

Giulia Luisa Eleonora Bozzano

Curriculum Vitae and Studiorum
Professor of Transport Phenomena

Personal Data

Address Politecnico di Milano - Dept.. DCMC - p.zza L. da Vinci, 32
– 20133 Milano
Email giulia.bozzano@polimi.it
Telephone +39 023993094
Research Group Website https://www.cmic.polimi.it/en/ricerca/elenco-gruppi-di-ricerca/super_team/
<http://super.chem.polimi.it>

Current Position

- **Politecnico di Milano – Italy** Associate Professor of Transport Phenomena
- **European Federation of Chemical Engineering** **June 2018 – today:** secretary of CAPE Working Party of the European Federation of Chemical Engineering (EFCE)

Professional Experiences

- | | |
|-------------------|---|
| 1991-1994 | • Ph.D. Student |
| 1991-1998 | • Independent contractor |
| 1998 | • Nominated “expert” for Transport Phenomena course |
| 1998-00 | • “post-doc” at Politecnico di Milano (the post-doc position started in Italy at that time, previously it was not foreseen such a position) |
| 2000 | • Researcher at Politecnico di Milano, Department of Chemistry, Materials and Chemical Engineering |
| 2005-today | • Associate professor of Transport phenomena at Politecnico di Milano |
| April 2017 | • Awarded with the national scientific qualification as Full Professor |

Education

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|---------------|---|
| M. Sc. | • 1991, M.Sc. Degree in Chemical Engineering, Politecnico di Milano |
| Ph.D. | • 1994, Ph.D in Chemical Engineering, Politecnico di Torino |

Scientific Commitments

• Ph.D. Committees

Hong Kong, 2018

- The Hong Kong University of Science and Technology, Modelling and Optimization of Microalgae Production, *candidate: Ergys Pahija*

Italy – 2019

- Università degli Studi di Milano - New adipic acid production process starting from hydrolyzed lignin and cellulose, experimental and modeling study – *candidate: Sofia Capelli*

Italy -2019

- Università degli Studi di Milano - Composite Photocatalytic Materials for Solar Energy Conversion and Environmental Applications – *candidate: Massimo Bernareggi*

France, 2020

- Institut National Polytechnique de Toulouse, Toulouse, Numerical and experimental study at the pilot scale of the hydrogen injection into liquid sodium by permeation through nickel membrane – *candidate: Pietro Brazzale*

• Invited Seminars

Germany, 2013

- Tu – Berlin, Invitation: prof. Matthias Kraume

Italy- 2004

- PhD National School in Chemical Engineering – Invitation: prof. A. Barresi

Italy - 2018

- Aidic – Course of Biomasses and Sustainability - Invitation: eng. Luigi Bressan

Awards and Recognitions

INPDAI

- 1989-1990 2 awards as the best student

Enichem S.p.A (now ENI)

- 1991 best M.Sc. student award

AVIR S.p.A.

- master thesis award

ICheap6

- 1993 award for best presented project

Elsevier Award

- Most downloaded paper of Computers & Chemical Engineering

Reviewer recognition

- Chemical Engineering Science
- Fuel
- Journal of Cleaner Production
- Journal of Catalysis
- Journal of CO2 utilization
- Journal of Environmental Chemical Engineering
- Journal of Industrial and Engineering Chemistry
- Journal of Molecular Liquids
- Thermochimica Acta
- Advances in Colloid and Interface Science
- Applied Thermal Engineering
- Bioresource Technology
- Chemical Engineering and Processing- Process Intensification
- Chemical Engineering Journal
- Journal of the Taiwan Institute of Chemical Engineers
- Industrial and Engineering Chemistry Research

Teaching

- **Politecnico di Milano**
 - 1991-2001**
 - M.Sc. Assistant professor for Transport Phenomena
 - 1995 and 1996**
 - M.Sc. Seminars, Chemical Plants
 - 2004-2007**
 - Scuola Interuniversitaria Lombarda di Specializzazione per l'Insegnamento Secondario – Sezione di Milano – SILSIS MI – Professor of a Specialisation course for high school professors – Physics and Technical Physics Elements
 - 2001- today**
 - B.Sc. Professor of Transport Phenomena
 - 2010**
 - B.Sc. Professor of Fluid Dynamics

