

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name

**FANTOZZI FRANCESCO**

Address

Università di Perugia – Dipartimento di Ingegneria

## WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

DECEMBER 2005 TO NOW

Department of Engineering, University of Perugia, Italy  
Public University

Associate Professor – Qualified for full professorship since 2012

Research Delegate of the Department - Member of the Doctorate Council in Energy and Sustainable Development – Current courses held: Energy Systems, (undergraduate Industrial and Mechanical Engineering) Energy from biomass and waste (graduate Mechanical Engineering)

- prof. Fantozzi is Head of SES-LAB, Sustainable Energy System Laboratory, at the Department of Engineering and Biomass Research Center of the University of Perugia ([www.seslab.unipg.it](http://www.seslab.unipg.it)),  
- He has co-authored over **280 scientific paper at national and international level** on sustainability on the life cycle, innovative energy systems and renewable energies with focus on bioenergy. His Scientific Indexes are:

G. SCHOLAR Documents 323, Citations 5629, h-index 39  
SCOPUS Documents 163, Citations 4143, h-index 35

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

January 2021 to NOW

Libera Università Internazionale degli Studi Sociali – LUISS Guido Carli, Roma, Italy  
Private University

Contracted Professor

Current courses held: Technologies and business models for energy transition and circular economy

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

JANUARY 2019 TO NOW

Scuola Superiore Sant'Anna, Pisa, Italy  
Public University

Affiliate Professor

*Current courses held: Waste incineration – Thermodynamics and energy @ MASTER GECA -*

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

2012 TO NOW

European Commission

Public Authority

Member of the board of experts

As a member of the board of experts of the EU he evaluated R&D projects for various call for tenders (KBBE, HORIZON 2020, HORIZON EUROPE & MSCA),

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

2002 TO NOW

Ministries of Research and Industry

Public Authority

Member of the board of experts

As a member of the board of experts of the Italian Ministries of Research and of Industry he evaluated and/or tutored R&D projects for various national and regional tenders

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

2005 TO NOW

BIO-NET Srl – Terni, Italy

Spin off company of the University of Perugia

Shareholder – Technical Manager

Technical manager – Engineering company – Developer of the original IPRP (Integrated Pyrolysis Regenerated Plant) concept for microscale biomass and waste cogeneration. Consultant in energy and environmental sustainability – Knowhow in LCA analysis SimaPro and OpenLCA platforms– Consultant for certification of ISO 14067 EPD ISO 14040 for relevant food industries.

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

2005 to 2012  
 TRE-ENG srl – Perugia, Italy  
 Spin off company of the University of Perugia  
 Founder and Vice President  
 Engineering Company – ESCO – Carbon Credits trading

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

2000 to 2005  
 Department of Engineering – University of Perugia, Italy  
 Public University  
 Assistant professor  
 Researcher in sustainability and energy systems – Courses held: Turbomachinery, Energy Systems, Energy-economic management

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

1999 to 2000  
 Department of Engineering – University of Perugia, Italy  
 Public University  
 Post Doc  
 Researcher in energy savings in the Industry

## EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

November 1996 - October 1999  
 Department of Engineering - University of Pisa, Italy  
  
 Sustainability of Energy systems, Cogeneration, Monitoring, Artificial Intelligence, Neural Networks, Fuzzy Logic  
 Ph.D in Energy and Aerospace Propulsion

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

November 1990 - April 1996  
 Faculty of Engineering - University of Perugia, Italy  
  
 Sustainability of Energy systems, Cogeneration, Monitoring, Artificial Intelligence, Neural Networks, Fuzzy Logic  
 M.Sc. in Mechanical Engineering

