



Curriculum Vitae

Personal information

First name(s) / Surname(s) **Maria Concetta Tomei**

Address(es) Institute: Water Research Institute C.N.R. Via Salaria km 29,300 C.P. 10 - 00015 Monterotondo Stazione (Roma) - Italy

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Nationality Italian

Date of birth 21/05/1958

Gender F

Research field **Environmental Engineering- Biological Processes- Environmental Biotechnologies**

Professional experience

Dates **From 2001 to present**

Occupation or position held **Senior Researcher**

Main activities and responsibilities Responsibility of the following research projects:
2007-2016 Application of Two Phase Partitioning Bioreactors for biodegradation of toxic and or/biorefractory compounds
2009-2016 Kinetics and modelling of anaerobic-aerobic sequential digestion applied to sewage sludge
2001-2007 Application of Sequencing Batch Reactors for biodegradation of toxic and/or bioresistant compounds

Name and address of employer Water Research Institute of the Italian National Research Council (CNR)

Type of business or sector Research

Dates **From 1984 to 2000**

Occupation or position held **Researcher**

Main activities and responsibilities Leadership of the following research projects:
1999-2000 Application of Sequencing Batch Reactors for biodegradation of toxic and or/bioresistent compounds
1996-2000 Development of innovative control strategies to increase the efficiency of wastewater treatment plants (WWTPs)
1993-1995 Modelling of wastewater treatment processes - Modelling and control of anaerobic processes
1991-1992 Modelling of wastewater treatment processes
1984-1990 Design and management criteria of WWTPs

Name and address of employer Water Research Institute of the Italian National Research Council (CNR)

Type of business or sector Research

Dates	From 2001 to 2008
Occupation or position held	Contract professor
Main activities and responsibilities	Professor of "Biological Processes in the Industry" at the Rome University "La Sapienza", Faculty of Sciences for the degree in Agro-Industrial Biotechnologies
Name and address of employer	Rome University "La Sapienza" Pl.e Aldo Moro, 5- 00185 Roma
Type of business or sector	Teaching

Projects

Dates	From 2014 at present
Occupation or position held	Scientific chair of the project "Optimized Nutrient recovery from Wastewater Treatment Sludge" Cariplo Call 2014 "Integrated research on Industrial Biotechnologies"
Main activities and responsibilities	Wastewater valorisation as source of energy and nutrients.
Dates	From 2014 at present
Occupation or position held	Scientific chair of the bilateral project between CNR and National Council for Scientific Research of Lebanon (CNRS-L) "Optimization of Anaerobic-Aerobic Sequential Process Applied to the Treatment of Sewage Sludge and Food Waste in Combination with Raw Wastewater"
Main activities and responsibilities	Development of processes and technologies for energy and nutrients recovery from sludge
Dates	From 2014 at present
Occupation or position held	Scientific chair of the project Galileo G14-147 "Biological processes and innovative technologies applied to urban and industrial wastewater treatment: modelling finalised to the optimal operation" in cooperation with Institut National de la Recherche Agronomique (INRA- France).
Main activities and responsibilities	Modelling and control of wastewater treatment plants
Dates	From 2013 at present
Occupation or position held	Scientific chair of the EU project FTB4 "Fostering partnerships for the implementation of best available technologies for water treatment & management in the Mediterranean region"
Main activities and responsibilities	Technology transfer in the field of wastewater treatment
Dates	From 2009 at present
Occupation or position held	Scientific chair of the working group "Intervention technologies to face emergency events in wastewater treatment plants" in cooperation with the Department of Civil Protection"
Main activities and responsibilities	Management strategies for emergency events in wastewater treatment plants
Dates	From 2012 at present
"Occupation or position held	Italian delegate in the Management Committee of the EU Project COST Water_2020 (ES1202) European Concerted Action Project on "Conceiving Wastewater Treatment in 2020 - Energetic, environmental and economic challenges
Main activities and responsibilities	Planning and coordination of the action activity
Dates	From 2012 at present
Occupation or position held	Scientific chair of the working group "Efficient Technologies" of the COST ES1202, "Conceiving Wastewater Treatment in 2020

