

PERSONAL INFORMATION Ilenia Rossetti

CURRENT POSITION Full Professor of Chemical Plants (SSD Ing-Ind/25)

WORK EXPERIENCE

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- 01/12/2021-present **Full Professor of Chemical Plants (SSD Ing-Ind/25)**
Università degli Studi di Milano - Dip. Chimica
- Teaching**
- Chemical Plants/Lab (6 CFU, BS Industrial Chemistry)
 - Industrial Physical Chemistry (6 CFU, BS Industrial Chemistry) until 2022
 - Energy Sources, Management and Conversion (2 CFU, MS Industrial Chemistry)
 - Design and Optimisation of Chemical Plants (6 CFU, MS Industrial Chemistry)
- Organising/management issues**
- Scientific and Evaluation Committee of the Chemistry Department
 - Dept. Committee for the realisation of the new Campus MIND
 - Committee for the re-examination of teaching courses
 - Steering committee of the Doctoral programme in Industrial Chemistry
- Research activity**
- Design, simulation and optimisation of Chemical Plants
 - Development of catalytic processes
 - Development of photocatalytic processes
 - Economic assessment of chemical processes
- 01/09/2021-present **Director of the Analytical Laboratory of the Department of Chemistry**
- 01/06/2019-present **Teaching contracts**
Fondazione I.T.S. per le Nuove Tecnologie della Vita
Course “Transport Phenomena” (40 h) 2019-2022
Course “Chemical Plants” (72-56 h) since 2020
- 01/02/2015-30/11/2021 **Associate Professor of Chemical Plants (SSD Ing-Ind/25)**
Università degli Studi di Milano - Dip. Chimica
- Teaching**
- Chemical Plants/Lab (6 CFU, BS Industrial Chemistry)
 - Industrial Physical Chemistry (6 CFU, BS Industrial Chemistry)
 - Energy Sources, Management and Conversion (2 CFU, MS Industrial Chemistry)
 - Design and Optimisation of Chemical Plants (6 CFU, MS Industrial Chemistry)
- Organising/management issues**
- Scientific and Evaluation Committee of the Chemistry Department
 - Dept. Committee for the realisation of the new Campus MIND
 - Committee for the re-examination of teaching courses
 - Steering committee of the Doctoral programme in Industrial Chemistry
- Research activity**
- Design, simulation and optimisation of Chemical Plants
 - Development of catalytic processes
 - Development of photocatalytic processes
 - Economic assessment of chemical processes
- 01/11/2002-31/01/2015 **Senior researcher**
Università degli Studi di Milano - Dip. Chimica

Teaching

- Industrial Physical Chemistry
- Physical Chemistry of Catalysis/Lab
- Elements of Chemical Plants
- Elements of Physical Chemistry (Biology)
- Physical Chemistry of Materials
- Catalytic Processes
- Laboratory of Chemical Plants

Organising/management issues

- Committee for the diffusion of chemistry and the guidance of students
- Commission for didactics
- Tutoring commission
- Steering committee of the Doctoral programme in Industrial Chemistry
- Board of the School of Doctorate in Chemical Science and Technology

Research activity

- Design, simulation and optimisation of Chemical Plants
- Development of catalytic processes
- Development of photocatalytic processes
- Economic assessment of chemical processes

01/01/2002-31/10/2002

Research grant

Università degli Studi di Milano - Dip. Chimica Fisica ed Elettrochimica

Research activity

- Synthesis and characterisation of nanostructured zeolites

2002-present

Consultant for private companies and for evaluation committees

Università degli Studi di Milano - Dip. Chimica

- Research contracts stipulated between the University and private companies
- Member of the working group at Fincantieri for the development of fuel cells based marine propulsion systems since 2021.
- Member of the evaluation committees for various International Agencies

2012-present

Editor / Guest Editor for international journals

Università degli Studi di Milano - Dip. Chimica

- Member of the International Advisory Board of "ChemCatChem" (IF = 4.853) since 2021.
- Member of the Editorial Board of "Catalysts" (IF = 3.444) since 2020, section Editor "Photocatalysis" and since 2021 section editor "Catalytic Reaction Engineering".
- Member of the Editorial Board of the Scopus-indexed "ChemEngineering" since 2016, "Recent Innovations in Chemical Engineering" and "Open Chemical Engineering Journal" since 2017, of "Discover Chemical Engineering" (Springer Nature) since 2022
- Specialty section "Industrial Catalysis" of Frontiers in Catalysis since 2023.
- Guest Editor of various Special Issues for Scopus-indexed journals such as Catalysts, Energies and Topics in Catalysis (see list of publications).

EDUCATION AND TRAINING

21/12/2016

Master degree in Chemical Engineering - Project Engineer

Politecnico di Milano (Italy)

Mark 110/110

18/12/2001

PhD in Industrial Chemistry

Università degli Studi di Milano (Italy)

28/10/1998

Master Degree in Industrial Chemistry

Università degli Studi di Milano (Italy)

Mark 110/110 *cum Laude*

MAIN INFORMATION

Awards

- Awarded with the Chiusoli Medal in 2016, by the Division of Industrial Chemistry and the Interdivisional Group of Catalysis of the Italian Chemical Society. The prize is attributed to an Italian scientist (max. 45 years old), operating either in academia or industry, bringing contribution of high scientific level in the field of catalysis. The motivation is the following: “For her multidisciplinary approach, aiming at the development of highly innovative processes, particularly in the field of hydrogen production and use”.
- The PhD thesis of which she was tutor “Catalytic and photocatalytic processes for the production of alternative fuels and chemicals from renewable sources”, Matteo Compagnoni, a.y. 2017, was awarded with the Parmaliana prize in 2018 as the best PhD thesis by the Interdivisional Group of Catalysis of the Italian Chemical Society.
- The PhD thesis of which she was co-tutor “Metal Oxides: preparation by an Innovative Flame method and Catalytic Applications” (G.L. Chiarello) was awarded with the 2008 ENI Award as best PhD thesis.
- The Master thesis in Industrial Chemistry “Development of photocatalytic processes for the abatement of ammonia and nitrates from waste waters”, Veronica Pellegatta, tutor I. Rossetti, received the prestigious prize for the best thesis in memory of S. Treichler from Federchimica (16-12-2019).
- The Master thesis in Industrial Chemistry “Design of a stable heat and power distributed cogeneration unit, fed with bioethanol and suitable for residential use”, Antonio Pizzonia, tutor I. Rossetti, received the prestigious prize for the best thesis for the 100 years of Federchimica (21-12-2017).
- The contribution “CO₂ Photoreduction at High Pressure to both Gas and Liquid Products over Titanium Dioxide”, D. Vitali et al. was selected as best poster during XIX Congresso Nazionale di Catalisi, Bressanone, 2016.

Projects awarded

- National coordinator of the project “SCORE2 - Solar-driven CONveRsiOn of CO₂ with HP-HT photoreactor”, call PRIN2022 PNRR, MIUR, 2024-25, (234000 Euro)
- Coordinator of local research units in the frame of the PNRR Agritech National Center (Spoke 8: Waste valorization), years 2022-2025, funded by MIUR (ca. 300000 Euro)
- National coordinator of the project “2021-0855 - SCORE - Solar Energy for Circular CO₂ Photoconversion and Chemicals Regeneration”, call Economia Circolare: Ricerca per un Futuro Sostenibile, Ed. 2021, years 2022-24, funded by Fondazione Cariplo (300000 euro).
- Department responsible of the project “One Health Action Hub: Task force di ateneo per la resilienza di ecosistemi territoriali”, funded in the frame of the Great challenges initiative of University of Milan in 2021 (11000 Euro for 2022, renovated for 2023-24 with the same yearly grant).
- Coordinator of the project “REWIND: Design of circular industrial processes for the valorisation of wastes as sustainable raw materials. /Design di processi industriali circolari per la valorizzazione di rifiuti come materie sostenibili”, funded by MIUR through the Programma Operativo Nazionale (PON) “Ricerca e Innovazione” 2014/2020, Azione IV.4 - “Dottorati e contratti di ricerca su tematiche dell’innovazione” and IV.6 “Contratti di ricerca su tematiche Green” with a RTDA position for 3 years (2022-24).
- Italian coordinator of the project awarded through the program of the Royal Society (UK) International Exchanges 2019 Round 2 (IES\R2\192278) “Solar-driven valorisation of CO₂ to chemicals and fuels”. Dec. 2019-Nov. 2021. Partners: Imperial College London (UK), Cardiff University (UK). (£12000)
- Italian recipient of the Mitacs Globalink Research Award, Canada, supporting the internship of Chenxu Shi (Calgary University) for 3 months stay (6000 CAN\$)
- Transition Grant - PSR2015-17 - Horizon2020 partnership, 2019-20 (15000 euro).
- National coordinator of the project “DeN - Innovative technologies for the abatement of N-containing pollutants in water”, 2016-18 funded by Fondazione Cariplo (240000 euro).
- Coordinator of the project “UP - Unconventional Photoreactors”, 2016-17 funded by Fondazione Cariplo and Regione Lombardia (55000 euro). This is a reinforcement measure due to the high scoring of my ERC-Consolidator Grant 2015 proposal.
- National coordinator of the project “M4H2 - Innovative Materials for H₂ production from renewable sources”, co-funded by Regione Lombardia and consorzio INSTM (75000 Euro).
- Coordinator of a project for the development of a photoreactor for the reduction of CO₂ (Piano di

sviluppo di Ateneo, linea B1, ca. 6200 Euro).

