

University Academic Curriculum Vitae

Personal information

Name: **Fabio ORECCHINI**

Education since leaving school

- Mechanical Engineering Degree, University of Rome “La Sapienza”
- PHD in Energy Engineering, University of Rome “La Sapienza”

Present appointment

- Delegate of the Rector to Sustainability and Agenda 2030, Guglielmo Marconi University of Rome.
- Full Professor of Energy Systems / Professore Ordinario, Guglielmo Marconi University of Rome.
- Director of CARE – Center for Automotive Research and evolution, Guglielmo Marconi University of Rome.
- Director of Auto and Mobility Observatory, LUISS Business School.

Chronological list of recent employments

Professional experience

From / to	Job title	Name of academic Institution	Academic level	responsibilities
1991 / 2014	Head of Research Section	CIRPS – University of Rome “La Sapienza”; Department of Mechanics and Aeronautics – University of Rome “La Sapienza”	Researcher / Professor	Co-ordination of energy and mobility research groups – Principal Investigator of National/International research projects
2006 / 2014	Professor of Energy Systems	Guglielmo Marconi University of Rome	Associate Professor	Director of Department of Mechanical and Energy Engineering
2014 / Current	Professor of Energy Systems	Guglielmo Marconi University of Rome	Full Professor	Director of Department of Sustainability Engineering; Director of CARE Research Center
2022 / Current	Director of OAM Auto and Mobility Observatory	LUISS Business School	Full Professor	Scientific Director of OAM Research Centre

Participation in exhibitions

2001 / 2012 - Organiser and Head of the Scientific Committee of H2Roma – Energy and Mobility Show, Rome, Italy;

2013 / 2018 – Head of the Scientific Committee and co-organiser of H2R – Mobility for Sustainability, Ecomondo and Key Energy International Fairs, Rimini, Italy.

Experience in academic teaching since 2015 (last 5 years)

- 2015 / 2024 - Course of Energy Systems, Guglielmo Marconi University of Rome;
- 2017 / 2023 - Co-ordinator of the Module in Smart Mobility Management, Master in Circular Economy of LUISS Business School, LUISS Guido Carli University, Rome.
- 2017 / 2024 (from XXXIII, to XL Cycle) - Scientific Coordinator of PHD Course in “Physical sciences and Energy and Industrial Innovation Engineering”

Other academic responsibilities

- Member of the ASN Commission 09/C1 for National Habilitation to the role of University Associate and Full Professor 2018 / 2020
- Member of the Academic Senate, Guglielmo Marconi University of Rome 2016/2020
- Delegate of the Rector for Sustainability and Agenda 2030, Guglielmo Marconi University of Rome.

Memberships

- Member of the Editorial Advisory Board of the Journal “Sustainability Science”, SpringerNature.
- Member of the Editorial Board (Electric Vehicles Subject Editor) of the Journal “Energies”, MDPI.
- Founding Member, past President and vice-President of IASS – Italian Association for Sustainability Science.

Research and scholarships

- Current research activity:
 - Energy systems for sustainable automotive mobility;
 - Renewable energy;
 - Hydrogen energy;
 - Energy systems for Electrification;
 - Sustainability of Energy and mobility systems.

