

## Summary

Number	Type
22	Articles in international journals [citations: 223, h-index: 6 (Scopus)]
65	Articles in international conference proceedings
3	Articles in national journals
22	Articles in national conference proceedings
9	Book chapters
1	Monographs
1	Editing
123	<i>total</i>

## Articles in international journals

1. Tomasi C., **Baratieri M.**, Bosio B., Arato E., Baggio P., (2006). Process analysis of an MCFC power plant fed with a biomass syngas. *Journal of power sources*, Vol. 157, p. 765-774
2. Baggio P., **Baratieri M.**, Gasparella A., Longo G.A., (2008). Energy and environmental analysis of an innovative system based on municipal solid waste (MSW) pyrolysis and combined cycle, *Applied Thermal Engineering*, Vol. 28, p. 136-144
3. **Baratieri M.**, Baggio P., Fiori L., Grigiante M, (2008). Biomass as an energy source: thermodynamic constraints on the performance of the conversion process. *Bioresource Technology*, Vol. 99, p. 7063–7073
4. Baggio P., **Baratieri M.**, Fiori L., Grigiante M., Avi D., Tosi P. (2009), Experimental and modeling analysis of a batch gasification reactor. *Energy Conversion and Management*, Vol. 50, p. 1426–1435
5. **Baratieri M.**, Baggio P., Bosio B., Grigiante M. (2009), The use of biomass syngas in IC engines and CCGT plants: a comparative analysis. *Applied Thermal Engineering*, Vol. 29, p. 3309–3318
6. **Baratieri M.**, Pieratti E., Nordgreen T., Grigiante M. (2010), Biomass Gasification with Dolomite as Catalyst in a small fluidized bed Experimental and Modelling Analysis. *Waste and Biomass Valorization*, Vol. 1, N. 3, p. 283-291, doi: 10.1007/s12649-010-9034-6
7. Grigiante M., Ischia M., **Baratieri M.**, Dal Maschio R., Ragazzi M. (2010), Pyrolysis analysis and solid residue stabilization of polymers, waste tyres and sewage sludge. *Waste and Biomass Valorization*, Vol. 1, N. 4, p. 381-393, doi: 10.1007/s12649-010-9038-2
8. Ischia M., Dal Maschio R., Grigiante M., **Baratieri M.** (2011), Clay–sewage sludge co-pyrolysis. A TG–MS and Py–GC study on potential advantages afforded by the presence of clay in the pyrolysis of wastewater sewage sludge. *Waste Management*, Vol. 31, p. 71–77 doi:10.1016/j.wasman.2010.05.027
9. Gasparella A., Pernigotto G., **Baratieri M.**, Baggio P. (2011), Thermal dynamic transfer properties of the opaque envelope: analytical and numerical tools for the assessment of the response to summer outdoor conditions. *Energy and Buildings*, Vol. 43, p. 2509–2517
10. Pieratti E., **Baratieri M.**, Ceschini S., Tognana L., Baggio P. (2011), Syngas suitability for solid oxide fuel cells applications produced via biomass steam gasification process: Experimental and modeling analysis. *Journal of Power Sources*, Vol. 196, N. 23, p. 10038-10049, doi: 10.1016/j.jpowsour.2011.07.090