Liabilities

Research Group

- Sustainable Process Engineering Research (SuPER)
https://www.cmic.polimi.it/en/ricerca/elenco-gruppi-di-ricerca/super_team/
<http://super.chem.polimi.it>

Staff

- 6 permanent staff

Facilities

- 7 labs (about 800 m², distillation, LV equilibrium, scrubbers, reactors, CO₂, eRAM lab)

Academic Supervision

- Ongoing: 1 PhD, 30 BSc
- Accomplished: 40+ MSc, 100+ BSc

Public Funding

Regional projects

(success rate 8-10%)

CITY WISE-NET, 2013-2015

- Integrated Urban Waste and Wastewater Treatment; Fond. CARIPLO & Reg. Lombardia, 4M€

BIOREFILL, 2013-2015

- Biorefinery Integrated Lombardy Labs, Fond. CARIPLO, 1.6M€

National Projects

(success rate 3-4%)

1997 – 2000

- Pyrolysis and combustion processes modeling (Task Leader)

1999 – 2001

- Kinetic and fluid-dynamic modeling of innovative combustion processes (Task Leader)

2001- 2003

- Detailed kinetic modeling of combustion processes (Task Leader)

2003-2005

- Detailed kinetics of poly-aromatic hydrocarbons, carbon nanoparticles and cenospheres. Experimental evaluation of the behaviour of “mild” combustion (Task Leader).

2004-2006

- Kinetic mechanisms of the thermal degradation of plastics and halogenated additives (Task Leader)

2010-2012

- Detailed kinetics of poly-aromatic hydrocarbons and nanoparticles formation in combustion processes. Particulate characterization with advanced molecular spectroscopy techniques and molecular dynamics (Task Leader)

2013-2016

- Innovative processes for algal biomasses conversion aimed at jet fuel and green diesel production (Task Leader)

Private Funding

Private Institutions

(success rate 2%)

- | | |
|-------------------|---|
| COWBOY, 2016-2018 | • Biogas to methanol, Fond. CARIPLO, 0.3 M€ |
| BioMAN, 2014-2016 | • Bio-remediation of the Chemical District of Mantova, Fond. CARIPLO, 0.5M€ |

Industrial

Collaborations

(most recent ones)

- | | |
|------|--|
| 2020 | • Altran S.p.A., Optimization of a farmaceutical production, 75000 € |
| 2017 | • PSE – Precision Spring Europe – Study of the corrosion of rings for automotive applications, 47500 € |
| 2011 | • ENI SpA, TAR sands, study and development of a new process for the heavy oil extraction, 0.4M€ |
| 2012 | • Icap Sira Chemicals & Polymers SpA, Emulsion and solvent polymerization modeling, 0.12M€ |
| 2011 | • ENI SpA, Visbreaking and thermal cracking modeling, 0.1M€ |

Guest Editor

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| 2020 | • Computers & Chemical Engineering, Elsevier |
| 2023 | • Fermentation Special Issue: "Biogas and Biochemical Production from Anaerobic Digestion" - ongoing |

The research activity has been devoted to the following arguments:

- Study of complex radical reaction mechanism in gas and liquid phase
- Detailed Modeling of Visbreaking and Delayed Coking processes
- Stability of petroleum residues and their derivatives toward asphalthenes precipitation
- Characterization of complex hydrocarbon mixtures in terms of components and properties
- Modeling of non-conventional equipment and reactors (vacuum spray dryer for soap drying, reactors for glass production, random and structured packing columns, liquid film evaporators, seawater desalting plants)
- Two-phase motion modeling in coils and equipment
- Dissolution and nucleation of pure oxygen inside a coil
- Velocity and stress distribution inside a water-starch mixture exiting from a nozzle
- Modeling of liquid-liquid extraction columns
- Modeling of urea reactor
- Drop Coalescence modeling
- Anaerobic Digestion reactors modeling and optimisation

Scientific Production

RE.PUBLIC
(Italy's official
website)