Main activities and responsibilities	Organization and coordination of the scientific activity of the working group "Efficient Technologies" of the COST ES1202, "Conceiving Wastewater Treatment in 2020. Focus of the working group is the development of technologies characterized by high efficiency and reduced energy consumption
Dates	From 2005 to 2009
Occupation or position held	Italian delegate in the Management Committee of the EU Project COST 636 European Concerted Action Project on "Xenobiotics in the urban water cycle".
Main activities and responsibilities	Planning and coordination of the action activity
Dates	From 1998 to 2004
Occupation or position held	Italian delegate in the Management Committee of the EU Project COST 624, European Concerted Action Project on "Optimal Management of Wastewater Systems".
Main activities and responsibilities	Planning and coordination of the action activity
Dates	From 1998 to 2004
Occupation or position held	Scientific chair of the Working Group "Biological Processes" of the EU Project COST 624, European Concerted Action Project on "Optimal Management of Wastewater Systems"
Main activities and responsibilities	Responsibility of the working group activity
Dates	From 1995 to 1997
Occupation or position held	Italian delegate in the Management Committee of the EU Project COST 682, European Concerted Action Project on "Integrated Wastewater Management"
Main activities and responsibilities	Planning and coordination of the action activity
Dates	From 1993 to 1995
Occupation or position held	Scientific chair of the EU project "Integrated Process Control for the Removal of Carbon and Nitrogen in Biological Wastewater Treatment Processes"
Main activities and responsibilities	Planning and coordination of the project activity
Dates	From 1992 to 1997
Occupation or position held	Scientific chair of the EU project: "European Center for Mathematics and Technology of Urban Water Pollution: Integrated urban runoff, waste water treatment and receiving waters " in the network Human Capital and Mobility (CHRX- CT93- 0398)
Main activities and responsibilities	Planning and coordination of the scientific activity
Dates	From 1992 to 1995
Occupation or position held	Italian delegate in the Management Committee of the EU Project COST 682, European Concerted Action Project on "Optimizing the design and operation of biological wastewater treatment plants through the use of computer programmes based on dynamic modelling of the process".
Main activities and responsibilities	Planning and coordination of the action activity
Dates	From 1986 to 1989
Occupation and position held	Scientific chair of the EU project "Advanced Monitoring and Control of Biological Processes"
Main activities and responsibilities	Development of process models and control strategies for water treatment processes.

Education and training

Dates	1990
Title of qualification awarded	Specialization course: "Physical Modelling of Gas-Liquid Flow"
Principal subjects/occupational skills covered	Set up and application of models of gas-liquid flow
Name and type of organisation providing education and training	Pisa University and Institut National Polytechnique de Toulouse"
Dates	1987
Title of qualification awarded	First IAWPRC (International Association on Water Pollution Research and Control) Technology Transfer Seminar on "Mathematical Modelling of Biological Wastewater Treatment Processes"
Principal subjects/occupational skills covered	Set up and application of models of biological processes applied in wastewater treatment
Name and type of organisation providing education and training	Denmark Technical University -Copenhagen.
Dates	From 08 to 09 1986
Stage	Visiting researcher at RICE University, Houston (TX) for a four month stage working under the guidance of Prof. J.F. Andrews
Principal subjects/occupational skills covered	Modelling and control of wastewater treatment plants (WWTPs).
Name and type of organisation providing education and training	Rice University Houston TX USA
Dates	1986
Stage	Visiting researcher at Wastewater Technology Center – Burlington Ontario Canada
Principal subjects/occupational skills covered	Modelling and control of biological processes
Dates	1983 (Novembre)
Title of qualification awarded	Qualification to Engineer profession
Dates	From 1978 to 1983
Title of qualification awarded	Chemical Engineering Master Degree with honours
Principal subjects/occupational skills covered	Chemical processes applied to different areas: petrol-chemical industry, energy production, environmental de-pollution (water and soils)
Name and type of organisation providing education and training	Rome University "La Sapienza"

Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level (*)

English

French

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	C2	Proficient user	B1	Independent user	B1	Independent user	B1	Independent user

(*) [Common European Framework of Reference for Languages](#)

Scientific activity and competences

The scientific activity of Dr. M.C. Tomei at the Water Research Institute has been performed in the field of wastewater treatment taking into account both the theoretical and application aspects and it has been finalised to design, management and control of wastewater treatment plants.