**Publications (since 2006):
Journal Articles**

1. Gerardi M, Fallucchi F, Orecchini F (2023). Blockchain Technology for Monitoring Energy Production for Reliable and Secure Big Data. ELECTRONICS, vol. 12, ISSN: 2079-9292, doi: <https://doi.org/10.3390/electronics12224660>
2. Orecchini F, Zuccari F, Cignini F, Alessandrini A, Santiangeli A, Ortenzi F (2023). Comparing the Sustainability of Different Powertrains for Urban Use. ELECTRONICS, ISSN: 2079-9292, doi: [10.3390/electronics12040941](https://doi.org/10.3390/electronics12040941)
3. Orecchini F, Zuccari F, Cignini F, Alessandrini A, Santiangeli A, Ortenzi F (2022). A statistical analysis to compare results of different on-road vehicle performance testing. TRANSPORT ENVIRONNEMENT CIRCULATION, ISSN: 0397-6513, doi: [10.1016/j.trd.2022.103281](https://doi.org/10.1016/j.trd.2022.103281)
4. Orecchini F, Zuccari F, Santiangeli A (2021). Biomethane use for automobiles towards a CO2-neutral energy system. CLEAN ENERGY, ISSN: 2515-396X, doi: doi.org/10.1093/ce/zkab001
5. Orecchini F, Zuccari F, Santiangeli A, Alessandrini A, Cignini F, Ortenzi F (2021). Real Drive Truth Test of the Toyota Yaris Hybrid 2020 and Energy Analysis Comparison with the 2017 Model. ENERGIES, ISSN: 1996-1073, doi: doi.org/10.3390/en14238032
6. 2020 - Fabio Orecchini, Adriano Santiangeli, Fabrizio Zuccari. Hybrid-electric system truth test: Energy analysis of Toyota Prius IV in real urban drive conditions. Sustainable Energy Technologies and Assessments, Volume 37, 2020, 100573, ISSN 2213-1388, <https://doi.org/10.1016/j.seta.2019.100573>.

7. 2020 - Orecchini, F.; Santiangeli, A.; Zuccari, F. Real Drive Well-to-Wheel Energy Analysis of Conventional and Electrified Car Powertrains. *Energies* 2020, 13(18), 4788; <https://doi.org/10.3390/en13184788> - 14 Sep 2020 - MDPI
8. 2019 - Saviano, M., Barile, S., Farioli, F. et al. Strengthening the science–policy–industry interface for progressing toward sustainability: a systems thinking view. *Sustain Sci* 14, 1549–1564 (2019). <https://doi.org/10.1007/s11625-019-00668-x>
9. 2018 - Orecchini F, Barile S, Saviano M, Farioli F (2018). People, technology, and governance for sustainability: the contribution of systems and cyber-systemic thinking. *SUSTAINABILITY SCIENCE*, vol. 13, p. 1197-1208, ISSN: 1862-4057, doi: <https://doi.org/10.1007/s11625-018-0621-y>
10. 2015 - Fiori C, Dell'Era A, Zuccari F, Santiangeli A, D'Orazio A, Orecchini F (2015). Critical review of fuel cell's membranes and identification of alternative types for automotive applications. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, vol. 40, p. 11949-11959, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2015.03.105
11. 2015 - Fiori C, Dell'Era A, Zuccari F, Santiangeli A, D'Orazio A, Orecchini F (2015). Hydrides for submarine applications: Overview and identification of optimal alloys for air independent propulsion maximization. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, vol. 40, p. 11879-11889, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2015.02.105
12. 2015 - Orecchini F, D'Orazio A, Valitutti V (2015). Preface to the special section on Joung Scientists Symposium (JSS). *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, p. 11771-11772, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2015.06.138
13. 2013 - Dell'Era A, Zuccari F, Santiangeli A, Fiori C, Micangeli A, Orecchini F (2013). Energy optimisation and layout of a membrane-free OSEC system for the hypochlorite self-production in Developing Countries.. *ENERGY CONVERSION AND MANAGEMENT*, ISSN: 0196-8904
14. 2013 - D'Orazio A, Di Carlo A, Dionisi N, Dell'Era A, Orecchini F (2013). Toluene steam reforming properties of CaO based synthetic sorbents for biomass gasification process. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, ISSN: 0360-3199
15. 2012 - ORECCHINI, FABIO, G. Vitali, VALITUTTI, VALERIA (2012). Industry and academia for a transition towards sustainability: advancing sustainability science through university-business collaborations. *SUSTAINABILITY SCIENCE*, vol. 7, p. 57-73, ISSN: 1862-4065, doi: 10.1007/s11625-011-0151-3
16. 2011 - ARTUSO, PAOLA, Rupert Gammon, ORECCHINI, FABIO, Simon J. Watson (2011). Alkaline electrolyzers: Model and real data analysis. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, vol. 36, p. 7956-7962, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2011.01.094
17. 2011 - ORECCHINI, FABIO, SANTIANGELI, ADRIANO (2011). Beyond smart grids - The need of intelligent energy networks for a higher global efficiency through energy vectors integration. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, vol. 36, p. 8126-8133, ISSN: 0360-3199
18. 2011 - ALESSANDRINI Adriano, FILIPPI Francesco, ORTENZI Fernando, ORECCHINI F (2011). Driver influence in hybrid vehicle economic appraisal . *WORLD ELECTRIC VEHICLE JOURNAL*, vol. 4, ISSN: 2032-6653
19. 2011 - ORECCHINI, FABIO (2011). Energy sustainability pillars. *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, vol. 36, p. 7748-7749, ISSN: 0360-3199

