

PERSONAL INFORMATION Ilenia Rossetti

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

WORK EXPERIENCE

01/02/2015-present **Associate Professor of Chemical Plants (SSD Ing-Ind/25)**

Università degli Studi di Milano - Dip. Chimica

Teaching

- Chemical Plants/Lab (6 CFU)
- Industrial Physical Chemistry (6 CFU)
- Energy Sources, Management and Conversion (2 CFU)

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

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**

Università degli Studi di Milano - Dip. Chimica

- Research contracts stipulated between the University and private companies

- 2012-present **Editor / Guest Editor for international journals**  
 Università degli Studi di Milano - Dip. Chimica
- Member of the Editorial Board of “Journal of Technology Innovations in Renewable Energy” since 2012, “Industrial Chemistry” since 2015, “ChemEngineering” since 2016, “Current Alternative Energy”, “International Journal of Petroleum and Petrochemical Engineering” since 2017 and of the Scopus-indexed “Recent Innovations in Chemical Engineering” and “Open Chemical Engineering Journal” since 2017.
  - Editor-in-chief of “Industrial Chemistry” since 2016.
  - Guest Editor of various Special Issues for Scopus-indexed journals such as Catalysts 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 “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 “CO<sub>2</sub> 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 “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 H<sub>2</sub> 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 CO<sub>2</sub> (Piano di sviluppo di Ateneo, linea B1, ca. 6200 Euro).
  - 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 H<sub>2</sub> storage materials

- (coordinators Dr. V. Dal Santo and A. Tuissi).
- Responsible of various research contracts for national and international companies.
  - Associated to CNR-ISTM since 2009.
  - Associated to the Interuniversity Consortium INSTM
  - Elected in the board of the Interdivisional Group on Renewable Energies of Società Chimica Italiana (SCI) (2016-18)
  - 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).
- Memberships**
- Responsible of a research agreement with the McDonalds Institute - Cambridge University (UK), 2015, Prof. S. Stoddard, renewed for 2016-18.
  - 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).
  - 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 in 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.
  - Awarded with beamtime at the synchrotron facility ESRF (Grenoble), beamlines BM29 (September 2007) e Gilda (November 2008).
  - Invited c/o Clariant SpA (Munche) 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).
- International research agreements**
- Visiting professorships**
- 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).
  - 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 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, May 31 to June 3, 2020.
  - 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.
  - 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) “Process design and cost evaluation” (a.a. 2016-2017); “Catalytic processes in biorefinery” (a.a. 2012-2013); c) “Tecnologie per la valorizzazione energetica di biomasse” (a.a. 2009-2010); d) “Sviluppo di un processo catalitico” (a.a. 2005-2006); e) “Scaling-up dei processi catalitici eterogenei” (a.a. 2001-2002)
- Organisation of conferences and seminars**
- 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 the final examination of Doctoral programmes at Università dell’Insubria (2017), di Bologna (2017) and at Politecnico di Montreal (2018).
- Evaluation Commissions**

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. Raróg-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. M. Yoshikawa at Osaka Gas (Japan, proposals and testing of materials); Prof. X. Verykios (Patras university, hosted as visiting professor); Dr. N. Dimitratos (Cardiff University, papers, students exchange); Dr. J. Lasso (University of Panama, papers); 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).
- Member of the evaluation panel of Marie S. Curie proposals since 2013;
- Member of the evaluation panel of international research grants since 2011 (Norway, Arab Emirates, Hong Kong, Romania, Rep. Ceca, Rep. Kazakistan).
- 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...)

National collaborations, assignments and recognition

- 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), Universities of Genova (G. Ramis, E. Finocchio), Venezia (M. Signoretto), Bologna (F. Cavani, A. Vaccari, F. Passerini), Perugia (A. Di Michele) 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 Teaching Habilitation

- 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.

Other info

- 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.

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 a technician, a post doc researcher and a PhD student, plus an average number of 7 master and 8 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. 75), PhD students (tutor of 4, co-tutor of 3 theses) and Post-Doc researchers (3). She supports economically the research activity attracting funds, ca. 800,000 Euro in the last 10 years, half from competitive grants, half from research contracts with private firms, with a modest contribution from the University (ca. 25,000 Euro).

- Guest Editor of 5 special issues, 16 invited reviews and chapters upon invitation, 5 Editorials, 1 text book and 1 book in progress edited by Elsevier, 112 papers (+ 5 submitted) on international journals, mostly in the 1<sup>st</sup> quartile of the relevant categories, 169 congress communications and 11 invited talks.
- Collected 2649 citations with an h-index of 31 (Scopus 06/11/2018).
- In 12 publications she is single author and of 60 is the corresponding author (starting from 2009).

#### 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

“Fenomeni di Trasporto”, L. Forni, I. Rossetti, Editrice Cortina, 2009, 529 pagg.

“Nanotechnology for Reducing Water Pollution”, B. Bonelli, F.S. Freyria, I. Rossetti, R. Sethi, Elsevier, expected Dec. 2019.

##### Guest editor

1. “Process design challenges in biorefineries”, special issue in Journal of Technology Innovations in Renewable Energy, I. Rossetti Ed., Lifescienceglobal, 2015.
2. “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.
3. “Design challenges for catalytic and photocatalytic reactors”, I. Rossetti, Ed., Special issue in Catalysts, MDPI, 2017. Impact factor: 3.082.
4. “Catalytic, photocatalytic and electrocatalytic processes for the valorisation of CO<sub>2</sub>”, I. Rossetti, G. Ramis, Eds., Special issue in Catalysts, MDPI, 2018. Impact factor: 3.082.
5. “Catalysis for a Cleaner and sustainable future”, special issue in Topics in Catalysis, I. Rossetti, Ed., 2018. Impact factor: 2.486.

##### Book Chapters, invited reviews, editorials



1. "A new method for preparing nanometer-size perovskitic catalysts for CH<sub>4</sub> 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-Garcia, Eds., Wiley, 2007, p.563-602.
3. "ABO<sub>3</sub> 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 H<sub>2</sub> storage: application to mobile Fuel Cell systems.", I. Rossetti, *Micro and Nanosystems*, invited review, 3 (2011) 331. Times cited: 2
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. Signoretto, 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.
21. "Continuous flow (micro-)reactors for heterogeneously catalyzed reactions: main design and modelling issues", I. Rossetti, *invited review, Catalysis Today*, 308 (2018) 20-31. Impact factor: 4.667.

#### Papers

1. "Carbon-supported promoted Ru catalyst for ammonia synthesis", L. Forni, D.

- Molinari, I. Rossetti, N. Pernicone, *Appl. Catal. A: General*, 185 (1999) 269. Impact factor: 1.557.
2. "Perovskite catalysts for the catalytic flameless combustion of methane. Preparation by flame-hydrolysis and characterisation by TPD-TPR-MS and EPR", R. Leanza, I. Rossetti, L. Fabbrini, C. Oliva, L. Forni, *Appl. Catal. B: Environmental*, 28 (2000), p. 55. Impact factor: 3.026.
  3. "Promoters effect in Ru/C ammonia synthesis catalyst", I. Rossetti, N. Pernicone, L. Forni, *Appl. Catal. A: General*, 208 (2001) 271. Impact factor: 2.258.
  4. "Study of Fe/Silicalite catalyst for the N<sub>2</sub>O oxidation of benzene to phenol", R. Leanza, I. Rossetti, I. Mazzola, L. Forni, *Appl. Catal. A: General*, 205 (2001), p. 93. Impact factor: 2.258.
  5. "Catalytic flameless combustion of methane over perovskites prepared by flame hydrolysis", I. Rossetti and L. Forni, *Appl. Catal. B: Environmental*, 33 (2001), p. 345. Impact factor: 3.643.
  6. "Evolution of extraframework iron species in Fe-silicalites: 1. Effect of Fe content, activation temperature and interaction with red-ox agents", G. Berlier, G. Spoto, S. Bordiga, G. Ricchiardi, P. Fiscaro, A. Zecchina, I. Rossetti, E. Selli, L. Forni, E. Giamello, C. Lamberti, *J. Catal.*, 208 (2002), p. 64. Impact factor: 3.118.
  7. "Catalytic combustion of hydrocarbons over perovskites", L. Forni and I. Rossetti, *Appl. Catal. B: Environmental*, 38 (2002), p. 29. Impact factor: 3.866.
  8. "Morphological and structural features of activated Fe-silicalites: a <sup>129</sup>Xe-NMR and EPR investigation", S. Faggian, P. Fiscaro, E. Giamello, R. Gobetto, A. Viale, G. Berlier, C. Lamberti, I. Rossetti, *Journal of Physical Chemistry B*, 107 (2003) 8922. Impact factor: 3.679.
  9. "Characterisation by oxygen chemisorption of Ru/C catalysts for ammonia synthesis", Ilenia Rossetti, Nicola Pernicone and Lucio Forni, *Appl. Catal. A: General*, 248 (2003) 97. Impact factor: 2.825.
  10. "Effect of primer on honeycomb-supported La<sub>0.9</sub>Ce<sub>0.1</sub>CoO<sub>3</sub> perovskite for methane catalytic flameless combustion", Laura Fabbrini, Ilenia Rossetti and Lucio Forni, *Appl. Catal. B: Environmental*, 44 (2003) 107. Impact factor: 3.476.
  11. "Activity and deactivation of Fe-MFI catalysts for benzene hydroxylation to phenol by N<sub>2</sub>O", D. Meloni, R. Monaci, V. Solinas, G. Berlier, S. Bordiga, I. Rossetti, C. Oliva and L. Forni, *J. Catal.*, 214 (2003) 169. Impact factor: 3.276.
  12. "Wustite as a new precursor of industrial ammonia synthesis catalyst", N. Pernicone, F. Ferrero, I. Rossetti, L. Forni, P. Canton, P. Riello, G. Fagherazzi, M. Signoretto, F. Pinna, *Appl. Catal. A: General*, 251(1) (2003) 121. Impact factor: 2.825.
  13. "Effect of surface acidity on the behaviour of Fe-MFI catalysts for benzene hydroxylation to phenol", E. Selli, I. Rossetti, D. Meloni, F. Sini, L. Forni, *Appl. Catal. A: general*, 262(2) (2004) 131. Impact factor: 2.378.
  14. "Effect of preparation method on activity and stability of LaMnO<sub>3</sub> and LaCoO<sub>3</sub> catalysts for the flameless combustion of methane", E. Campagnoli, A. Tavares, L. Fabbrini, I. Rossetti, Yu. A. Dubitski, A. Zaopo, L. Forni, *Appl. Catal. B: Environm.*, 55(2) (2005) 133. Impact factor: 3.809. (Articolo in collaborazione con Pirelli Labs SpA).
  15. "Effect of preparation parameters on SrTiO<sub>3</sub> catalysts for the flameless combustion of methane", C. Oliva, L. Bonoldi, S. Cappelli, L. Fabbrini, I. Rossetti, L. Forni, *J. Molec. Catal. A: Chemical*, 226(1) (2005) 33. Impact factor: 2.348.
  16. "La<sub>2</sub>O<sub>3</sub> as primer for supporting La<sub>0.9</sub>Ce<sub>0.1</sub>CoO<sub>3</sub> on cordieritic honeycombs", L. Fabbrini, I. Rossetti, L. Forni, *Appl. Catal. B: Environm.*, 56(3) (2005) 221. Impact factor: 3.809.
  17. "Graphitised carbon as support for Ru/C ammonia synthesis catalyst", I. Rossetti, N. Pernicone, L. Forni, *Catal. Today*, 102-103 (2005) 219. Impact factor: 2.365.
  18. "Effect of Ru loading and of Ru precursor in Ru/C catalysts for ammonia synthesis", I. Rossetti and L. Forni, *Appl. Catal. A: General*, 282(1-2) (2005) 315. Impact factor: 2.728.
  19. "Sr<sub>1-x</sub>Ag<sub>x</sub>TiO<sub>3±δ</sub> (x = 0, 0.1) perovskite-structured catalysts for the flameless combustion of methane", L. Fabbrini, A. Kryukov, S. Cappelli, G.L. Chiarello, I. Rossetti, C. Oliva, L. Forni, *J. Catal.*, 232(2) (2005) 247. Impact factor: 4.780.
  20. "Study of the deactivation of a commercial catalyst for ethylbenzene dehydrogenation to styrene", I. Rossetti, E. Bencini, L. Trentini and L. Forni, *Appl. Catal. A: General*, 292 (2005) 118. Impact factor: 2.728. (Articolo in collaborazione con Polimeri Europa SpA).
  21. "Flame-spray pyrolysis preparation of perovskites for methane catalytic combustion", G.L. Chiarello, I. Rossetti, L. Forni, *J. Catal.*, 236(2) (2005) 251. Impact factor: 4.780.
  22. "Ce- and Sr-doped LaCo<sub>1-y</sub>FeyO<sub>3</sub> catalysts for the flameless combustion of methane", E. Campagnoli, A. Tavares, L. Fabbrini, I. Rossetti, Yu. A. Dubitskiy, A. Zaopo, L. Forni, *J. Mater. Sci.*, 41(15) (2006) 4713. Impact factor: 0.999. (Articolo in collaborazione con Pirelli Labs SpA).
  23. "Effect of honeycomb supporting on activity of LaBO<sub>3±δ</sub> perovskite-like catalysts for