- Coordinator of a Department demonstrative project for CHP based on bioethanol and fuel cells (5 + 5 kW) sponsored by Linea Energia SpA, Provincia di Lodi and Parco Tecnologico Padano (214000 Euro, 2008-2012)
- Member of a PNRR project “TERRA FUOCO E ACQUA - Innovazioni tecnologiche e decarbonizzazione per la nuova fabbrica a idrogeno: la ceramica sostenibile dove il fuoco genera l’acqua”, sponsored by MISE, 2022-2025, team leader of the CFD modelling activity.
- Member of the UniGE unit for PRIN2015, 2017-2020 “Heterogeneous robust catalysts to upgrade low value biomass streams”, National coordinator Prof. A. Vaccari, Università di Bologna.
- Member of various PRIN-COFIN units coordinated by prof. L. Forni (ante 2008).
- Member of a CNR-Regione Lombardia project for the development of H₂ storage materials (coordinators Dr. V. Dal Santo and A. Tuissi).
- Responsible of various research contracts for national and international companies.

Patents

- “Apparato per la disinfestazione di oggetti.”, Rossetti Ilenia, Adami Ivano, Scari Giorgio, Italian request for patent for Industrial Invention, deposited 15/03/2018, released 30/03/2020, No. 102018000003609, to Rossetti Ilenia, Adami Ivano, Scari Giorgio

Memberships

- Associated to CNR-ISTM since 2009, now CNR-SCITEC.
- Associated to the Interuniversity Consortium INSTM
- Elected President of the board of the Interdivisional Group on Renewable Energies of Società Chimica Italiana (SCI) (2022-24)
- Elected in the board of the Interdivisional Group on Renewable Energies of Società Chimica Italiana (SCI) (2016-18 and 2019-21)
- Elected in the board of the Industrial Chemistry Division of SCI (2010-2012 and 2013-2015).
- Elected in the board of the Young Chemists Group of SCI as representative of the Industrial Chemistry Division (2007-2009).

International research agreements

- Responsible of a research agreement with the McDonalds Institute - Cambridge University (UK), 2015, Prof. S. Stoddard, renewed for 2016-18.

Visiting professorships

- Responsible of a research agreement with the Dep. of Chemical and Petroleum Engineering, Schulich School of Engineering, University of Calgary (Prof. N. Mahinpey) (2018-20).
- Responsible of an international mobility programme sponsored by the Royal Society (UK) with the Dept. of Chemical Engineering at Imperial College of London (UK), Dr. C. Hammond (2019-21).
- International mobility programme with the Institut de Science des Matériaux de Mulhouse (FR) - CNRS, Dr. S. Bennici (2020-21).
- Invited Professor c/o Cardiff University, School of Catalysis, March 2019. Seminar “The long way to catalyst formulation through process design: the case of hydrogen production from renewable sources” and lectures for students “ Kinetics of heterogeneously catalysed reactions” (8h) realised thanks to the “ERASMUS+ Staff Mobility”.
- Invited professor at Cambridge University (UK), May 2016. Coorganiser of a workshop on field analysis techniques.
- Invited professor at Université Pierre et Marie Curie, Paris, April 2016. Organiser of seminars on “Catalytic processes for biorefinery” (8h) realised thanks to the “ERASMUS+ Staff Mobility”.
- Invited professor c/o Università Ca’ Foscari in Venice as mentor for the workshop “MENTORING FOR CHEMISTS: BRINGING EXCELLENCE TO GROW EXCELLENCE”, February 2019.
- Invited c/o Università degli Studi di Genova for PhD seminars (4h) “From materials to process design: scale up issues in the development of chemical processes”, November 2019.
- Awarded with beamtime at the synchrotron facility ESRF (Grenoble), beamlines BM29 (September 2007) e Gilda (November 2008).
- Invited c/o Clariant SpA (Munchen) with a research contract for the development of innovative catalysts for ammonia oxidation (March 2014).
- Invited c/o Clariant SpA (Novara site) for a seminars cycle on the preparation of heterogeneous catalysts (6h, December 2014).
- Session organiser (“Conversion of Nitrogen-based molecules (N₂, NH₃, NO_x,...)”) for the International Congress of Catalysis, Lyon, July 2024 (ICC2024).
- Member of the scientific committee of XIII European Congress on Catalysis (Europacat2017), Firenze, September 2017. Chairperson of the session “Catalysis for a cleaner and sustainable future” and editor of the relative Special Issue in Topics in Catalysis.
- Member of the National Committee for the VII International Symposium of Group V Elements (Riccione, May 2011).

Organisation of conferences and seminars

- Member of the International Scientific Committee for International Conference on Chemical & Process Engineering (IChEAP12) (Milano, May 2015).
 - Member of the International Scientific Committee for International Conference on Chemical & Process Engineering (IChEAP13) (Milano, May 2017).
 - Member of the International Scientific Committee for International Conference on Chemical & Process Engineering (IChEAP14) (Bologna, May 2019).
 - Member of the International Scientific Committee for International Conference on Chemical & Process Engineering (IChEAP15) (Napoli, May 2021).
 - Member of the International Scientific Committee for the International Conference on Biomass ICONBM2020, Florence, April 26th-29th 2020.
 - Member of the Scientific and Organising Committee for the 11th International Symposium on Catalysis in Multiphase Reactors (CAMURE - 11) & 10th International Symposium on Multifunctional Reactors (ISMR - 10), Milano, 2021.
 - Member of the Scientific Committee XVIII Congresso Nazionale della Divisione di Chimica Industriale, Firenze, June 2012.
 - Member of the Scientific Committee XIX Congresso Nazionale della Divisione di Chimica Industriale della Società Chimica Italiana, Salerno, September 2015.
 - Member of the Scientific Committee of 1° Scuola Enerchem, Firenze, February 2018.
 - Member of the Scientific Committee of 2° Congresso Enerchem, Padova, February 2020.
 - Member of the organising committee for the organisation of the SCI congress 2021, Milan, September 2021.
 - Member of the Scientific Committee of 2° Enerchem School, Firenze, February 2023.
 - Member of the Organising and Scientific Committee of 3rd Enerchem Congress within the SCI2024 event, Milan, September 2024.
 - Co-organiser of various outreach and dissemination meetings. E.g. L'energia nella città del futuro, Sator, Milano, settembre 2016.
 - Organiser and teacher of seminars for PhD scholars: a) "Ecodesign: chemistry for a sustainable world" (2023-24); b) "Processes for sustainable chemistry and biorefinery" (2020-21); c) "From materials to process design: scale up issues in the development of chemical processes (2019-20); d) "Process design and cost evaluation" (2016-2017); e) "Catalytic processes in biorefinery" (2012-2013); f) "Tecnologie per la valorizzazione energetica di biomasse" (2009-2010); g) "Sviluppo di un processo catalitico" (2005-2006); h) "Scaling-up dei processi catalitici eterogenei" (2001-2002)
- Evaluation Commissions**
- Commissioner for a researcher position (III level) at CNR (decr. nomina n.44817 del 24/06/2016)
 - Commissioner for a researcher position (I level) at INRIM (decr. Nomina 144/2017 del 19/9/2017)
 - Internal Commissioner for an associate professor position at Università degli Studi di Milano (nomina rettorale 17/06/2016).
 - Commissioner for different positions of Temporary Researcher (RTDA) at Politecnico di Milano (2017 and 2021), Università della Calabria (2022), Università degli Studi di Genova (2022), Università degli Studi del Sannio (2022).
 - Commissioner for the admission to post doc positions at Università degli Studi di Milano (various commissions from 2013 to present).
 - Commissioner for the final examination of Doctoral programmes at Università dell'Insubria (2017), Bologna (2017), at Politechnic of Montreal (2018), at Cardiff University (2019), Université Mulhouse (2020), Université de Nancy (2022), Università degli Studi di Pisa (2022) and Genova (2022).
- International collaborations, assignments and recognition**
- Collaborated with: University D.I. Mendeleev Moscow (Prof. Vishniakov, Dr. A. Kryukov), ended in 2007-2008 in a joint PhD position (D.ssa O. Buchneva), of which she was tutor; Prof. W. Raròg-Pilecka (University di Warsaw, students exchange); Dr. A. Goguet (Queen's University of Belfast, students exchange); Prof. S. Dzwigaj (Université Pierre et Marie Curie di Parigi, papers and visiting professor); Dr. S. Bennici (CNRS Mulhouse, proposals and mobility); Dr. M. Yoshikawa at Osaka Gas (Japan, proposals and testing of materials); Prof. X. Verykios (Patras university, hosted as visiting professor); Dr. N. Dimitratos and A. Roldan (Cardiff University, papers, students exchange); Dr. C. Hammond (Dept. Chem. Eng., Imperial College of London, UK, mobility); Dr. J. Lasso (University of Panama, papers, international mobility and shared projects); Dr. Y. Kolenko (INL, Braga, Portugal, papers); Dr. J. Stoddard and L. Ceccarelli (University of Cambridge, UK, papers, research agreement); Dr. A. Savara (Oak Ridge National Laboratory, USA, papers); Prof. N. Mahinpey (Dept. of Chemical and Petroleum Engineering, Schulich School of Engineering, University of Calgary, papers and research agreement); dr. M. Rapf (Institute for Sanitary Engineering, Water Quality and Solid Waste Management - ISWA - at University of Stuttgart, papers, students exchange); Prof. J. Karl (Chair of Energy process eng., Freidrich-Alexander Univ. Erlangen-Nuremberg, Germany,