20. 2011 - ALESSANDRINI Adriano, FILIPPI Francesco, ORTENZI Fernando, ORECCHINI F (2011). Evaluation of a multipurpose hybrid vehicle concept . WORLD ELECTRIC VEHICLE JOURNAL, vol. 4, p. 110-118, ISSN: 2032-6653
21. 2011 - ORECCHINI, FABIO (2011). Hysydays 2009 foreword. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 36, p. 7747, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2011.02.021
22. 2011 - ORECCHINI, FABIO, SANTIANGELI, ADRIANO, VALITUTTI, VALERIA (2011). Sustainability Science: Sustainable Energy for Mobility and Its Use in Policy Making. SUSTAINABILITY, vol. 3, p. 1855-1865, ISSN: 2071-1050, doi: 10.3390/su3101855
23. 2011 - ARTUSO, PAOLA, ZUCCARI, Fabrizio, ORECCHINI, FABIO (2011). Techno-economic optimisation of hydrogen production by PV – electrolysis: “RenHydrogen” simulation program. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 36, p. 1371-1381, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2010.10.068
24. 2010 - ORECCHINI F, A. ALESSANDRINI, F. ORTENZI, F. VILLATICO CAMPBELL, M.A.COSTAGLIOLA, M.V.PRATI (2010). Does European type approval procedure encourage the diffusion of hybrid and other low emission vehicles. SAE TECHNICAL PAPER, ISSN: 0148-7191
25. 2010 - P. Artuso, F. Zuccari, A. Dell’Era, F. Orecchini (2010). PV-Electrolyzer Plant: Models and Optimization Procedure. JOURNAL OF SOLAR ENERGY ENGINEERING, vol. 132, p. 0310161-0310169, ISSN: 0199-6231
26. 2010 - L. RAMBALDI, E. BOCCI, F. ORECCHINI (2010). Preliminary experimental evaluation of a four wheel motors, batteries plus ultracapacitors and series hybrid powertrain. APPLIED ENERGY, vol. 88, Issue 2, p. 442-448, ISSN: 0306-2619
27. 2009 - ALESSANDRINI, Adriano, FILIPPI, Francesco, ORECCHINI, FABIO, F. Villatico Campbell (2009). Un solo veicolo a basso impatto ambientale per razionalizzare più servizi di trasporto urbano. TRASPORTI & CULTURA, vol. 21, ISSN: 1971-6524
28. 2008 - ORECCHINI, FABIO (2008). 2nd World Congress of Young Scientists on Hydrogen Energy Systems - Foreword. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 33, p. 2995, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2008.05.001
29. 2008 - Orecchini F (2008). Editorial. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 33, p. 2995, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2008.05.001
30. 2008 - ORECCHINI, FABIO (2008). Editorial - 2nd World Congress of Young Scientists on Hydrogen Energy Systems. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 33, p. 2998, ISSN: 0360-3199, doi: 10.1016/j.ijhydene.2008.05.003
31. 2008 - BOCCI, ENRICO, DI CARLO, ANDREA, ORECCHINI, FABIO (2008). Process simulation of a neutral emission plant using chestnut’s coppice gasification and Molten Carbonated Fuel Cell. JOURNAL OF FUEL CELL SCIENCE AND TECHNOLOGY, vol. 5, p. 021015-021023, ISSN: 1550-624X, doi: 10.1115/1.2784312
32. 2008 - F. ORECCHINI (2008). publication of papers presented at HySyDays 2007, SecondWorld Congress of Young Scientists on Hydrogen Energy. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, ISSN: 0360-3199
33. 2007 - ORECCHINI, FABIO (2007). A “measurable” definition of sustainable development based on closed cycles of resources and it’s application to energy systems. SUSTAINABILITY