- methane flameless combustion”, L. Fabbrini, I. Rossetti, L. Forni, Appl. Catal. B: Environmental, 63 (1-2) (2006) 131. Impact factor: 3.942.
24. “Effect of M ion oxidation state in Sr<sub>1-x</sub>MxTiO<sub>3±□</sub> perovskites in methane catalytic flameless combustion”, C.Oliva, S.Cappelli, I.Rossetti, A.Kryukov, L.Bonoldi and L.Forni, J. Molec. Catal. A: Chemical, 245 (2006) 55. Impact factor: 2.511.
25. “Preparation by flame-spray pyrolysis of ABO<sub>3±□</sub> catalysts for the flameless combustion of methane”, G.L. Chiarello, I. Rossetti, P. Lopinto, G. Migliavacca, L. Forni, Catal. Today, 117(4) (2006) 549. Impact factor: 2.148.
26. “Kinetic study of ammonia synthesis on a promoted Ru/C catalyst”, I. Rossetti, N. Pernicone, F. Ferrero, L. Forni, Ind. Eng. Chem. Res., 45(12) (2006) 4150. Impact factor: 1.518.
27. “Methylation of phenol with methanol over high silica beta zeolite. Effect of zeolite acidity and crystal size on catalyst behaviour”, Monica Bregolato, Vera Bolis, Claudia Busco, Piero Ugliengo, Silvia Bordiga, Fabrizio Cavani, Nicola Ballarini, Luca Maselli, Sauro Passeri, Ilenia Rossetti, Lucio Forni, J. Catal., 245(2) (2007) 285. Impact factor: 4.737.
28. “Solvent nature effect in preparation of perovskites by flame pyrolysis. 1. Carboxylic acids”, G.L. Chiarello, I. Rossetti, P. Lopinto, G. Migliavacca, L. Forni, Appl. Catal. B: Environmental, 72 (2007) 218. Impact factor: 4.651.
29. “Solvent nature effect in preparation of perovskites by flame pyrolysis. 2. Alcohols and alcohols + propionic acid mixtures”, G.L. Chiarello, I. Rossetti, P. Lopinto, G. Migliavacca, L. Forni, Appl. Catal. B: Environmental, 72 (2007) 227. Impact factor: 4.651.
30. “Promoters state and catalyst activation during ammonia synthesis over Ru/C”, I. Rossetti, F. Mangiarini, L. Forni, Appl. Catal. A: General, 323 (2007) 219. Impact factor: 3.166.
31. “A photocatalytic water splitting device for separate hydrogen and oxygen evolution”, E. Selli, G.L. Chiarello, E. Quartarone, P. Mustarelli, I. Rossetti and L. Forni, Chem. Comm., (2007) 5022. Impact factor: 5.141.
32. “V<sub>2</sub>O<sub>5</sub>-SiO<sub>2</sub> systems prepared by flame-pyrolysis as catalysts for the oxidative dehydrogenation of propane”, I. Rossetti, L. Fabbrini, N. Ballarini, C. Oliva, F. Cavani, A. Cericola, B. Bonelli, M. Piumetti, E. Garrone, H. Dyrbeck, E.A. Blekkan, L. Forni, J. Catal., 256 (2008) 45. Impact factor: 5.167.
33. “V-Al-O catalysts prepared by flame pyrolysis for the oxidative dehydrogenation of propane to propene”, I. Rossetti, L. Fabbrini, N. Ballarini, C. Oliva, F. Cavani, A. Cericola, B. Bonelli, M. Piumetti, E. Garrone, H. Dyrbeck, E.A. Blekkan, L. Forni, Catal. Today, 141 (2009) 271. Impact factor: 3.526.
34. “Effect of sulphur poisoning on perovskite catalysts prepared by flame pyrolysis”, I.Rossetti, O. Buchneva, C. Biffi and R. Rizza, Appl. Catal. B: Environmental, 89 (2009) 383. Impact factor: 5.252.
35. “Hydrocracking of long chain linear paraffins”, I. Rossetti, C. Gambaro, V. Calemma, Chem. Eng. J., 154 (2009) 295. Impact factor: 2.816.
36. “EPR enlightened physico chemical fundamentals of propane ODH over V<sub>2</sub>O<sub>5</sub>-SiO<sub>2</sub> and V<sub>2</sub>O<sub>5</sub>-Al<sub>2</sub>O<sub>3</sub>”, C. Oliva, S. Cappelli, I. Rossetti, N. Ballarini, F. Cavani, L. Forni, Chem. Eng. J., 154 (2009) 131. Impact factor: 2.816.
37. “La-Ag-Co perovskites for the catalytic flameless combustion of methane”, O. Buchneva, I. Rossetti, C. Biffi, M. Allieta, A. Kryukov, N. Lebedeva, Appl. Catal. A: General, 370 (2009) 24. Impact factor: 3.564.
38. “From biomass to energy: H<sub>2</sub> based technology from bioethanol”, I. Rossetti, C. Biffi, G. Faita, M. Raimondi, G.F. Tantardini, L. Forni, Proceedings of the 17th European Biomass Conference & Exhibition, “From Research to Industry and Markets”, Hamburg, Germany, 29 June - 3 July 2009, p. 2194.
39. “Prospettive della cogenerazione di energia da bioetanolo”, Cesare Biffi, Ilenia Rossetti, Gian Franco Tantardini, Giuseppe Faita, Mario Raimondi, Lucio Forni, La Rivista dei Combustibili e dell’Industria Chimica, 64(1) (2010) 44.
40. “Oxygen non-stoichiometry in perovskitic catalysts: impact on activity for the flameless combustion of methane”, I. Rossetti, C. Biffi, L. Forni, Chem. Eng. J., 162 (2010) 768. Impact factor: 3.074.
41. “Au on MgAl<sub>2</sub>O<sub>4</sub> spinels: The effect of support surface properties in glycerol oxidation”, A. Villa, A. Gaiassi, I. Rossetti, C.M. Bianchi, G.M. Veith, L. Prati, J. Catal., 275 (2010) 108. Impact factor: 5.415.
42. “Integrated 5 kW<sub>el</sub> + 5 kW<sub>th</sub> PEM-FC generator from bioethanol: a demonstrative project”, Ilenia Rossetti, Cesare Biffi, Lucio Forni, Gian Franco Tantardini, Giuseppe Faita, Mario Raimondi, Edoardo Vitto, Davide Alberti, Proceedings of the ASME 2010 Eight International Fuel Cell Science, Engineering and Technology Conference, FuelCell2010, June 14-16, 2010, Brooklyn, New York, USA, 2 (2010) 465.
43. “Effective Ag doping and resistance to sulphur poisoning of La-Mn perovskites for the catalytic flameless combustion of methane”, O. Buchneva, I. Rossetti, C. Oliva, M. Scavini, S.