## PERSONAL SKILLS AND COMPETENCES

### SCIENTIFIC COLLABORATIONS

- Columbia University, New York, Universidade Estadual Paulista, Guarantiguetà Brasil, Universidad de Mar Del Plata - Mar del Plata – Argentina, Universidad de Cienfuegos (Cuba), Tokyo Institute of Technology, Tokyo, Japan, RECRUIT Co. Ltd, Osaka, Japan, HITEC Co. Ltd, Osaka, Japan, HUST - Huazhong University of Science and Technology, Wuhan, China, Technische Universität Berlin Germany, Technische Universität Munchen, Germany, Cranfield University, Cranfield, UK, Ecole des Mines – Paristech – Paris – France, Universidad de Leon – Leon – Spain, Universidad de Valladolid – Spain, Universidad Complutense, Madrid, Spagna, Universidad Carlos III, Madrid, Spain, Universidad de Valencia, Valencia, Spain, University of Stavanger, Stavanger, Norway, Lulea University of Technology, Lulea, Sweden, Aristotle University of Thessaloniki, Thessaloniki, Greece, Université de Liege - Department Génie Nucleaire et des Centrales Thermiques, RES | the School for Renewable Energy Science - Akureyri, Iceland

### MOTHER TONGUE OTHER LANGUAGES

### ITALIAN

- Reading skills
- Writing skills
- Verbal skills

ENGLISH	SPANISH	FRENCH	GERMAN
EXCELLENT	EXCELLENT	GOOD	BASIC
EXCELLENT	GOOD	GOOD	BASIC
EXCELLENT	EXCELLENT	GOOD	BASIC

### ORGANISATIONAL SKILLS AND COMPETENCES

2002 to now - Head of the Sustainable Energy Systems Laboratory SESLAB at UNIPG.  
 2019 to now – President of the Italian Thermo-technical association (ATI) – Umbria Region  
 2014 to now – Expert member designated by Umbria Region at the Ministry of Environment for the new EU directive on medium plants emissions.  
 2014 to now – Research delegate of the Department of Engineering UNIPG  
 2011 to now - Faculty Advisor Formula SAE Student – UNIPG – www.racingteam.unipg.it  
 2013 to now – Member of the board of administrators of the Biomass Research Center – UNIPG  
 2013 to now – Secretary of the Italian Thermo-technical association (ATI) – Umbria Region  
 2009 to now – Head of engineering at the Center of Excellence on Beer Research - UNIPG  
 2010-2012 – Elected chairman of the Coal, Biomass and Alternative Fuels Committee – ASME - (American Society of Mechanical Engineers) IGTI (International Gas Turbine Institute)  
 2008-2010 – Elected Vice-Chairman of the Coal, Biomass and Alternative Fuels Committee – ASME (American Society of Mechanical Engineers) IGTI (International Gas Turbine Institute)  
 2003-2013 - Member of the Board of Directors of the Biomass Research Center of Perugia  
 2003-2015 - Member of the Board of Directors of CIRPS (Centro Interuniversitario di Ricerca per lo Sviluppo Sostenibile) in representation of the University of Perugia;

### RECENTLY FUNDED RESEARCH

- **FAST TO 0** - Pproduction of bio.char from beer production residues - Italian Ministry of Energy and Environment. [2023-2026], Research Unit coordinator.
- **GREENHYDCM** - Co-production of green hydrogen and carbon materials with high

TECHNICAL SKILLS  
AND COMPETENCES  
 With computers, specific kinds of  
 equipment, machinery, etc.