Analysis of the state of the art in the field of WWTP design and operation, performed in the first period of activity, highlighted the relevance of modelling of biological processes both to deepen the process knowledge and as valid support tool in plant design and operation. Instead, in the application side the predominant needs were the development of innovative processes and technologies able to improve the removal efficiencies and at the same time characterized by advantageous balance in terms of energy and costs.

According to the above mentioned objectives, after a stage at RICE University, Houston (TX) working under the guidance of Prof. J.F. Andrews, the research activity of Dr. M.C. Tomei was focused on the development of innovative processes and technologies for urban and industrial wastewater treatment supported by a parallel activity on modelling. Recently the experience on biological processes was extended to the bioremediation of contaminated soil.

A summary of the competence areas is reported in the following:

- environmental biotechnologies
- innovative technologies for bioreactors
- urban and industrial wastewater treatment
- leachate treatment
- design management and upgrade of WWTPs operating with the conventional activated sludge process and biofilm processes
- formulation of mathematical models for chemical-physical and biological processes and development of the related software
- biodegradation processes of xenobiotic compounds
- application of Sequencing Batch Reactors to industrial wastewater treatment
- Two Phase Partitioning Bioreactors (TPPBSs) applied to the removal of xenobiotic compounds
- anaerobic process: modelling and application to wastewater treatment and sludge digestion
- sequential anaerobic-aerobic digestion applied to sewage sludge
- anaerobic process for bioenergy production
- Best Available Technologies (BATs) for industrial wastewater treatment
- modelling of pollutant diffusion in surface water bodies
- *ex-situ* technologies for bioremediation of contaminated soils.

Computer skills and control competences

- Programming in FORTRAN.
- Knowledge of the Windows operating system and software packages such as Office, Jandel Scientific (including the two packages SigmaStat for statistical analysis and SigmaPlot for graphics), Micromath Scientist (program for kinetic data analysis and parameter estimation). Knowledge of the main softwares available in Water and Wastewater Treatment (Aquasim, Efor, SassPro) and diffusion of pollutants (DHI MIKE package).

Development of the following models and related software packages

- ASCAM (Activated Sludge Computer Aided Modelling) for steady-state and dynamic analysis of activated sludge plants applied for carbon and nutrient removal
- CARBON to evaluate the equilibrium conditions of the chemical system carbonate-bicarbonate in aqueous solutions
- Anaerobic process: two and four populations models
- BIOF1: design and dynamic simulation of biofilm reactors
- Simultaneous denitrification process model
- Sequencing Batch Reactor (SBR) model
- Two-Phase Partitioning Bioreactor model

Development of control devices and biosensors

- Automatic control system for management and control of Sequencing Batch Reactors.
- RANTOX (Rapid ANaerobic TOXicity tester) biosensor to be employed as "early warning system" to detect organic and toxic overloads in bioreactors

Teaching and tutorial activity

University courses

- Professor of "Biological Processes in the Industry" at the Rome University "La Sapienza", Faculty of Sciences for the degree in Agro-Industrial Biotechnologies Rome University "La Sapienza" Pl.e Aldo Moro, 5- 00185 Roma. (6 academic years)
- Lectures on Wastewater treatment degree in Ecobiology Rome University "La Sapienza" Pl.e Aldo Moro, 5- 00185 Roma

Specialized IWA (International Water Association) courses on modelling and control of wastewater treatment plants in the period 1988-2007

Tutorial activity

- PhD (Chemical Engineering and Processes) and Master (Chemical Engineering and Biotechnologies students in cooperation with Rome University "La Sapienza");
- graduated students in cooperation with FUNDECYT PARQUE CIENTÍFICO Y TECNOLÓGICO DE EXTREMADURA and Cyprus University

Working groups, consulting activity for supporting Institutions

Working groups

- From 2015 component of the working group "**IWA (International Water Association) ITALIA**" for the established to promote IWA activities at national level.
- From 2012 of the **Foresight S&T International group** established at CNR to support the definition of strategic and innovative research lines.
- From 2010 to 2011 component of the working group on the **technological cooperation Italy-Israel** established at the Italian Ministry for environment.
- From 2008 to 2009 component of the **Coordination committee** of qualified experts for the evaluation of the authorization procedure of the industrial area of Taranto Statte established for technical support to the Italian Ministry for environment
- From 2003 to 2005 component of **the technical group** supporting the Italian Ministry of Environment in the setting up of the guidelines for the application in the Chemical Industry area of the COUNCIL DIRECTIVE 96/61/EC IPPC (Integrated Pollution Prevention and Control) (24/09/1996) (period 2003- 2008)