SCOPUS

- 125 publications (scientific journals, congresses, books contributions)
<https://re.public.polimi.it/cris/rp/rp02396?type=article>
- 86 manuscripts, 2383 citations, Hirsch Index 23 (at the date November 15th 2022)

Technology Transfer

Patents

- Process for the recovery of bitumen from an oil sand- WO2013/064940- CA 2851414, April 7, 2014, US 9,550,944 B2 January 24, 2017, Italian patent MI2011A 001977 October 31, 2011 – Applicant: ENI S.p.A. – Inventors: Maria Andrei, Mediglia (IT); Lucilla Del Gaudio, San Donato Milanese (IT); Giulia Luisa Eleonora Bozzano, Milan (IT); Andrea Sliepcevich, Milan (IT)
- A new structured packing by additive manufacturing

Academic Responsibilities

1994-1995

- Representative of Ph.D. students in the Chemistry, Materials, Chemical Engineering Department Advice of Politecnico di Milano

2001-2002

- Member of the external relations committee of the Chemistry, Materials, Chemical Engineering Department of Politecnico di Milano

2002

- Member of the administration advice of the Chemistry, Materials, Chemical Engineering Department of Politecnico di Milano

**2000 –
today**

- Member of the committee for Chemical and Safety Engineering within the School of Information and Engineering studies (in Italian: *Consiglio di Corso di Studi in Ingegneria Chimica e della Sicurezza - CCS*)

**2002 –
today**

- Member of the permanent consulting body for the Chemical Engineering area for the School of Industrial and Information Engineering studies (in Italian: *Commissione Permanente del Consiglio di Corsi di Studi in Ingegneria Chimica e della Sicurezza - CPCCS*)

**2008 –
today**

- Member of the council of the Philosophy Doctorate in Chemical Engineering at Politecnico di Milano

2020

- Member of a university commission promoting extra-curriculum initiatives to students

**2021 -
today**

- Responsible for BSc study plan approval and course changes

Committees

Scientific
committee

- iconbm2014 (www.aidic.it/iconbm)
- icheap10 (www.aidic.it/icheap10)
- icheap11 (www.aidic.it/icheap11)
- icheap12 (www.aidic.it/icheap12)
- iconbm2016 (www.aidic.it/iconbm2016)
- icheap13 (www.aidic.it/icheap13)
- icheap14 (www.aidic.it/icheap14)
- icheap15 (www.aidic.it/icheap15)
- ESCAPE31
(<https://www.escape31.org/committees/>)

Organising
Committee

- ESCAPE30 – Conference chairperson committee and member of the scientific committee
(www.aidic.it/escape30)
- ECCE13/ECAB 202 – Co-organizer of “CAPE Identity workshop” (Envisioning the future of Digitalisation)
(<https://ecce-ecab2021.eu/Satellite+Sessions.html>)

Affiliations

- Member of the Sustainable Process Engineering Research (SuPER) Team
(<http://super.chem.polimi.it>)
- Member of AIDIC (Italian Association of Chemical Engineering, <https://www.aidic.it>)

- Member of GRICU (group of Italian university researchers in Chemical Engineering, <https://www.gricu.it>)