11. Patuzzi F., Mimmo T., Cesco S., Gasparella A., **Baratieri M.** (2013), Common reeds (*Phragmites australis*) as sustainable energy source: experimental and modelling analysis of torrefaction and pyrolysis processes. *GCB Bioenergy*, Vol. 5, N. 4, p. 367-374, doi: 10.1111/gcbb.12000
12. Patuzzi F., Roveda D., Mimmo T., Karl J., **Baratieri M.** (2013), A comparison between on-line and off-line tar analysis methods applied to common reed pyrolysis. *Fuel*, Volume 111, p. 689-695, doi: 10.1016/j.fuel.2013.03.054
13. Prando D., Patuzzi F., Baggio P., **Baratieri M.** (2014), CHP Gasification Systems Fed by Torrefied Biomass: Assessment of the Energy Performance. *Waste and Biomass Valorization*. Vol. 5, N. 2, p. 147–155. doi:10.1007/s12649-013-9227-x
14. Patuzzi F., Gasparella A., **Baratieri M.** (2014), Thermochemical and Fluid Dynamic Model of a Bench-Scale Torrefaction Reactor. *Waste and Biomass Valorization*. Vol. 5, N. 2, p. 165–173. doi: 10.1007/s12649-013-9236-9
15. Mimmo T., Panzacchi P., **Baratieri M.**, Davies C.A., Tonon G. (2014) Effect of pyrolysis temperature on miscanthus (*Miscanthus x giganteus*) biochar physical, chemical and functional properties. *Biomass and Bioenergy*. Vol. 62, p. 149-157. doi: 10.1016/j.biombioe.2014.01.004
16. Ciuta S., Patuzzi F., **Baratieri M.**, Castaldi M.J. (2014) Biomass energy behavior study during pyrolysis process by intraparticle gas sampling. *Journal of Analytical and Applied Pyrolysis*, Vol. 108, pp. 316-322. DOI: 10.1016/j.jaap.2014.04.012
17. Prando D., Patuzzi F., Pernigotto G., Gasparella A., **Baratieri M.** (2014) Biomass gasification systems for residential application: An integrated simulation approach. *Applied Thermal Engineering*, Vol. 71, N. 1, p. 152–160. DOI: 10.1016/j.applthermaleng.2014.06.043
18. Fiori L., Basso D., Castello D., **Baratieri M.** (2014) Hydrothermal carbonization of biomass: Design of a batch reactor and preliminary experimental results. *Chemical Engineering Transactions*, Vol. 37, p. 55-60. DOI: 10.3303/CET1437010
19. Köbbing J.F., Patuzzi F., **Baratieri M.**, Beckmann V., Thevs N., Zerbe S. (2014) Economic evaluation of Common Reed potential for energy production: a case study in Wuliangsu Lake (Inner Mongolia, China). *Biomass and Bioenergy*, Vol. 70, p. 315-329. DOI: 10.1016/j.biombioe.2014.08.002
20. Carlon E., Verma V.K., Schwarz M., Golicza L., Prada A., **Baratieri M.**, Haslinger W., Schmid C. (2015) Experimental validation of a thermodynamic boiler model under steady state and dynamic conditions. *Applied Energy*, Vol. 138, p. 505–516. DOI: 10.1016/j.biombioe.2014.08.002
21. Prando D., Renzi M., Gasparella A., **Baratieri M.** (2015) Monitoring of the energy performance of a district heating CHP plant based on biomass boiler and orc generator, *Applied Thermal Engineering*, in press
22. Basso D., Weiss-Hortala E., Patuzzi F., Castello D., **Baratieri M.**, Fiori L. (2015) Hydrothermal carbonization of off-specification compost: a byproduct of the organic municipal solid waste treatment, *Bioresource Technology*, in press

### Articles in international conference proceedings

1. Antonacci G., **Baratieri M.**, Tubino M. (2004). Dispersion modelling of pollutant emissions from methane domestic heating: a case study, 1st general assembly EGU 2004, Nice, France, 25-30/04/2004.
2. Baggio P., **Baratieri M.**, Fiori L., Grigiente M., Ragazzi M. (2005). Biomass gasification experimental investigation: Literature review and design of a bench-scale reactor, *Proceedings of the 14th European Biomass Conference & Exhibition*. Biomass for Energy, Industry and Climate Protection, Paris, France, 17-21 October 2005, ISBN:88-89407-07-7, p. 692-695