SCIENCE, vol. 2, ISSN: 1862-4065, doi: 10.1007/s11625-007-0035-8

34. 2007 - BOCCI, ENRICO, ORECCHINI, FABIO (2007). Biomass to Hydrogen for the realization of closed cycles of energy resource. ENERGY, vol. 32, p. 1006-1011, ISSN: 0360-5442, doi: 10.1016/j.energy.2006.10.021
35. 2006 - ORECCHINI F, A. SANTIANGELI, A. DELL'ERA (2006). A Technological Solution For Everywhere Energy Supply. JOURNAL OF FUEL CELL SCIENCE AND TECHNOLOGY, vol. 3, February 2006, p. 75-82, ISSN: 1550-624X
36. 2006 - ALESSANDRINI, Adriano, FILIPPI, Francesco, ORECCHINI, FABIO, ORTENZI, FERNANDO (2006). A new method for collecting vehicle behaviour in daily use for energy and environmental analysis. PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART D, JOURNAL OF AUTOMOBILE ENGINEERING, vol. 220, p. 1527-1537, ISSN: 0954-4070, doi: 10.1243/09544070JAUTO165
37. 2006 - ORECCHINI, FABIO, BOCCI, ENRICO, DI CARLO, ANDREA (2006). MCFC and microturbine power plant simulation. JOURNAL OF POWER SOURCES, vol. 160, p. 835-841, ISSN: 0378-7753, doi: 10.1016/j.jpowsour.2006.04.094
38. 2006 - F. ORECCHINI (2006). The era of energy vectors. INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol. 31, p. 1951-1954, ISSN: 0360-3199

**Publications
(since 2006):
Proceedings**

1. 2019 - F. Zuccari, F. Orecchini, A. Santiangeli, T. Suppa, F. Ortenzi, A. Genovese, G. Pedè: "Well to wheel analysis and comparison between conventional, hybrid and electric powertrain in real conditions of use". AIP Conference Proceedings 2191, 020158 (2019); <https://doi.org/10.1063/1.5138891>. Published Online: 17 December 2019.
2. 2019 - Orecchini F., Santiangeli A., Zuccari F., Pieroni A., Suppa T. "Blockchain Technology in Smart City: A New Opportunity for Smart Environment and Smart Mobility". In: Vasant P., Zelinka I., Weber GW. (eds) Intelligent Computing & Optimization. ICO 2018 - Pattaya, Thailand, October 4-5, 2018. Advances in Intelligent Systems and Computing, vol 866, pp. 346-354. Springer, Cham. Doi: https://doi.org/10.1007/978-3-030-00979-3_36, Print ISBN: 978-3-030-00978-6, Online ISBN: 978-3-030-00979-3.
3. 2018 - F. Orecchini, A. Santiangeli, F. Zuccari, F. Ortenzi, A. Genovese, G. Spazzafumo, L. Nardone. Energy consumption of a last generation full hybrid vehicle compared with a conventional vehicle in real drive conditions. Energy Procedia, Volume 148, Pages 289-296, ISSN 1876-6102, <https://doi.org/10.1016/j.egypro.2018.08.080>.
4. 2017 - Zuccari F, Santiangeli A, Orecchini F. Energy analysis of swimming pools for sports activities: cost effective solutions for efficiency improvement. ENERGY PROCEDIA, vol. 126, p. 123-130, ISSN: 1876-6102, doi: <http://doi.org/10.1016/j.egypro.2017.08.131>
5. 2016 - Zuccari F, Santiangeli A, Orecchini F. Simulation of Operating Conditions of a Home Energy System Composed by Home Appliances and Integrated PV Powerplant with Storage. ENERGY PROCEDIA, vol. 101, p. 456-463, ISSN: 1876-6102, doi: <http://dx.doi.org/10.1016/j.egypro.2016.11.058>
6. 2015 - Fiori C, Dell'Era A, Zuccari F, Santiangeli A, D'Orazio A, Orecchini F. Identification of possible alternative membranes usable in fuel cell applications. In: Proceedings of 20th World Hydrogen Energy Conference, WHEC 2014. vol. 2, p. 1170-1183, Brisbane, Australia:Curran Associates, ISBN: 9781634396554, Gwangju, South Korea, 15-20 June 2014