- Cappelli, B. Sironi, M. Allieta, A. Kryukov, L. Forni, J. Mater. Chem., 20 (2010) 10021. Impact factor: 5.101.
44. "H<sub>2</sub> production by steam reforming of bioethanol", C. Biffi and I. Rossetti, Catalysis in Industry, 6 (2011) 66.
45. "Effect of vanadium dispersion and support properties on the catalytic activity of V-SBA-15 and V-MCF mesoporous materials prepared by direct synthesis", M. Piumetti, B. Bonelli, P. Massiani, S. Dzwigaj, I. Rossetti, S. Casale, L. Gaberova, M. Armandi, E. Garrone, Catal. Today, 176 (2011) 458. Impact factor: 3.407.
46. "EXAFS-XANES evidence of in operando Caesium reduction in Cs-Ru/C catalysts for ammonia synthesis", I. Rossetti, L. Sordelli, P. Ghigna, S. Pin, M. Scavini, L. Forni, Inorganic Chemistry, 50 (2011) 3757. Impact factor: 4.601.
47. "7th International Symposium on Group Five Elements (Riccione, 8-11 may, 2011).", Ilenia Rossetti, Anna Raspolli Galletti, Guido Busca, La Chimica e l'Industria, 93(9) (2011) 66.
48. "5 KWE + 5 KWT PEM-FC generator from bioethanol: Fuel processor and development of new reforming catalysts", Proceedings ASME 2011 9th International Conference on Fuel Cell Science, Engineering and Technology. FUELCELL 2011, Washington, DC, 2011, p.47-53.
49. "Effect of vanadium dispersion and of support properties on the catalytic activity of V-containing silicas", Marco Piumetti, Barbara Bonelli, Pascale Massiani, Stanislaw Dzwigaj, Ilenia Rossetti, Sandra Casale, Marco Armandi, Cyril Thomas, Edoardo Garrone, Catal. Today, 179 (2012) 140. Impact factor: 2.980.
50. "Perovskite-like catalysts for the catalytic flameless combustion of methane", O. Buchneva, I. Rossetti, A. Kryukov, Catalysis in Industry, 1 (2012) 51.
51. "Ni/SiO<sub>2</sub> and Ni/ZrO<sub>2</sub> catalysts for the steam reforming of bioethanol", Ilenia Rossetti, Cesare Biffi, Claudia Bianchi, Valentina Nichele, Michela Signoretto, Federica Menegazzo, Elisabetta Finocchio, Gianguido Ramis, Alessandro Di Michele, Appl. Catal. B: Environmental, 117-118 (2012) 384. Impact factor: 5.825.
52. "5 kW<sub>el</sub> + 5 kW<sub>th</sub> PEM-FC generator from bioethanol: fuel processor and development of new reforming catalysts", Ilenia Rossetti, Cesare Biffi, Gian Franco Tantardini, Mario Raimondi, Edoardo Vitto, Davide Alberti, Int. J. Hydrogen Energy, 37(12) (2012) 8499. Impact factor: 3.548.
53. "Vanadium-containing catalysts for oxidation reactions", M. Piumetti, E. Garrone, F. Cavani, I. Rossetti, B. Bonelli, Chemistry Today, 30 (2012) 29. NB: 6th position obtained in Chimica Oggi/Chemistry Today competition. Impact factor: 0.539.
54. "EPR analysis of La<sub>1-x</sub>M<sub>x</sub>MnO<sub>3+y</sub> (M=Ce, Sr) perovskite-like nanostructured ceramics", C. Oliva, M. Allieta, M. Scavini, C. Biffi, I. Rossetti, L. Forni, Inorg. Chem., 51 (2012) 8433. Impact factor: 4.593.
55. "Effect of nitrogen-containing impurities on activity of perovskitic catalysts for the catalytic combustion of methane", O. Buchneva, A. Gallo, I. Rossetti, Inorg. Chem., 51 (2012) 11680. Impact factor: 4.593.
56. "Spectroscopic enlightening of the local structure of VO<sub>x</sub> active sites in catalysts for the ODH of propane", I. Rossetti, G.F. Mancini, P. Ghigna, M. Scavini, M. Piumetti, B. Bonelli, F. Cavani, A. Comite, J. Phys. Chem. C, 116 (2012) 22386. Impact factor: 4.814.
57. "Ni catalysts supported over TiO<sub>2</sub>, SiO<sub>2</sub> and ZrO<sub>2</sub> for the steam reforming of glycerol", I. Rossetti, A. Gallo, V. Dal Santo, C.L. Bianchi, V. Nichele, M. Signoretto, E. Finocchio, G. Ramis, G. Garbarino, A. Di Michele, ChemCatChem, 5 (2013) 294. Impact factor: 5.044.
58. "Are Conversion, Selectivity and Yield terms unambiguously defined in the Chemical and Chemical- Engineering terminology?", C. Pirola, I. Rossetti, V. Ragaini, La Chimica & l'industria, 2 (2013), 136.
59. "Redox properties of Co and Cu-based catalysts for the steam reforming of ethanol", E. Finocchio, I. Rossetti, G. Ramis, Int. J. Hydrogen Energy, 38 (2013) 3213. Impact factor: 2.930.
60. "Quantification of "delivered" H<sub>2</sub> by a volumetric method to test H<sub>2</sub> storage materials", I. Rossetti, G. Ramis, Int. J. Hydrogen Energy, 38 (2013) 13309. Impact factor: 2.930.
61. "Oxygen transport in nanostructured lanthanum manganites", I. Rossetti, M. Allieta, C. Biffi, M. Scavini, PCCP, 15 (2013) 16779. Impact factor: 4.198.
62. "Ni/ZrO<sub>2</sub> catalysts in ethanol steam reforming: Inhibition of coke formation by CaO-doping", V. Nichele, M. Signoretto, F. Pinna, F. Menegazzo, I. Rossetti, G. Cruciani, G. Cerrato, A. Di Michele, Appl. Catal. B: Environ., 150-151 (2014) 12-20. Impact factor: 7.435.
63. "Silica and Zirconia supported catalysts for the low-temperature ethanol steam reforming", I. Rossetti, J. Lasso, E. Finocchio, G. Ramis, V. Nichele, M. Signoretto, A. Di Michele, Appl. Catal. B: Environmental, 150-151 (2014) 257-267. Impact factor: 7.435.
64. "Hydrogen production by ethanol steam reforming: effect of the synthesis parameters on the activity of Ni/TiO<sub>2</sub> catalysts", V. Nichele, M. Signoretto, F. Menegazzo, I. Rossetti, G.