Patents and registered software

- ROZZI A., DI PINTO A.C., LIMONI N., PASSINO R. & TOMEI M.C. (1998) " BICARBO – Procedure to evaluate bicarbonate concentration in solutions containing also other weak base-acid couples, especially suitable for biotechnological processes and related device", Italian patent n.01289962 of 10-10- 1998..
- TOMEI, M.C., RAMADORI, R. (1999) Software ASCAM (Activated Sludge Computer Aided Modelling) for design and dynamic analysis of wastewater treatment plants operating carbon and nutrient removal. Registration number 001322 of 21-09-1999.

Editorial Activities

Component of the **editorial board** of:

- Journal of Environmental Chemical Engineering (Elsevier)
- BioMed Research International (Hindawi Publishing Corporation)

Scientific referee for the following international Journals

- ELSEVIER: Chemical Engineering Journal, Chemosphere, Desalination, Journal of Bioscience and Bioengineering, Journal of Biotechnology, Journal of Environmental Chemical Engineering, Journal of Environmental Management, Journal of Hazardous Materials, Process Biochemistry, Water Research.
- SPRINGER: Biodegradation, Environmental Science and Pollution Research
- ACS Publications: Environmental Science and Technology, Industrial and Engineering Chemistry Research
- Taylor & Francis: Environmental Technology, Chemical Engineering Communications
- WILEY: Journal of Chemical Technology and Biotechnology, Letters in Applied Microbiology.
- IWA Publishing: Water Science and Technology.

Project evaluation

Scientific **project evaluator** for:

- European Commission - Horizon 2020 expert ID number: EX2002B003225
- ERCEA European Research Council Executive Agency -ERC Starting Grant 2016
- F.R.S.-FNRS expert (Fonds de la Recherche Scientifique-FNRS, Belgium)
- NSERC - Natural Sciences and Engineering Research Council of Canada. (2014

Strategic Project Grants)

- COST ESSEM DC (Earth System and Environmental Management Domain Committee)
- FORMAS -The Swedish Research Council for Environment, Agricultural science and Spatial Planning – per la call “Diffuse sources- Identification, characterization and limitations” (2013)
- European Commission FP7 - VII Programma quadro “Programme for research projects for benefit of SMEs” (2011-2013)
- European Commission FP5- V Programma quadro - Key Action: Sustainable Management and Quality of Water (2000-2002)
- Evaluator of industrial research projects included in the official expert list of MIUR (Italian Ministry of Education, Universities, Research)

Invited speaker to international conferences

- “Energy recovery in wastewater treatment plants: an overview” - International Conference ECOIMPULS 2013 Environmental Research and Technology, November 7- 8 Timisoara – ROMANIA)
- “Re-use of automobile tires as the sequestering phase in a solid-liquid partitioning bioreactor for the biodegradation of inhibitory compounds” - Third International Conference on Recycling and Reuse of Materials (ICRM 2014), 11- 13 April, Kottayam, Kerala, India.

Organization of conferences and workshops

- “Modeling of anaerobic digestion of sludge” WBTR (Wastewater and Biosolids Treatment and Reuse): Bridging Modeling and Experimental Studies, June 8-14, Otranto, Italy.

Member of the scientific committee and scientific referee for the following international conferences:

- International Conference ‘Xenobiotics in the Urban Water Cycle – XENOWAC 2009’, Cyprus in March 11-13, 2009
- 4th Sequencing Batch Reactor Technology Conference, April 7-10, 2008, Rome, Italy
- 2nd IWA Specialised Conference on Eco-technologies for Wastewater Treatment, June 23-25, 2014, Verona, Italy
- 1st IWA (International Water Association) Conference on “Instrumentation, Control and Automation, 3-7 Giugno 2001, Malmo, Sweden.

