

PERSONAL INFORMATION PAOLO PAVAN

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Sex Male | Date of birth [REDACTED] Nationality Italian

[Select you current working level]

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- Nov 2015 - present
Full professor, ING-IND/25, chemical plants
University of Venice, Dept. of Environmental sciences, informatics and statistics
Main activities: wastewater treatment, nutrient removal, anaerobic digestion of complex substrates, biofuels, bioplastics, circular economy
Sector: chemical engineering
- Jan 2003 – dec 2015
Associated Professor, ING-IND/25, chemical plants
University of Venice, Dept. of Environmental sciences, informatics and statistics
Main activities: wastewater treatment, nutrient removal, anaerobic digestion of complex substrates
Sector: chemical engineering
- Jan 1997 – dec 2002
Researcher, ING-IND/25, chemical plants
University of Venice, Dept. of Environmental sciences
Main activities: wastewater treatment, nutrient removal, anaerobic digestion of complex substrates
Sector: chemical engineering
- Jan 1992 – dec 1996
Technical assistant
University of Venice, Dept. of Environmental sciences
Main activities: wastewater treatment, nutrient removal, anaerobic digestion of complex substrates
Sector: chemical engineering
- Jan 1989 - Dec 1991
Research Assistant
University of Venice, Dept. of Environmental sciences
Main activities: research on semi-dry digestion of complex substrates
Sector: chemical engineering

EDUCATION AND TRAINING

- Jan 1981-jun 1989
Degree in Industrial chemistry
University of Venice

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

UNDERSTANDING		SPOKEN		WRITTEN
Ascolto	Lettura	Interazione	Produzione orale	
B2	C1	B2	B2	B2

Job-related skills

- advanced research in the field of waste stream treatments (anaerobic digestion, composting, chemical-physical treatments)
- advanced research in the field of wastewater treatments, in particular biological removal of nutrients, treatments with membranes and integrated water / waste processes
- executive level design of plants and unitary operations in the field of organic waste purification and treatment
- research and design of systems for the abatement and recovery of nitrogen and phosphorus in civil and agro-industrial sectors
- applied research on biohydrogen and biomethane production from complex wastes
- applied research on bioplastics production from waste streams
- principal investigator of local units in V, VI, VII EU framework programs and H2020 projects
- teaching in magistral degree courses and first and second level masters at national and international level
- participation in international congresses on specific research topics, many by invitation
- production of papers and books at an international level (>150 peer review journals publications, >250 participations in international and national workshops and congresses, co-author of 4 industrial patents, actual H-index=45 (scopus base), 5786 citations
- referee of some of the major international magazines in the field of environmental engineering, waste water and solid waste

ADDITIONAL INFORMATION _____ actual H-index, scopus based: 45, n. of citations: 5810

Publications (last 5 years, only journals with I.F.)

EXPORT DATE: 18 Dec 2023

Tuci, G.A., Valentino, F., Parmar, A.C., Pavan, P., Gottardo, M.

Minimizing tannery sludge in landfilling through a mixed microbial culture approach: Effect of oxidizing pretreatment, temperature and hydraulic retention time on process performances and chromium fate

(2023) Biochemical Engineering Journal, 200, art. no. 109073, . Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170086064&doi=10.1016%2fj.bej.2023.109073&partnerID=40&md5=e44fc716db2d1a4b5a4e68dc49028886)[85170086064&doi=10.1016%2fj.bej.2023.109073&partnerID=40&md5=e44fc716db2d1a4b5a4e68dc49028886](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170086064&doi=10.1016%2fj.bej.2023.109073&partnerID=40&md5=e44fc716db2d1a4b5a4e68dc49028886)

DOI: 10.1016/j.bej.2023.109073

DOCUMENT TYPE: Article

SOURCE: Scopus

Gottardo, M., Tuci, G.A., Parmar, A.C., Pavan, P., Valentino, F.
A combined treatment of aerobic activated sludge and powdered activated carbon: Pilot-scale study of per/polyfluoroalkyls (PFASs), organic matters, chromium, and color removal from tannery wastewaters (2023) *Journal of Water Process Engineering*, 55, art. no. 104165, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85168597474&doi=10.1016%2fj.jwpe.2023.104165&partnerID=40&md5=a0f35e4f0c2966e9d8d70651672143b5>

DOI: 10.1016/j.jwpe.2023.104165
DOCUMENT TYPE: Article
SOURCE: Scopus

Gottardo, M., Zanatta, S., Modesti, M., Lorini, L., Pavan, P., Valentino, F.
Oxygen limitation in aerobic polyhydroxyalkanoates production from sewage sludge anaerobic fermentation liquids under low and medium organic loading rate (2023) *Chemosphere*, 338, art. no. 139468, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165038599&doi=10.1016%2fj.chemosphere.2023.139468&partnerID=40&md5=3d91ebb399c06346f0c9c5f9a705e7b0>