proposals).

- Member of the evaluation panel of Marie S. Curie proposals since 2013;
- Member of the Evaluation panel of Horizon Europe calls 2021-2027 (CL4, CL5, EIC).
- Member of the Evaluation panel of Solar Driven Chemistry Consortium calls 2022.
- Member of the evaluation panel of international research grants since 2011 (Norway, Arab Emirates, Hong Kong, Romania, Rep. Ceca, Rep. Kazakistan, Catalan Region, France AgenceRecherche, Germany Solar Driven Consortium).
- Member of the evaluation panel constituted by RCN-Norway for the evaluation of excellence centres (2018), research groups (2022-23) and research institutes (2023).
- Member of the organizing or scientific committee of international congresses (*vide supra*). Chairperson of various sessions at international conferences.
- Tutor of 2 PhD theses for extra-EU citizens.
- Reviews and Guest Editor upon invitation on international journals (Chem. Eng. J., Catal. Today, Catalysts)
- Referee for important journals, (Appl. Catal. B, ACS Catal., J. Mater. Chem., Green Chem., Appl. En., Int. J. Hydrogen Energy, Chem. Eng. Commun., Catal. Lett., Mater. Res. Bull., Chem. Commun...)
- During the last 10 years she collaborated at national level mainly with: Politecnico di Milano (L. Pellegrini) and Torino (B. Bonelli, E. Garrone, M. Armandi, M. Piumetti, S. Esposito), Universities of Genova (G. Ramis, E. Finocchio, P. Costamagna), Venezia (M. Signoretto), Bologna (F. Cavani, A. Vaccari, F. Passerini), Perugia (A. Di Michele, L. Gammaitoni, L. Barelli), Palermo (E. Garcia-Lopez, G. Marci) and CNR-ISTM (V. Dal Santo, A. Tuissi).
- She covered various elective assignments in the Italian Chemical Society.
- Member of the evaluation panel of research grants for Regione Piemonte (Finpiemonte) since 2010.
- Member of the evaluation panel of research grants and for the evaluation of the quality of research for the Italian Ministry of Education and Research and for the assessment of research grants of Italian Universities.
- Member of the organizing or scientific committee of national congresses (*vide supra*). Chairperson of various sessions at national conferences.
- National Scientific Habilitation as full professor, ASN2016 for three scientific sectors: 09/D3 - Chemical Plants; 03/C2 - Industrial Chemistry; 03/B1 - Inorganic Chemistry
- National Scientific Habilitation as associate professor, ASN2012 for three scientific sectors: 09/D3 - Chemical Plants; 03/C2 - Industrial Chemistry; 03/A2 - Physical Chemistry
- Teaching Habilitation for high school, Chemistry and Chemical Technology, 2000.
- In the frame of an internal evaluation promoted by the Atheneum she was evaluated for her productivity (scientific, didactic and management). For the years of evaluation she was 31° over 484 researchers in year 2011, 4° over 509 for year 2013.

National collaborations, assignments and recognition

National Scientific Habilitation
Teaching Habilitation

Other info

PERSONAL SKILLS

Mother tongue Italian

Other language

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Listening	Reading
Advanced	Advanced	Advanced	Advanced	Advanced
TOEIC listening & reading (2014): Score 940/990				

Organisational / managerial skills

- At present she manages her independent research group, which includes, three post doc researchers and a PhD student, plus an average number of 7 master and 6 bachelor graduating student per year. She is responsible of 5 labs: 2 of chemical plants (pilot and micropilot scale), 1 for preparation of catalysts, 1 for their characterisation and 1 for numerical calculus (she is responsible for the licence of the AspenOne Engineering Suite for the Atheneum). She carries out her independent activity since 2008, supervising graduating (ca. 95), PhD students (tutor of 5, co-

tutor of 3 theses) and Post-Doc researchers (9). She supports economically the research activity attracting funds, ca. 2,000,000 Euro in the last 10 years, to thirds from competitive grants, one third from research contracts with private firms, with a modest contribution from the University (ca. 50,000 Euro).

- Guest Editor of 7 special issues, 28 invited reviews and chapters upon invitation, 5 Editorials, 1 text book on Transport Phenomena (Ed. Cortina, 2009), 1 on Industrial Chemistry (Ed. Zanichelli, 2021) and 1 on nanomaterials for water treatment (Elsevier, 2020), 157 papers (+ 4 submitted) on international journals, mostly in the 1st quartile of the relevant categories, 2 keynote lecture, 11 invited talks and 213 congress communications.
- Collected > 5300 citations with an h-index of 44 (Scopus 17/09/2023). Since 2020 she is in the 2% top cited authors worldwide (Elsevier).

Job-related skills

- Design, optimisation and economic assessment of chemical processes
- Catalysts preparation and testing (heterogeneous processes)
- Transport phenomena
- Kinetics
- Process simulation

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Independent	Independent	Independent	Proficient

- Proficient user of the MS Office software
- Optimum knowledge of AspenONE Engineering suite V 8 and following
- Basic knowledge of the Proll simulation tool
- Good knowledge of the Matlab language

Driving licence

B

FULL PUBLICATIONS LIST

Books

1. “Fenomeni di Trasporto”, L. Forni, I. Rossetti, Editrice Cortina, 2009, 529 pagg.
2. “Nanotechnology for Reducing Water Pollution”, B. Bonelli, F.S. Freyria, I. Rossetti, R. Sethi,
3. “Chimica Industriale”, Fabrizio Cavani, Gabriele Centi, Martino Di Serio, Ilenia Rossetti, Antonella Salvini, Giorgio Strukul, Zanichelli, 2022.