Scientific referee for the following international conferences :

- 2nd IWA Specialised Conference on Ecotechnologies for Wastewater Treatment, June 23-25, Verona, Italy.
- International Conference ‘Xenobiotics in the Urban Water Cycle – XENOWAC 2009’, Cyprus in March 11-13, 2009
- 4th Sequencing Batch Reactor Technology Conference, April 7-10, 2008, Rome, Italy
- 1st IWA (International Water Association) Conference on “Instrumentation, Control and Automation”, 3-7 Giugno 2001, Malmo, Sweden.
- IWA (International Water Association) – 2nd World Water Congress, 15-19 October 2001- Berlin Germany
- IAWQ (International Association on Water Quality) 18th “Biennial International Conference, 23-28 giugno 1996, Singapore.
- IAWPRC (International Association on Water Pollution Research and Control) “Biennial International Conference, 17- 23 July 1988, Brighton, UK.

Organization of the following workshops:

- “Energy saving and recovery in wastewater treatment plants”, IRSA CNR, Roma, 29-30 November, 2012.
- “Innovative processes and valorisation of wastewater and sludge”, - Water Expo Venice,

Bibliometric indicators

21 - 23 October 2015.

Citations:1281 - from 2011: 725
H-index: 20 - from 2011: 15
i-10 index: 34 - from 2011: 23
(source Google Scholar)

Publications

M.C. Tomei authored more than 150 scientific publications reported in the following list.

List of publications

International peer reviewed journals (ISI)

Pubblicazione	Impact factor riferito all'anno di pubblicazione
1. ANNESINI M.C., GIRONI F., RUZZI M., TOMEI M.C. (1987): "Adsorption of organic compounds onto activated carbon", <i>Water Research</i> , 21 (5), 567-571.	1.161
2. DI PINTO A.C., PASSINO R., RAMADORI R., TOMEI M.C. (1990): "Modelling of two stage single sludge system for nitrogen removal", <i>Environmental Technology</i> , 11, 509-520.	0.394
3. BECCARI M., DI PINTO A.C., RAMADORI R., TOMEI M.C. (1992): "Effect of dissolved oxygen and diffusion resistances on nitrification kinetics", <i>Water Research</i> , 26, (8), 1099-1104.	1.594
4. TOMEI M.C., DI PINTO A.C., PASSINO R., RAMADORI R. (1993): "Biological phosphorus removal: a simplified design model", <i>Environmental Technology</i> , 14, 331-340.	0.593
5. TOMEI M.C., DI PINTO A.C., LIMONI N., ROZZI A. (1994): "Calibration of an automatic instrument for bicarbonate monitoring", <i>Environmental Technology</i> , 15, 363-372.	0.581
6. ROZZI A., DI PINTO A.C., LIMONI N., TOMEI M.C. (1994): "Start-up and operation of anaerobic reactors with bicarbonate control", <i>Bioresource Technology</i> , 48, 215-219.	0.785
7. TANDOI V., CARAVAGLIO N., DI DIO BALSAMO D., MAJONE M., TOMEI M.C. (1994): "Isolation and physiological characterization of <i>Thiothrix</i> sp.", <i>Water Science and Technology</i> , 29, (7), 261-264.	0.665
8. CARUCCI A., RAMADORI R., ROSSETTI S., TOMEI M.C. (1996): "Kinetics of denitrification reactions in single sludge systems", <i>Water Research</i> , 30, (1), 51-56.	1.674
9. MARANI D., DI PINTO A.C., RAMADORI R. & TOMEI M.C. (1997): "Phosphate removal from municipal wastewater with low lime dosage", <i>Environmental Technology</i> , 18, 225-230.	0.670
10. ROZZI A., TOMEI M.C., DI PINTO A.C., LIMONI N. (1997): "Monitoring toxicity in anaerobic digesters by the Rantox biosensor: theoretical background", <i>Biotechnology and Bioengineering</i> , 55, (1), 33-40.	1.979
11. DI IACONI C., RICCO G., TANZARELLA C., TOMEI M.C. (1998): "Chemical oxidation combined with biological oxidation in removal of biorefractory compounds", <i>Annali di Chimica - Journal of Analytical and Environmental Chemistry</i> , 88, 849-858.	0.576
12. ROZZI A., TOMEI M.C., DI PINTO A.C., LIMONI N. (1999): "Monitoring toxicity in anaerobic digesters by the Rantox biosensor: calibration tests", <i>Bioresource Technology</i> , 68, 155-163.	0.881
13. TOMEI M.C., LEVANTESI C., ROSSETTI S., TANDOI V. (1999): "Microbiological characterisation of pure cultures and its relevance to modelling and control of bulking phenomena", <i>Water Science and Technology</i> , 39, (1), 21-29.	0.895
14. POLLICE A., ROZZI A., TOMEI M.C., DI PINTO A.C., LIMONI N. (2000): "Monitoring the inhibitory effect of NaCl on anaerobic wastewater treatment processes by the RANTOX biosensor", <i>Environmental Technology</i> , 21, 535-544.	0.696
15. POLLICE A., ROZZI A., TOMEI M.C., DI PINTO A.C., LAERA G. (2001): "Inhibiting effects of chloroform on anaerobic microbial consortia as monitored by the RANTOX biosensor", <i>Water Research</i> , 35, (5), 1179-1190.	1.376