Peer-reviewed articles published in journals

1. A. Furtado- Amaral, Previtali D., Bassani A., Italiano C., Palella A., Pino L., Vita A., Bozzano G., Pirola C., Manenti F., Biogas beyond CHP: The HPC (heat, power & chemicals) process, 2020, Energy, 203,1-13, 10.1016/j.energy.2020.117820
2. A. Bassani , Previtali D., Pirola C., Bozzano G., Colombo S., Manenti F., Mitigating carbon dioxide impact of industrial steam methane reformers by acid gas to syngas technology: Technical and environmental feasibility, 2020, JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS, 8, 71-87, 10.13044/j.sdewes.d7.0258
3. G. Bozzano, and Previtali D., Zanfini S., Colombo S., Manenti F., Pirola C., Analysis of a possible application of a new process for oxygen enriched air production, 2019, CHEMICAL ENGINEERING TRANSACTIONS, 74, 565-570, 10.3303/CET1974095
4. F. Galli, Previtali D., Bozzano G., Bianchi C. L., Manenti F., Pirola C., Production and application of O₂ enriched air produced by fresh and salt water desorption in chemical plants, 2018, JOURNAL OF ENVIRONMENTAL MANAGEMENT, 217, 621-628, 10.1016/j.jenvman.2018.03.13
5. A. Bassani, Previtali D., PIROLA C., Bozzano G., Nadezhdin I.S., Goryunov A.G., Manenti F., H₂S in geothermal power plants: from waste to additional resource for energy and environment, 2018, CHEMICAL ENGINEERING TRANSACTIONS, 70, 127-132, 10.3303/CET1870022
6. A. Vita, Italiano C., Previtali D., Fabiano C., Palella A., Freni F., Bozzano G., Pino L., Manenti F., Methanol synthesis from biogas: A thermodynamic analysis. 2018, RENEWABLE ENERGY, 118, 673-684, 10.1016/j.renene.2017.11.029
7. A. Bassani, Bozzano G., Pirola C., Frau C., Pettinau A., Maggio E., Ranzi E., Manenti F., Sulfur rich coal gasification and low impact methanol production, 2018, JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS, 6, 210-226, 10.13044/j.sdewes.d5.0188
8. S. Copelli, Dente M., Bozzano G., Barozzi M., Simplified modeling and main constitutive parameters estimation for industrial emulsion copolymerization processes, 2018, CHEMICAL ENGINEERING JOURNAL, 335, 988-1003, 10.1016/j.cej.2017.10.181
9. A.F. Amaral, Bozzano G., Pirola C., Goryunov A. G., Chistyakov A. V., Manenti F., Self-sustainable bio-methanol & bio-char coproduction from 2nd generation biomass gasification, 2017, CHEMICAL ENGINEERING TRANSACTIONS, 57, 1045-1050, 10.3303/CET1757175
10. F. Galli, Comazzi A., PREVITALI D., MANENTI F., BOZZANO G., Bianchi C. L., Pirola C., Production of oxygen-enriched air via desorption from water: Experimental

data, simulations and economic assessment, 2017, COMPUTERS & CHEMICAL ENGINEERING, 102, 11-16, 10.1016/j.compchemeng.2016.07.031

11. C. Pirola, Galimberti M., Comazzi A., Bozzano G., Hillestad M., Manenti F., Integrated reactor staging and plant optimization of a Biomass-To-Liquid technology, 2017, COMPUTERS & CHEMICAL ENGINEERING, 106, 719-729, 10.1016/j.compchemeng.2017.03.028
12. D. Papapsidero, Giorgi A., Rocchi E., Piazza L., Pierucci S., Bozzano G., Manenti F., Bread as a chemical reactor: Triggering the aroma production through chemical kinetics, 2016, CHEMICAL ENGINEERING TRANSACTIONS, 52, 985-990, 10.3303/CET1652165
13. G. Bozzano Giulia and Manenti F., Efficient methanol synthesis: Perspectives, technologies and optimization strategies, 2016, PROGRESS IN ENERGY AND COMBUSTION SCIENCE, 56, 71-105, 10.1016/j.pecs.2016.06.001
14. L. Cabianca, Bassani A., Amaral A.F., Rossi F., Bozzano G., Ranzi E., Telen D., Logist F., Van Impe J., Manenti F., GASDS: A kinetic-based package for biomass and coal gasification, 2016, CHEMICAL ENGINEERING TRANSACTIONS, 50, 247-252, 10.3303/CET1650042
15. A.F. Amaral, Santini A. S., Bozzano G., Pirola C., Manenti F., Revamping of the Mantova Chemical District as short-chain lignocellulosic biorefinery, 2016, CHEMICAL ENGINEERING TRANSACTIONS, 50, 43-48, 10.3303/CET1650008
16. F. Manenti, Adani F., Rossi F., Bozzano G., Pirola C., First-principles models and sensitivity analysis for the lignocellulosic biomass-to-methanol conversion process, 2016, COMPUTERS & CHEMICAL ENGINEERING, 84, 558-567, 10.1016/j.compchemeng.2015.05.012
17. A. Bassani, Pirola C., Maggio E., Pettinau A., Frau C., Bozzano G., Pierucci S., Ranzi E., Manenti F., Acid Gas to Syngas (AG2S™) technology applied to solid fuel gasification: Cutting H₂S and CO₂ emissions by improving syngas production, 2016, APPLIED ENERGY, 184, 1284-1291, 10.1016/j.apenergy.2016.06.040
18. F. Manenti, Papapsidero D., Bozzano G., Ranzi E., Model-based optimization of sulfur recovery units, COMPUTERS & CHEMICAL ENGINEERING, 2014, 66, 244-251, 10.1016/j.compchemeng.2014.01.019
19. G. Bozzano and Mario Dente, Dissolution of CO₂ and CH₄ Bubbles and Drops Rising from the Deep Ocean, 2014, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 53, 9272-9281, 10.1021/ie403290q
20. G. Bozzano, Dente, M., Manenti F., Corna P., Masserdotti F., Fluid Distribution in Packed Beds. Part 2. Experimental and Phenomenological Assessment of Distributor and Packing Interactions, 2014, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 53, 3165-3183, 10.1021/ie402140m
21. G. Bozzano, Dente, M., Manenti F., Corna P., Masserdotti F., Fluid Distribution in Packed Beds. Part 1. Literature and Technology Overview, 2014, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 53, 3157-3164, 10.1021/ie402137z