Guest editor

1. “Process design issues for hydrogen production: from catalyst design to reactor modelling and process simulation”, I. Rossetti, G. Ramis, Eds., Special issue in ChemEngineering, MDPI, 2017. http://www.mdpi.com/journal/ChemEngineering/special_issues/process_Hydrogen_production
2. “Design challenges for catalytic and photocatalytic reactors”, I. Rossetti, Ed., Special issue in Catalysts, MDPI, 2017. Impact factor: 3.082.
3. “Catalytic, photocatalytic and electrocatalytic processes for the valorisation of CO₂”, I. Rossetti, G. Ramis, Eds., Special issue in Catalysts, MDPI, 2018. Impact factor: 3.082.
4. “Catalysis for a Cleaner and sustainable future”, special issue in Topics in Catalysis, I. Rossetti, Ed., 2018. Impact factor: 2.486.
5. “New Insights into Heterogeneous Catalytic processes”, G. Ramis, I. Rossetti, Eds., Special issue in Catalysts, MDPI, 2020. Impact factor: 4.146.
6. “Feature Paper in Section Catalytic Materials”, S. Bennici, I. Rossetti, Special issue in

Materials, MDPI, 2021. Impact Factor: 3.623 (2020).

7. "Photo-Reforming: Nanocatalysts for Clean Energy and Environmental Sustainability", *Nanomaterials*, MDPI, 2022. Impact Factor: 5.719 (2021).

Book Chapters, invited reviews, editorials

1. "A new method for preparing nanometer-size perovskitic catalysts for CH₄ flameless combustion", R. A. M. Giacomuzzi, M. Portinari, I. Rossetti, L. Forni, *Stud. Surf. Sci. and Catal. (A. Corma, F.V. Melo, S. Mendioroz, J.L.G. Fierro, Eds.)* Vol. 130, Elsevier, Amsterdam, 2000, p.197.
2. "Oxide nanomaterials for the catalytic combustion of hydrocarbons", I. Rossetti and L. Forni, in "Synthesis, Properties and Applications of Oxide Nanomaterials", J.A. Rodriguez and M. Fernández-García, Eds., Wiley, 2007, p.563-602.
3. "ABO_{3±δ} catalysts for the flameless combustion of methane: effect of flame spray pyrolysis preparation parameters", G.L. Chiarello, I. Rossetti and L. Forni, in *Catalytic combustion*, P. Forzatti, G. Groppi, P. Ciambelli, D. Sannino, Eds., Polipress, Vol. 1, 2005, p. 165.
4. "4f-elements in heterogeneous catalysis", I. Rossetti and Lucio Forni, in "Advances in the solid state chemistry of 4f elements", P. Ghigna Ed., Chapter 3, Transworld Research Network, 2009, p. 47-69.
5. "Catalytic combustion: kinetics and reactor design", I. Rossetti and Lucio Forni, S.A. Cottillard, Ed., Novapublishers, 2011, ISBN: 978-1-61324-279-7, Ch.4., p.141-172.
6. "V-based catalysts for the ODH of light paraffins", I. Rossetti, *La Chimica & l'industria*, critical review, 92(4) (2010) 147.
7. "Metal Doped Activated Carbon for Hydrogen Storage", Alessandro Gallo, Vladimiro Dal Santo, Vincenzo Radaelli, Enrico Cavo, I. Rossetti, *Topics in Chemistry and Materials Science, Advanced Micro- and Mesoporous Materials - 11*, Eds. K. Hadjiivanov, V. Valtchev, S. Mintova, G. Vayssilov, 6 (2012) 1.
8. "Micro- and nano-structured materials for H₂ storage: application to mobile Fuel Cell systems.", I. Rossetti, *Micro and Nanosystems*, invited review, 3 (2011) 331.
9. "Hydrogen production by photoreforming of renewable substrates", I. Rossetti, invited spotlight article, *ISRN Chemical Engineering*, vol. 2012, Article ID 964936, 21 pages, 2012. doi:10.5402/2012/964936.
10. "Advanced oxides in catalysis", I. Rossetti, *Current Inorganic Chemistry*, 3 (2013) 50.
11. "Metal dispersion and interactions with the support in the coke production over ethanol steam reforming catalysts", G. Ramis, I. Rossetti, E. Finocchio, M. Compagnoni, M. Signoreto, A. Di Michele, in "Progress in Clean Energy - Volume 1: Analysis and Modeling", I. Dincer et al. (eds.), Springer International Publishing Switzerland, 2016, Chapt. 51, pp. 695-711. DOI 10.1007/978-3-319-16709-1_51.
12. "Chemical reaction engineering, process design and scale up issues at the frontier of synthesis: flow chemistry", I. Rossetti, M. Compagnoni, *Invited Review, Chem. Eng. J.*, 296 (2016) 56. Impact factor: 6.216.
13. "Economic assessment of biorefinery processes: the case of bioethanol", I. Rossetti, *Invited Editorial, Industrial Chemistry: Open Access*, 1 (2015) 2.
14. "Flow Chemistry: New Concepts from Batch to Continuous Organic Chemistry.", I. Rossetti, *Invited Editorial, Ind. Chem.*, 2 (2016) e102.
15. "Recent Advances in Industrial Chemistry", I. Rossetti, *Editorial note Industrial Chemistry: Open Access*, 2 (2016) 2.
16. "Removal of N-containing inorganic pollutants from waste and drinking waters", I. Rossetti, *Invited Editorial, Industrial Chemistry: Open Access*, 2 (2016) e106.
17. "Photocatalytic processes for the abatement of N-containing pollutants from waste water. Part 1: Inorganic pollutants", M. Compagnoni, G. Ramis, F.S. Freyria, M. Armandi, B. Bonelli, I. Rossetti, *Invited review, Journal of Nanoscience and Nanotechnology*, 17 (2017) 3632-3653. Impact factor: 1.354.
18. "Catalytic and photocatalytic processes for the abatement of N-containing pollutants from wastewater. Part 2: Organic pollutants", F.S. Freyria, M. Armandi, M. Compagnoni, G. Ramis, I. Rossetti, B. Bonelli, *Invited review, Journal of Nanoscience and Nanotechnology*, 17 (2017) 3654-3672. Impact factor: 1.354.
19. "Combined heat and power cogeneration from bioethanol and fuel cells. A brief overview on demonstrative units and process design", I. Rossetti, *Invited Editorial, Industrial Chemistry: Open Access*, 2 (2016) 2 (e104).
20. "Process simulation for the design and scale up of heterogeneous catalytic process: Kinetic modelling issues", Antonio Tripodi, Matteo Compagnoni, Rocco Martinazzo, Gianguido Ramis and Ilenia Rossetti, *invited review, Catalysts*, 7, 2017, 159. Impact factor: 3.465.
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Others

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Invited lectures

1. “Da biomassa ad energia: tecnologia ad idrogeno da bioetanolo”, I. Rossetti, L. Forni, G.F. Tantardini, G. Faita, M. Raimondi, giornata di Facoltà “L’energia di domani”, Milano, 18 settembre 2008.
2. “From biomass to energy: hydrogen-based technology by bio-ethanol reforming”, I. Rossetti, C. Biffi, G. Faita, G.F. Tantardini, M. Raimondi, L. Forni, International Workshop on Distributed Energy Systems: The Role of Chemical Sciences and Technologies, 6 Aprile 2009 - Università di Milano.
3. “La pirolisi in fiamma come metodo di preparazione di nanomateriali per applicazioni ambientali ed energetiche.”, I. Rossetti, C. Biffi. NANOTECH-Lazio: Panoramica sulle Nanoscienze, Roma, 22 Aprile 2009.
4. “Impianto integrato con fuel cell per la cogenerazione di energia da bioetanolo”, I. Rossetti, presentazione al convegno “Prospettive della cogenerazione di energia da bioetanolo”, Università degli Studi di Milano, 25/11/2009.
5. “Tecnologie per la produzione di idrogeno da fonti rinnovabili: siamo pronti per la sfida?”, I. Rossetti, Energetica, Torino, 7 aprile 2011.
6. “Il chimico industriale al fianco del chimico e delle aziende per lo sviluppo di processo”, I. Rossetti, incontro con l’Università, il CNR e l’industria, 29 settembre 2015.
7. “Hydrogen production from renewables: from catalyst to process design”, I. Rossetti, XIX Congresso Nazionale di Catalisi - GIC 2016, Bressanone (BZ), 12 Settembre 2016
8. “Energia e ambiente. Introduzione generale alle tecniche di miglioramento dell’efficienza nella conversione dell’energia, alle tecniche di abbattimento di emissioni inquinanti, alla valorizzazione delle materie prime di scarto e all’impiego di biocombustibili”, I. Rossetti, Energia e Ambiente nella Città del Futuro, SATOR, Milano, 29-20 settembre 2016.
9. “Solar energy storage: catalytic and photocatalytic processes for the production of H₂”, invited lecture, Microenergy2017, Gubbio, July 3rd-7th, 2017.
10. “Catalytic and photocatalytic processes for the production of alternative fuels and chemicals from renewable sources”, M. Compagnoni, I. Rossetti, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, Invited lecture Premio Parmaliana 2018.
11. “Present challenges of ammonia production”, I. Rossetti, invited lecture: Innovative catalysis and sustainability, scientific and socio-economic aspects. Bardonecchia, 7-11 January 2019.
12. “Photo-oxidation of ammonia in wastewater to N₂ under UV, Vis and Sunlight”, F. Conte, C. Calloni, I. Rossetti, G. Ramis, ANM2021, Aveiro, 22-24 July 2021, invited **keynote**.
13. “Comparison of different hydrogen vectors for the storage and distribution of green hydrogen: methanation of CO₂ vs. ammonia synthesis”, M. Tommasi, S.N. Degerli, G. Ramis, I. Rossetti, ANM 2023 - 20th International conference on Advanced Nanomaterials, Aveiro, 26-28 luglio 2023, invited **keynote**.