electrochemical performance through molten-salt assisted pyrolysis of biomass  
 Science and technology cooperation Italy- R.P.China MAECI-NFSC (Ministry of Foreign Affairs and International Cooperation of the Republic of Italy and the National Natural Science Foundation of China). Joint Research Projects. [2023-2025], Research Unit coordinator.  
<https://chemistry.unibo.it/en/research/research-projects/other-projects/greenhydcm>  
 - **BIO-CHORUS** - BIOChar from Olive Residues and sewage sludge: a Sustainable nanostructured catalytic support – PNRR - “Innovation, digitalisation and sustainability for the diffused economy in Central Italy – VITALITY” – Research Unit coordinator – 2022-2025  
 - “Technical, Environmental and Socio-Economic study of power-to-fuel solutions for a sustainable path towards a green future: achieving 80% renewable electric energy and 40% renewable primary energy supply within the next two decades”- PRIN2020 – Coordinatore unità di ricerca – 2022-2025  
 - **SURFOLY** – Sustainable Ruminants Feed with OLive pomace and polyPhenols enriched charred olive stone PRIMA-CALL 2021/2025 – International Coordinator - [www.surfoly.it](http://www.surfoly.it)  
 - “Co-production of green hydrogen and carbon materials with high electrochemical performance through molten-salt assisted pyrolysis of biomass” – Ministry of foreign Affairs - Grande Rilevanza – Cina – 2023-2025  
 - **PHOTOCAIR** - A Low Cost Photocatalytic Device for Local Indoor Air Sanitation – FISR2020 – Research unit coordinator - 2022  
 - **PRIN2020AA9N4M** – WASYNG (WAstewaters to SYnthetic Natural Gas) – 2022-2025 – Mur-PRIN – National Unit Coordinator  
 - **LIFETURF** - Transparent Global Model for Operating the Synthetic Turf Industry in a Sustainable and Circular Way – EU LIFE 2019 – National Coordinator – 2020-2024  
 - **i-REXFO** – Increase in the Recovery and Reduction of Expired Food – EU LIFE 2016 – International Coordinator – 2017-2021 – [www.irexfo.eu](http://www.irexfo.eu)  
 - **A tool for sustainable design of Gas Turbines** – BAKER HUGHES, Nuovo Pignone, Florence, Italy 2018 to now

OTHER SKILLS  
 AND COMPETENCES  
*Competences not mentioned above.*

Member of the Editorial Board of Energy – Nexus – Elsevier,  
 Co-Editor - Italian Journal of Food Science, Codon Publications  
 Scientific Referee and responsible of Energy and Sustainability section – Food Industry and Drink Industry - Chiriotti Editori

## ADDITIONAL INFORMATION

### MEMBERSHIPS AND AFFILIATION

- Board of Experts of the Ministries of Research and Industry, Rome, Italy
- Board of Experts of the European Commission (FP6 – FP7 - HORIZON), Bruxelles, Belgium
- Board of Engineers of the Province of Perugia, Italy
- The Combustion Institute
- ASME - American Society of Mechanical Engineers
- ISWA - International Solid Waste Association
- ICHAR – Italian Biochar Association
- ATI - Italian Thermotechnical Organization
- ATA – Italian Automobile Technical Association
- Accademia dei Georgofili, Florence, Italy

### AWARDS

- BEST PAPER AWARD 2020 - IGTI (International Gas Turbine Institute) dell'ASME (American Society of Mechanical Engineers) for the following paper: vAlessandro Musacchio, Mattia Vicarelli, Simone Colantoni, Pietro Bartocci, Francesco Fantozzi GT2019-91191: Implementing Environmental Impact Assessment on the Life Cycle for Industrial Gas Turbines Development - Proceedings of the ASME Turbo Expo 2020 Power for Land, Sea, and Air. London
- ASME-IGTI Outstanding Service Award – American Society of Mechanical Engineers – International Gas Turbine Institute – Montreal, Canada 2015
- BEST PAPER AWARD 2010 - IGTI (International Gas Turbine Institute) dell'ASME (American Society of Mechanical Engineers) for the following paper FANTOZZI F., P. LARANCI, G.BIDINI (2010). Biomass Pyrolysis Gas vs. natural gas in a microturbine annular combustor: CFD Simulation by means of Different Chemical Mechanism and Preliminary Experimental Verification. Proc. ASME Turbo Expo 2010 Power for Land, Sea, and Air. Glasgow, ISBN/ISSN: 9780791838723 - GT-2010-23473
- BEST PAPER AWARD 2009 - IGTI (International Gas Turbine Institute) dell'ASME (American Society of Mechanical Engineers) for the following paper: vS. COLANTONI, S. DELLA GATTA, R. DE PROSPERIS, A. RUSSO, FANTOZZI F., U. DESIDERI (2009). Gas turbines fired with biomass pyrolysis syngas: analysis of the overheating of hot gas path components. Proc. ASME Turbo Expo 2009 Power for Land, Sea, and Air. Glasgow, ISBN/ISSN: 9780791838723 - GT-2010-23473
- Ph.D. thesis received the "European Student Award" – "Powergen Europe" Helsinki, Finland (2000);
- M.Sc. thesis received the "Claudio Ratini Award" for best innovative thesis (1996);

