PERSONAL INFORMATION

ERNESTO SALZANO

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WORK EXPERIENCE

From 12/2022 to present

Full Professor
Director of Chemical Engineering Studies (Batchelor's Degree in Chemical and Biochemical Engineering and Master's Degree in Chemical and Process Engineering)
Department of Civil, Chemical, Environmental, and Materials Engineering (DICAM), University of Bologna, Via Zamboni 33 - 40126 Bologna (IT)

- Industrial Chemistry; Chemical Plant Design; Scientific Research

Education, University

From 11/2015 to 11/2022

Associate Professor
Department of Civil, Chemical, Environmental, and Materials Engineering (DICAM), University of Bologna, Via Zamboni 33 - 40126 Bologna (IT)

- Industrial Chemistry; Chemical Plant Design; Scientific Research

Education, University

From 01/1996 to 11/2015

Researcher (permanent position)
Institute of Research on Combustion, Italian National Research Council (CNR), P.le Tecchio 80, 80125 Napoli (IT)

- Project Leader, In charge of experimental lab on gas and dust explosion, Industrial safety, Explosion and Fire science, Natural hazards, Civil Protection (Seveso directive

Public Research Institute

From 01/1994 to 12/1995

Chemical and General Plant Responsible
INCHEM Srl, Napoli (IT)

- In charge of the chemical staff and safety for a chemical engineering firm working in the field of consultancy for chemical and power plants in Italy and Abroad (Jordan, Venezuela, Egypt, Argentina)

Chemical Engineering consultancy and design

EDUCATION AND TRAINING

From 06/1996 to 03/1999

Researcher Fellow (RTD, three years post-degree) - ISCED level 6

Italian National Research Council of Italy

- Industrial Safety, Natural-Technological risks

From 01/1985 – 21/07/1991

Master's degree: Industrial Chemistry (5 years, Faculty of Science)

University of Napoli "Federico II"

- Industrial Chemistry, Chemistry, Plant design

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

Job-related skills Organisational skills and competencies

European Research Agency (ERA) Chair of the Center of Excellence for Safety Research (CESAR) based at VSB - Technical University of Ostrava in the Czech Republic (2025-).

Italian Delegate to the EFCE (European Federation of Chemical Engineering) Working Party on Static Electricity in Industry (2022-).

Associate Researcher of the Italian National Research Council – Institute of Science and Technology for Energy and Sustainable Mobility (STEMS), formerly Institute of Research on Combustion (2018-)..

Member of the academic board for the PhD in Future Earth, Climate Change and Societal Challenge, University of Bologna (2019-).

Member of the academic board for the PhD programme of the Department of Civil, Chemical, Environmental, and Materials Engineering (DICAM) - University of Bologna (2015-2016).

Erasmus+ reference for TU-Eindhoven, AGH Krakow, with University of Bologna (2023-).

Lead Coordinator of National Steering Committee of Gruppo Interdivisionale per la Sicurezza in Ambienti Chimici (GISAC) (Safety of Chemical Environment) of the National Society of Chemists (2015-).

Deputy for the Guidance and tutoring for the Department of Civil, Chemical, Environmental and Materials Engineering Department (DICAM) - University of Bologna

Member of Inter-departmental Centres for Industrial Research (CIRI FRAME - Renewable Sources, Environment, Sea And Energy), University of Bologna (2020-)

Associate editor of the journal "Process Safety and Environmental Protection", Elsevier.

Associate editor of the "Journal of Loss Prevention in the Process Industry", Elsevier.

Associate editor of the "Frontiers in Chemical Engineering - Chemical Reaction Engineering", Frontiers Media S.A.

Associate editor of "Energies", MDPI, Switzerland.

Scientific Committee of the International Conference on Safety & Environment in Process & Power Industry, CISAP (AIDIC, Italian Association of Chemical Engineering) and for the "Chemical Engineering Transactions", indexed on Scopus e ISI Web of Knowledge.

National Price for Scientific Excellence of National Research Council (CNT) of Italy (2005).

Visiting researcher at Baker Engineering and Risk Consultants, Inc., Texas (USA), 2005.

Member of the Italian Electrotechnical Committee (CEI) for the new guideline CEI 64-2 - CEI 64-2 "Electrical installations in locations with explosion hazard - Particular requirements due to the presence of ignitable dust and explosives".