22. F. Manenti and G. Bozzano, Optimal Control of Methanol Synthesis Fixed-Bed Reactor, 2013, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 52, 13079-13091, 10.1021/ie401511e
23. F. Manenti F., Bozzano G., D'Isanto M., Lima N.M.N., Linan L.Z., Raising the Decision-Making Level to Improve the Enterprise-Wide Production Flexibility, 2013, AIChE JOURNAL , 59, 1588-1598, 10.1002/aic.13951
24. F. Manenti, Papasidero D., Frassoldati A., Bozzano G., Pierucci S., Ranzi E., Multi-scale modeling of Claus thermal furnace and waste heat boiler using detailed kinetics, 2013, COMPUTERS & CHEMICAL ENGINEERING, 59, 219-225, 10.1016/j.compchemeng.2013.05.028
25. G. Bozzano and M. Dente, Coalescence between adjacent drops relying on the interface of two liquids, 2013, Chemical Engineering Transactions, 11, 71-80, 10.3303/ACOS1311008
26. F. Manenti, Cieri S., Restelli M., Bozzano G., Dynamic modeling of the methanol synthesis fixed-bed reactor, 2013, COMPUTERS & CHEMICAL ENGINEERING, 48, 325-334, 10.1016/j.compchemeng.2012.09.013
27. G. Manenti, Papasidero D., Manenti F., Bozzano G., Pierucci S., Design of SRU Thermal Reactor and Waste Heat Boiler Considering Recombination Reactions, 2012, PROCEDIA ENGINEERING, 42, 376-383, 10.1016/j.proeng.2012.07.429
28. Z. Ravaghi-Ardebili, Manenti F., Nascimento Lima N.M., Linan L.Z, Cieri S., Restelli M., Bozzano G., Preserving Safety and Improving Yield Performances in Methanol Processes, 2012, Chemical Engineering Transactions, 26, 69-74, 10.3303/CET1226012
29. G. Bozzano and M. Dente M., Modelling the drop coalescence at the interface of two liquids, 2011, COMPUTERS & CHEMICAL ENGINEERING, 35, 901-906, 10.1016/j.compchemeng.2011.01.022
30. E. Barker Hemings, Bozzano G., Dente M., Ranzi E., Detailed kinetics of the pyrolysis and oxidation of anisole, 2011, Chemical Engineering Transaction, 24, 6-66, 10.3303/CET1124011
31. G. Bozzano and M. Dente, Estimation of the thermodynamic properties of several oxygenated compounds involved in biomasses pyrolysis, 2011, Chemical Engineering Transaction, 24, 1-6, 10.3303/CET1124001
32. G. Groppi, Tronconi E., Bozzano G., Dente M., Experimental and theoretical study of gas/solid mass transfer in metallic filters as supports for micro-structured catalysts, 2010, CHEMICAL ENGINEERING SCIENCE, 65, 392-397, 10.1016/j.ces.2009.06.038
33. M.Calonaci, Grana R., Barker Hemings E., Bozzano G., Dente M., Ranzi E., Comprehensive Kinetic Modeling Study of Bio-oil Formation from Fast Pyrolysis of Biomass, 2010, ENERGY & FUELS, 24, 5727-5734, 10.1021/ef1008902