Congress Communications

1. “Carbon supported promoted Ru catalyst for ammonia synthesis”, L. Forni, D. Molinari, I. Rossetti, N. Pernicone, presentato come poster al 16th NACS, Boston, 30 maggio-4 giugno 1999.
2. “Study of Carbon Supported promoted Ru Catalysts for Low-Pressure Ammonia Synthesis”, L. Forni, I. Rossetti, L. Gigante, N. Pernicone, presentato oralmente a Europacat-IV, Rimini, 5-10 settembre 1999.
3. “A new method for preparing nanometer-size perovskitic catalysts for CH₄ flameless combustion”, R. A. M. Giacomuzzi, M. Portinari, I. Rossetti, L. Forni, presentato oralmente al 12th International Congress on Catalysis, Granada, luglio 2000.
4. “Study of Promoters Effect in Ru/C Ammonia Synthesis Catalyst”, I. Rossetti, N. Pernicone, L. Forni, presentato oralmente al XII Congresso Italiano di Catalisi, Ravello, 1-5 ottobre 2000.
5. “Effect of Ru loading in Ru/C catalysts for ammonia synthesis”, I. Rossetti, N. Pernicone, L. Forni, presentato oralmente al 17th NACS, Toronto, giugno 2001.

6. "Promoted Ru/C catalysts for low pressure ammonia synthesis", I. Rossetti, N. Pernicone, L. Forni, presentato oralmente al VI Seminario di Catalisi, Grado, giugno 2001.
7. "Catalytic combustion of hydrocarbons over perovskites", L. Forni and I. Rossetti, co-autrice della plenary lecture del Prof. L. Forni al VI Seminario di Catalisi, Grado, giugno 2001.
8. "Fe-ZSM5 catalysts for the N₂O oxidation of benzene to phenol", R. Monaci, E. Rombi, D. Meloni, V. Solinas, I. Rossetti, L. Forni, presentato come poster al 13th International Congress on Zeolites, Montpellier, luglio 2001.
9. "Ru loading effect on Ru/C ammonia synthesis catalyst", I. Rossetti, N. Pernicone, L. Forni, presentato come poster a Europacat-V, Limerick, settembre 2001.
10. "Catalytic flameless combustion of methane on supported perovskites prepared by flame-hydrolysis", G. Gianotto, I. Rossetti, L. Forni, presentato come poster al XIV Congr. Div. Chim. Ind. S.C.I., Milano, ottobre 2001.
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12. "Fe-MFI catalysts for direct benzene oxidation to phenol", I. Rossetti, F. Formica and L. Forni, presentato oralmente al I EURESCO Conference on Isomorphous Substitution of Zeolite Molecular Sieves, Obernai (Strasbourg), 15-22 marzo 2002.
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104. "Steam reforming of bioethanol, effect of substrate concentration and purity", José Lasso F, Matteo Compagnoni, Ilenia Rossetti, XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014, Rende, 7- 12 Settembre 2014, presentazione orale.

105. "Nickel- Titania Catalysts For Ethanol Steam Reforming", Gianguido Ramis, Ilenia Rossetti, Elisabetta Finocchio, IX Congresso Nazionale AICInG, Lecce, 14-17 settembre 2014, presentazione poster.
106. "CO₂ photoconversion to fuels", I. Rossetti, C. Pirola, A. Villa, L. Prati, G. Ramis, Photo4E, Lione, ottobre 2014, presentazione poster.
107. "Flame pyrolysis prepared catalysts for the steam reforming of ethanol: effect of support basicity", M. Compagnoni, J. Lasso F, I. Rossetti, V. Nichele, M. Signoretto, XIV Sigma-Aldrich Young Chemists Symposium (SAYCS 2014), Riccione, 27-29 ottobre 2014, presentazione poster.
108. "H₂ production from bioethanol and its use in fuel cells", Ilenia Rossetti, Josè Lasso, Matteo Compagnoni, Giorgia De Guido, Laura Pellegrini, 12th International Conference on Chemical and process Engineering (ICheaP12), Milano, 19-22 Maggio 2015, presentazione Orale.
109. "Flame Spray Pyrolysis Synthesized Co and Co/Ru Based Catalysts for the Thermochemical GTL - Fischer Tropsch Process" A. Comazzi, C. Pirola, A. Di Michele, M. Compagnoni, F. Galli, S. Cane, F. Manenti, I. Rossetti, C.L. Bianchi 23rd topical conference about "Synthesis gas chemistry", DGMK2015, 7-9/Oct/2015, Dresden (DE), (poster presentation)
110. "Flame pyrolysis prepared catalysts for the steam reforming of ethanol", J. Lasso F., M. Compagnoni, I. Rossetti, G. Ramis, Third International Conference Catalysis for Renewable Sources: Fuel, Energy, Chemicals, Catania, 6-11 settembre 2015, presentazione orale.
111. "High-pressure photoreactor for CO₂ conversion to fuels", M. Compagnoni, I. Rossetti, A. Villa, C. Pirola, L. Prati, G. Ramis, D. Wang, XIX Congresso Nazionale della Divisione di Chimica Industriale della SCI, Salerno, settembre 2015, presentazione orale.
112. "Flame Spray Pyrolysis: catalysts for the Steam Reforming of bio-ethanol" M. Compagnoni, I. Rossetti, J. Lasso, V. Nichele, M. Signoretto, XV Sigma Aldrich Young Chemists Symposium, 27-29 ottobre 2015, Rimini (oral presentation).
113. "Fingerprinting a production: analytical method for the identification of clay components", L. Ceccarelli, I. Rossetti, L. Primavesi, F. Beccari, 1st International Conference on Metrology for Archaeology, Benevento, ottobre 2015, comunicazione poster.
114. "Fingerprinting a production: analysis of clay technology from the Etruscan to the Roman period. Case study of the Montelabate Project.", L. Ceccarelli, I. Rossetti, S. Stoddart, L. Primavesi, Craft and production in the European iron age, Cambridge Conference, 25-27 settembre 2015, presentazione orale.
115. "Steam reforming of crude bio-ethanol for hydrogen production over FP catalysts", M. Compagnoni, J. Lasso, A. Di Michele, I. Rossetti, 1st International Enerchem Congress, Florence, Febbraio 2016, comunicazione poster.
116. "Electric and thermal energy from bioethanol. Process intensification by using diluted feeds", I. Rossetti, M. Compagnoni, 1st International Enerchem Congress, Florence, Febbraio 2016, comunicazione orale.
117. "Nanostructured materials for the photocatalytic abatement of N-containing pollutants from waste water", M. Compagnoni, I. Rossetti, G. Ramis, F. Freirya, M. Armandi, B. Bonelli, 7th International Conference on Advanced Nanomaterials, ANM2016, Aveiro, Portugal, Luglio 2016, comunicazione orale.
118. "Hydrogen production by steam reforming of diluted bioethanol solutions", M. Compagnoni, I. Rossetti, G. Ramis, L. Pellegrini, 7th International Conference on Advanced Nanomaterials, ANM2016, Aveiro, Portugal, Luglio 2016, comunicazione orale.
119. "CO₂ Photoconversion to Fuels and Chemicals under High Pressure", M. Compagnoni, A. Olivo, F. Galli, A. Villa, C. Pirola, L. Prati, M. Signoretto, N. Dimitratos, I. Rossetti, 6th EuCheMS congress, Sevilla, settembre 2016, presentazione orale.
120. "Ethylene production from diluted bioethanol solutions", Ilenia Rossetti, Matteo Compagnoni, Elisabetta Finocchio, Gianguido Ramis, Giorgia De Guido, Laura A. Pellegrini, Stanislaw Dzwigaj, Convegno Nazionale GRICU 2016, Anacapri, settembre 2016, presentazione poster.
121. "Optimisation of CO₂ capture in a natural gas-fired power plant", Giorgia De Guido, Matteo Compagnoni, Laura A. Pellegrini, Ilenia Rossetti, Convegno Nazionale GRICU 2016, Anacapri, settembre 2016, presentazione orale.
122. "CO₂ Photoreduction at High Pressure to both Gas and Liquid Products over Titanium Dioxide", Davide Vitali, Federico Galli, Matteo Compagnoni, Carlo Pirola, Claudia L. Bianchi, Alberto Villa, Laura Prati, Ilenia Rossetti, XIX Congresso Nazionale di Catalisi - GIC 2016, Bressanone, settembre 2016, selezionato per il premio migliore poster.
123. "Kinetic modeling and reactor simulation for ethanol steam reforming", A. Tripodi, M. Compagnoni, I. Rossetti, XIX Congresso Nazionale di Catalisi - GIC 2016, Bressanone, settembre 2016, flash oral + poster.
124. "Produzione di etilene da soluzioni diluite di bioetanolo con zeoliti Ni-BEA: studio FT-IR e ipotesi di meccanismo", Gianguido Ramis, Ilenia Rossetti, Matteo Compagnoni,

