

RAFFAELLO COZZOLINO

PERSONAL DATA

Nationality: Italian
Sex: male
Status: single
Birth date: 29.01.1984
Birth place: Formia (ITALY)
Work Address: Via don Carlo Gnocchi 3, 00166, ROME (RM) – ITALY
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EDUCATION & CAREER

01.07.2013 to now	<p>Researcher - Assistant Tenure Track at University of Rome Niccolò Cusano (Via don Carlo Gnocchi 3, 00166, Rome, RM, Italy).</p> <ul style="list-style-type: none"> • Tenure track of Fluid Machine - Science in Industrial Engineering • Tenure track of Energy system- Master of Science in Mechanical Engineering • Research Topics: Fuel cells systems for stationary and vehicular applications, with particular reference to low and high temperature Proton Exchange Membrane Fuel Cell (PEMFC and HT-PEMFC); Hydrogen production systems from both fossil and renewable sources integrated with energy systems based on conventional and advanced technologies; High efficiency energy systems for cogeneration of hydrogen and electrical power; Energy recovery systems from waste.
01.07.2012 31.06.2013	<p>Research fellowship at University of Naples Parthenope (Napoli, NA, Italy).</p> <ul style="list-style-type: none"> • School of Education of Scientists and Technicians for Innovation and Development in the field of Distributed Generation of energy from fossil fuels and renewable-PROJECT PON01_2864 - FC Smartgen.
01.03.2012 31.12.2012	<p>Tenure track at University of Cassino and Southern Lazio (Cassino, Italy)</p> <ul style="list-style-type: none"> • Tenure track of Energy saving and reduction of emissions - Master of Science in Mechanical Engineering
05.04.2012	<p>PhD Thesis Defense at University of Cassino and Southern Lazio (Cassino, Italy) Title of the Thesis: "Development of regenerative energy systems for UAV (Unmanned Aerial Vehicles) of HALE class (High Altitude Long Endurance)", realized in cooperation with the C.I.R.A (Italian Aerospace Research Center).</p>
31.12.2011	<p>End of Ph. D. Course (Legal Duration 3 years).</p>
05.2010	<p>Qualification certificate at University of Cassino and Southern Lazio (Cassino, Italy) Course attended Coordinatore per la progettazione e per l'esecuzione dei lavori D.Lgs 81/2008</p>
04.2009	<p>Qualification certificate at University of Cassino and Southern Lazio (Cassino, Italy) Course attended Certificazione Energetica degli Edifici "Applicazione del D.Lgs.192/05 e del D.Lgs. 311/06"</p>

03.2009	Qualification to the profession of Mechanical Engineer .
01.2009 12.2011	Attendance of the of Ph. D. Course in "Scuola di dottorato in Ingegneria" (Mechanical Engineering) at the University of Cassino and Southern Lazio (Cassino, Italy) (legal duration: 3 years).
01.10.2004 04.10.2006	Master of Science student in Mechanical Engineering (legal duration 2 years) at the University of Cassino and Southern Lazio (Cassino, Italy) Graduation grade: 110/110 cum laude; honor for " <i>the successful university curriculum and the quality of the graduation thesis</i> ". Title of the thesis: "Sviluppo di sistemi energetici rigenerativi per velivoli UAV (Unmanned Aerial Vehicles) di classe HALE (High Altitude Long Endurance)"
01.10.2001 07.10.2004	Bachelor student in Mechanical Engineering (legal duration 3 years) at the University of Cassino and Southern Lazio (Cassino, Italy) Graduation grade: 105/110. Title of the thesis: "Il ruolo dell'Energy Manager nella riqualificazione energetica di un centro di riabilitazione motoria"
REFRESHER COURSE	
2010	Course attended Coordinatore per la progettazione e per l'esecuzione dei lavori D.Lgs 81/2008
2009	Course attended Certificazione Energetica degli Edifici "Applicazione del D.Lgs.192/05 e del D.Lgs. 311/06"
LANGUAGES	
Italian: mother tongue. English: good(reading, writing and speaking);	
COMPUTER SKILLS	
Operating systems: WINDOWS, MACOSX. Software packages: ASPENplus, ASPENONE, THERMOFLEX, Microsoft OFFICE (Word, Excel, Access, Power Point); Autodesk AUTOCAD (CAD applications);	
WORKING SKILLS	
Communication: good communication skills Managerial: leadership skills gained during my work	
HOBBIES & INTREST	
Sports: skiing, football. Reading: thrillers, fictions, technical reviews.	