34. Marongiu, Bozzano G., Dente M., Ranzi E., Faravelli T., Detailed kinetic modeling of pyrolysis of tetrabromobisphenol A, 2007, JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, 80, 325-345, 10.1016/j.jaap.2007.04.003
35. G. Bozzano, Dente M., Carlucci F., The effect of Naphthenic Components in the visbreaking modeling, 2005, COMPUTERS & CHEMICAL ENGINEERING, 29, 1439-1446, 10.1016/j.compchemeng.2005.02.033
36. Bozzano, Dente M., Sinatra M., Conti G., An advanced model of visbreaking process, 2005, ICP, 7, 255-260
37. M. Mehl, Marongiu A., Faravelli T., Bozzano G., Dente M., Ranzi E., A kinetic modeling study of the thermal degradation of halogenated polymers, 2004, JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, 72, 253-273, 10.1016/j.jaap.2004.07.007
38. M. Dente and G. Bozzano, Modeling of axial dispersion in rotating buckets contactor, 2004, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 43, 4761-4767, 10.1021/ie0307277
39. A. Marongiu, Faravelli T., Bozzano G., Dente M., Ranzi E., Thermal degradation of poly(vinyl chloride), 2003, JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, 70, 519-553, 10.1016/S0165-2370(03)00024-X
40. G. Bozzano, Dente M., Zardi F., New internals for urea production reactors, 2003, JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, 78, 128-133, 10.1002/jctb.694
41. G. Bozzano, Dente M., Faravelli T., Ranzi, E., Fouling phenomena in pyrolysis and combustion processes, 2002, APPLIED THERMAL ENGINEERING, 22, 919-927
42. T. Faravelli, Pincioli M., Pisano F., Bozzano G., Dente M., Ranzi E., Thermal degradation of polystyrene, 2001, JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, 60, 103-121, 10.1016/S0165-2370(00)00159-5
43. E. Ranzi, Dente M., Goldaniga A., Bozzano G., Faravelli T., Lumping Procedures in Detailed Kinetic Modeling of Gasification, Pyrolysis, Partial Oxidation and Combustion of Hydrocarbon Mixtures, 2001, PROGRESS IN ENERGY AND COMBUSTION SCIENCE, 27, 99-139, 10.1016/S0360-1285(00)00013-7
44. Bozzano and M. Dente, Shape and Terminal Velocity of Single Bubble Motion: a Novel Approach, 2001, COMPUTERS & CHEMICAL ENGINEERING, 25, 571-576, 10.1016/S0098-1354(01)00636-6
45. T. Faravelli, Bozzano G., Scassa C., Perego M., Fabini S., Ranzi E., Dente M., Gas product distribution from polyethylene pyrolysis, 1999, JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, 52, 87-103, 10.1016/S0165-2370(99)00032-7
46. E. Ranzi, Dente M., Faravelli T., Bozzano G., Fabini S., Nava R., Cozzani V., Tognotti L., Kinetic modeling of polyethylene and polypropylene thermal degradation, 1997,

JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS , 40-41, 305-309,
10.1016/S0165-2370(97)00032-6

47. G. Bozzano, Dente M., Bussani G., Mechanistic Models for Liquid Phase Pyrolysis of Complex Hydrocarbon Mixtures: The Delayed Coking Process Simulation, 1997, ICP, 2, 35-42
48. M. Dente, Bozzano G., Bussani G., A comprehensive program for visbreaking simulation: products amount and their properties prediction, 1997, COMPUTERS & CHEMICAL ENGINEERING, 21, 1125-1134, 10.1016/S0098-1354(96)00323-7
49. M. Dente, Bozzano G., Bussani G., The visbreaking process simulation: products amount and their properties prediction, 1995, COMPUTERS & CHEMICAL ENGINEERING, 19, S205-S210, 10.1016/0098-1354(95)87037-7
50. M. Dente, Rovaglio M., Bozzano G., Sogaro A. , Gas-liquid reactor in the synthesis of Urea, 1992, CHEMICAL ENGINEERING SCIENCE, 47, 2475-2480, 10.1016/0009-2509(92)87079-6