- Elisabetta Finocchio, X Convegno Nazionale dell'Associazione Italiana di Chimica per Ingegneria, Aiching2016, Udine, settembre 2016, poster.
125. "Sintesi e caratterizzazione di materiali nanostrutturati per l'abbattimento fotocatalitico di molecole azotate in acque reflue", Gianguido Ramis, Matteo Compagnoni, Ilenia Rossetti, Francesca Freyria, Marco Armandi, Barbara Bonelli, Elisabetta Finocchio, X Convegno Nazionale dell'Associazione Italiana di Chimica per Ingegneria, Aiching2016, Udine, settembre 2016, poster.
 126. "Innovative photoreactors for unconventional sustainable processes", Matteo Compagnoni, Ilenia Rossetti, Francesca Freyria, Marco Armandi, Barbara Bonelli, and G. Ramis, Young Chemists Symposium Merck Rimini, 25th-27th October 2016, oral presentation.
 127. "CO₂ Photoconversion to Fuels and Chemicals under High Pressure", Matteo Compagnoni, Alberto Olivo, F. Galli, Alberto Villa, Carlo Pirola, Laura Prati, Michela Signoretto, Nikolaos Dimitratos, Ilenia Rossetti, 6th EuCheMS Chemistry Congress, Seville, Spain, 11th-15th September 2016, oral presentation.
 128. "Diluted bioethanol solutions for the production of hydrogen and ethylene", Gianguido Ramis, Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni, IChEAP2017, Milano, maggio 2017, comunicazione orale.
 129. "Development of unconventional photocatalytic reactors and processes for the abatement of harmful N-containing pollutants", Ilenia Rossetti, Matteo Compagnoni, Gianguido Ramis, Francesca Freyria, Marco Armandi, Barbara Bonelli, IChEAP2017, Milano, maggio 2017, comunicazione orale.
 130. "Ethylene production by diluted bio-ethanol solutions over Ni-BEA", G. Ramis, S. Dzwigaj, I. Rossetti, 19th Edition of the International Symposium on Intercalation Compounds, Assisi, maggio 2017, presentazione poster.
 131. "Innovative Photoreactors for unconventional sustainable processes", G. Ramis, Matteo Compagnoni, Francesca Freyria, Marco Armandi, Barbara Bonelli, Ilenia Rossetti, NAM 2017, Denver, giugno 2017, comunicazione orale.
 132. "Kinetic modeling and process simulation for ethanol steam reforming", Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni, G. Ramis, NAM 2017, Denver, giugno 2017, comunicazione poster.
 133. "Metal modified TiO₂ for CO₂ photoreduction in unconventional conditions", A. Olivo, E. Ghedini, M. Signoretto, M. Compagnoni, I. Rossetti, Green Catalysis by Design Scientific Meeting and Young Researchers Winter School, Padova 22-23 febbraio 2017.
 134. "Photocatalytic reactors and processes for the abatement of harmful N-containing pollutants from waste and drinking waters", Ilenia Rossetti, Matteo Compagnoni, Gianguido Ramis, XVII Giornata mondiale dell'acqua, Accademia dei Lincei, Roma, 21/3/2017, comunicazione orale.
 135. "Innovative Photoreactors to remove N-containing pollutants from water", M. Compagnoni, V. Praglia, G. Ramis, F. Freyria, M. Armandi, B. Bonelli, I. Rossetti, Europacat2017, Firenze, Agosto 2017, presentazione orale.
 136. "Degradation of N-containing compounds by pure and doped titania: study of the reaction in dark conditions, under UV light and after incubating the catalysts in ascorbic acid", F.S. Freyria, M. Armandi, M. Compagnoni, G. Ramis, I. Rossetti, B. Bonelli, Europacat2017, Firenze, Agosto 2017, presentazione short oral.
 137. "Process simulation for the production of hydrogen and ethylene: exploitation of diluted 2nd generation bioethanol solutions as poorly expensive raw material", Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni, Gianguido Ramis, Europacat2017, Firenze, Agosto 2017, presentazione short oral.
 138. "Microkinetic Modeling of Benzyl Alcohol Oxidation on Carbon Supported Pd and AuPd Nanoparticles", Alberto Villa, Ilenia Rossetti, Laura Prati, Aditya Savara, Europacat2017, Firenze, Agosto 2017, presentazione poster.
 139. "Valorization of diluted bioethanol streams catalyzed by ZrO₂- and HCBZ zeolite-based materials", Gianguido Ramis, Ilenia Rossetti, Carlo Resini, Yury V. Kolen'ko, Marina Cortés Reyes, Maria Angeles Larrubia Vargas, Europacat2017, Firenze, Agosto 2017, presentazione poster.
 140. "Kinetic Analysis and Reactor Design of Ethanol Steam Reforming", Antonio Tripodi, Matteo Compagnoni, Gianguido Ramis, Ilenia Rossetti, Europacat2017, Firenze, Agosto 2017, presentazione poster.
 141. "Nanostructured photocatalysts for the photooxidation of ammonia and photoreduction of nitrates from waste waters", Ilenia Rossetti, Matteo Compagnoni, Elnaz Bahadori, Antonio Tripodi, Gianguido Ramis, Francesca Freyria, Marco Armandi, Barbara Bonelli, ANM2017 congress, Aveiro, luglio 2017, presentazione orale.