PUBLICATION (INTERNATIONAL REVIEWS)	
1	Tribioli L, Cozzolino R , Chiappini D, Iora P, (2016), Energy management of a plug-in fuel cell/ battery hybrid vehicle with on-board fuel processing, <i>Applied Energy</i> 184, 140–154
2	Tribioli L, Cozzolino R , Evangelisti L, Bella G (2016). Energy Management of an Off-Grid Hybrid Power Plant with Multiple Energy Storage Systems. <i>ENERGIES</i> , ISSN: 1996-1073
3	Cozzolino R , Tribioli L, Bella G (2016). Power management of a hybrid renewable system for artificial islands: A case study. <i>ENERGY</i> , ISSN: 0360-5442
4	Cozzolino R. , Cicconardi S.P., Galloni E., Minutillo M., Perna A., Theoretical and experimental investigations on thermal management of a PEMFC stack, <i>Int. Journal of Hydrogen Energy</i> , 36, pp 8030-7;ISSN: 0360-3199; 2011
5	Jannelli, E., Minutillo, M., Cozzolino, R. , Falcucci, G. Thermodynamic performance assessment of a small size CCHP (combined cooling heating and power) system with numerical models, <i>Energy</i> , 65, pp. 240 -249; ISSN: 0360-5442;2014
6	Perna A., Cicconardi S.P., Cozzolino R. , Performance evaluation of a fuel processing system based on membrane reactors technology integrated with a PEMFC stack, <i>Int. Journal of Hydrogen Energy</i> ,36, (16), pp 9906 -15;ISSN: 0360-3199;2011
7	VK Krastev, G Falcucci, E Jannelli, M Minutillo, Cozzolino R . 3D CFD modeling and experimental characterization of HT PEM fuel cells at different anode gas compositions, <i>International Journal of Hydrogen Energy</i> , Volume 39, Issue 36, December 2014, Pages 21663–21672

PUBLICATION (CONGRESSES AND CONFERENCES)	
1	Cozzolino, R. , Tribioli, L., Chiappini., A numerical model for CO effect evaluation in HT-PEMFCs: part 1 - Experimental validation. ICNAAM 2015, 23-29 September 2015, Rhodes, Greece.
2	Cozzolino, R. , Tribioli, L., Chiappini., L., A numerical model for CO effect evaluation in HT-PEMFCs: part 2 - Application to different membranes. ICNAAM 2015, 23-29 September 2015, Rhodes, Greece.
3	Cozzolino, R. , Tribioli, L., On-board diesel autothermal reforming for PEM fuel cells: simulation and optimization. ICNAAM 2014, 22-28 September 2014, Rhodes, Greece.
4	Tribioli, L., Cozzolino, R. , Barbieri, M. Optimal Control of a Repowered Vehicle Plug-in Fuel Cell against Plug-in Hybrid Electric Powertrain. ICNAAM 2014, 22-28 September 2014, Rhodes, Greece.
5	G. Bella, F. Fortuna, M. Barbuto, R. Conti, R. Cozzolino , S. Di Francesco, V. Duraccio, O. Giannini, V. Montesarchio, A. Monti, L. Tribioli, F. Trovalusci. (2014). Virtual Academic Teaching for next generation Engineers. ASME 2014 12th Biennial Conference on Engineering Systems Design and Analysis (ESDA2014), June 25-27, 2014
6	Cicconardi S.P., Cozzolino R. , Minutillo M., Perna A. (2013). Experimental activity on high temperature PEM fuel cells. <i>Accepted for presentation at Hypothesis 10thConference, Edinburgh, June 11-12, 2013</i>
7	Cicconardi S, Cozzolino R , Minutillo M, Perna A, Spazzafumo A (2012). Hydrogasification of biomass for cogeneration of electricity and synthetic natural gas. In: WHEC 2012 (World Hydrogen Energy Conference 2012). Toronto, Canada, 3-7 Giugno 2012
8	Cicconardi S.P., Cozzolino R. , Minutillo M., Perna A. (2011). Sensitivity analysis on commercial PBI-based MEAs for HT-PEMFC. <i>Proceedings of EFC2011, European Fuel Cell-Piero Lunghi Conference & Exhibition. Rome, December 14-16, 2011</i> , ISBN: 9788882862541

9	Cicconardi S.P., Cozzolino R. , Perna A. (2011). Combined power and hydrogen from a LPG reforming system based on membrane reactors technology. <i>Proceedings of ICAE2011, 3rd International Conference on Applied Energy. Perugia, 16-18 May 2011</i> , p. 2692-2702, ISBN: 9788890584305
10	Cicconardi S.P., Cozzolino R. , Perna A. (2010) Effect of the Anode Off-Gas Recirculation on a PEMFC System Integrated with a Steam Reformer Unit Fed by Gpl. <i>Proceedings of ASME-ATI-UIT 2010 Conference on Thermal and Environmental Issues in Energy Systems, 16-19 May 2010, Sorrento (Italy)</i> , vol. I, p. 159-164, ISBN: 9788846726599