing Engine	EAS 4501	2015/2016
2.	Aerothermodynamics	EAS 3511	2015/2016
3.	Aerospace Laboratory III (Propulsion)	EAS 3293	2015/2016
4.	Propulsion	EAS 3503	2016/2017
5.	Aerothermodynamics	EAS 3511	2017/2018
6.	Propulsion	EAS 3503	2017/2018
7.	Final Year Project	EAS 4999A/4999B	2017/2018
8.	Aerodynamics II	EAS 3204	2017/2018
9.	Aerothermodynamics	EAS 3521	2018/2019
10.	Propulsion	EAS 3513	2018/2019
12.	Final Year Project	EAS 4999A/4999B	2018/2019
11.	Engineering Mathematics I	ECC 3011	2019/2020
12.	Air Breathing Engine	EAS 4511	2019/2020
13.	Numerical Analysis for Engineering Applications	EAS 3122	2019/2020
14.	Aerospace Laboratory II (Thermofluid)	EAS 3932	2019/2020