Peer-reviewed articles published in books

1. M. Raymo, Rulli M.C., Piazza L., Manenti F., Bozzano G., A New Method for Food Production Analysis and Optimization Applied to Citrus Industry, 2020, Computed Aided Chemical Engineering, book title: 30th European Symposium on Computer Aided Process Elsevier, 48, 2005-2010, 10.1016/B978-0-12-823377-1.50335-9
2. Pirola, Bozzano G., Manenti F., Fossil or Renewable Sources for Methanol Production?, in Methanol: Science and Engineering, 2018, Elsevier, 53-93, 10.1016/B978-0-444-63903-5.00003-0
3. A. Furtado Amaral, Bozzano G., Pirola C., Manenti F., Biomass to X: Gasification and Pyrolysis Integrated, 2017, Computer Aided Chemical Engineering , book title: 27th European Symposium on Computer Aided Process Engineering, Elsevier, 40, 1837-1842, 10.1016/B978-0-444-63965-3.50308-1
4. A. Bassani, Pirola C., Bozzano G., Ranzi E., Manenti F., Technical Feasibility of AG2S (TM) Process Revamping, 2017, Computer Aided Chemical Engineering , book title: 27th European Symposium on Computer Aided Process Engineering, 40, 385-390, 10.1016/B978-0-444-63965-3.50066-0
5. G. Bozzano G., Pirola C., Italiano C., Pelosato R., Vita A., Manenti F., Biogas: a Possible New Pathway to Methanol?, Computer Aided Chemical Engineering, book title: 27th European Symposium on Computer Aided Process Engineering, Elsevier, 523-528, 10.1016/B978-0-444-63965-3.50089-1
6. F. Rossi, Manenti F., Mujtaba I.M., Bozzano G., A Novel Real-Time Methodology for the Simultaneous Dynamic Optimization and Optimal Control of Batch Processes , 2014, Computer-Aided Chemical Engineering, book title: 24th European Symposium

on Computer Aided Process Engineering, Elsevier, 745-750, 10.1016/B978-0-444-63456-6.50125-3

7. F. Manenti, Papasidero D., Bozzano G., Pierucci S., Ranzi E., Buzzi-Ferraris G., Total plant integrated optimization of sulfur recovery and steam generation for Claus processes using detailed kinetic schemes, 2013, Computer Aided Chemical Engineering, book title: 23th European Symposium on Computer Aided Process Engineering, Elsevier, 32, 811-816, 10.1016/B978-0-444-63234-0.50136-6
8. F. Manenti, Cieri S., Restelli M., Lima N.M.N., Linan L.Z., Bozzano G., Online Feasibility and Effectiveness of a Spatio-temporal Nonlinear Model Predictive Control. The Case of Methanol Synthesis Reactor, 2012, Computer Aided Chemical Engineering, book title: 22th European Symposium on Computer Aided Process Engineering, Elsevier, 30, 867-871, 10.1016/B978-0-444-59520-1.50032-4
9. G. Bozzano, Dente M., Del Rosso R., Poly(bisphenol A carbonate) Recycling: High Pressure Hydrolysis Can Be a Convenient Way, 2012, InTech, book title: Material Recycling - Trends and Perspective, 115-132, Edited by Dr. Dimitris Achilias
10. G. Bozzano G., Dente M., Pierucci S., Maccagni M., Modeling and Simulation of the Production of Lead and Elementary Sulphur from Lead Sulphide Concentrates, 2011, Computer Aided Chemical Engineering, book title: 21th European Symposium on Computer Aided Process Engineering, Elsevier, 29, 1733-1737, 10.1016/B978-0-444-54298-4.50125-2
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Prof. Flavio Manenti
Politecnico di Milano
Flavio.manenti@polimi.it

Eng. Paola Corna
SIAD Macchine Impianti S.p.A.
Paola_Corna@siad.eu
Paolamaria.corna@gmail.com