7. 2015 - Zuccari F, Dell'Era A, Orecchini F, Santiangeli A. The Concept of Energy Traceability: Application to EV Electricity Charging by Res. ENERGY PROCEDIA, vol. 82, p. 637-644, ISSN: 1876-6102, doi: 10.1016/j.egypro.2015.12.014
8. 2015 - Zuccari F, Santiangeli A, Dell'Era A, D'Orazio A, Fiori C, Orecchini F. Use of bio-methane for auto motive application: primary energy balance and well to wheel analysis. ENERGY PROCEDIA, vol. 81, p. 255-271, ISSN: 1876-6102, doi: 10.1016/j.egypro.2015.12.095
9. 2014 - Santiangeli A, Fiori C, Zuccari F, Dell'Era A, Orecchini F, D'Orazio A. Experimental Analysis of the Auxiliaries Consumption in the Energy Balance of a Pre-series Plug-in Hybrid-electric Vehicle. ENERGY PROCEDIA, ISSN: 1876-6102
10. 2010 - ORECCHINI, FABIO, ALESSANDRINI, Adriano, ORTENZI, FERNANDO, VILLATICO CAMPBELL, Federico, M. A. Costagliola, M. V. Prati. Does European Type approval procedure encourage the diffusion of hybrid and other low emission vehicles?. In: International Powertrains, Fuels & Lubricants Meeting Technical Papers. SAE TECHNICAL PAPER, Society of Automotive Engineers, ISSN: 0148-7191, doi: 10.4271/2010-01-1445
11. 2010 - ALESSANDRINI, Adriano, FILIPPI, Francesco, ORTENZI, FERNANDO, ORECCHINI, FABIO. Driver influence in hybrid vehicle economic appraisal. In: The 25th World Battery, Hybrid and Fuel Cell Electric Vehicle Symposium & Exhibition. Shenzhen, Chin, Nov. 5-9, 2010
12. 2010 - A Alessandrini, F Filippi, F Ortenzi, F Orecchini. Hybrid Vehicle Sustainability Evaluation: The Honda Civic Hybrid Case.
13. 2010 - RAMBALDI L, SANTIANGELI A, F. ORECCHINI, NASO V (2010). Sviluppo di una strategia di gestione energetica del motore a combustione interna di un veicolo ibrido serie. In: -. atti 65° Congresso Nazionale dell'Associazione Termotecnica Italiana.
14. 2009 - J. Dell'Angelo, V. Naso, F. Orecchini . Close cycle criterion: how to eliminate the conditions for the rebound effect. In: Second International Conference on Economic Degrowth for Ecological Sustainability and Social Equity. Barcellona, March 26 – 29, 2010 , p. 39-40
15. 2009 - ALESSANDRINI, Adriano, ORECCHINI, FABIO, ORTENZI, FERNANDO, FEDERICO VILLATICO CAMPBELL. Drive-style emissions testing on the latest two Honda hybrid technologies. In: European Conference of Transport Research Institutes (ECTRI) 2009. vol. Volume 1, Issue2, p. 57-67, doi: 10.1007/s12544-009-0008-3
16. 2009 - F. Orecchini. Energy sustainability in the framework of sustainability science. In: The Osaka International Conference on Sustainability: Resources Circulation and Low Carbon Society. Osaka - Japan, 22–23 July 2009
17. 2009 - F. ORECCHINI, F. ZUCCARI, P. ARTUSO. Simulazione ed analisi di un sistema di produzione di idrogeno via elettrolisi alimentato da un impianto ibrido fotovoltaico - eolico. In: -. Atti 64° Congresso Nazionale dell'Associazione Termotecnica Italiana. L'Aquila - Montesilvano (PE), 8-11 Settembre 2009
18. 2009 - F. Farioli, J. Dell'Angelo, F. Orecchini, V. Naso. Sustainability Science: state of the art and future perspectives. In: 5th Conference on sustainable development of energy water and environment systems. Dubrovnik , September 29 th - October 3 rd 2009
19. 2008 - F. Orecchini, A. Alessandrini, F. Villatico Campbell, M. Villarini. Technological powertrain solutions for HOST - Human oriented sustainable transport vehicles. In: TRA Transport Research Arena. Ljubljana, Slovenia, 21 - 24 April 2008
20. 2008 - F. ORECCHINI, ADRIANO ALESSANDRINI, FEDERICO VILLATICO, MAURO VILLARINI. The Human Oriented

- Sustainable Transport. In: -. Innovative Approaches in Urban Mobility. Ljubljana, Slovenia, 21-24 April 2008, p. 88-89
21. 2008 - A Alessandrini, F Orecchini, F Ortenzi. Valutazione dell'influenza dello stile di guida sulle prestazioni energetiche ed ambientali di veicoli a basso impatto: analisi sperimentale di consumi ed emissioni . In: 3° Congresso Nazionale, ATI. Palermo, 23-26 Settembre 2008
 22. 2007 - NASO V, F. ORECCHINI, ARTUSO A, FARIOLI F, HANA BRUHOVA-FOLTYNOVA, VOJTECH MACA, CONTESTABILE M, ANTÓNIO LUIS MOREIRA. D6 Report at the end of the Final Conference of the MOBIDAYS. In: Sustainable Mobility Days. PROTECTA, ISSN: 1121-3124, Praga, 2007
 23. 2006 - N. Afgan, ORECCHINI, FABIO, M. da G. Carvalho, NASO, Vincenzo. Energy index: a tool for energy system evaluation. In: Proceedings of ORMIMES international Conference,. Coimbra - Portugal, 6, 7, 8 September 2006
 24. 2006 - F. ZUCCARI, FABIO ORECCHINI, FEDERICO VILLATICO, ADRIANO ALESSANDRINI. Human Oriented Sustainable Transport mean (HOST). In: -. TRANSPORT RESEARCH ARENA (TRA). GÖTEBORG, SWEDEN, 12 – 15 JUNE 2006
 25. 2006 - F. ORECCHINI. The Era of energy vectors. In: -. 1st World Congress of young scientists on hydrogen energy systems. Turin, Italy, May 18-20, 2005, p. 57-60, New York, N.Y.:Begell House Publishing, ISBN: 1567002307

**Publications
(since 2006):
Books authored**

1. 2014 - Orecchini F, Zuccari F, Santiangeli A, Dell'Era A, Bauen A. Energy Security in the European Union: The European energy system. Achieving sustainability and security. vol. 2, MILANO: Edizioni Angelo Guerini e Associati Spa, ISBN: 978-88-8195-040-9
2. 2014 - Orecchini F, Zuccari F, Santiangeli A, Dell'Era A, Bauen A. Energy Security in the European Union: The European energy system. Achieving sustainability and security. vol. 1, MILANO: Edizioni Angelo Guerini e Associati Spa, ISBN: 9788881950416
3. 2012 - ORECCHINI, FABIO, NASO, Vincenzo. Energy systems in the era of energy vectors: A key to define, analyze and design energy systems beyond fossil fuels. GREEN ENERGY AND TECHNOLOGY, vol. 23, Springer, ISBN: 9780857292438, ISSN: 1865-3529, doi: 10.1007/978-0-85729-244-5
4. 2010 - F. ORECCHINI. Il dizionario della tecnologia. vol. 10, p. 194-256, Gruppo Editoriale l'Espresso S.p.A.
5. 2008 - FABIO ORECCHINI, V. NASO. La Società NO OIL - III ed.. - Orme Editore, ISBN: 9788888774381
6. 2006 - N. AFGAN, F. ORECCHINI, A. SANTIANGELI. HySyDays 2005: 1st World Congress of young scientists on hydrogen energy systems - Proceedings. NEW YORK: Begell House, Inc., ISBN: 9781567002300
7. 2006 - F. Orecchini, V. Naso. La società no oil. Un nuovo sviluppo è possibile ma senza petrolio, Second Edition. p. 1-248, MILANO: Orme Editori, ISBN: 9788888774381
8. 2006 - ORECCHINI F, N. AFGAN, A. SANTIANGELI. Proceeding of the 1st World Congress of young scientists on hydrogen energy systems. NEW YORK: Begell House Inc. Publ