142. "Kinetic modelling and process simulation for H₂ production by steam reforming of diluted bioethanol solutions", Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni and Gianguido Ramis, ANM2017 congress, Aveiro, luglio 2017, presentazione orale.
143. "Nanostructured materials for the valorization of (waste) organic solutions and CO₂ recycle for fuels by photocatalytic reforming", Gianguido Ramis, Ilenia Rossetti, Elnaz Bahadori, Matteo Compagnoni, Antonio Tripodi, ANM2017 congress, Aveiro, luglio 2017, presentazione poster.
144. "CO₂ photoreduction at high pressure to both gas and liquid products over titanium dioxide: the effect of unconventional reaction conditions", Elnaz Bahadori, Matteo Compagnoni, Antonio Tripodi, Laura Prati, Carlo Pirola, Gianguido Ramis, Ilenia Rossetti, XXVI Congresso Nazionale SCI, Div. Chimica Industriale, Paestum, 11-14 settembre 2017, presentazione orale.
145. "Heterogeneous photocatalytic processes for the abatement of N-containing pollutants from wastewater", Veronica Praglia, Elnaz Bahadori, Matteo Compagnoni, Gianguido Ramis, Ilenia Rossetti, XXVI Congresso Nazionale SCI, Div. Chimica Industriale, Paestum, 11-14 settembre 2017, presentazione short oral.
146. "Hydrogen Production by Steam Reforming of Bioethanol: Catalytic Tests and Process Design", M. Compagnoni, A. Tripodi, E. Mostafavi, N. Mahinpey, I. Rossetti, DGMK2017 conference "Petrochemistry and Refining in a Changing Raw Materials Landscape", Dresda, 9-11 ottobre 2017, presentazione orale.
147. "Process design and cost evaluation for H₂ and ethylene production from bioethanol", Gianguido Ramis, Antonio Tripodi, Matteo Compagnoni, Ilenia Rossetti, 4th International Conference on Catalysis for Biorefineries, Lione, 11-15 dicembre 2017, presentazione poster.
148. "Photoreactors design in the exploitation of biorefinery processes", Ilenia Rossetti, Elnaz Bahadori, Gianguido Ramis, 4th International Conference on Catalysis for Biorefineries, Lione, 11-15 dicembre 2017, presentazione poster.
149. "Exploiting diluted 2nd generation bioethanol solutions for the production of hydrogen and ethylene", Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni, Gianguido Ramis, IconBM2018, International Conference on Biomass, Bologna, 17-20 giugno 2018, presentazione orale.
150. "New Insight into the synthesis of Co- and Ni- based catalyst for ethanol steam reforming", Serena Esposito, Barbara Bonelli, Simelys Hernandez, Ilenia Rossetti, Gianguido Ramis, Guido Saracco, invited oral presentation, Catalysis, Parigi, 19-21 Febbraio 2018.
151. "A newly designed process for the production of acetonitrile from renewable sources", I. Rossetti, A. Tripodi, D. Cespi, F. Passarini, F. Cavani, G. Ramis, 25th International Symposium on Chemical Reaction Engineering, ISCRE25, 20-23 maggio 2018, presentazione poster.
152. "Photoreactors and photocatalytic processes for waste and drinking water treatment", I. Rossetti, E. Bahadori, G. Ramis, 25th International Symposium on Chemical Reaction Engineering, ISCRE25, 20-23 maggio 2018, presentazione poster.
153. "Sizing of a cogeneration unit based on fuel cells and on steam reforming of diluted bioethanol", I. Rossetti, Antonio Tripodi, Matteo Compagnoni, G. Ramis, European Hydrogen Energy Conference 2018, Malaga, Spain, 14-16th March, 2018, presentazione orale.
154. "Development of innovative photoreactors and photocatalytic processes for hydrogen production", I. Rossetti, E. Bahadori, G. Ramis, European Hydrogen Energy Conference 2018, Malaga, Spain, 14-16th March, 2018, presentazione orale.
155. "Photoreactors Design in the Exploitation of Biorefinery Processes: the Case of Hydrogen Production", G. Ramis, E. Bahadori, I. Rossetti, ANM2018 congress, Aveiro, luglio 2018, presentazione orale.
156. "Hydrogen Production by Exploiting Diluted Second Generation Bio-ethanol: Process Design and Economic Assessment", I. Rossetti, A. Tripodi, G. Ramis, ANM2018 congress, Aveiro, luglio 2018, presentazione orale.
157. "Modelling of photoreactors for water treatment", I. Rossetti, E. Bahadori, A. Tripodi, G. Ramis, 26th topical Conference of the Petrochemistry Division of DGMK "Challenges for Petrochemicals and Fuels: Integration of Value Chains and Energy Transition", October 10-12, 2018, in Berlin, Germany, presentazione poster.
158. "Fossil vs. renewable sources for chemicals production: A new process for the production of acetonitrile from bioethanol", I. Rossetti, A. Tripodi, D. Cespi, F. Passarini, F. Cavani, G. Ramis, 26th topical Conference of the Petrochemistry Division of DGMK "Challenges for Petrochemicals and Fuels: Integration of Value Chains and Energy Transition", October 10-12, 2018, in Berlin, Germany, presentazione orale.

159. "Process simulation of ammonia synthesis over optimized Ru/C catalyst and multibed Fe + Ru configurations", A. Tripodi, E. Bahadori, I. Rossetti, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione poster.
160. "Sonochemical synthesis of Ni-Based catalysts for Ethanol Steam Reforming", A. Di Michele, A. Dell'Angelo, N. Dimitratos, G. Ramis, I. Rossetti, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione orale.
161. "Photocatalytic processes for water treatment: removal of N-containing pollutants", E. Bahadori, A. Tripodi, I. Rossetti, G. Ramis, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione poster.
162. "Photocatalytic production of hydrogen from carbohydrates", E. Bahadori, A. Tripodi, I. Rossetti, M. Signoretto, G. Ramis, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione orale.
163. "A new renewable route to acetonitrile: process design and life-cycle analysis", A. Tripodi, E. Bahadori, D. Cespi, F. Cavani, F. Passarini, G. Ramis, I. Rossetti, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione poster.
164. "Photodegradation of (emerging) N-containing pollutants in wastewater", F. S. Freyria, M. Compagnoni, E. Bahadori, T. A. Gadhi, N. Ditaranto, M. Armandi, I. Rossetti, G. Ramis, B. Bonelli, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione poster.
165. "Influence of phosphate groups in Guerbet reaction", G. Innocenti, D. Manzini, J. Velasquez-Ochoa, I. Rossetti, F. Cavani, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione poster.
166. "New Insights into the Role of the Synthesis Procedure on the Performance of Co-Based Catalysts for Ethanol Steam Reforming", I. Rossetti, B. Bonelli, G. Ramis, E. Bahadori, R. Nasi, A. Aronne, S. Esposito, XX Congresso Nazionale di Catalisi e XX Congresso Nazionale della Divisione di Chimica Industriale, Milano, 2-5 settembre 2018, presentazione poster.
167. "Fotoreforming di zuccheri per la produzione di idrogeno", G. Ramis, E. Finocchio, I. Rossetti, E. Bahadori, XI Congresso AIChing, Bologna, settembre 2018, comunicazione orale.
168. "Photoreactors Design for Hydrogen Production", G. Ramis, E. Bahadori, I. Rossetti, ICHEAP-14, Bologna, 26-29 maggio 2019, presentazione orale.
169. "Modelling of photoreactors for water treatment", I. Rossetti, E. Bahadori, A. Tripodi, G. Ramis, ICHEAP-14, Bologna, 26-29 maggio 2019, presentazione orale.
170. "Unconventional Photoreactors Design: Towards High Pressure and High Temperature for Renewable Fuels Production", G. Ramis, E. Bahadori, A. Tripodi, I. Rossetti, 2019 North American Catalysis Society Meeting, Chicago, 23-28 giugno 2019, presentazione poster.
171. "Hydrogen, ethylene and power production from bioethanol: are we ready for the renewable market?", I. Rossetti, A. Tripodi, E. Bahadori, G. Ramis, 2019 North American Catalysis Society Meeting, Chicago, 23-28 giugno 2019, presentazione poster.
172. "H₂ production through photoreforming of carbohydrates", G. Ramis, E. Bahadori, A. Tripodi, I. Rossetti, ANM2019, Aveiro, 17-19 luglio 2019, presentazione orale.
173. "Visible and UV-light removal of inorganic N-containing pollutants from waste waters.", I. Rossetti, A. Tripodi, E. Bahadori, G. Ramis, ANM2019, Aveiro, 17-19 luglio 2019, presentazione orale.
174. "Innovative high pressure photoreactors for the photoreduction of CO₂", I. Rossetti, A. Tripodi, E. Bahadori, G. Ramis, ANM2019, Aveiro, 17-19 luglio 2019, presentazione orale.
175. "Degradazione fotocatalitica di inquinanti organici azotati", C. Calloni, G. Ramis, I. Rossetti, Convegno GRICU 2019, Palermo, 30 giugno-3 luglio 2019, presentazione poster.
176. "Depurazione fotocatalitica di acque reflue industriali da inquinanti inorganici azotati", V. Pellegatta, G. Ramis, I. Rossetti, Convegno GRICU 2019, Palermo, 30 giugno-3 luglio 2019, presentazione poster.
177. "Photocatalytic Approaches to Circular Economy: CO₂ Photoreduction to Regenerated Fuels and Chemicals and H₂ Production from Wastewater", I. Rossetti, G. Ramis,