DOI: 10.1016/j.chemosphere.2023.139468
DOCUMENT TYPE: Article
SOURCE: Scopus

Gottardo, M., Dosta, J., Cavinato, C., Crognale, S., Tonanzi, B., Rossetti, S., Bolzonella, D., Pavan, P., Valentino, F.
Boosting butyrate and hydrogen production in acidogenic fermentation of food waste and sewage sludge mixture: a pilot scale demonstration (2023) *Journal of Cleaner Production*, 404, art. no. 136919, . Cited 3 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151057291&doi=10.1016%2fj.jclepro.2023.136919&partnerID=40&md5=90fd88c1ff8a2cd009887fcaa875d8a8>

DOI: 10.1016/j.jclepro.2023.136919
DOCUMENT TYPE: Article
SOURCE: Scopus

Gottardo, M., Tuci, G.A., Valentino, F., Pavan, P.
Exploiting Tannery Sludge as Renewable Resource for Biogas and Short-chain Fatty (SCFAs) Acids Production (2023) *Chemical Engineering Transactions*, 99, pp. 25-30.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163442512&doi=10.3303%2fCET2399005&partnerID=40&md5=19b7440e5f7656a75edb90bb5670f73c>

DOI: 10.3303/CET2399005
DOCUMENT TYPE: Article
SOURCE: Scopus

Tuci, G.A., Valentino, F., Bonato, E., Pavan, P., Gottardo, M.
Microwave-Hydrogen Peroxide Assisted Anaerobic Treatment as an Effective Method for Short-Chain Fatty Acids Production from Tannery Sludge (2022) *Processes*, 10 (11), art. no. 2167, . Cited 3 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141834028&doi=10.3390%2fpr10112167&partnerID=40&md5=7da8abfb4d5c66b97301d46b1fb09028>

DOI: 10.3390/pr10112167
DOCUMENT TYPE: Article
SOURCE: Scopus

Gottardo, M., Bolzonella, D., Adele Tuci, G., Valentino, F., Majone, M., Pavan, P., Battista, F.
Producing volatile fatty acids and polyhydroxyalkanoates from foods by-products and waste: A review (2022) *Bioresource Technology*, 361, art. no. 127716, . Cited 14 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85135417696&doi=10.1016%2fj.biortech.2022.127716&partnerID=40&md5=57f83eddb441dfdba4970b22325643ad>

DOI: 10.1016/j.biortech.2022.127716
DOCUMENT TYPE: Review
SOURCE: Scopus

Battista, F., Strazzer, G., Valentino, F., Gottardo, M., Villano, M., Matos, M., Silva, F., M. Reis, M.A., Mata-Alvarez, J., Astals, S., Dosta, J., Jones, R.J., Massanet-Nicolau, J., Guwy, A., Pavan, P., Bolzonella, D., Majone, M.

DOI: 10.1007/s13399-020-00788-w
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Hybrid Gold, Green
SOURCE: Scopus

Lauri, R., Tayou, L.N., Pavan, P., Majone, M., Pietrangeli, B., Valentino, F.
Acidogenic fermentation of urban organic waste: Effect of operating parameters on process performance and safety
(2021) Chemical Engineering Transactions, 86, pp. 55-60. Cited 1 time.

DOI: 10.3303/CET2186010
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Valentino, F., Lorini, L., Pavan, P., Majone, M.
Development of a biorefinery platform for urban waste valorisation into biogas and added-value products
(2021) Chemical Engineering Transactions, 86, pp. 13-18.

DOI: 10.3303/CET2186003
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Micolucci, F., Gottardo, M., Bolzonella, D., Pavan, P., Majone, M., Valentino, F.
Pilot-scale multi-purposes approach for volatile fatty acid production, hydrogen and methane from an automatic controlled anaerobic process
(2020) Journal of Cleaner Production, 277, art. no. 124297,

DOI: 10.1016/j.jclepro.2020.124297
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Valentino, F., Lorini, L., Gottardo, M., Pavan, P., Majone, M.
Effect of the temperature in a mixed culture pilot scale aerobic process for food waste and sewage sludge conversion into polyhydroxyalkanoates
(2020) Journal of Biotechnology, 323, pp. 54-61.

DOI: 10.1016/j.jbiotec.2020.07.022
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Bolzonella, D., Micolucci, F., Battista, F., Cavinato, C., Gottardo, M., Piovesan, S., Pavan, P.
Producing Biohythane from Urban Organic Wastes
(2020) Waste and Biomass Valorization, 11 (6), pp. 2367-2374

DOI: 10.1007/s12649-018-00569-7
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Moretto, G., Russo, I., Bolzonella, D., Pavan, P., Majone, M., Valentino, F.
An urban biorefinery for food waste and biological sludge conversion into polyhydroxyalkanoates and biogas
(2020) Water Research, 170, art. no. 115371

DOI: 10.1016/j.watres.2019.115371
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Green
SOURCE: Scopus

Battista, F., Frison, N., Pavan, P., Cavinato, C., Gottardo, M., Fatone, F., Eusebi, A.L., Majone, M., Zeppilli, M., Valentino, F., Fino, D., Tommasi, T., Bolzonella, D.