**Publications
(since 2006):
Chapters in Books**

1. 2018 - Is a smarter planet also more sustainable? Co-creating knowledge for sustainability. In Cybernetics and Systems. Social and Business Decisions Pag.214-224 Giappichelli-Routledge. ISBN:978-1-138-59728-0
2. 2014 - Orecchini F, Santiangeli A, Dell'Era A. EVs and HEVs Using Lithium-Ion Batteries. In: (a cura di): G. Pistoia, Lithium-Ion Batteries, Advances and Applications. p. 205-248,

**Scientific Events
Responsibility /
Organization
(since 2006):**

Amsterdam:Elsevier, ISBN: 9780444595133, doi: 10.1016/B978-0-444-59513-3.00010-8

3. 2013 - Orecchini F, D'Orazio A, Valitutti V, Fiori C. Renewability of Energy Resources, Energy Vectors and Energy Technologies for Mobility. In: Handbook of Sustainable Engineering– J. Kauffman, K.M. Lee editors; Springer publisher – 2013.
4. 2010 - ORECCHINI, FABIO, SANTIANGELI, ADRIANO. Automakers' powertrain options for hybrid and electric vehicles. In: Gianfranco Pistoia. Electric and hybrid vehicles–power sources, models, sustainability, infrastructure and the market. p. 579-636, Oxford:Elsevier, ISBN: 9780444535658
5. 2009 - F. Orecchini, A. Santiangeli, F. Zuccari. Analisi tecnologica delle soluzioni e delle strategie di sviluppo proposte dalle grandi case automobilistiche. In: Giampiero Brusaglino, Giovanni Pedè, Emilio Vitale. Sistemi di propulsione elettrica e ibrida: dalla sorgente a bordo all'attuazione meccanica. p. 431-468, ENEA, ISBN: 9788882862053
6. 2006 - F. ORECCHINI. Il ciclo dell'idrogeno, le potenzialità dell'Italia agli anni 2020. In: F. ORECCHINI; V.NASO. Italia 2020: energie e ambiente dopo Kyoto. Edizioni ambiente

- 2013 and 2012

Contest for university students "BMW i APP Games 2013 - Second Edition" and "BMW i APP Games 2012 - First Edition and BMW Preview in the World". It is an educational project which aims to promote innovative solutions in terms of mobility through the implementation of applications to optimize the efficiency of the vehicle or to provide an interface with the outside world that allows you to receive information, dialogue with other (public transport, parking, services), or move more efficiently.

- 2013 and 2012

"Eco-GM future awards" for General Motors - GM Powertrain, which provides for the selection of the best degree thesis on engineering. 2013 Edition Topics: "Mobility of the future with minimal environmental impact, and in particular the analysis of the life cycle of the different vehicle power trains" and "fluid dynamic simulations of engine performance and post-treatment systems for exhaust gases"; 2012 Edition Topics: "The mobility of the future with minimal environmental impact "and "Energy Efficiency in private road transport".

- December 2011 and December 2010

Electric City powered by Enel – MotorShow 2011 and MotorShow 2010 - Bologna.

December 2011: Initiative dedicated to the world of electric mobility, with indoor track, specially built to test electric cars and with technical and scientific events (congresses and workshops) in dedicated conference area.

December 2010: Initiative dedicated to the world of electric mobility. A series of 'smart' charging infrastructure for electric cars manufactured and installed by Enel at the Motor Show are arranged along an indoor track (for test drive electric vehicles). Exhibitions of electric vehicles of various car manufacturers, Meeting / Seminars with industry.

- June 2009

"NEF New Energy Frontiers - International Conference on Energy" - Gaeta, 17-19 June 2009. Activities of the Scientific Secretariat. The conference discusses the research activities carried out by the scientific community of the Italian university "Fluid Machinery" and "Systems for Energy and the Environment" and the major centers

of national research on fuel cells, hydrogen and control technology of climate change, in one short, medium and long term.

▪ **October 2009, June 2007 and May 2005**

HySyDays - World Congress of Young Scientist on Hydrogen Energy Systems - Turin, Italy.