01-02-2024

Francesco FANTOZZI  


## ANNEX I

### SELECTED LITERATURE

#### Books & chapters

1. Mouftahi M., Bartocci P., Tili N., Hidouri N., Liberti F., Fantozzi F. Pilot Scale Anaerobic Digestion of Food Waste Under Mesophilic Conditions: A Case-Study at Umbria Region (Italy) (2022) DOI: 10.1007/978-3-031-00808-5\_97 - **Springer Nature** - Book chapter
2. Buratti, C., Belloni, E., Fantozzi, F. Environmental Impact of Beef Production Systems (2022) *Green Energy and Technology*, pp. 59-91. DOI: 10.1007/978-3-030-76441-8\_4
3. Applications of Pellets Prepared from Biomass Resources. In: Fang Z., Smith, Jr R., Tian XF. (eds) *Production of Materials from Sustainable Biomass Resources. Biofuels and Biorefineries*, vol 9. Springer, Singapore, [https://doi.org/10.1007/978-981-13-3768-0\\_11](https://doi.org/10.1007/978-981-13-3768-0_11)
4. Bartocci P., Wang L., Skreiberg Ø., Liberti F., Bidini G., Fantozzi F. (2019) Biocarbon Production and Use as a Fuel. In: Fang Z., Smith, Jr R., Tian XF. (eds) *Production of Materials from Sustainable Biomass Resources. Biofuels and Biorefineries*, vol 9. Springer, Singapore, [https://doi.org/10.1007/978-981-13-3768-0\\_10](https://doi.org/10.1007/978-981-13-3768-0_10)
5. Scrucca F., Rotili A., Presciutti A., Fantozzi F., Bartocci P., Zampilli M. (2019) Energy Valorization of Bio-glycerol: Carbon Footprint of Co-pyrolysis Process of Crude Glycerol in a CHP Plant. In: Muthu S. (eds) *Carbon Footprints. Environmental Footprints and Eco-design of Products and Processes*. Springer, Singapore, [https://doi.org/10.1007/978-981-13-7912-3\\_2](https://doi.org/10.1007/978-981-13-7912-3_2)
6. F. Fantozzi, P. Bartocci (2017). CHAPTER 4 – Biomass Feedstock for IGCC systems – In: *Integrated Gasification Combined Cycle (IGCC) Technologies* – DOI 10.1016/B978-0-08-100167-7.00004-4, Woodhead Publishing, Elsevier Ltd
7. P. Bartocci, G. Bidini, F. Cotana and F. Fantozzi, (2016), CHAPTER 21 - Energy Balance of Cardoon (*Cynara cardunculus* L.) Cultivation and Pyrolysis in: *Perennial Biomass Crops for a Resource-Constrained World*, ISBN 978-3-319-44530-4, Springer
8. F. Fantozzi, P. Bartocci (2016). Carbon Footprint as a Tool to Limit Greenhouse Gas Emissions, In: *Greenhouse Gases*, Dr. Bernardo Llamas (Ed.), InTech, DOI: 10.5772/62281, ISBN 9789535122739
9. U. Desideri, F. Fantozzi (2014). CHAPTER 5 - Biomass combustion and chemical looping for carbon capture and storage" in *Sustainable Energy Developments* . In: *Sustainable Energy Developments series Volume 3, Technologies for Converting Biomass to useful Energy - Combustion, gasification, pyrolysis, torrefaction and fermentation*. series editor: Jochen Bundschuh, CRC press - Taylor and Francis group.
10. F. Fantozzi, Chiaramonti D (2008). Processi di conversione delle biomasse di tipo termochimico. In: AA.VV.. *Quaderni dell'Accademia dei Georgofili - Produzione di Energia da Fonti Rinnovabili-I Le tecnologie*. vol. 1, p. 71-126, FIRENZE: polistampa - ISBN 9788859604389, ISBN: 9788859604389 – In Italian
11. Buratti C., Fantozzi F. (2008). "Energie alternative - Energia da biomasse" . In: AA.VV.. *Il Nuovo Manuale Europeo di Bioarchitettura*. p. D32-D49, Roma:Gruppo Mancosu Editore ISBN 9788887017540, ISBN: 9788887017540 – In Italian
12. Fantozzi F. (2003). "Neural networks as a free model approach for waste and biomass pyrolysis products forecasting" . In: AA. VV.. *Pyrolysis and Gasification of Biomass and Waste*. p. 125-132, LONDON (UNITED KINGDOM):A V Bridgewater - ISBN 9781872691770, ISBN: 9781872691770