Coordinator of the WG of the Ministry of the Interior, Central Directorate for Prevention and Technical Safety, Industrial Risks Area, for the development of guidelines for the preparation and examination of the Safety Report of establishments that hold explosive substances.

Associate Member of the EU-VRi (European Virtual Institute for Integrated Risk Management), European Economic Interest Grouping (EEIG), Steinbeis Transfer Center, Stuttgart (D), 2009-2015.

Expert member of V, VI, and VII FP of European Commission, General research, NMP, SME, Industrial Research, Security (1998-2021).

Expert Evaluator: ERC (European Research Council), Norwegian Research Council, National Council for Research and Development of Romania; Research Projects of Kazakhstan, Polish National Centre for Research and Development; Qatar National Research Found and others.

Member of RELUIS - Rete Italiana dei Laboratori Sismici (National Network of Seismic Laboratories), Dipartimento della Protezione Civile– Vulnerabilità sismica di impianti industriali – WP17 (Non structural Elements – Natural Technological risks, Natech).

Ongoing most important research projects, as project Leader or key participant

Horizon Europe project COREu, Research and Innovation project in Carbon Capture and Storage (CCS), 2024-.

EU IPA - Adriatic-Ionian Programme INTERREG Project: SuperAlfuel (2024-).

Horizon Europe ELVHYS, Enhancing safety of liquid and vaporised hydrogen transfer technologies in public areas for mobile applications, 2023-.

Horizon Europe NICOLHY, Novel Insulation Concepts For Liquefied Hydrogen Storage Tanks, 2023-.

EngageSDG, EU Erasmus+ project that focuses on building capacity in South-African Development Countries (SADC), 2023-

Most important research projects and consultancies, as project leader or key participant

EU IPA, Adriatic-Ionian Programme INTERREG V-B Transnational 2014-2020, Project: SuperLNG SUstainability PERformance of LNG-based maritime mobility, 2017-2019 (extended to 2022 as SuperLNG+).

European Commission's Union Civil Protection Mechanism. WUIVIEW: Project Wildland-Urban-Interface Virtual Essays Workbench – Grant Agreement ECHO/2018/826522, 2019-2020.

Interreg V-A Italy - Croatia CBC Programme. E-CITIJENS, Civil Protection Emergency DSS based on CITIzen Journalism to ENhance Safety of Adriatic Basin, 2019-2020.

7th FP EU Collaborative Project. STREST: Harmonized approach to stress tests for critical infrastructures against natural hazards. 2013-2016.

7th FP EU Large-scale Project. Titolo del progetto: INTEG-RISK: Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related Risks, 2009-2013.

Recent consultancies and national projects

ENI SpA- RINA SpA, Valutazione Natech con metodologia specifica nell'ambito dell'aggiornamento RdS dei siti ENI Versalis di Ferrara e Ravenna (Natech assessment for ENI plants), 2020.Kerakoll SpA, Analysis of the explosivity of adhesive powders for building and construction uses, 2023.

Eurokin consortium, VDI. Runaways In Catalytic And Thermal Gas-Phase Reaction Systems, 2019.

KT-Kinetics Technology S.p.A., Definition of explosive parameter for the H2S/Oxygen mixture, Project: Selective Oxidation of H2S to Sulphur", 2015-2017.

Italian Civil Aviation Authority (ENAC). Risk Assessment for the Airport of Florence

"Peretola", with the University of Naples "Federico II" (2017-2023).

ENI SpA, Development of methodologies for Vulnerability Security Assessment for oil&gas facilities in Italy Security of industrial refinery – Open contract n. 2500016536, 2015-2016.

National Operational Programme on Research and Innovation 2014 – 2020, PON PNR 2015/20, PlaCE - Conversion of Offshore Platforms for multiple eco-sustainable uses, 2019-2021

Research Projects of National Relevance (PRIN). Assessment of Cascading Events triggered by the Interaction of Natural Hazards and Technological Scenarios involving the release of Hazardous Substances. 2020-2022.

Research Projects of National Relevance (PRIN). Analysis of effects of eruption of Mount Etna on infrastructures, industrial processes and health, 2010-2012.