3. Baggio P., **Baratieri M.**, Fiori L., Tomasi C. (2005). Energy performance of biomass gasification: a thermodynamic analysis, Proceedings of the 14th European Biomass Conference & Exhibition. Biomass for Energy, Industry and Climate Protection, Paris, France, 17-21 October 2005, ISBN:88-89407-07-7, p. 803-806
4. Baggio P., **Baratieri M.**, Fiori L., Grigiante M., Ragazzi M. (2005). A bench-scale reactor for pyrolysis and gasification: state of art and design, Proceedings of CIEM 2005, International Conference on Energy and Environment, Bucharest, Romania, 20 – 22 October 2005, ISBN: 973-86948-5-X.
5. Rada E.C., **Baratieri M.**, Lazar L., Ragazzi M., Baggio P., Panaitescu V., Apostol T. (2005). Waste to Energy options: a proposal for an innovative approach for energy production, Workshop: "Management of Industrial and Urban Waste" Bucharest, Romania, 24 October 2005.
6. **Baratieri M.**, Baggio P., Fiori L., Tomasi C. (2006). Thermochemical biomass conversion: process analysis and energy performances, World Renewable Energy Congress – IX, Florence (Italy), 19-25 August 2006
7. Baggio P., **Baratieri M.**, Fiori L., Grigiante M., Tosi P. (2007). Biomass gasification process: experimental analysis and two-phase equilibrium modeling, Proceedings of the 15th European Biomass Conference & Exhibition. Biomass for Energy, Industry and Climate Protection, Berlin, Germany, 7-11 May 2007, ISBN:978-88-89407-59-X, p. 834-843
8. Dinu R., **Baratieri M.**, Baggio P., Badea A., Apostol T., Grigiante M. (2007). Two-phase equilibrium model of multi-stage combustion processes, Proceedings of the 15th European Biomass Conference & Exhibition. Biomass for Energy, Industry and Climate Protection, Berlin, Germany, 7-11 May 2007, ISBN:978-88-89407-59-X, p.1482-1487
9. Fiori L., Lorenzi A., Grigiante M., Baggio P., **Baratieri M.**, (2007). Experimental evaluation of sunflower oil extraction with supercritical CO<sub>2</sub>, Proceedings of the 15th European Biomass Conference & Exhibition. Biomass for Energy, Industry and Climate Protection, Berlin, Germany, 7-11 May 2007, ISBN:978-88-89407-59-X, p. 2016-2020
10. Baggio P., **Baratieri M.**, Grigiante M. (2007). Emission evaluation and energy balance of combustion processes carried out on a gasifying wood stove, Proceedings of Bioenergy2007 3rd International Bioenergy Conference and Exhibition, Jyväskylä, Finland, 3-6 September 2007, FINBIO, ISBN:978-952-5135-35-0, ISSN:1239-4874, p. 473-480
11. Baggio P., **Baratieri M.**, Grigiante M. (2007). Equilibrium simulation of a small-scale gasification biomass CHP plant, Proceedings of Bioenergy2007 3rd International Bioenergy Conference and Exhibition, Jyväskylä, Finland, 3-6 September 2007, FINBIO, ISBN:978-952-5135-35-0, ISSN:1239-4874, p. 595-602
12. Baggio P., **Baratieri M.**, Grigiante M., Ragazzi M. (2005). Energy performance of the biomass gasification process, Proceedings of the 3rd International Conference on Energy and Environment, Bucharest, Romania, 22 – 23 November 2007, ISSN 1454-234x
13. Pieratti E., Patuzzi F., **Baratieri M.**, Baggio P., Grigiante M., (2008). Parametric analysis of small scale biomass gasification plants. Proceedings of the 16th European Biomass Conference & Exhibition. From Research to Industry and Markets, Valencia, Spain, 2-6 June 2008, ISBN 978-88-89407-58-1, p.1019-1024
14. Baggio P., Scalet S., Cantiani M. G., Colpi C., **Baratieri M.**, Grigiante M., (2008). District heating in alpine communities areas: a case study in the Primiero valley (north east italy) Proceedings of the 16th European Biomass Conference & Exhibition. From Research to Industry and Markets, Valencia, Spain, 2-6 June 2008, ISBN 978-88-89407-58-1, p.1309-1314.
15. Baggio P., **Baratieri M.**, Grigiante M., Bertoldi, M., Ceschini S., Tognana L., SOFC CHP plant fueled with biomass syngas: modeling the gasification stage. Proceedings of the World Renewable Energy Congress X and Exhibition, 19–25 July 2008, Glasgow, Scotland UK