#### International Journals

13. Li R., Song G., Huang D., Hu S., Fantozzi F., Hassan A., Bartocci P., Ivanova P., Ren Q., Wang Y., Su S., Xu K., Xiang J. Comparative study of process simulation, energy and exergy analyses of solar enhanced char-cycling biomass pyrolysis process (2024) *Energy Conversion and Management*, 302, art. no. 118082 DOI: 10.1016/j.enconman.2024.118082
14. W Lu, P Bartocci, A Abad, A Bisch, H Yang, A Cabello, M. De Las Obras Loscertales, M. Zampilli, F. Fantozzi 2023, Dimensioning Air Reactor and Fuel Reactor of a Pressurized CLC Plant to Be Coupled to a Gas Turbine: Part 2, the Fuel Reactor. *Energies* 16 (9), 3850
15. E Gul, G Baldinelli, P Bartocci, T Shamim, P Domenighini, F Cotana, J. Wang, F. Fantozzi, F. Bianchi, 2023, Transition toward net zero emissions-Integration and optimization of renewable energy sources: Solar, hydro, and biomass with the local grid station in central Italy, *Renewable Energy* 207, 672-686
16. H Tan, M Yang, Y Chen, X Chen, F Fantozzi, P Bartocci, R Tschentscher, F. Barontini, H. Yang, H. Chen, 2023, Preparation of aromatic hydrocarbons from catalytic pyrolysis of digestate, *Chinese Journal of Chemical Engineering* 57, 1-9
17. S Xie, Q Yang, Q Wang, H Zhou, P Bartocci, F Fantozzi, 2023, Coal power decarbonization via biomass co-firing with carbon capture and storage: Tradeoff between exergy loss and GHG reduction, *Energy Conversion and Management* 288, 117155