- Cruciani, Int. J. Hydrogen Energy, 39 (2014) 4252-4258. Impact factor: 3.313.
65. "TiO<sub>2</sub>-supported catalysts for the steam reforming of ethanol", I. Rossetti, J. Lasso, E. Finocchio, G. Ramis, V. Nichele, M. Signoretto, A. Di Michele, Appl. Catal. A: General, 477 (2014) 42-53. Impact factor: 3.942.
66. "A novel high-pressure photoreactor for CO<sub>2</sub> photoconversion to fuels", I. Rossetti, A. Villa, C. Pirola, L. Prati, G. Ramis, RSC Adv., 4 (2014) 28883. Impact factor: 3.840.
67. "Benzyl Alcohol Oxidation on Carbon-Supported Pd Nanoparticles: Elucidating the Reaction Mechanism", A. Savara, C. E. Chan-Thaw, I. Rossetti, A. Villa, L. Prati, ChemCatChem, 6 (2015) 3464. Impact factor: 4.724.
68. "Bimetallic Ni-Cu catalysts for the low-temperature ethanol steam reforming: importance of metal-support interactions", V. Nichele, M. Signoretto, F. Pinna, E. Ghedini, M. Compagnoni, I. Rossetti, G. Cruciani, A. Di Michele, Catal. Lett., 145 (2015) 549. Impact factor: 2.294.
69. "H<sub>2</sub> Production from Bioethanol and its Use in Fuel-Cells", I. Rossetti, J. Lasso, M. Compagnoni, G. De Guido, L. Pellegrini, Chem. Eng. Trans., 43 (2015) 229.
70. "Hydrogen storage over metal-doped activated carbons", I. Rossetti, G. Ramis, Alessandro Gallo, Alessandro Di Michele, Int. J. Hydrogen Energy, 40 (2015) 7609. Impact factor: 3.205.
71. "Process simulation and optimization for H<sub>2</sub> production from bioethanol and its use in fuel cells. 1 - Thermodynamic and kinetic analysis", I. Rossetti, M. Compagnoni, M. Torli, Chem Eng. J., 281 (2015) 1024-1035. Impact factor: 5.310.
72. "Process simulation and optimization for H<sub>2</sub> production from bioethanol and its use in fuel cells. 2 - Process analysis and optimization", I. Rossetti, M. Compagnoni, M. Torli, Chem Eng. J., 281 (2015) 1036-1044. Impact factor: 5.310.
73. "CO<sub>2</sub> photoconversion to fuels", I. Rossetti, A. Villa, M. Compagnoni, C. Pirola, L. Prati, G. Ramis, W. Wang, D. Wang, Catal. Sci & Technol., 5 (2015) 4481. Impact factor: 5.287.
74. "Flame Spray Pyrolysis Synthesized Co and Co/Ru Based Catalysts for the Thermochemical GTL - Fischer Tropsch Process", A. Comazzi, C. Pirola, M. Compagnoni, F. Galli, S. Cane, I. Rossetti, C.L. Bianchi, DGMK-Tagungsbericht 2015-2, ISBN 978-3-941721-56-2, (2015) (2) 197.
75. "Flame Spray Pyrolysis as new preparation technique for Co and Co/Ru based catalysts for the FT process", A. Comazzi, C. Pirola, A. Di Michele, M. Compagnoni, F. Galli, I. Rossetti, F. Manenti, C.L. Bianchi, Appl. Catal. A: General, 520 (2016) 92. Impact factor: 4.339.
76. "Flame pyrolysis prepared catalysts for the steam reforming of ethanol", M. Compagnoni, J. Lasso F., A. Di Michele, I. Rossetti, Catal. Sci. & Technol., 6 (2016) 6257. Impact factor: 5.773.
77. "Spectroscopic Investigation of Titania Supported Gold Nanoparticles Prepared by a Modified DP Method for the Oxidation of CO", M. Compagnoni, S.A. Kondrat, C.E. Chan-Thaw, D.J. Morgan, D. Wang, L. Prati, A. Villa, N. Dimitratos, I. Rossetti, ChemCatChem, 8 (2016) 2136. Impact factor: 4.803.
78. "Microkinetic Modeling of Benzyl Alcohol Oxidation on Carbon-Supported Pd Nanoparticles", A. Savara, I. Rossetti, C.E. Chan-Thaw, L. Prati, A. Villa, ChemCatChem, 8 (2016) 2582. Impact factor: 4.803. Articolo selezionato per backcover.
79. "Syngas production via steam reforming of bioethanol over Ni-BEA catalysts: a BTL strategy", I. Rossetti, J. Lasso, M. Compagnoni, E. Finocchio, G. Ramis, A. Di Michele, A. Zucchini, S. Dzwigaj, Int. J. Hydrogen Energy, 41 (2016) 16878. Impact factor: 3.582.
80. "Non-destructive method for the identification of ceramic production by portable X-rays Fluorescence (pXRF). A case study of amphorae manufacture in central Italy", L. Ceccarelli, I. Rossetti, L. Primavesi, S. Stoddart, J. Archaeological Science, Reports, 10 (2016) 253.
81. "Kinetic modeling and reactor simulation for ethanol steam reforming", A. Tripodi, M. Compagnoni, I. Rossetti, ChemCatChem, 8 (2016) 3804. Impact factor: 4.803.
82. "CO<sub>2</sub> photoreduction at high pressure to both gas and liquid products over commercial titanium dioxide", F. Galli, M. Compagnoni, D. Vitali, C. Pirola, C. Bianchi, A. Villa, L. Prati, I. Rossetti, Appl. Catal. B: Environmental, 200 (2017) 386. Impact factor: 11.698.
83. "Development of unconventional photocatalytic reactors and processes for the abatement of harmful N-containing pollutants", I. Rossetti, M. Compagnoni, G. Ramis, F. Freyria, M. Armandi, B. Bonelli, Chem. Eng. Trans., 57 (2017), 319.
84. "Diluted bioethanol solutions for the production of hydrogen and ethylene", G. Ramis, I. Rossetti, A. Tripodi, M. Compagnoni, Chem. Eng. Trans., 57 (2017), 1663.
85. "Urbanistica, nuove tecnologie energetiche, materiali innovativi ed arte: alla ricerca di una Città Abitabile", D. Meroni, A. Minguzzi, F. Tessore, G.L. Chiarello, A. Amadori, C. Oliva and I. Rossetti, Chimica & Industria, 2017, issue 3 (April), p. 3.
86. "Parametric study and kinetic testing for ethanol steam reforming", M. Compagnoni,

- A. Tripodi, I. Rossetti, *Appl. Catal. B: Environmental*, 203 (2017) 899. Impact factor: 11.698.
87. "Ethylene production from diluted bioethanol solutions", I. Rossetti, M. Compagnoni, G. De Guido, L.A. Pellegrini, G. Ramis, S. Dzwigaj, *Canad. J. Chem. Eng.*, 95 (2017) 1752. Impact factor: 1.265.
88. "Innovative Photoreactors for Unconventional Photocatalytic Processes: the photo-reduction of CO<sub>2</sub> and the photo-oxidation of ammonia", M. Compagnoni, G. Ramis, F. Freyria, M. Armandi, B. Bonelli, I. Rossetti, *Rend. Fis. Acc. Lincei*, 28 (2017) S151. Impact factor: 0.986.
89. "Process simulation of hydrogen production by steam reforming of diluted bioethanol solutions: Effect of operating parameters on electrical and thermal cogeneration by using fuel cells.", A. Tripodi, M. Compagnoni, G. Ramis, I. Rossetti, *Int. J. Hydrogen Energy*, 42 (2017) 23776. Impact factor: 4.229.
90. "Ethylene production via catalytic dehydration of diluted bioethanol: a step towards an integrated biorefinery", I. Rossetti, J. Lasso, M. Compagnoni, E. Finocchio, G. Ramis, A. Di Michele, S. Dzwigaj, *Appl. Catal. B: Environmental*, 210 (2017) 407. Impact factor: 11.698.
91. "Photocatalytic reactors and processes for the abatement of harmful N-containing pollutants from waste and drinking waters", Ilenia Rossetti, Elnaz Bahadori, Matteo Compagnoni, Antonio Tripodi, Gianguido Ramis, *Rend. Fis. Acc. Lincei*, in press. Impact factor: 0.986.
92. "Modelling of continuous reactors for flow chemistry", I. Rossetti, *Chimica Oggi/Chemistry Today*, 35(4) (2017) 8. Impact factor: 0.396.
93. "Alternative Integrated Distillation Strategies for the Purification of Acetonitrile from Ethanol Ammoxidation", A. Tripodi, D. Manzini, M. Compagnoni, G. Ramis, I. Rossetti, *J. Ind. Eng. Chem*, 59 (2018) 35. Impact factor: 4.841.
94. "Pressure-swing or extraction-distillation for the recovery of pure acetonitrile from ethanol ammoxidation process: A comparison of efficiency and cost", A. Tripodi, M. Compagnoni, G. Ramis, I. Rossetti, *Chem. Eng. Res. Des.*, 127C (2017) 92-102. Impact factor: 2.795.
95. "Both pure and Fe doped mesoporous titania catalyse the oxidation of Acid Orange 7 by H<sub>2</sub>O<sub>2</sub> in different experimental conditions", F.S. Freyria, M. Compagnoni, N. Ditaranto, I. Rossetti, M. Piumetti, G. Ramis, B. Bonelli, *Catalysts*, 7 (2017) 213. Impact factor: 3.465.
96. "Low Temperature Ethanol Steam Reforming for process intensification: new Ni/MxO-ZrO<sub>2</sub> active and stable catalysts prepared by Flame Spray Pyrolysis", M. Compagnoni, A. Tripodi, P. Sassi, A. Di Michele, M. Signoretto, I. Rossetti, *Int. J. Hydrogen Energy*, 42 (2017) 28193-28213. Impact factor: 4.229.
97. "Mature vs. Emerging Technologies for CO<sub>2</sub> Capture in Power Plants: Key Open Issues in Post-Combustion Amine Scrubbing and in Chemical Looping Combustion", G. De Guido, M. Compagnoni, L.A. Pellegrini, I. Rossetti, *Frontiers of Chemical Science and Engineering*, 12 (2018) 315. Impact factor: 2.643 (JCR2017).
98. "Integrated plant layout for heat and power cogeneration from diluted bioethanol", A. Tripodi, A. Pizzonia, E. Bahadori, I. Rossetti, *ACS Sust. Chem. & Eng.*, 6 (2018) 5358-5369. Impact factor: 6.14 (JCR2017).
99. "Liquid vs. gas phase CO<sub>2</sub> photoreduction process: which is the effect of reaction medium?", M. Signoretto, A. Olivo, E. Ghedini, M. Compagnoni, I. Rossetti, *Energies*, 10 (2017) 1394. Impact factor: 2.676.
100. "Techno-economic analysis of a bioethanol to hydrogen centralized plant", M. Compagnoni, E. Mostafavi, A. Tripodi, N. Mahinpey, I. Rossetti, *Energy&Fuels*, 31 (11) (2017) 12988-12996. Impact factor: 3.024.
101. "Acetonitrile from bio-ethanol ammoxidation: process design from the grass-roots and life cycle analysis", A. Tripodi, E. Bahadori, D. Cespi, F. Passarini, F. Cavani, T. Tabanelli, I. Rossetti, *ACS Sust. Chem. Eng.*, 6(4) (2018) 5441-5451. Impact factor: 6.14 (JCR2017).
102. "Hydrogen production by photoreforming of organic compounds", I. Rossetti, E. Bahadori, A. Villa, L. Prati, G. Ramis, *J. Technol. Innovations Renewable Energy*, 6 (2017) 71-79.
103. "Hydrogen Production by Steam Reforming of Bio-ethanol: Process Design and Economic Assessment", M. Compagnoni, A. Tripodi, E. Mostafavi, N. Mahinpey, I. Rossetti, *DGMK Tagungsbericht*, Volume 2017, Issue 2, 2017, Pages 5-11.
104. "Photoreduction of nitrates from waste and drinking water", E. Bahadori, M. Compagnoni, A. Tripodi, F. Freyria, M. Armandi, B. Bonelli, G. Ramis, I. Rossetti, *Materials Today, Proceedings*, 5(9) (2018) 17404-17413.
105. "Conceptual design and feasibility assessment of photoreactors for solar energy storage", I. Rossetti, E. Bahadori, M. Compagnoni, A. Tripodi, A. Villa, L. Prati, G. Ramis, *Solar Energy*, 172 (2018) 225-231. Impact factor: 4.374 (JCR2017).
106. "Feasibility assessment and process design for cogeneration of heat and power by steam reforming of diluted bioethanol", A. Tripodi, E. Bahadori, G. Ramis, I. Rossetti, *Int. J.*