16. DI IACONI C., DI PINTO A.C., RICCO G., TOMEI M.C. (2002): "Treatment options for tannery wastewater II: integrated chemical and biological oxidation", <i>Annali di Chimica - Journal of Analytical and Environmental Chemistry</i> , 92, (5-6), 531-539.	0.585
17. ROSSETTI S. , TOMEI M.C., LEVANTESI C., RAMADORI R. & TANDOI V. (2002): " <i>Microthrix parvicella</i> : a new approach for kinetic and physiological characterization", <i>Water Science and Technology</i> , 46, (1,2), 65-72.	0.661
18. TOMEI M.C., ANNESINI M.C., LUBERTI R., CENTO G., SENIA A. (2003): "Kinetics of 4-Nitrophenol biodegradation in a sequencing batch reactor", <i>Water Research</i> , 37, 3803-3814.	1.812
19. TOMEI M.C., ANNESINI M.C., BUSSOLETTI S. (2004): "4-nitrophenol biodegradation in a sequencing batch reactor: Kinetic study and effect of filling time", <i>Water Research</i> , 38, 375-384.	2.304
20. RICCO G., TOMEI M.C., RAMADORI R. & LAERA G. (2004): "Toxicity assessment of common xenobiotic compounds on municipal activated sludge: comparison between respirometry and Microtox", <i>Water Research</i> , 38, 2103-2110.	2.304
21. MININNI G., BRAGUGLIA C. M., RAMADORI R., TOMEI M.C. (2004): "An innovative sludge management system based on separation of primary and secondary sludge treatment", <i>Water Science and Technology</i> , 50 (9), 145-153.	0.586
22. ROSSETTI S., TOMEI M.C., NIELSEN P., TANDOI V. (2005): " <i>Microthrix parvicella</i> ", a filamentous bacterium causing bulking and foaming in activated sludge systems: a review of current knowledge", <i>FEMS Microbiology Reviews</i> , 29, 49-64.	10.0
23. TOMEI M.C., ANNESINI M.C. (2005): "4-nitrophenol Biodegradation in a sequencing batch reactor operating with aerobic-anoxic cycles", <i>Environmental Science & Technology</i> , 39 (13), 5059-5065.	4.054
24. TOMEI M.C., ROSSETTI S. & ANNESINI M.C. (2006): "Microbial and kinetic characterization of pure and mixed cultures aerobically degrading 4-nitrophenol", <i>Chemosphere</i> , 63, 1801-1808.	2.442
25. BRAGUGLIA C. M., TOMEI M. C., MININNI G., ROLLE E. (2006): "Effect of feed/inoculum ratio on anaerobic digestion of sonicated sludge", <i>Water Science and Technology</i> , 54(5),77-84.	1.24
26. ROSSETTI S., TOMEI C., BLACKALL L., TANDOI V. (2007): "Bacterial growth kinetic estimation by fluorescence in situ hybridization and spectrofluorometric quantification", <i>Letters in Applied Microbiology</i> , 44, 1-6.	1.623
27. TOMEI M.C., ANNESINI M.C. (2008): "Biodegradation of Phenolic Mixtures in a Sequencing Batch Reactor. A kinetic study", <i>ESPR - Environmental Science and Pollution Research</i> , 15 (3) 186-193.	2.492
28. TOMEI M.C., BRAGUGLIA C.M., MININNI G. (2008): "Anaerobic Degradation Kinetics of Particulate Organic Matter in Untreated and Sonicated Sewage Sludge: Role of the Inoculum", <i>Bioresource Technology</i> , 99 (14) 6119-6126.	4.453
29. TOMEI M.C., ANNESINI M.C., RITA S., DAUGULIS A.J. (2008): "Biodegradation of 4-nitrophenol in a Two Phase Sequencing Batch Reactor: Concept Demonstration, Kinetics and Modelling", <i>Applied Microbiology and Biotechnology</i> , 80(6), 1105-1112.	2.569
30. TOMEI M.C., ANNESINI M.C. (2008): "Removal of Xenobiotics in a Two Phase Sequencing Batch Reactor: Kinetics and Modelling", <i>Water Science and Technology</i> , 58 (2), 385-390.	1.005