18. Bartocci P., Abad A., Bischi A., Wang L., Cabello A., de Las Obras Loscertales M., Zampilli M., Yang H., Fantozzi F. Dimensioning Air Reactor and Fuel Reactor of a Pressurized Chemical Looping Combustor to Be Coupled to a Gas Turbine: Part 1, the Air Reactor (2023) *Energies*, 16 (5), art. no. 2102 DOI: 10.3390/en16052102
19. Cao B., Hu S., Zhu K., Pan C., Marrakchi F., Ni J., Yuan C., Qian L., Chen H., Yuan J., Abomohra A., Bartocci P., Fantozzi F., Wang S. Response surface optimization of product yields and biofuel quality during fast hydrothermal liquefaction of a highly CO<sub>2</sub>-tolerant microalgae (2023) *Science of the Total Environment*, DOI: 10.1016/j.scitotenv.2022.160541 Elsevier B.V.
20. Jiang D., Li H., Wang S., Cheng X., Bartocci P., Fantozzi F. "Insight the CO<sub>2</sub> adsorption onto biomass-pyrolysis derived char via experimental analysis coupled with DFT calculation (2023) *Fuel*, 332, art. no. 125948 DOI:10.1016/j.fuel.2022.125948
21. Lu W., Bartocci P., Abad A., Cabello A., de Las Obras Loscertales M., Mendiara T., Wang L., Chen Q., Chen Y., Wang X., Yang H., Chen H., Zampilli M., Fantozzi F. "Evaluation of the effect of pressure and heat transfer on the efficiency of a batch fuel reactor, using Iron-based Oxygen Carrier with a CFD model" (2023), 333, art. no. 126266 DOI: 10.1016/j.fuel.2022.126266
22. Chinae L., Slopiecka K., Bartocci P., Alissa Park A.-H., Wang S., Jiang D., Fantozzi F. "Methane enrichment of biogas using carbon capture materials" (2023) *Fuel*, 334, art. no. 126428 DOI: 10.1016/j.fuel.2022.126428
23. Al-Zainati N., Subbiah S., Yadav S., Altaee A., Bartocci P., Ibrar I., Zhou J., Samal A.K., Fantozzi F. Experimental and theoretical work on reverse osmosis - Dual stage pressure retarded osmosis hybrid system (2022) *Desalination*, 543, art. no. 116099 DOI: 10.1016/j.desal.2022.116099
24. Bartocci P., Abad A., Mattisson T., Cabello A., Loscertales M.D.L.O., Negredo T.M., Zampilli M., Taiana A., Serra A., Arauzo I., Cortes C., Wang L., Skreiberg Ø., Yang H., Yang Q., Lu, Chen Y., Fantozzi F. Bioenergy with Carbon Capture and Storage (BECCS) developed by coupling a Pressurised Chemical Looping combustor with a turbo expander: How to optimize plant efficiency (2022) *Renewable and Sustainable Energy Reviews*, 169, art. no. 112851 DOI: 10.1016/j.rser.2022.112851
25. Ibrar, I., Yadav, S., Braytee, A., Altaee, A., HosseinZadeh, A., Samal, A.K., Zhou, J.L., Khan, J.A., Bartocci, P., Fantozzi, F. "Evaluation of machine learning algorithms to predict internal concentration polarization in forward osmosis" (2022) *Journal of Membrane Science*, 646, art. no. 120257, DOI: 10.1016/j.memsci.2022.120257
26. Celli, I., Brunori, E., Eugeni, M., Cristinariu, C.A., Zampilli, M., Massoli, S., Bartocci, P., Caldarelli, V., Saetta, S., Bidini, G., Fantozzi, F. "Development of a tool to optimize economic and environmental feasibility of food waste chains" (2022) *Biomass Conversion and Biorefinery*, DOI: 10.1007/s13399-021-02107-3
27. Gul, E., Riva, L., Nielsen, H.K., Yang, H., Zhou, H., Yang, Q., Skreiberg, Ø., Wang, L., Barbanera, M., Zampilli, M., Bartocci, P., Fantozzi, F. Substitution of coke with pelletized biocarbon in the European and Chinese steel industries: An LCA analysis (2021) *Applied Energy*, 304, art. no. 117644, . DOI: 10.1016/j.apenergy.2021.117644
28. Q. Yang, H. Zhou, P. Bartocci, F. Fantozzi, O. Mašek, F. A. Agblevor, Z. Wei, H. Yang, H. Chen, X. Lu, G. Chen, C. Zheng, C. P. Nielsen, M. B. McElroy, 2021, "Prospective contributions of biomass pyrolysis to China's 2050 carbon reduction and renewable energy goals" *Nature Communications* 12, 1698 (2021). <https://doi.org/10.1038/s41467-021-21868-z>
29. Zhou, H., Yang, Q., Gul, E., Shi, M., Li, J., Yang, M., Yang, H., Chen, B., Zhao, H., Yan, Y., Erdoğan, G., Bartocci, P., Fantozzi, F. Decarbonizing university campuses through the production of biogas from food waste: An LCA analysis (2021) *Renewable Energy*, 176, pp. 565-578. DOI: 10.1016/j.renene.2021.05.007
30. Cai, N., Xia, S., Li, X., Sun, L., Bartocci, P., Fantozzi, F., Zhang, H., Chen, H., Williams, P.T., Yang, H. Influence of the ratio of Fe/Al<sub>2</sub>O<sub>3</sub> on waste polypropylene pyrolysis for high value-added products (2021) *Journal of Cleaner Production*, 315, art. no. 128240, DOI: 10.1016/j.jclepro.2021.128240
31. Gul, E., Al Bkoor Alrawashdeh, K., Masek, O., Skreiberg, Ø., Corona, A., Zampilli, M., Wang, L., Samaras, P., Yang, Q., Zhou, H., Bartocci, P., Fantozzi, F. Production and use of biochar from lignin and lignin-rich residues (such as digestate and olive stones) for wastewater treatment (2021) *Journal of Analytical and Applied Pyrolysis*, 158, art. no. 105263, DOI: 10.1016/j.jaap.2021.105263
32. Musacchio, A., Bartocci, P., Serra, A., Cencioni, L., Colantoni, S., Fantozzi, F. Decarbonizing materials sourcing and machining in the gas turbine sector, through a cost-carbon footprint nexus analysis (2021) *Journal of Cleaner Production*, 310, art. no. 127392, . DOI: 10.1016/j.jclepro.2021.127392
33. Xiao, J., Yang, M., Che, Q., Chen, Y., Chen, X., Yang, H., Bartocci, P., Fantozzi, F., Chen, H. Effect of potassium on catalytic characteristics of ZSM-5 zeolite in fast pyrolysis of biomass-based furan (2021) *Journal of Analytical and Applied Pyrolysis*, 157, art. no. 105230, DOI: 10.1016/j.jaap.2021.105230
34. Peng, Y., Yang, Q., Wang, L., Wang, S., Li, J., Zhang, X., Zhang, S., Zhao, H., Zhang, B., Wang, C., Bartocci, P., Fantozzi, F. VOC emissions of coal-fired power plants in China based on life cycle assessment method (2021) *Fuel*, 292, art. no. 120325, DOI: 10.1016/j.fuel.2021.120325
35. Riva, L., Wang, L., Ravenni, G., Bartocci, P., Buø, T.V., Skreiberg, Ø., Fantozzi, F., Nielsen, H.K. Considerations on factors affecting biochar densification behavior based on a multiparameter model (2021) *Energy*, 221, art. no. 119893, DOI: 10.1016/j.energy.2021.119893
36. Chen, Y., Ba, S., Yang, Q., Yuan, T., Zhao, H., Zhou, M., Bartocci, P., Fantozzi, F. Efficiency of China's carbon market: A case study of Hubei pilot market (2021) *Energy*, 222, art. no. 119946, . DOI: 10.1016/j.energy.2021.119946
37. Al Bkoor Alrawashdeh, K., Al-Samraie, L.A., Al-Bsoul, A., Abdullah, A., Lymoon, A., Gul, E., Zhou, H., Yang, Q., Bartocci, P., Fantozzi, F. Investigation of the influence of dimensions and material of the pipes on the water hammer