- DGMK-Veranstaltung / Petrochemie “Circular Economy - A Fresh View on Petrochemistry”, October 9-11, 2019, Dresden, Germany, presentazione orale.
178. “Bio-ethylene Production: from Reaction Kinetics to Plant Scale”, I. Rossetti, A. Tripodi, M. Belotti, G. Ramis, DGMK-Veranstaltung / Petrochemie “Circular Economy - A Fresh View on Petrochemistry”, October 9-11, 2019, Dresden, Germany, presentazione orale.
 179. “Photoreactors design for fuels production”, G. Ramis, E. Bahadori, A. Tripodi, I. Rossetti, 12th EUROPEAN CONGRESS OF CHEMICAL ENGINEERING, Florence 15-19 September 2019, presentazione orale.
 180. “Are renewable-based processes economically sustainable today? The case of H₂ production and distributed energy cogeneration from bioethanol”, I. Rossetti, A. Tripodi, G. Ramis, 2nd International Congress ENERCHEM2, Padova, 12-14 febbraio 2020, presentazione orale.
 181. “Photocatalytic production of regenerated fuels under unconventional conditions”, F. Conte, I. Rossetti, G. Ramis, 2nd International Congress ENERCHEM2, Padova, 12-14 febbraio 2020, presentazione poster.
 182. “Process modelling issues in the design of a continuous flow route for the production of pharmaceuticals in multiphase processes: the case of Ibuprofen”, A. Tripodi, F. Conte, G. Ramis, I. Rossetti, 11th International Symposium on Catalysis in Multiphase Reactors (CAMURE - 11) & 10th International Symposium on Multifunctional Reactors (ISMR - 10), Milano, March 21-24, 2021, presentazione orale.
 183. “Photocatalytic Approaches to Circular Economy: CO₂ Photoreduction to Regenerated Fuels in a three-phase photoreactor”, F. Conte, A. Tripodi, G. Ramis, I. Rossetti, 11th International Symposium on Catalysis in Multiphase Reactors (CAMURE - 11) & 10th International Symposium on Multifunctional Reactors (ISMR - 10), Milano, March 21-24, 2021, presentazione orale.
 184. “Flame Spray Pyrolysis based-TiO₂ Photocatalysts for NO_x Degradation Under LED”, ~~XXX~~, ICFAS2020, 13-15th July 2021, Sarawak, Malaysia.
 185. “Comparative photocatalytic efficiency study between Ag-decorated SrTiO₃ and Ag-doped SrTiO₃ for NO_x abatement under LED light”, M. Frías Ordóñez, C.L. Bianchi, R. Djellabi, E. Falletta, F. Conte, I. Rossetti, Congreso Colombiano de procesos avanzados de Oxidación, 14-14 aprile 2021, online.
 186. “Development and comparison of advanced oxidation processes (AOPs) for the mineralization of azo-dyes from wastewaters”, G. Ramis, F. Conte, C. Calloni, A. Tripodi, I. Rossetti, ICHEAP-15, Napoli, 23-26 maggio 2021, presentazione poster.
 187. “Design of a process for the one-pot bio-ethylene oxide production”, I. Rossetti, D. Ripamonti, A. Tripodi, F. Conte, G. Ramis, ICHEAP-15, Napoli, 23-26 maggio 2021, presentazione orale.
 188. “Advanced oxidation processes (AOPs) for the mineralization of azo-dyes from wastewaters: homogeneous vs. heterogeneous photocatalytic processes”, F. Conte, C. Calloni, I. Rossetti, G. Ramis, ANM2021, Aveiro, 22-24 luglio 2021, presentazione orale.
 189. “H₂ production by photoreforming of glucose”, G. Casalini, F. Conte, I. Rossetti, G. Ramis, ANM2021, Aveiro, 22-24 luglio 2021, presentazione orale.
 190. “Photo-oxidation of ammonia in wastewater to N₂ under UV, Vis and Sunlight”, F. Conte, C. Calloni, I. Rossetti, G. Ramis, ANM2021, Aveiro, 22-24 luglio 2021, presentazione **keynote**.
 191. “Conceptual design of the gasification of plastic waste for the production of syngas or naphtha: a circular approach from plastic waste to renewed polymers”, I. Rossetti, A. Tripodi, F. Conte, G. Ramis, Chemical Recycling - Beyond Thermal Use of Plastic and other Waste, DGMK Conference, October 6-8, 2021, Dresden, presentazione orale.
 192. “Kinetic modelling of the biodegradation of polymeric materials”, F. Conte, I. Rossetti, G. Ramis, Milan Polymer Days - MIPOL2021, 6 -8 July 2021, presentazione poster.
 193. “Efficiency comparison of advanced oxidation processes (AOPs) for the mineralization of azo-dyes in water”, F. Conte, C. Calloni, A. Tripodi, G. Ramis, I. Rossetti, XXVII Congresso nazionale della SCI, Milano, settembre 2021, presentazione poster.
 194. “H₂ production by photoreforming of glucose”, F. Conte, G. Casalini, A. Tripodi, G. Ramis, I. Rossetti, XXVII Congresso nazionale della SCI, Milano, settembre 2021, presentazione orale.
 195. “Sustainable process design for the valorization of bioethanol as platform chemical”, I. Rossetti, A. Tripodi, F. Conte, G. Ramis, XXVII Congresso nazionale della SCI, Milano, settembre 2021, presentazione orale.
 196. “Photoreduction of CO₂ at high pressure: effect of co-catalysts and conditions”, G. Ramis, F. Conte, I. Rossetti, NAM2022, Maggio 2022, presentazione poster.
 197. “Process design of a direct route from bioethanol to ethylene oxide”, I. Rossetti, A. Tripodi,

- G. Ramis, NAM2022, Maggio 2022, presentazione poster.
198. "Carbon nitride-based catalysts for high pressure CO₂ photoreduction", I. Rossetti, G. Ramis, F. Conte, ANM2022, Aveiro, luglio 2022, presentazione orale.
 199. "Conceptual design of a process for hydrogen production from waste biomass and its storage in form of liquid ammonia", I. Rossetti, G. Ramis, ANM2022, Aveiro, luglio 2022, presentazione orale.
 200. "Artificial Photosynthesis: The Role of Photocatalysis in the Energy Transition", M. Tommasi, F. Conte, I. Rossetti, G. Ramis, DGMK2022, ottobre 2022, presentazione orale.
 201. "Conceptual design of a process for the use of liquid ammonia as hydrogen vector", I. Rossetti, A. Tripodi, G. Ramis, XXII Congresso Nazionale della Divisione di Chimica Industriale della SCI, Catania, 7-8 novembre 2023, presentazione orale.
 202. "Carbon nitride-based catalysts for high pressure CO₂ photoreduction", G. Ramis, M. Tommasi, F. Conte, I. Rossetti, XXII Congresso Nazionale della Divisione di Chimica Industriale della SCI, Catania, 7-8 novembre 2023, presentazione poster
 203. "Perovskite-based catalysts for CO₂ photoreduction reaction", I. Martin, G. Forghieri, E. Ghedini, I. Rossetti, M. Signoretto, Europacat 2023, Praga, settembre 2023, presentazione orale.
 204. "Photoreduction of CO₂ to liquid products with innovative photocatalysts", M. Tommasi, M.I. Alam, G. Ramis, I. Rossetti, 2° Scuola Enerchem, Firenze, 13-17 febbraio 2023, comunicazione orale.
 205. "High CO₂ Photoreduction Performance Achieved with Ceria-Based Photocatalysts", O. Tammaro, V. Russo, B. Masenelli, M. Tommasi, I. Rossetti, S. Esposito, 2° Scuola Enerchem, Firenze, 13-17 febbraio 2023, comunicazione orale.
 206. "Development of a simplified model for complex plastic waste gasification in an updraft fixed bed reactor", M. Tommasi, I. Prada, A. Tripodi, I. Rossetti, Milan Polymer Days - MIPOL2023, 7-9 June 2023, Comunicazione poster.
 207. "Comparison of different hydrogen vectors for the storage and distribution of green hydrogen: methanation of CO₂ vs. ammonia synthesis", M. Tommasi, S.N. Degerli, G. Ramis, I. Rossetti, ANM 2023 - 20th International conference on Advanced Nanomaterials, Aveiro, 26-28 luglio 2023, Comunicazione orale.
 208. "Exfoliated carbon nitride as solar sensitive materials for photocatalytic applications", S.N. Degerli, M. Tommasi, G. Ramis, I. Rossetti, ANM 2023 - 20th International conference on Advanced Nanomaterials, Aveiro, 26-28 luglio 2023, Comunicazione orale.
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Date, 17/09/2023

Signature

Ilenia Rossetti