31. TOMEI M.C., ANNESINI M.C., PRPICH G.P., DAUGULIS A.J. (2009): "Biodegradation of 4-nitrophenol in a Two Phase System Operating with Polymers as the Partitioning Phase", <i>Environmental Science & Technology</i> , 43, 7105–7110.	4.63
32. TOMEI M.C., BRAGUGLIA C.M., CENTO G., MININNI G. (2009): "Modeling of Anaerobic Digestion of Sludge", <i>Critical Reviews in Environmental Science and Technology</i> , 39(12), 1003–1051.	7.091
33. TOMEI M.C., ANNESINI M.C., PIEMONTE V, PRPICH G.P., DAUGULIS A.J. (2010): "Two phase reactors applied to the removal of substituted phenols: comparison between liquid-liquid and liquid-solid systems", <i>Water Science and Technology</i> , 62(4), 776-782.	1.056
34. TOMEI M.C., ANNESINI M.C., SARA R., DAUGULIS A.J. (2010): "Two phase partitioning bioreactors operating with polymers applied to the removal of substituted phenols", <i>Environmental Science & Technology</i> , 44, 7254-7259.	4.825
35. TOMEI M.C., RITA S., MININNI G. (2011): "Performance of sequential anaerobic/aerobic digestion applied to municipal sewage sludge", <i>J. of Environmental Management</i> , 92, 1867-1873.	3.245
36. DAUGULIS A.J., TOMEI M.C., GUIEYSSE B. (2011): "Overcoming Substrate Inhibition During Biological Treatment of Mono-Aromatics: Recent Advances in Bioprocess Design". <i>Applied Microbiology Biotechnology</i> , 90, 1589-1608.	3.425
37. TOMEI M.C., RITA S., MININNI G. (2011): "Sequential anaerobic/aerobic digestion of waste activated sludge: analysis of the process performance and kinetic study", <i>New Biotechnology</i> , 29 (1), 17-22.	2.756
38. TOMEI M.C., RITA S., MOSCA ANGELUCCI D., ANNESINI M.C., DAUGULIS A.J. (2011): "Treatment of substituted phenol mixtures in single phase and two-phase solid-liquid partitioning bioreactors", <i>J of Hazardous Materials</i> , 191, 190-195.	4.173
39. TOMEI, M.C., ANNESINI, M.C., DAUGULIS, A.J, (2012): "2,4-Dichlorophenol Removal In A Solid-Liquid Two Phase Partitioning Bioreactor (TPPB): Kinetics Of Absorption, Desorption And Biodegradation", <i>New Biotechnology</i> , 30, 44-50.	1.706
40. TOMEI, M.C., ANNESINI, DAUGULIS, A.J., (2012): "Solid-Liquid Two-Phase Partitioning Bioreactors (TPPBs) Operated with Waste Polymers. Case Study: 2,4 Dichlorophenol Biodegradation with Used Automobile Tires as the Partitioning Phase", <i>Biotechnology Letters</i> , 34, 2037-2042.	1.853
41. TOMEI M.C, DAUGULIS A.J. (2013): " <i>Ex-situ</i> Bioremediation of Contaminated soils: An Overview of Conventional and Innovative Technologies", <i>Critical reviews in Environmental Science and Technology</i> , 43, 2107-2139.	3.383
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