Galileo project 2016-2017, Emergency Response in Second Generation Biomass Valorization Processes", with 'Institute National des Sciences Appliquées – INSA, Rouen, 2016-2017.

Other skills

Member of professional bodies

Member of Italian and World Combustion Institute
Italian Society of Chemists: Member of Interdivisional Group of Industrial Chemistry
Italian Association of Chemical Engineering (AIDIC)
European Federation of Chemical Engineering (EFCE)

Digital skills
Computational Fluid Dynamics, Advanced Programming (C, C+, VBA, Fortran)

ADDITIONAL INFORMATION

Book and Selected Journal papers of the last 3 years published on international JCR – ISI journals, with doi and SSBN

The results achieved in the scientific activity are documented by more than 250 publications in scientific journals, conference proceedings and books, indexed by SciVerse ® or ISI-Web ®, with ISBN/ISSN and DOI number. Orcid: 0000-0002-3238-2491; ScopusID: 6701344457.

The H-Index (Scopus) is: 41 (January 2025).

A complete list of publications can be found on Scopus (or Google Scholar

https://www2.scopus.com/authid/detail.uri?authorId=57192974862)

https://scholar.google.it/citations?hl=it&user=iR2wO6gAAAAJ)

Book, as Editor

Krausmann, E., Cruz A.M., Salzano E., Natech Risk Assessment and Management - Reducing the Risk of Natural-Hazard Impact on Hazardous Installations, Elsevier, 1st Ed., ISBN-10: 0128038071, 268 pag., 2016.

Selected list of the last 3 years

Pio, G., Eckart, S., Richter, A., Krause, H., Salzano, E., Detailed kinetic analysis of synthetic fuels containing ammonia (2024) Fuel., 362, 130747.

Andriani, G., Pio, G., Vianello, C., Mocellin, P., Salzano, E., Safety parameters and stability diagram of hydroxylamine hydrochloride and sulphate (2024) Chemical Engineering Journal, 482, 148894.

Santana, J.A.D., Di Benedetto, A., Gómez, O.G., Salzano, E., Towards sustainable hydrogen production: An integrated approach for Sustainability, Complexity, and

Systems Thinking in the energy sector, Journal of Cleaner Production 449, 141751.

Amaducci, F., Misuri, A., Bonvicini, S., Salzano, E., Cozzani, V. Quantitative Risk Assessment of Natech Scenarios triggered by Earthquakes involving Pipelines, Reliability Engineering & System Safety 2024, 109993.

Salzano, E., The critical mass for the unconfined vapour cloud explosion of compressed and liquid hydrogen /(2023) The Canadian Journal of Chemical Engineering, 1-8.

Andriani, G., De Liso, B.A., Pio, G., Salzano, E., Design of Sustainable Reactor Based on Key Performance Indicators (2023) Chemical Engineering Science, 119591.

Wako, F.M., Pio, G., Lofti, A., Farooqui, A., Mahinpey, N., Performance assessment of drop tube reactor for biomass fast pyrolysis using process simulator (2023) Canadian Journal of Chemical Engineering, 101(12), 7053–7067.

Eckart, S., Pio, G., Zirwes, T., Zhang, F., Salzano, E., Krause, H., Bockhorn, H., Impact of carbon dioxide and nitrogen addition on the global structure of hydrogen flames (2023) Fuel 335, 126929.

De Liso, B.A., Palma, V., Pio, G., Renda, S., Salzano, E., Extremely Low Temperatures for the Synthesis of Ethylene Oxide (2023) Industrial & Engineering Chemistry Research 62 (18), 6943-6952.

Pio, G., Dong, X., Salzano, E., Green, W.H. Automatically generated model for light alkene combustion (2022) Combustion and Flame, 241, 112080.

Wako, F.M.., Pio, G., Salzano, E., Modelling of acetaldehyde and acetic acid combustion (2023) Combustion Theory and Modelling, 27, 536-557.

Mocellin, P., Pio, G., Carboni, M., Pilo, F., Vianello, C., Salzano, E., On the effectiveness of mitigation strategies for cryogenic applications (2023), Journal of Loss Prevention in the Process Industries, 105123.

