

PERSONAL INFORMATION Francesco Fatone



Sex

| Nationality

ANNEX ▪ Annex 1: Short CV

Annex 1

PERSONAL and CONTACT DETAILS

EDUCATION

- 2007 Ph.D., Industrial and Environmental Biotechnology, University of Verona
- 2004 Interuniversity Master of Engineering (Master universitario di II livello - post-lauream), Chemical Engineering for Environment, University of Verona, Padua, Venice, Udine and Trieste
- 2003 Degree (Ciclo Unico (BS+MS)) cum laude, Environmental Engineering, Polytechnic University of Marche, Ancona

ACADEMIC APPOINTMENTS

- July 2019 - Present: *Full Professor* of Chemical-Environmental Engineering, Polytechnic University of Marche
- November 2018 - Present: Coordinator of the PhD Program in Civil, Environmental and Building Engineering and Architecture, Polytechnic University of Marche
- March 2017: Italian National Scientific Habilitation *Full Professor* of Chemical Plants
- Dec. 2014- June 2019: *Associate Professor* of Chemical-Environmental Engineering, University of Verona (up to Oct 2016) and Polytechnic University of Marche (from Nov 2016)
- 2008-2014: *Assistant Professor* of Chemical Plants and Processes, University of Verona
- 2003-2007: Research fellow, University of Verona, University of Venice "Cà Foscari", Marche Polytechnic University

RESEARCH INTERESTS AND EXPERTISE

Focuses his R&D&I activities mainly on sustainable and innovative treatments of wastewater and organic waste in order to deliver circular economy in cities, basins and industries The main research interests can be summarized as follows:

- Resource recovery (e.g. biopolymers, nutrients, cellulose, volatile fatty acids) from sewage sludge
- Advanced processes for municipal and industrial wastewater treatment (membrane bioreactors)
- Biological nutrients, toxic and emerging contaminants removal processes for wastewater treatment

- Anaerobic co-digestion of sludge and solid organic waste
- Anaerobic fermentation of solid organic wastes for the production of valuable chemical compounds
- Biological and chemical/physical treatment of anaerobic digestate

MAIN INTERNATIONAL PUBLICATIONS

From 2005 authored and co-authored >120 SCOPUS-indexed papers , more than 10 chapters of international edited book and more than 150 presentations at international and national congresses all dealing with the treatments and valorization of wastes and wastewaters

(Hindex = 31; Total citations > 3100; Average Impact Factor > 5 (source SCOPUS - updated March 2022)).

SCIENTIFIC COORDINATION or LEADERSHIP in INTERNATIONAL R&D&I PROJECTS

Raised more than 6 million € European R&D&I funding within the following projects:

- EU-Horizon2020 "SMART-Plant" (www.smart-plant.eu) **Coordinator**
- EU-Horizon2020 "HYDROUSA" (www.hydrousa.org) **Principal Investigator - WP Leader**
- EU-Horizon2020 "INTCATCH" (www.intcatch.eu) **Principal Investigator - WP Leader**
- EU-Horizon2020 "DWC" (www.digital-water.city) **Principal Investigator - WP Leader**
- EU-Horizon2020 "ENERWATER" (www.enerwater.eu) **Principal Investigator - WP Leader**
- EU-Horizon2020 "ULTIMATE" (www.ultimatewater.eu) **Principal Investigator - Innovation Manager**
- EU-Horizon2020 "AquaSPICE" **Principal Investigator - Case Study Leader**
- EU-Horizon2020 "SEA2LAND" **Principal Investigator - Case Study Leader**
- EU-Horizon2020 (EU GREEN DEAL CALL) "PROMISCES" **Principal Investigator - Case Study Leader**
- EU-HorizonEurope "BIORECER" **Principal Investigator - Case Study Leader**
- EU-HorizonEurope "WATERUN" **Principal Investigator - WP Leader**
- EU-PRIMA "FIT4REUSE" **Principal Investigator - WP Leader**
- EU-PRIMA "SURENEXUS" **Principal Investigator - WP Leader**
- EU-LIFE+ "BLUE LAKES" **Principal Investigator - WP Leader**
- EU-LIFE+ "LIFE LIVEWASTE" (www.livewaste.org) **Principal Investigator - WP Leader**
- EU-FP7 "LEF-BIOWASTE" (www.lef-biowaste.org) **Coordinator**
- EU-Water JPI WaterWorks2014 "Pioneer_STP" **Principal Investigator - WP Leader**
- EU-Water JPI WaterWorks2017 "BLOOWATER" **Principal Investigator - WP Leader**
- EU-ENI-CBC-MED "DECOST" **Principal Investigator - WP Leader**
- BODOSSAKI FOUNDATION "INNO4WATER" (www.inno4water.com) **Coordinator**
- Participation (Team Member) in additional 15-20 national and International research projects funded by the European Commission (Horizon2020, FP7, FP6, Life+), Ministry of University and Research (PRIN), Ministry of Economic Development (Industria 2015), Veneto Region (ERDF), Fondazione Cariverona

PATENTS AND SPIN-OFF

- Co-authored n.2 national patents
- Co-founded the academic spin-off INNOVEN Srl (www.innoven.it).