16. Bagozzi C., Baggio P., Gasparella A., **Baratieri M.**, Grigiante M., Three dimensional dynamic analysis of the thermal behaviour of a building. Proceedings of the World Renewable Energy Congress X and Exhibition, 19–25 July 2008, Glasgow, Scotland UK
17. **Baratieri M.**, Grigiante M., Ischia M., Ragazzi M., Dal maschio R., Tognana L., Rada E.C., Pyrolysis-vitrification process applied to disposal of sewage sludge and refinery sludge; comparison by energetical point of view. Proceedings of the 1st International Conference – Hazardous Waste Management, 1-3 ottobre 2008, Chania - Crete, Greece.
18. Ischia M., Dal Maschio R., Tognana L., Grigiante M., **Baratieri M.**, Ragazzi M., Effect of clay presence in the pyrolysis of wastewater sewage sludge. Proceedings of the Venice 2008 – Second International Symposium on Energy from Biomass and Waste, 17-20 November 2008, Venice, Italy
19. Baggio P., **Baratieri M.**, Gasparella A., Longo G.A., Energy and environmental analysis of an innovative system based on municipal solid waste (MSW) pyrolysis and combined cycle. Proceedings of the Venice 2008 – Second International Symposium on Energy from Biomass and Waste, 17-20 November 2008, Venice, Italy
20. **Baratieri M.**, Prada A., Gasparella A., Baggio P., Dynamic behavior of the building envelope: theoretical predictions and experimental analysis. Proceedings of XII Polish Conference of Science and Technology - Building physics in theory and practice, Lodz – Slok, Poland, June 23-26, 2009
21. Baggio P., Prada A., **Baratieri M.**, Dynamic simulation of buildings: different approaches comparison and validation. Proceedings of XII Polish Conference of Science and Technology - Building physics in theory and practice Lodz – Slok, Poland, June 23-26, 2009
22. Ionescu G., Apostol T., Ischia M., Dal Maschio R., Grigiante M., Ragazzi M., Rada E.C., **Baratieri M.**, Disposal of plastic scraps arising from food and pharmaceutical industry. Comparison between direct combustion and pyrolysis processes, Proceedings of 4<sup>th</sup> International Conference on ENERGY and ENVIRONMENT - CIEM/ / 2009, 12-14 November 2009, Bucharest, Romania, Editura POLITEHNICA Press, ISSN 2067 – 0893
23. Gasparella A., Pernigotto G., **Baratieri M.**, Baggio P., On the thermal dynamic performance of opaque buildings components: numerical tools and parameters. Proceedings of Clima 2010, 10th REHVA World Congress, 9-12 May 2010, Antalya, Turkey, ISBN 978-975-6907-14-6
24. Prada A., Pancheri P., Baggio P., **Baratieri M.**, Libardoni G., Experimental analysis and modeling of the thermal performance of ventilated roofs. Proceedings of Clima 2010, 10th REHVA World Congress, 9-12 May 2010, Antalya, Turkey, ISBN 978-975-6907-14-6
25. Benedetti C., G. Pasetti Monizza, **Baratieri M.**, Analysis and design of a passive cooling system using rainfall sources. Proceedings of Clima 2010, 10th REHVA World Congress, 9-12 May 2010, Antalya, Turkey, ISBN 978-975-6907-14-6
26. Benedetti C., Leone G., Mimmo T., **Baratieri M.**, Passive cooling potential of traditional buildings screens: the Egyptian Mashrabyya as a case study. Proceedings of Clima 2010, 10th REHVA World Congress, 9-12 May 2010, Antalya, Turkey, ISBN 978-975-6907-14-6
27. **Baratieri M.**, Pieratti E., Nordgreen T., Grigiante M., Biomass gasification with dolomite as catalyst in a small fluidized bed: experimental and modeling analysis. Proceedings of WasteEng10, 3rd International Conference on Engineering for Waste and Biomass Valorisation, 17-19 May 2010, Beijing, China
28. **Baratieri M.**, Grigiante M., Pieratti E., Antolini D., Baggio P., Experimental gas emissions evaluation and energy balance assessment of a gasifying wood stove. Proceedings of WasteEng10, 3rd International Conference on Engineering for Waste and Biomass Valorisation, 17-19 May 2010, Beijing, China
29. Pieratti E., **Baratieri M.**, Baggio P., Grigiante M., Ceschini S., A biomass steam gasification pilot plant: syngas suitability for soft stacks. Proceedings of WasteEng10, 3rd International Conference on Engineering for Waste and Biomass Valorisation, 17-19 May 2010, Beijing, China