effect in microbial fuel cells wastewater treatment plants (2021) *Sustainable Energy Technologies and Assessments*, 44, art. no. 100990, . DOI: 10.1016/j.seta.2020.100990

38. Mouftahi M., Tlili N., Hidouri N., Bartocci P., Alrawashdeh K. A. B., Gul E., Liberti F., Fantozzi F. (2021). Biomethanation potential (BMP) study of mesophilic anaerobic co-digestion of abundant bio-wastes in southern regions of Tunisia. *PROCESSES*, vol. 9, p. 1-16, ISSN: 2227-9717, doi: 10.3390/pr9010048
39. Zhu Y., Chen M., Yang Q., Alshwaikh M. J. M., Zhou H., Li J., Liu Z., Zhao H., Zheng C., Bartocci P., Fantozzi F. (2021). Life cycle water consumption for oxyfuel combustion power generation with carbon capture and storage. *JOURNAL OF CLEANER PRODUCTION*, vol. 281, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2020.124419
40. Cai N., Li X., Xia S., Sun L., Hu J., Bartocci P., Fantozzi F., Williams P. T., Yang H., Chen H. (2021). Pyrolysis-catalysis of different waste plastics over Fe/Al<sub>2</sub>O<sub>3</sub> catalyst: High-value hydrogen, liquid fuels, carbon nanotubes and possible reaction mechanisms. *ENERGY CONVERSION AND MANAGEMENT*, vol. 229, ISSN: 0196-8904, doi: 10.1016/j.enconman.2020.11379
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