- Hydrogen Energy, 44 (2019) 2-22. Impact factor: 4.229 (JCR2017).
107. "Process simulation of ammonia synthesis over optimized Ru/C catalyst and multibed Fe + Ru configurations", A. Tripodi, M. Compagnoni, E. Bahadori and I. Rossetti, J. Ind. Eng. Chem., 66 (2018) 176-186. Impact factor: 4.841 (JCR2017).
108. "Exploiting diluted bioethanol solutions for the production of ethylene: preliminary process design and heat integration", I. Rossetti, A. Tripodi, E. Bahadori, G. Ramis, Chem. Eng. Trans., 65 (2018) 73-78.
109. "Process intensification by exploiting diluted 2nd Generation Bio-ethanol in the Low-Temperature Steam Reforming process", M. Compagnoni, A. Tripodi, E. Bahadori, G. Ramis, I. Rossetti, Topics in Catalysis, 61(18-19) (2018) 1832. Impact factor: 2.439 (JCR 2017).
110. "Steam reforming of ethanol over Ni/MgAl<sub>2</sub>O<sub>4</sub> catalysts", A. Di Michele, A. Dell'Angelo, A. Tripodi, E. Bahadori, F. Sánchez, D. Motta, N. Dimitratos, I. Rossetti, G. Ramis, Int. J. Hydrogen Energy, 44 (2019) 952-964. Impact factor: 4.229 (JCR2017).
111. "New Insights into the role of the synthesis procedure on the performance of Co-based catalysts for ethanol steam reforming", I. Rossetti, G. Ramis, E. Bahadori, B. Bonelli, A. Aronne, S. Esposito, Topics in Catalysis, 61(15-17) (2018) 1734-1745. Impact factor: 2.439 (JCR2017).
112. "Surface probing by spectroscopy on titania-supported gold nanoparticles for a photo-reductive application", M. Compagnoni, A. Villa, E. Bahadori, D.J. Morgan, L. Prati, N. Dimitratos, I. Rossetti, G. Ramis, Catalysts, 8 (2018) 623. Impact factor: 3.465. (JCR2017).
113. "High Pressure CO<sub>2</sub> Photoreduction using Au/TiO<sub>2</sub>: unravelling the effect of the co-catalyst and of the titania polymorph", E. Bahadori, A. Tripodi, A. Villa, C. Pirola, L. Prati, G. Ramis, N. Dimitratos, D. Wang, I. Rossetti, Catal. Sci. & Technol, in press. Impact factor: 5.365 (JCR2017).
114. "High pressure photoreduction of CO<sub>2</sub>: Effect of catalyst formulation, hole scavenger addition and operating conditions", E. Bahadori, A. Tripodi, A. Villa, C. Pirola, L. Prati, G. Ramis, I. Rossetti, Catalysts, 8 (2018) 430. Impact Factor: 3.465 (JCR2017).
115. "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, DGMK-Tagungsbericht 2018-2, ISBN 978-3-941721-87-6, 15-22.
116. "Feasibility assessment of Photoreactors for Water Treatment", I. Rossetti, E. Bahadori, A. Tripodi, G. Ramis, DGMK-Tagungsbericht 2018-2, ISBN 978-3-941721-87-6, 147-154.
117. "Preface for Catalysis for a Cleaner and Sustainable Future", I. Rossetti, Topics in Catalysis, 61 (2018) 1793. Impact factor: 2.439 (JCR 2017).
118. "Structured monolithic catalysts vs. fixed bed for the oxidative dehydrogenation of propane", I. Rossetti, E. Bahadori, A. Tripodi, G. Ramis, Materials, 12 (2019) 884. Impact factor: 2.467 (JCR 2017).

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#### Others

"Wustite as new precursor of industrial ammonia synthesis catalysts.", Pernicone, N.; Ferrero, F.; Rossetti, I.; Forni, L.; Canton, P.; Riello, P.; Fagherazzi, G.; Signoretto, M.; Pinna, F., Zhejiang Gongye Daxue Xuebao (2004), 32(2), 123-130.

#### 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, Energethica, 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 H<sub>2</sub>", 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 gennaio 2019.

#### 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 CH<sub>4</sub> 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 N<sub>2</sub>O 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.
- 11) "Catalizzatori Ru/C per la sintesi dell'ammoniaca", I. Rossetti, N. Pernicone, L. Forni, presentato come poster al 1° SAYCS, Riccione, 18-19 ottobre 2001.
- 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.
- 13) "Fe-Silicalite Catalysts for the N<sub>2</sub>O Oxidation of Benzene to Phenol", R. Monaci, E. Rombi, D. Meloni, V. Solinas, I. Rossetti, L. Forni, presentato come poster al I EURESCO Conference on Isomorphous Substitution of Zeolite Molecular Sieves, Obernai (Strasbourg), 15-22 marzo 2002.
- 14) "Ru/C ammonia synthesis catalyst: effect of Ru loading", I. Rossetti, N. Pernicone and L. Forni, presentato come poster al XIII Congresso Italiano di Catalisi, Alghero, giugno 2002.
- 15) "Effect of primer on honeycomb-supported La<sub>0.9</sub>Ce<sub>0.1</sub>CoO<sub>3±d</sub> perovskite for methane catalytic flameless combustion", Laura Fabbrini, Ilenia Rossetti and Lucio Forni, presentato come poster al XXI Congresso Nazionale della Società Chimica Italiana, SCI 2003, Torino, giugno 2003.
- 16) "Effect of primer on honeycomb-supported La<sub>0.9</sub>Ce<sub>0.1</sub>CoO<sub>3±d</sub> perovskite for methane catalytic flameless combustion", Laura Fabbrini, Ilenia Rossetti and Lucio Forni, presentato come poster al VI Europacat, Innsbruck, settembre 2003.
- 17) "Characterisation by oxygen chemisorption of Ru/C catalysts for ammonia synthesis", Ilenia Rossetti, Nicola Pernicone and Lucio Forni, presentato come poster al VI Europacat, Innsbruck, settembre 2003.
- 18) "Fe-MFI catalysts for benzene hydroxylation to phenol: activity in relation to surface acidity determined by FTIR and calorimetry", E. Selli, I. Rossetti, F. Sini, D. Meloni, L. Forni, presentato come poster al VI Europacat, Innsbruck, settembre 2003.
- 19) N. Pernicone, F. Ferrero, I. Rossetti, L. Forni, P. Canton, P. Riello, G. Fagherazzi, M. Signoretto, F. Pinna, "Wustite as a new precursor of industrial ammonia synthesis catalyst", Proc. EUROPACAT-VI,



Innsbruck, Austria, Aug. 31 - Sept. 4, 2003, Pres. B3-085.

- 20) "Catalytic combustion of methane on  $\text{LaBO}_3$  ( $B=\text{Mn, Co}$ ): Effect of catalyst preparation route", L. Fabbri, E. Campagnoli, A. Tavares, I. Rossetti, Yu.A. Dubitsky, A. Zaopo and L. Forni, presentato come poster al XIV Congresso Italiano di Catalisi (GIC2004), Lerici, giugno 2004.
- 21) "La<sub>2</sub>O<sub>3</sub> primer for honeycomb supporting of  $\text{La}_0.9\text{Ce}_0.1\text{CoO}_3$ ", L. Fabbri, I. Rossetti, L. Forni, presentato oralmente al XIV Congresso Italiano di Catalisi (GIC2004), Lerici, giugno 2004.
- 22) "Metal loading and Ru precursor effect in Ru/C catalyst for ammonia synthesis", I. Rossetti, N. Pernicone, L. Forni, presentato oralmente al XIV Congresso Italiano di Catalisi (GIC2004), Lerici, giugno 2004.
- 23) "La<sub>1-x</sub>AxCoO<sub>3</sub> perovskite catalysts prepared by flame hydrolysis for NO reduction by CO", L. Fabbri, F. Navarrini, I. Rossetti and L. Forni, presentato come poster al 13° Congresso Internazionale di Catalisi (ICC2004), Parigi, luglio 2004.
- 24) "Effect of Ru loading and of Ru precursor in Ru/C catalysts for ammonia synthesis", I. Rossetti, N. Pernicone, L. Forni, presentato come poster al 13° Congresso Internazionale di Catalisi (ICC2004), Parigi, luglio 2004.
- 25) "La<sub>2</sub>O<sub>3</sub> as primer for  $\text{La}_0.9\text{Ce}_0.1\text{CoO}_3$  supporting on cordieritic honeycomb", L. Fabbri, I. Rossetti, L. Forni, presentato come poster al 13° Congresso Internazionale di Catalisi (ICC2004), Parigi, luglio 2004.
- 26) "Graphitised carbon as support for Ru/C ammonia synthesis catalyst", I. Rossetti, N. Pernicone, L. Forni, presentato come poster al CARBOCAT-2004, Losanna, luglio 2004.
- 27) "An EPR study of some SrTiO<sub>3</sub> samples and their properties", C. Oliva, S. Cappelli, L. Fabbri, I. Rossetti, A. Kryukov, L. Forni, 37th Annual Intern. Meeting ESR of RSC, Warwick (UK), 2004.
- 28) "Kinetic study of ammonia synthesis over Ru/C catalyst", I. Rossetti, F. Ferrero, N. Pernicone, L. Forni, presentato come poster al 19th NAM, Philadelphia, maggio 2005.
- 29) "Mechanism of methane catalytic flameless combustion over  $\text{Sr}_0.9\text{MO}_3$  ( $M=\text{K, Gd}$ )", S. Cappelli, I. Rossetti, C. Oliva, L. Forni, presentato come poster al VIII Seminario di Catalisi, Verbania, giugno 2005.
- 30) "Synthesis by flame pyrolysis of perovskite catalysts for the flameless combustion of methane", G.L. Chiarello, I. Rossetti, L. Forni, presentato come poster al VIII Seminario di Catalisi, Verbania, giugno 2005.
- 31) "A new flame-spray-pyrolysis method for the preparation of mixed oxides perovskitic catalysts", G.L. Chiarello, I. Rossetti, L. Forni, presentato oralmente al XIV Congr. Div. Chim. Ind. S.C.I., Verbania, giugno 2005.
- 32) "Sr<sub>1-x</sub>Ag<sub>x</sub>TiO<sub>3</sub> ( $x = 0, 0.1$ ) perovskite-structured catalysts for the flameless combustion of methane", L. Fabbri, A. Kryukov, S. Cappelli, G.L. Chiarello, I. Rossetti, C. Oliva and L. Forni, presentato oralmente al Europacat-VII, Sofia, Agosto 2005.
- 33) "Kinetic study of ammonia synthesis over Ru/C catalyst", N. Pernicone, F. Ferrero, I. Rossetti, L. Forni, presentato come poster al Europacat-VII, Sofia, Agosto 2005.
- 34) "ABO<sub>3</sub> catalysts for the flameless combustion of methane: effect of preparation parameters by flame spray pyrolysis", G.L. Chiarello, I. Rossetti, L. Forni, presentato oralmente al IWCC-6, Ischia, Settembre 2005.
- 35) "Effect of preparation parameters on activity of La<sub>1-x</sub>Ce<sub>x</sub>CoO<sub>3</sub> perovskites for energy production by the catalytic flameless combustion of methane", C. Oliva, G.L. Chiarello, S. Cappelli, I. Rossetti, A. Kryukov, L. Forni, presentato come poster al 17th CHEMREACTOR, Atene, maggio 2006.
- 36) "Kinetic study of ammonia synthesis over Ru/C catalyst", I. Rossetti, F. Ferrero, N. Pernicone, L. Forni, presentato come poster al 17th CHEMREACTOR, Atene, maggio 2006.
- 37) "Characterisation of fatty acids turbulent flames for the synthesis of perovskitic catalysts", P. Lopinto, F. Hugony, P. Comotti, G. Migliavacca, S. Marengo, I. Rossetti, G.L. Chiarello, L. Forni, presentato oralmente al 29° meeting della sezione italiana dell'Institute of Combustion, Pisa, giugno 2006
- 38) "Solvent nature effect in preparation of perovskites by flame pyrolysis", G.L. Chiarello, I. Rossetti, L. Forni, presentato come poster al IDECAT Meeting, Sesto Fiorentino, Novembre 2006.
- 39) "Promoters state and activation of Ru/C catalyst for ammonia synthesis", I. Rossetti, F. Mangiarini, L. Forni, presentato oralmente al XV Congresso Nazionale di Catalisi, GIC2007, Tirrenia, giugno 2007.
- 40) "Propane ODH over V-Al-O catalysts prepared by flame-pyrolysis", L. Fabbri, I. Rossetti, C. Oliva, L. Forni, H. Dyrbeck, E.A. Blekkan, N. Ballarini, F. Cavani, A. Cericola, presentato oralmente al XV Congresso Nazionale di Catalisi, GIC2007, Tirrenia, giugno 2007.
- 41) "Oxygen-based ferromagnetic systems and catalytic activity of  $\text{La}_0.9\text{Pr}_0.1\text{CoO}_3$ : an EMR investigation", C. Oliva, S. Cappelli, A. Kryukov, G.L. Chiarello, I. Rossetti, A.V. Vishniakov, L. Forni, presentato oralmente al XV Congresso Nazionale di Catalisi, GIC2007, Tirrenia, giugno 2007.
- 42) "Hydrogen production by photocatalytic water splitting on semiconductor oxides", G.L. Chiarello, L. Forni, I. Rossetti, E. Selli, presentato come poster al XV Congresso Nazionale di