30. Grigiane M., Ischia M., **Baratieri M.**, Dal Maschio R., Ragazzi M., Pyrolysis analysis and solid residue stabilization of polymers, waste tyres and sewage sludge. Proceedings of WasteEng10, 3rd International Conference on Engineering for Waste and Biomass Valorisation, 17-19 May 2010, Beijing, China
31. Benedetti C., **Baratieri M.**, Leone G., Mimmo T., Paglialonga G., Wood technology for passive cooling. Proceedings of WCTE 2010, World Conference on Timber Engineering, 20-24 June 2010, Riva del Garda, Italy
32. Benedetti C., Leone G., **Baratieri M.**, I. Brauer, From the Traditional Architecture, throughout the formula, to the design guidelines: the wind tower tradition, C-25 Final Conference, Innsbruck, February 2011
33. Benedetti C., Leone G., **Baratieri M.**, Brauer I., Natural ventilation and traditional architectural devise: physical analysis of badgir structure, SB11 Conference, Helsinki, October 2011
34. Valducci Vecchi G., Brusetti L., Angeli S., Grigiane M. and **Baratieri M.**, Energy analysis and bioremediation of tar applied to the biomass gasification process, 19th European Biomass Conference & Exhibition, Berlin, Germany, 6-10 June 2011, ISBN 978-88-89407-55-7, DOI: 10.5071/19thEUBCE2011-VP2.8.4, pp. 1841-50
35. **Baratieri M.**, Patuzzi F., Thevs N., Zerbe S., Assessment of suitable energy conversion scenarios of common reeds, *Phragmites australis*, 19th European Biomass Conference & Exhibition, Berlin, Germany, 6-10 June 2011, ISBN 978-88-89407-55-7, DOI: 10.5071/19thEUBCE2011-VP2.3.38, pp. 1501-1514
36. Patuzzi F., Mimmo T., **Baratieri M.** Grass biomass for energy use: experimental study and analytical model on the characterization of torrefaction and pyrolysis. Proceedings of ISAF, International Symposium on Alcohol Fuels. Verona, 10-14 October 2011
37. Valducci Vecchi G., Patuzzi F., Baggio P., **Baratieri M.** (2012). CHP gasification systems fed by torrefied biomass: assessment of the energy performance . In: 4th International Conference on Engineering for Waste and Biomass Valorisation. Porto, Portugal, September 10 – 13, 2012, p. 847-852, ISBN: 979-10-91526-00-5
38. Valducci Vecchi G., Ciccazzo S., Borruso L., Manara S., Mimmo T., Angeli S., **Baratieri M.**, Brusetti L. (2012). Microbial consortia involved in laboratory-scale bioremediation of pinewood-tar after a steam gasification process. In: 4th International Conference on Engineering for Waste and Biomass Valorisation. Porto, Portugal, September 10 – 13, 2012, p. 534-539, ISBN: 979-10-91526-00-5
39. Patuzzi F., Gasparella A., **Baratieri M.** (2012). Thermochemical and fluidynamic model of a torrefaction reactor: assessment of a two step kinetic scheme. In: 4th International Conference on Engineering for Waste and Biomass Valorisation. Porto, Portugal, September 10 – 13, 2012, p. 1301-1306, ISBN: 979-10-91526-00-5
40. Prando D., Patuzzi F., Pernigotto G., Gasparella A., **Baratieri M.** (2012). Modeling analysis of biomass gasification MCHP systems for residential application. In: Proceedings of the 20th EU BC&E - Milan 2012 . Milano, 18-22 Giugno, p. 1058-1064, FIRENZE:ETA, ISBN: 978-88-89407-54-75.
41. Patuzzi F., Roveda D., Mimmo T., Karl J., **Baratieri M.** (2012). Characterization of the tar produced during pyrolysis of common reed: comparative study between on-line and off-line measuring method approaches. In: Proceedings of the 20th EU BC&E - Milan 2012 . Milano, 18-22 Giugno, p. 997-1004, FIRENZE:ETA, ISBN: 978-88-89407-54-7, doi: 10.5071/20thEUBCE2012-2EO.3.5
42. Patuzzi F., Köbbing J.F., Beckmann V., Thevs N., Zerbe S., **Baratieri M.** (2012). Evaluation of common reeds potential for energy production in Wuliangshuai Lake (Inner Mongolia, China). In: Proceedings of the 20th EU BC&E - Milan 2012. Milano, 18-22 Giugno, p. 2353-2361, FIRENZE:ETA, ISBN: 978-88-89407-54-77.
43. Pernigotto G., Pernigotto G., **Baratieri M.**, Gasparella A. (2012). 3D unsteady state analysis of thermal performance of differently insulated floors in contact with the ground. In: Proceedings of BAUSIM 2012 Fourth German-Austrian IBPSA Conference. Berlin, Germany, 26-28 September 2012, p. 431-438