Wako, F.M., Pio, G., Salzano, E., Modeling Formic Acid Combustion (2022) Energy & Fuels 36 (23), 14382-14392.

Carboni, M., Pio, G., Mocellin, P., Pilo, F., Vianello, C., Russo, P., Maschio, G., Salzano, E. Experimental and numerical characterization of hydrogen jet fires (2022) International Journal of Hydrogen Energy, 47 (51), 21883-21896.

Carboni, M., Pio, G., Mocellin, P., Vianello, C., Maschio, G., Salzano, E. Accidental release in the bunkering of LNG: Phenomenological aspects and safety zone (2022) Ocean Engineering, 252, 111163.

Carboni, M., Pio, G., Mocellin, P., Vianello, C., Maschio, G., Salzano, E., On the flash fire of stratified cloud of liquefied natural gas (2022) Journal of Loss Prevention in the Process Industries, 75, 104680.

Gerbec, M., Vidmar, P., Pio, G., Salzano, E. A comparison of dispersion models for the LNG dispersion at port of Koper, Slovenia (2021) Safety Science, 144, 105467.

Ding, J., Wang, X., Chen, Y., Salzano, E. The effects of phosphorus-free inhibitors on the ignition of lycopodium dust (2021) Journal of Loss Prevention in the Process Industries, 72, 104543.

Pio, G., Mocellin, P., Vianello, C., Salzano, E. A detailed kinetic model for the thermal decomposition of hydroxylamine (2021) Journal of Hazardous Materials, 416, 125641.

Danzi, E., Pio, G., Marmo, L., Salzano, E. The explosion of non-nano iron dust suspension in the 20-l spherical bomb (2021) Journal of Loss Prevention in the Process Industries, 71, 104447.

Pio, G., Ruocco, C., Palma, V., Salzano, E. Detailed kinetic mechanism for the hydrogen production via the oxidative reforming of ethanol (2021) Chemical Engineering Science, 237, 116591.

Aneziris, O., Gerbec, M., Koromila, I., Nivolianitou, Z., Pilo, F., Salzano, E. Safety guidelines

and a training framework for LNG storage and bunkering at ports (2021) Safety Science, 138, 105212.

Carboni, M., Pio, G., Vianello, C., Salzano, E., Safety distances for the sour biogas in digestion plants (2021) Process Safety and Environmental Protection, 147, 1-7.

Knyazkov, D.A., Dmitriev, A.M., Korobeinichev, O.P., Osipova, K.N., Pio, G., Shmakov, A.G., Salzano, E., Structure of premixed flames of propylene oxide: Molecular beam mass spectrometric study and numerical simulation (2021) Proc. of the Combustion Institute, 38 (2), 2467-2475.

Carboni, M., Pio, G., Vianello, C., Maschio, G., Salzano, E., Large eddy simulation for the rapid phase transition of LNG (2021) Safety Science, 133, 105001

Pio, G., Salzano, E. Implementation of gas-phase kinetic model for the optimization of the ethylene oxide production (2020) Chemical Engineering Science, 212, 115331.

Salzano, E., Carboni, M., Pio, G. The effects of low-temperature phenomena on rapid phase transition of liquid hydrogen (2020) International Journal of Hydrogen Energy, 45 (56), 32676-32685.

Iannaccone, T., Landucci, G., Tugnoli, A., Salzano, E., Cozzani, V. Sustainability of cruise ship fuel systems: Comparison among LNG and diesel technologies (2020) Journal of Cleaner Production, 260, 121069.

Bologna, 01/12/2025

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Complete list of references (Elsevier Scopus Index)