Catalisi, GIC2007, Tirrenia, giugno 2007.

- 43) "Solvent nature effect in preparation of perovskites by flame pyrolysis" Ilenia Rossetti, Gian Luca Chiarello, Lucio Forni, presentato come poster al Europact VIII, Turku, agosto 2007.
- 44) "Methylation of phenol over high-silica H-BEA zeolites. Effect of catalyst characteristics on catalytic performance", N. Ballarini, V. Bolis, S. Bordiga, M. Bregolato, C. Busco, F. Cavani, L. Forni, L. Maselli, S. Passeri, I. Rossetti, P. Ugliengo, presentato come poster al Europact VIII, Turku, agosto 2007.
- 45) "Photocatalytic water splitting on different oxide-based systems", Gian Luca Chiarello, Lucio Forni, Ilenia Rossetti, Elena Selli, presentato come poster al Europact VIII, Turku, agosto 2007.
- 46) "Oxidative dehydrogenation of propane over V-Al-O catalysts prepared by flame-pyrolysis", L. Fabbrini, I. Rossetti, C. Oliva, L. Forni, H. Dyrbeck, E.A. Blekkan, N. Ballarini, F. Cavani, A. Cericola, presentato come poster al Europact VIII, Turku, agosto 2007.
- 47) "Photocatalytic H<sub>2</sub> production from water splitting on one step flame synthesised TiO<sub>2</sub> and Au/TiO<sub>2</sub>", E. Selli, G.L. Chiarello, I. Rossetti, L. Forni, presentato oralmente al XXXVI congresso nazionale di Chimica Fisica, Gallipoli 2007.
- 48) "Ferromagnetic systems forming in La<sub>0.9</sub>M<sub>0.1</sub>CoO<sub>3</sub> (M=Ce; Pr) and catalytic performance in the catalytic flameless combustion of methane: an EMR investigation", C.Oliva, S.Cappelli, A.Kryukov, G.L.Chiarello, I.Rossetti, M.Scavini, A.V.Vishniakov, L.Forni, GIRSE-ARPE First Joint Meeting XX Anniversary of GIRSE, Vietri sul Mare (Sa), 2007.
- 49) "Physico-chemical characterization of redox catalysts for oxidative dehydrogenation of propane", M. Piumetti, B. Bonelli, I. Rossetti, N. Ballarini, F. Cavani, L. Forni, E. Garrone, presentato oralmente al XXXVII Congresso Nazionale di Chimica Fisica, Camogli (Italy), 24-29 Febbraio 2008, pp. 37.
- 50) "An improved industrial catalyst for the dehydrogenation of ethylbenzene to styrene", L. Forni, I. Rossetti and N. Pernicone, presentato come poster al 14° International Congress on Catalysis, Seoul, 2008.
- 51) "EPR enlightening of the properties of V<sub>2</sub>O<sub>5</sub>- SiO<sub>2</sub> and of V<sub>2</sub>O<sub>5</sub>-Al<sub>2</sub>O<sub>3</sub> catalysts for oxidative dehydrogenation of propane to propylene", C.Oliva, S.Cappelli, I.Rossetti, N.Ballarini, F.Cavani, L.Forni, presentato come poster al 41st Annual International Meeting of the ESR Group of the RSC: "Advanced Techniques and Applications of EPR", University College London, 6-10 Aprile 2008.
- 52) "Sulphur poisoning of perovskitic catalysts during catalytic combustion of methane", I. Rossetti, O. Buchneva, R. Rizza, C. Biffi, L. Forni, accettato per presentazione poster al XVII Congresso della Div. Di Chimica Ind.le della SCI, Genova, giugno 2008.
- 53) "Oxidative dehydrogenation of propane over V<sub>2</sub>O<sub>5</sub>/TiO<sub>2</sub>-SiO<sub>2</sub> Catalysts", G. Carotenuto, M. Di Serio, I. Rossetti, M. Tesser, E. Santacesaria, accettato per presentazione poster al XVII Congresso della Div. Di Chimica Ind.le della SCI, Genova, giugno 2008.
- 54) "Hydrocracking of long chain linear paraffins", I. Rossetti, M. Bos, C. Gambaro, V. Calemma, L. Forni, accettato per presentazione orale al XVIII CHEMREACTOR, Malta, settembre 2008. (In collaborazione con ENI SpA).
- 55) "EPR enlightened physico-chemical fundamentals of propane ODH over V<sub>2</sub>O<sub>5</sub>-SiO<sub>2</sub> and V<sub>2</sub>O<sub>5</sub>-Al<sub>2</sub>O<sub>3</sub>", C.Oliva, S.Cappelli, I. Rossetti, N.Ballarini, F.Cavani, L. Forni, accettato per presentazione poster al XVIII CHEMREACTOR, Malta, settembre 2008.
- 56) "EPR analysis of La<sub>1-x</sub>M<sub>x</sub>MnO<sub>3+y</sub> (M=Ce, Sr) perovskitic catalysts for methane oxidation.", C.Oliva, S.Cappelli, C.Biffi, I.Rossetti, L.Forni, accettato per presentazione poster al GIRSE08, IX Convegno Nazionale GIRSE, Giovinazzo (BA) 27-30 Settembre 2008.
- 57) "Investigation of the relationship between the physico-chemical properties of vanadium-based catalysts and their catalytic performance in the ODH of propane", M. Piumetti, B. Bonelli, I. Rossetti, N. Ballarini, F. Cavani, L. Forni, E. Garrone, accettato per presentazione poster al ABC-6 - 6th World Congress on Catalysis by Acids and Bases, Genova, Maggio 2009.
- 58) "From biomass to energy: H<sub>2</sub>-based technology from bioethanol", I. Rossetti, L. Forni, G.F. Tantardini, G. Faita, M. Raimondi, accettato per presentazione poster al 17th European Biomass Conference and Exhibition, Amburgo, 29 giugno-3 luglio 2009.
- 59) "Ag-doped perovskites for the catalytic flameless combustion of methane", O. Buchneva, I. Rossetti, C. Biffi, A. Kruk, N. Lebedeva, accettato per presentazione orale al XXIII Congresso Nazionale della Società Chimica Italiana, Sorrento, 5-10 luglio 2009.
- 60) "Hydrocracking of long chain linear paraffins", I. Rossetti, M. Bos, C. Gambaro, V. Calemma, accettato per presentazione poster al IX Europact, Salamanca, 30 agosto - 4 settembre 2009.
- 61) "Effect of sulphur poisoning on perovskite-like catalysts prepared by flame-pyrolysis", I. Rossetti, O. Buchneva, C. Biffi, accettato per presentazione poster al IX Europact, Salamanca, 30 agosto - 4 settembre 2009.
- 62) "Electric and thermal energy co-generation from renewable primary sources", C. Biffi, I. Rossetti, L. Forni, accettato per presentazione poster al "International Summer School on Molecular

- and Supramolecular Approach to Nano-Designed Catalysts with industrial relevance”, Trondheim, Norvegia, 21-26 giugno 2009.
- 63) “Electric and thermal energy co-generation from renewable primary sources”, C. Biffi, I. Rossetti, L. Forni, accettato per presentazione poster al “PCAM School 2009 - Chemistry and Physics of Materials for Energetics”, Milano-Bicocca, settembre 2009.
- 64) “Ag-doped perovskites for CH<sub>4</sub> catalytic combustion”, O. Buchneva, I. Rossetti, A. Kryukov, N. Lebedeva, accettato per presentazione poster al “PCAM School 2009 - Chemistry and Physics of Materials for Energetics”, Milano-Bicocca, settembre 2009.
- 65) “Studio di catalizzatori perovskitici di composizione La<sub>1-x</sub>Ag<sub>x</sub>MnO<sub>3</sub>, per la combustione senza fiamma del metano”, B. Sironi, M. Allieta, O. Buchneva, S. Cappelli, I. Rossetti, C. Oliva, V Scuola Nazionale di EPR, Firenze, settembre 2009.
- 66) “Integrated 5 kW<sub>e</sub> + 5 kW<sub>t</sub> PEM-FC generator from bioethanol: a demonstrative project”, I. Rossetti, C. Biffi, L. Forni, G.F. Tantardini, G. Faita, M. Raimondi, D. Alberti, E. Vitto, accettato per presentazione orale al Fuel Cell 2010, Brooklyn, 14-16 giugno 2010.
- 67) “H<sub>2</sub> production by steam reforming of bioethanol”, I. Rossetti, C. Biffi, G.F. Tantardini, L. Forni, accettato per presentazione orale al International Conference Catalysis for Renewable Sources: Fuel, Energy, Chemicals, Tsars Village, St. Petersburg suburb, Russia, 28 giugno - 2 luglio 2010.
- 68) “Effect of Ag-doping in La-Mn perovskites for the catalytic flameless combustion of methane”, O. Buchneva, I. Rossetti, A. Kryukov, L. Forni, accettato per presentazione orale al International Conference Catalysis for Renewable Sources: Fuel, Energy, Chemicals, Tsars Village, St. Petersburg suburb, Russia, 28 giugno - 2 luglio 2010.
- 69) “La<sub>1-x</sub>M<sub>x</sub>MnO<sub>3</sub> perovskite-like catalysts for methane flameless combustion: XRPD-Rietveld and EPR characterisation”, C. Oliva, M. Scavini, I. Rossetti, S. Cappelli, M. Allieta, B. Sironi, O. Buchneva, L. Forni, accettato per presentazione poster al International Conference Catalysis for Renewable Sources: Fuel, Energy, Chemicals, Tsars Village, St. Petersburg suburb, Russia, 28 giugno - 2 luglio 2010.
- 70) “Physico-chemical and catalytic properties of vanadium-containing mesoporous materials prepared by direct synthesis.”, Marco Piumetti, Barbara Bonelli, Pascale Massiani, Lucia Gaberova, Stanislaw Dzwigaj, Marco Armandi, Edoardo Garrone, Ilenia Rossetti, accettato per presentazione poster al 2nd International Symposium APAC2010, Cracovia, Polonia, 8-11 settembre 2010.
- 71) “H<sub>2</sub> production by steam reforming of bioethanol”, C. Biffi, I. Rossetti, G.F. Tantardini, L. Forni, accettato per presentazione orale XVI Congresso Nazionale di Catalisi, GIC2010, 19-23 settembre 2010.
- 72) “La<sub>2</sub>O<sub>3</sub>-supported catalysts for the steam reforming of bioethanol”, C. Biffi, I. Rossetti, G.F. Tantardini, L. Forni, accettato per presentazione poster alla Scuola Nazionale di Catalisi, Scuola GIC2010, 15-18 settembre 2010.
- 73) “Activity and resistance to sulphur and nitrogen poisoning of Ag-doped perovskite catalysts for the catalytic combustion of CH<sub>4</sub>”, I. Rossetti, O. Buchneva, M. Allieta, S. Cappelli, M. Scavini, C. Oliva, accettato per presentazione orale XVI Congresso Nazionale di Catalisi, GIC2010, 19-23 settembre 2010.
- 74) “Effective Ag doping and resistance to sulphur poisoning of La-Mn perovskites for the catalytic flameless combustion of methane”, O. Buchneva, I. Rossetti, C. Oliva, M. Scavini, M. Allieta, accettato per presentazione poster al XXXIX Congresso Nazionale di Chimica Fisica, CF2010, 20-24 settembre 2010.
- 75) “V-containing SBA-15 and MCF prepared by direct synthesis as catalysts of oxidation reactions”, Marco Piumetti, Barbara Bonelli, Pascale Massiani, Stanislaw Dzwigaj, Ilenia Rossetti, Lucia Gaberova, Sandra Casale, Edoardo Garrone, , accettato per presentazione orale al 22nd NAM, Detroit, USA, 8-11 settembre 2011.
- 76) “XAS enlightening of the local structure of VO<sub>x</sub> sites in catalysts for the ODH of propane”, Ilenia Rossetti, Sonia Pin, Giulia Mancini, Paolo Ghigna, Marco Scavini, Marco Piumetti, Barbara Bonelli, accettato per presentazione orale al VII International Symposium on Group Five Elements, Riccione, 8-11 maggio 2011.
- 77) “Surface properties of VO<sub>x</sub>-SiO<sub>2</sub> and VO<sub>x</sub>-Al<sub>2</sub>O<sub>3</sub> catalysts: a spectroscopic study by FT-IR, Micro-Raman, XPS and EPR techniques”, M. Piumetti, B. Bonelli, F. Cavani, I. Rossetti, L. Forni, E. Celasco, E. Garrone, accettato per presentazione orale al VII International Symposium on Group Five Elements, Riccione, 8-11 maggio 2011.
- 78) “Effect of vanadium dispersion and of support properties on the catalytic activity of V-containing mesoporous silicas”, Marco Piumetti, Barbara Bonelli, Pascale Massiani, Stanislaw Dzwigaj, Cyril Thomas, Ilenia Rossetti, Sandra Casale, Marco Armandi, Edoardo Garrone, accettato per presentazione orale al CIS-4 (4th Czech, Italian, Spanish Workshop on molecular sieves and catalysis, Liblice Castle, Czech Republic, June 15th-18th, 2011.
- 79) “Ni-based catalysts for the steam reforming of ethanol: surface acidity and catalytic activity”, Ilenia Rossetti, Cesare Biffi, Elisabetta Finocchio, Gianguido Ramis, Gabriella Garbarino, accettato per presentazione short oral VIII Convegno INSTM sulla Scienza e Tecnologia dei Materiali,

26-29 Giugno 2011, Aci Castello (CT).