44. Prando D., Patuzzi F., Pernigotto G., Gasparella A. and **Baratieri M.**, Biomass CHP systems for residential applications: a multi-stage modeling approach, Proc. of CLIMA 2013 - 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, 16. - 19. 6. 2013 Prague Congress Centre, ISBN 978-80-260-4001-9
45. Prando D., Renzi M., Gasparella A., **Baratieri M.** Experimental and modeling analysis of a biomass CHP generation system with district heating: a study case in South-Tyrol Proceedings of the 21st European Biomass Conference & Exhibition. Setting the course for a biobased economy, Copenhagen, Denmark, 3-7 June 2013
46. Vakalis S., Prando D., Patuzzi F., Mimmo T., Gasparella A., Tirlir W., Dal Savio S., Chiaramonti D., Prussi M., **Baratieri M.** Experiences in biomass gasification in South-Tyrol: the "GAST" project. Proceedings of the 21st European Biomass Conference & Exhibition. Setting the course for a biobased economy, Copenhagen, Denmark, 3-7 June 2013
47. Ng F. B., Guzzomi A. L., Chua H. T., Wang X., Patuzzi F., **Baratieri M.**, T. Mimmo Olive pomace requirements for small combustion applications in western australia: experimental and modelling analysis. Proceedings of the 21st European Biomass Conference & Exhibition. Setting the course for a biobased economy, Copenhagen, Denmark, 3-7 June 2013
48. Ciccazzo S., Manara S., Mimmo T., **Baratieri M.**, Brusetti L. Assessment of microbial bioremediation of tar produced by steam gasification. Proceedings of the 21st European Biomass Conference & Exhibition. Setting the course for a biobased economy, Copenhagen, Denmark, 3-7 June 2013
49. Basso D., Castello D., **Baratieri M.**, Fiori L. Hydrothermal carbonization of waste biomass: progress report and prospects. Proceedings of the 21st European Biomass Conference & Exhibition. Setting the course for a biobased economy, Copenhagen, Denmark, 3-7 June 2013
50. Prando D., Renzi M., Gasparella A., **Baratieri M.** Experimental and modeling analysis of a urban settlement supplied by a district heating system based on biomass: a study case in South-Tyrol Proceedings of the 12th International conference cleantech for smart cities & buildings from nano to urban scale, Lausanne , Switzerland, 4-6 September 2013
51. Ciuta S., Patuzzi F., **Baratieri M.**, Castaldi M. J. Energy Change Mechanisms Study During Biomass Pyrolysis By in-Particle Gas Sampling, 2013 AIChE Annual Meeting, November 3-8, 2013, San Francisco, CA
52. Patuzzi F., Ciuta S., **Baratieri M.**, Mimmo T., Castaldi M. J., Intraparticle gas sampling during biomass non-oxidant thermal treatment for kinetic behavior study, IT3 32nd Intenational Conference on thermal treatment technologies & hazardous waste combustors, October 21-23, 2013, San Antonio, TX
53. Vakalis S., Prando D., Patuzzi F., **Baratieri M.**, Thermodynamic Modeling of Biomass Downdraft Gasifiers: Introduction to the "Multi-Box" Concept, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 637 – 640, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-2AV.2.18
54. Prando D., Boschiero M., Campana D., Gallo R., **Baratieri M.**, Comiti F., Mazzetto F., Zerbe S., Woody Biomass in South Tyrol: Feedstock Availability and Characterization of Different Conversion Processes for Energy Production, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 655 – 661, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-2BV.2.3
55. Basso D., Patuzzi F., **Baratieri M.**, Fiori L., Thermo-Fluid Model of a Batch Hydrothermal Carbonization Reactor, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 987 – 990, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-3DO.5.3
56. Patuzzi F., Ciuta S., Castaldi M. J., **Baratieri M.**, Pyrolysis of a Single Wooden Particle: a Numerical Model Calibrated Versus Intraparticle Gas Sampling Measurements, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 912 – 919, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-3CO.10.3

57. Basso D., Patuzzi F., Castello D., **Baratieri M.**, Fiori L., Modeling the Reaction Kinetics During Hydrothermal Carbonization of Waste Biomass, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 1269 – 1273, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-3DV.1.4
58. Patuzzi F., Prando D., **Baratieri M.**, Pyrolysis of Common Reed: Thermal Analysis of the Feedstock and Characterization of Pyrolysis Products, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 1134 - 1139, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-3CV.2.12
59. Vakalis S., Prando D., Patuzzi F., Mimmo T., Gasparella A., Tirlor W., Mair K., Voto G., Chiaramonti D., Rizzo A., Pettorali M., Prussi M., Dal Savio S., Andreasi D., **Baratieri M.**, Assessment of a Test Methodology Suitable for Small Scale Gasification Systems, Proceedings of the 22nd European Biomass Conference and Exhibition, p. 579 – 584, ISBN 978-88-89407-52-3, DOI: 10.5071/22ndEUBCE2014-2AV.1.18
60. Prando D., Prada A., Ochs F., Gasparella A., **Baratieri M.**, Enhanced performance buildings connected to district heating systems: multi-objective optimization analysis, Proceedings of the III International High Performance Buildings Conference at Purdue, 14th-17th July 2014, West Lafayette (Indiana), U.S.
61. Carlon E., Schwarz M., Schmidl C., **Baratieri M.**, Gasparella A., Haslinger W., Low energy houses heated by biomass boilers: optimization of the heating system control strategy by means of dynamic simulation, Proceedings of the III International High Performance Buildings Conference at Purdue, 14th-17th July 2014, West Lafayette (Indiana), U.S.
62. Basso D., Patuzzi F., Castello D., **Baratieri M.**, Fiori L., Hydrothermal carbonization of grape marc: experimental results and reaction kinetics modeling. WasteEng 2014: 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio de Janeiro, Brazil, August 25 – 28, 2014.
63. Patuzzi F., Ciuta S., Castaldi M.J., **Baratieri M.**, Thermochemical and fluiddynamic model of a wood particle subjected to pyrolysis supported by intraparticle gas sampling. WasteEng 2014: 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio de Janeiro, Brazil, August 25 – 28, 2014.
64. Ciuta S., Patuzzi F., Castaldi M.J., **Baratieri M.**, Innovative intraparticle gas sampling technique for biomass pyrolysis reaction mechanism study. WasteEng 2014: 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio de Janeiro, Brazil, August 25 – 28, 2014.
65. Prando D., Rizzo A., Vakalis S., Patuzzi F., Gasparella A., Chiaramonti D., **Baratieri M.**, Monitoring of two CHP systems based on biomass in northern Italy: boiler-ORC and gasifier-ICE. WasteEng 2014: 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio de Janeiro, Brazil, August 25 – 28, 2014.

## Articles in national journals

1. Antonini G., Badea A., Baggio P., **Baratieri M.**, Marculescu C., Ragazzi M. (2006), Introduzione ai processi di pirolisi dei rifiuti, RS – Rifiuti Solidi, ISSN: 0394-5391, Vol.5-2006, p.295-303
2. Antonacci G., Baggio P., Baratieri M., Grigante M. (2004), Caratterizzazione del bilancio energetico e ambientale applicato al teleriscaldamento: un caso di studio per la provincia di Trento, Foglio di collegamento dell'AIRU, Associazione Italiana Riscaldamento Urbano, anno XX - N. 18 - December 2004, p. 13-19
3. **Baratieri M.**, Ragazzi M., Salvaterra M. (2004), Quantificazione e caratterizzazione merceologica della produzione di rifiuti urbani indotta dalle presenze turistiche sul territorio: un caso di studio per la provincia di Trento, RS – Rifiuti Solidi, ISSN: 0394-5391, Vol.6-2004, p.373-378

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