Food wastes and sewage sludge as feedstock for an urban biorefinery producing biofuels and added-value bioproducts (2020) *Journal of Chemical Technology and Biotechnology*, 95 (2), pp. 328-338.

DOI: 10.1002/jctb.6096
DOCUMENT TYPE: Review
PUBLICATION STAGE: Final
SOURCE: Scopus

Moretto, G., Lorini, L., Pavan, P., Crognale, S., Tonanzi, B., Rossetti, S., Majone, M., Valentino, F.
Biopolymers from urban organic waste: Influence of the solid retention time to cycle length ratio in the enrichment of a Mixed Microbial Culture (MMC)
(2020) *ACS Sustainable Chemistry and Engineering*, 8 (38)

DOI: 10.1021/acssuschemeng.0c04980
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Busato, C.J., Da Ros, C., Pellay, R., Barbierato, P., Pavan, P.
Anaerobic membrane reactor: Biomethane from chicken manure and high-quality effluent
(2020) *Renewable Energy*, 145, pp. 1647-1657.

DOI: 10.1016/j.renene.2019.07.088
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Green
SOURCE: Scopus

Valentino, F., Moretto, G., Lorini, L., Bolzonella, D., Pavan, P., Majone, M.
Pilot-Scale Polyhydroxyalkanoate Production from Combined Treatment of Organic Fraction of Municipal Solid Waste and Sewage Sludge
(2019) *Industrial and Engineering Chemistry Research*, 58 (27), pp. 12149-12158.

DOI: 10.1021/acs.iecr.9b01831
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Bronze, Green
SOURCE: Scopus

Moretto, G., Valentino, F., Pavan, P., Majone, M., Bolzonella, D.
Optimization of urban waste fermentation for volatile fatty acids production
(2019) *Waste Management*, 92, pp. 21-29.

DOI: 10.1016/j.wasman.2019.05.010
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Green
SOURCE: Scopus

Valentino, F., Moretto, G., Gottardo, M., Pavan, P., Bolzonella, D., Majone, M.
Novel routes for urban bio-waste management: A combined acidic fermentation and anaerobic digestion process for platform chemicals and biogas production
(2019) *Journal of Cleaner Production*, 220, pp. 368-375.

DOI: 10.1016/j.jclepro.2019.02.102
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Green
SOURCE: Scopus

Valentino, F., Lorini, L., Pavan, P., Bolzonella, D., Majone, M.
Organic fraction of municipal solid waste conversion into polyhydroxyalkanoates (PHA) in a pilot scale anaerobic/aerobic process
(2019) *Chemical Engineering Transactions*, 74, pp. 265-270.

DOI: 10.3303/CET1974045
DOCUMENT TYPE: Article

PUBLICATION STAGE: Final
SOURCE: Scopus

Valentino, F., Gottardo, M., Micolucci, F., Pavan, P., Bolzonella, D., Rossetti, S., Majone, M.
Organic Fraction of Municipal Solid Waste Recovery by Conversion into Added-Value Polyhydroxyalkanoates and Biogas
(2018) ACS Sustainable Chemistry and Engineering, 6 (12), pp. 16375-16385.

DOI: 10.1021/acssuschemeng.8b03454
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Bolzonella, D., Battista, F., Cavinato, C., Gottardo, M., Micolucci, F., Lyberatos, G., Pavan, P.
Recent developments in biohythane production from household food wastes: A review
(2018) Bioresource Technology, 257, pp. 311-319.

DOI: 10.1016/j.biortech.2018.02.092
DOCUMENT TYPE: Review
PUBLICATION STAGE: Final
SOURCE: Scopus

Leite, W.R.M., Belli Filho, P., Gottardo, M., Pavan, P., Bolzonella, D.
Monitoring and Control Improvement of Single and Two Stage Thermophilic Sludge Digestion Through Multivariate Analysis
(2018) Waste and Biomass Valorization, 9 (6), pp. 985-994.

DOI: 10.1007/s12649-016-9758-z
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Micolucci, F., Gottardo, M., Pavan, P., Cavinato, C., Bolzonella, D.
Pilot scale comparison of single and double-stage thermophilic anaerobic digestion of food waste
(2018) Journal of Cleaner Production, 171, pp. 1376-1385.

DOI: 10.1016/j.jclepro.2017.10.080
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus