


CURRICULUM VITAE PROF. SIMONE PEDRAZZI

PERSONAL INFORMATION	SIMONE PEDRAZZI
	Via Madonna di Corticella, 91 – 41222 Reggio Nell’Emilia
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	E-mail: simone.pedrazzi@unimore.it
	http: www.beelab.unimore.it
	Male / Date of birth (30/04/1985)
	h-index: 22 Total citations: 1264 (specify source: Scopus)

WORK EXPERIENCE

2022 - present	POSITION HELD Associate professor
	INSTITUTIONAL ADDRESS: Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia, Via Vivarelli 10/1, 41125 Modena, Italy.
	Research Topics: thermodynamics, fluid mechanics and heat transfer
	Research or Industry: Research
2020 - 2022	POSITION HELD Assistant professor (RUTD-B)
	INSTITUTIONAL ADDRESS: Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia, Via Vivarelli 10/1, 41125 Modena, Italy.
	Research Topics: thermodynamics, fluid mechanics and heat transfer
	Research or Industry: Research
2017 - 2020	POSITION HELD Assistant professor (RUTD-A)
	INSTITUTIONAL ADDRESS: Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia, Via Vivarelli 10/1, 41125 Modena, Italy.
	Research Topics: thermodynamics, fluid mechanics and heat transfer
	Research or Industry: Research

EDUCATION AND TRAINING

2011-2014	PhD in High Mechanics and Automotive Design and Technology
	Dipartimento di Ingegneria "Enzo Ferrari", Università di Modena e Reggio Emilia, Via Vivarelli 10/1, 41125 Modena, Italy
	Topics: modeling of biomass to power CHP systems
2008-2010	Mechanical engineering master’s degree, Grading: 110/110 magna cum laude
	Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia.
	Topics: Thesis title: "Modellizzazione di un sistema ibrido cogenerativo ad idrogeno da fonte eolica"

	Mechanical engineering bachelor's degree, Grading: 97/110
2004-2008	Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia.
	Topics: Thesis title: "Modellizzazione di un sistema ibrido ad idrogeno solare"

PROJECTS (last five years)

	Indicate only projects with leadership roles
2022-2024	Progetto PSR Emilia Romagna 2014-2020 area 5D "CHAR RIMEDIO" Domanda di sostegno n.5207577, scientific coordinator for the University of Modena e Reggio Emilia.
2022-2024	Progetto PSR Emilia Romagna 2014-2020 area 3A "Individuazione di principi attivi a uso nutraceutico in foglie di vite e meccanizzazione della loro raccolta in vigneto - VINE LEAF FOR LIFE" Domanda di sostegno n. 5404873, scientific coordinator for the University of Modena e Reggio Emilia.
2019-2020	Progetto FAR 2019 (dipartimentale DIFE): "Thermo fluid-dynamic optimization of biomass gasification vehicles" scientific coordinator.

ADDITIONAL INFORMATION

08/11/2020	ASN 2° fascia
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PUBLICATIONS

Most relevant publications of the last 10 years	<ol style="list-style-type: none"> 1. Allesina G., Pedrazzi S., Tebianian S., Muscio A., Tartarini P. Energy and economical comparison of possible cultures for a total-integrated on-field biodiesel production (2014) Journal of Physics: Conference Series, 501 (1), art. no. 012034, DOI: 10.1088/1742-6596/501/1/012034 2. Puglia M., Morselli N., Ottani F., Pedrazzi S., Tartarini P., Allesina G. A preliminary evaluation of different residual biomass potential for energy conversion in a micro-scale downdraft gasifier (2023) Sustainable Energy Technologies and Assessments, 57, art. no. 103224, DOI: 10.1016/j.seta.2023.103224 3. Allesina G., Pedrazzi S., Tebianian S., Tartarini P. Biodiesel and electrical power production through vegetable oil extraction and byproducts gasification: Modeling of the system (2014) Bioresource Technology, 170, pp. 278 - 285, DOI: 10.1016/j.biortech.2014.08.012 4. Rinaldini C.A., Allesina G., Pedrazzi S., Mattarelli E., Tartarini P. Modeling and optimization of industrial internal combustion engines running on Diesel/syngas blends (2019) Energy Conversion and Management, 182, pp. 89 - 94, DOI: 10.1016/j.enconman.2018.12.070 5. Allesina G., Pedrazzi S., Allegretti F., Tartarini P. Spent coffee grounds as heat source for coffee roasting plants: Experimental validation and case study (2017) Applied Thermal Engineering, 126, pp. 730 - 736, DOI: 10.1016/j.applthermaleng.2017.07.202 6. Pedrazzi S., Allesina G., Tartarini P. Effects of upgrading systems on energy conversion efficiency of a gasifier - fuel cell - gas turbine
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	<p>power plant (2016) Energy Conversion and Management, 126, pp. 686 - 696, DOI: 10.1016/j.enconman.2016.08.048</p> <p>7. Allesina G., Pedrazzi S., Guidetti L., Tartarini P. Modeling of coupling gasification and anaerobic digestion processes for maize bioenergy conversion (2015) Biomass and Bioenergy, 81, pp. 444 - 451, DOI: 10.1016/j.biombioe.2015.07.010</p> <p>8. Rinaldini C.A., Allesina G., Pedrazzi S., Mattarelli E., Savioli T., Morselli N., Puglia M., Tartarini P. Experimental investigation on a Common Rail Diesel engine partially fuelled by syngas (2017) Energy Conversion and Management, 138, pp. 526 - 537, DOI: 10.1016/j.enconman.2017.02.034</p> <p>9. Allesina G., Pedrazzi S., Puglia M., Morselli N., Allegretti F., Tartarini P. Gasification and wine industry: Report on the use vine pruning as fuel in small -scale gasifiers (2018) European Biomass Conference and Exhibition Proceedings, 2018 (26thEUBCE), pp. 722 – 725.</p> <p>10. Pedrazzi S., Allesina G., Belló T., Rinaldini C.A., Tartarini P. Digestate as bio-fuel in domestic furnaces (2015) Fuel Processing Technology, 130 (C), pp. 172 - 178, DOI: 10.1016/j.fuproc.2014.10.006</p>
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Modena, 24/07/2024



Signature_____