- 80) "Metal doped activated carbon for hydrogen storage", Alessandro Gallo, Vladimiro Dal Santo, Ilenia Rossetti, Vincenzo Radaelli, Enrico Cavo, accettato per presentazione poster al Fourth International Symposium on Advanced micro- and mesoporous materials, September 6th to 9th, 2011, Riviera resort, Varna, Bulgaria.
- 81) "Ni/SiO<sub>2</sub> and Ni/ZrO<sub>2</sub> catalysts for the steam reforming of ethanol", I. Rossetti, C. Biffi, C.L. Bianchi, V. Nichele, M. Signoretto, F. Menegazzo, E. Finocchio, G. Ramis, A. Di Michele, accettato per presentazione orale al XVIII Congresso Nazionale della Divisione di Chimica Industriale della SCI, Firenze, 11-14 giugno 2012.
- 82) "Ni catalysts supported over TiO<sub>2</sub>, SiO<sub>2</sub> and ZrO<sub>2</sub> for the steam reforming of glycerol", I. Rossetti, A. Gallo, V. Dal Santo, C.L. Bianchi, V. Nichele, M. Signoretto, E. Finocchio, G. Ramis, G. Garbarino, A. Di Michele, accettato per presentazione poster al XVIII Congresso Nazionale della Divisione di Chimica Industriale della SCI, Firenze, 11-14 giugno 2012.
- 83) "Variously functionalised activated carbons for H<sub>2</sub> storage", I. Rossetti, V. Radaelli, E. Cavo, A. Gallo, V. Dal Santo, accettato per presentazione poster al XVIII Congresso Nazionale della Divisione di Chimica Industriale della SCI, Firenze, 11-14 giugno 2012.
- 84) "Physico-chemical properties of VO<sub>x</sub>-TiO<sub>2</sub> catalysts prepared by flame pyrolysis", M. Piumetti, B. Bonelli, M. Armandi, F. Geobaldo, I. Rossetti, E. Garrone, accettato per presentazione poster al XV International Congress on Catalysis, Munich, Germany, 1-6 luglio 2012.
- 85) "The oxidative dehydrogenation of propane over V-containing mesoporous silicas: the effect of vanadium dispersion, surface acidity and support properties on the catalytic activity", M. Piumetti, B. Bonelli, E. Garrone, M. Armandi, I. Rossetti, P. Massiani, S. Dzwigaj, F. Cavani, accettato per presentazione poster + short oral al XV International Congress on Catalysis, Munich, Germany, 1-6 luglio 2012.
- 86) "Ni/TiO<sub>2</sub> for ethanol steam reforming: which is the best synthetic approach?", V. Nichele, M. Signoretto, F. Menegazzo, F. Pinna, I. Rossetti, C. Biffi, G. Cruciani, G. Cerrato, accettato per presentazione poster al XV International Congress on Catalysis, Munich, Germany, 1-6 luglio 2012.
- 87) "Setting up a volumetric method to test H<sub>2</sub> storage materials", I. Rossetti, E. Cavo, L. Forni, accettato per presentazione poster al XV International Congress on Catalysis, Munich, Germany, 1-6 luglio 2012.
- 88) "5 kWe + 5 kWt PEMFC generator from bioethanol: a demonstrative project", I. Rossetti, C. Biffi, L. Forni, G.F. Tantardini, G. Faita, M. Raimondi, E. Vitto, D. Alberti, accettato per presentazione poster al XV International Congress on Catalysis, Munich, Germany, 1-6 luglio 2012.
- 89) "Ni/SiO<sub>2</sub> and Ni/ZrO<sub>2</sub> catalysts for the steam reforming of ethanol and glycerol", I. Rossetti, C. Biffi, C.L. Bianchi, A. Gallo, V. Dal Santo, V. Nichele, M. Signoretto, E. Finocchio, G. Ramis, G. Garbarino, A. Di Michele, accettato per presentazione poster al XV International Congress on Catalysis, Munich, Germany, 1-6 luglio 2012.
- 90) "Gold catalyzed liquid phase oxidation: the active role of the solvent", L. Prati, A. Villa, I. Rossetti, 6th International conference, Gold2012, September 5th-8th, 2012, keynote lecture.
- 91) "Catalytic flameless combustion of hydrocarbons for low environmental impact", C. Oliva, I. Rossetti, M. Scavini, L. Forni, Round Table Russia-Italy: Chemical technologies for low environmental impact, Ivanovo (Russia), 2012.
- 92) "Ni-, Co- and Cu-TiO<sub>2</sub> catalysts for the steam reforming of ethanol: how the preparation method affects catalytic performance", J. Lasso, I. Rossetti, G. Ramis, E. Finocchio, V. Nichele, M. Signoretto, A. Di Michele, IX INSTM Conference, Bari, 30th June - 3rd July 2013, presentazione poster.
- 93) "Steam reforming of ethanol over Co and Cu based catalysts", E. Finocchio, G. Ramis, I. Rossetti, 11th European Congress on Catalysis - EuropaCat-XI, Lyon, France, September 1st-6th, 2013, accettato per discussion symposia.
- 94) "Carbon based materials for H<sub>2</sub> storage", I. Rossetti, G. Ramis, 11th European Congress on Catalysis - EuropaCat-XI, Lyon, France, September 1st-6th, 2013, presentazione poster.
- 95) "Ni/ZrO<sub>2</sub> catalysts for ethanol steam reforming: effect of Ca-doping", V. Nichele, A. Iwanska, M. Signoretto, F. Menegazzo, I. Rossetti, G. Cruciani, F. Vindigni, G. Cerrato, 11th European Congress on Catalysis - EuropaCat-XI, Lyon, France, September 1st-6th, 2013, presentazione poster.
- 96) "Silica and zirconia supported catalysts for the low-temperature ethanol steam reforming", I. Rossetti, J. Lasso, V. Nichele, M. Signoretto, E. Finocchio, G. Ramis, A. Di Michele, XVII National Congress of Catalysis GIC 2013 and XI National Congress of Zeolites Science and Technology, Riccione, 15 - 18 September 2013, presentazione orale.
- 97) "Cobalt-based and Nickel-based catalysts for hydrogen production by steam reforming of ethanol", G. Ramis, E. Finocchio, V. Nichele, M. Signoretto, J. Lasso, I. Rossetti, A. Di Michele, XVII National Congress of Catalysis GIC 2013 and XI National Congress of Zeolites Science and Technology, Riccione, 15 - 18 September 2013, presentazione poster.
- 98) "Effect of CaO-doping on coke resistance of Ni/ZrO<sub>2</sub> catalysts in ethanol steam reforming", V. Nichele, A. Iwanska, M. Signoretto, F. Menegazzo, I. Rossetti, G. Cruciani, F. Vindigni,



- G. Cerrato, XVII National Congress of Catalysis GIC 2013 and XI National Congress of Zeolites Science and Technology, Riccione, 15 - 18 September 2013, presentazione poster.
- 99) "Hydrogen storage over metal-doped activated carbons", Ilenia Rossetti, Gianguido Ramis, A. Gallo, International Conference on Clean Energy 2014, ICCE2014, Istanbul, Giugno 2014, presentazione orale.
- 100) "Metal dispersion and interaction with the supports in the coke production over ethanol steam reforming catalysts", Ilenia Rossetti, Gianguido Ramis, Elisabetta Finocchio, International Conference on Clean Energy 2014, ICCE2014, Istanbul, Giugno 2014, presentazione poster.
- 101) "Ni-ZrO<sub>2</sub> catalysts for the steam reforming of ethanol: influence of the preparation method on the catalytic performance", M. Compagnoni, J. Lasso F, I. Rossetti, V. Nichele, M. Signoretto, XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014, Rende, 7- 12 Settembre 2014, presentazione poster.
- 102) "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.
- 103) "Nickel- Titania Catalysts For Ethanol Steam Reforming", Gianguido Ramis, Ilenia Rossetti, Elisabetta Finocchio, IX Congresso Nazionale AICInG, Lecce, 14-17 settembre 2014, presentazione poster.
- 104) "CO<sub>2</sub> photoconversion to fuels", I. Rossetti, C. Pirola, A. Villa, L. Prati, G. Ramis, Photo4E, Lione, ottobre 2014, presentazione poster.
- 105) "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.
- 106) "H<sub>2</sub> 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.
- 107) "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)
- 108) "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.
- 109) "High-pressure photoreactor for CO<sub>2</sub> 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.
- 110) "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).
- 111) "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.
- 112) "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.
- 113) "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.
- 114) "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.
- 115) "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.
- 116) "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.
- 117) "CO<sub>2</sub> 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.
- 118) "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.



- 119) "Optimisation of CO<sub>2</sub> 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.
- 120) "CO<sub>2</sub> 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.
- 121) "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.
- 122) "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.
- 123) "Sintesi e caratterizzazione di materiali nanostrutturati per l'abbattimento fotocatalitico di molecole azotate in acque reflue", Gianguido Ramis, Matteo Compagnoni, Ilenia Rossetti, Francesca Frerya, Marco Armandi, Barbara Bonelli, Elisabetta Finocchio, X Convegno Nazionale dell'Associazione Italiana di Chimica per Ingegneria, Aiching2016, Udine, settembre 2016, poster.
- 124) "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.
- 125) "CO<sub>2</sub> 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.
- 126) "Diluted bioethanol solutions for the production of hydrogen and ethylene", Gianguido Ramis, Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni, IChEAP2017, Milano, maggio 2017, comunicazione orale.
- 127) "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.
- 128) "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.
- 129) "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.
- 130) "Kinetic modeling and process simulation for ethanol steam reforming", Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni, G. Ramis, NAM 2017, Denver, giugno 2017, comunicazione poster.
- 131) "Metal modified TiO<sub>2</sub> for CO<sub>2</sub> 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.
- 132) "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.
- 133) "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.
- 134) "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.
- 135) "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.
- 136) "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.
- 137) "Valorization of diluted bioethanol streams catalyzed by ZrO<sub>2</sub>- 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.
- 138) "Kinetic Analysis and Reactor Design of Ethanol Steam Reforming", Antonio Tripodi, Matteo

- Compagnoni, Gianguido Ramis, Ilenia Rossetti, Europacat2017, Firenze, Agosto 2017, presentazione poster.
- 139) “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.
- 140) “Kinetic modelling and process simulation for H<sub>2</sub> production by steam reforming of diluted bioethanol solutions”, Ilenia Rossetti, Antonio Tripodi, Matteo Compagnoni and Gianguido Ramis, ANM2017 congress, Aveiro, luglio 2017, presentazione orale.
- 141) “Nanostructured materials for the valorization of (waste) organic solutions and CO<sub>2</sub> recycle for fuels by photocatalytic reforming”, Gianguido Ramis, Ilenia Rossetti, Elnaz Bahadori, Matteo Compagnoni, Antonio Tripodi, ANM2017 congress, Aveiro, luglio 2017, presentazione poster.
- 142) “CO<sub>2</sub> 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.
- 143) “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.
- 144) “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.
- 145) “Process design and cost evaluation for H<sub>2</sub> 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.
- 146) “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.
- 147) “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.
- 148) “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.
- 149) “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.
- 150) “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.
- 151) “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.
- 152) “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.
- 153) “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.
- 154) “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.
- 155) “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.
- 156) “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.
- 157) “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.
- 158) “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.
- 159) “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.
- 160) “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.
- 161) “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.
- 162) “Photodegradation of (emerging) N-containing pollutants in wastewater”, F. S. Freyria, M. Compagnoni, E. Bahadori, T. A. Gadi, 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.
- 163) “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.
- 164) “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 orale.
- 165) “Fotoreforming di zuccheri per la produzione di idrogeno”, G. Ramis, E. Finocchio, I. Rossetti, E. Bahadori, XI Congresso AIChE, Bologna, settembre 2018, comunicazione orale.
- 166) “Steam reforming of ethanol over Ni/MgAl<sub>2</sub>O<sub>4</sub> catalysts”, A. Di Michele, A. Dell’Angelo, N. Dimitratos, G. Ramis, I. Rossetti, International Symposium on Heterogeneous Catalysis, August 2018, Sofia, presentazione orale.
- 167) “Photoreactors Design for Hydrogen Production”, G. Ramis, E. Bahadori, I. Rossetti, ICHEAP-14, Bologna, 26-29 maggio 2019, presentazione XXX.
- 168) “Modelling of photoreactors for water treatment”, I. Rossetti, E. Bahadori, A. Tripodi, G. Ramis, ICHEAP-14, Bologna, 26-29 maggio 2019, presentazione XXX.
- 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) “H<sub>2</sub> 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 CO<sub>2</sub>”, I. Rossetti, A. Tripodi, E. Bahadori, G. Ramis, ANM2019, Aveiro, 17-19 luglio 2019, presentazione orale.

**Dati personali**

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Date, 06/11/2018

Signature

Ilenia Rossetti