EDITOR OF INTERNATIONAL SCIENTIFIC JOURNALS

- Editor-in-Chief the IWA H2Open Journal (IWA Publishing, United Kingdom)
- Guest Editor of Water Research (Elsevier) - Special Issue on "Resource Recovery" in 2019
- Editorial Board of Process Biochemistry (Elsevier)
- Editorial Board of Microbial Biotechnology (Wiley)
- Editor of Water Science and Technology (IWA Publishing)

- Editor of Water Science and Technology: Water Supply (IWA Publishing)
- Editorial Board of Sustainability (MDPI)
- Editorial Board of Water (MDPI)
- Editorial Board of The Scientific World Journal - Chemical Engineering subject area (Hindawi Publishing)
- Editorial Board of Waste and Biomass Valorisation (Springer)
- Editor of the Journal of Water Sustainability (Editors in chief: H.H.Ngo, XC Wang)
- Editor of the Proceedings of the IWA specialized conference SSS4WATER (Venice, 18-22 April 2011)
- Editor of the Proceedings of the IWA specialized conference ecoSTP2014 (Verona, 23-27 June 2014)

COORDINATION OF INTERNATIONAL CONFERENCES AND SPECIALIST GROUPS

- Chair of the 3rd IWA Resource Recovery from Water (Venice, 08-11/September/2019)
- Chair of the 3rd European Nutrient Event (Rimini, 08-09/November/2018)
- Chair of the 2nd IWA Specialized Conference on "EcoTechnologies for Sewage Treatment Plants" (ecoSTP2014) www.ecostp.org Co-chair of the Specialist Group on Small Water and Wastewater Systems (SWWS) - International Water Association (IWA)
- General Secretary of the IWA Resource Recovery from Water Cluster
- Leader of the Vision Leadership Team "Circular Water" in Water Europe
- Co-leader of the Cluster "Value in Water" in Water Europe
- Water JPI Management Board member - leader of task on alignment
- Member of the Body of Knowledge EIT Food Water Scarcity in Southern Europe
- Waste management expert for the application of the EU waste directives within the Italian Ministry of Environment
- Member of the Expert Group on "Circular Economy and Bioeconomy" within the Italian Ministry of Environment
- Member of the executive board of the technical-scientific committee of ECOMONDO
- Member of the coordination group of IWA Italia established within Utilitalia
- Member of the scientific committee of more than 30 international conferences, more than 20 invited as session chair, plenary or keynote speaker

REFeree

Acts as reviewer for the following journals (list not complete):

Environmental Science and Technology (ACS), Water Research (Elsevier), Journal of Hazardous Materials (Elsevier), Process Biochemistry (Elsevier), Asia-Pacific Journal of Chemical Engineering (Wiley Interscience), Chemical Engineering Journal (Elsevier), Journal of Membrane Science (Elsevier), Water Science and Technology (IWA Publishing), Desalination (Elsevier), Industrial Engineering and Chemistry Research (ACS), Bioresource Technology (Elsevier), Journal of Applied Electrochemistry (Springer), Desalination and Water Treatment (Desalination Publications), Environmental Technology (Taylor and Francis), Waste Management and Research (SAGE Journals), Chemosphere (Elsevier), The Science of the Total Environment (Elsevier), International Journal of Environmental Science and Technology (Springer), Water, Air, & Soil Pollution (Springer), Environmental Monitoring and Assessment (Springer), New Biotechnology (Elsevier), Waste Management (Elsevier), Journal of the Taiwan Institute of Chemical Engineers (Elsevier), Journal of Environmental Chemical Engineering (Elsevier), Frontiers of Environmental Science and Engineering (Taylor and Francis), Environmental Science and Pollution Research (Springer), Renewable Energy (Elsevier), International Biodeterioration and Biodegradation (Elsevier); Journal of Cleaner Production (Elsevier); Applied Microbiology and Biotechnology (Elsevier); FUEL (Elsevier); Food and Bioproducts Processing (Elsevier)