1. Pio, G.; Eckart, S.; Richter, A.; Krause, H.; Salzano, E. Detailed Kinetic Analysis of Synthetic Fuels Containing Ammonia. *Fuel* **2024**, *362*.
2. Andriani, G.; Pio, G.; Vianello, C.; Mocellin, P.; Salzano, E. Safety Parameters and Stability Diagram of Hydroxylamine Hydrochloride and Sulphate. *Chemical Engineering Journal* **2024**, *482*.
3. Andriani, G.; De Liso, B. A.; Pio, G.; Salzano, E. Design of Sustainable Reactor Based on Key Performance Indicators. *Chemical Engineering Science* **2024**, 285.
4. Amaducci, F., Misuri, A., Bonvicini, S., Salzano, E., Cozzani, V. Quantitative Risk Assessment of Natech Scenarios triggered by Earthquakes involving Pipelines, *Reliability Engineering & System Safety* **2024**, 109993.
1. Wako, F. M.; Pio, G.; Salzano, E. Modelling of Acetaldehyde and Acetic Acid Combustion. *Combustion Theory and Modelling* **2023**, *27* (4), 536–557.
2. Wako, F. M.; Pio, G.; Lofti, A.; Salzano, E.; Farooqui, A.; Mahinpey, N. Performance Assessment of Drop Tube Reactor for Biomass Fast Pyrolysis Using Process Simulator. *Canadian Journal of Chemical Engineering* **2023**, *101* (12), 7053–7067.
3. Salzano, E. The Critical Mass for the Unconfined Vapour Cloud Explosion of Compressed and Liquid Hydrogen. *Canadian Journal of Chemical Engineering* **2023**, *101* (10), 5460–5467.
4. Mocellin, P.; Pio, G.; Carboni, M.; Pilo, F.; Vianello, C.; Salzano, E. On the Effectiveness of Mitigation Strategies for Cryogenic Applications. *Journal of Loss Prevention in the Process Industries* **2023**, *84*.
5. Mocellin, P.; Pio, G.; Carboni, M.; Pilo, F.; Vianello, C.; Salzano, E. Characterization of Medium-Scale Accidental Releases of LNG. *Fire* **2023**, *6* (7).
6. Giannini, L.; Tincani, G.; Collina, G.; Salzano, E.; Cozzani, V.; Ustolin, F. Modelling of Fireballs Generated after the Catastrophic Rupture of Hydrogen Tanks. *Chemical Engineering Transactions* **2023**, *104*, 115–120.
7. Eckart, S.; Pio, G.; Zirwes, T.; Zhang, F.; Salzano, E.; Krause, H.; Bockhorn, H. Impact of Carbon Dioxide and Nitrogen Addition on the Global Structure of Hydrogen Flames. *Fuel* **2023**, *335*.
8. De Liso, B. A.; Palma, V.; Pio, G.; Renda, S.; Salzano, E. Extremely Low Temperatures for the Synthesis of Ethylene Oxide. *Industrial and Engineering Chemistry Research* **2023**, *62* (18), 6943–6952.
9. Collina, G.; Ustolin, F.; Tincani, G.; Giannini, L.; Salzano, E.; Cozzani, V. Fragments Generated during Liquid Hydrogen Tank Explosions. *Chemical Engineering Transactions* **2023**, *99*, 253–258.
10. Aneziris, O.; Koromila, I. A.; Gerbec, M.; Nivolianitou, Z.; Salzano, E. A Comparison of Alternative Cryogenic Fuels for Regional Marine Transportation from the Perspective of Safety. *Chemical Engineering Transactions* **2023**, *100*, 25–30.
11. Wako, F. M.; Pio, G.; Salzano, E. Modeling Formic Acid Combustion. *Energy and Fuels* **2022**, *36* (23), 14382–14392.
12. Ustolin, F.; Giannini, L.; Pio, G.; Salzano, E.; Paltrinieri, N. On the Mechanical Energy Involved in the Catastrophic Rupture of Liquid Hydrogen Tanks. *Chemical Engineering Transactions* **2022**, *91*, 421–426.
13. Pio, G.; Eckart, S.; Salzano, E.; Krause, H. Kinetic Parameters for Safety of Hydrogen-Containing Mixtures. *Chemical Engineering Transactions* **2022**, *90*, 475–480.
14. Pio, G.; Dong, X.; Salzano, E.; Green, W. H. Automatically Generated Model for Light Alkene Combustion. *Combustion and Flame* **2022**, *241*.
15. Pio, G.; Carboni, M.; Mocellin, P.; Pilo, F.; Vianello, C.; Maschio, G.; Salzano, E. Jet Fires of Hydrogen-Methane Mixtures. *Chemical Engineering Transactions* **2022**, *91*, 289–294.
16. Mocellin, P.; Carboni, M.; Pio, G.; Vianello, C.; Salzano, E. Investigation of Sublimating Dry-Ice Due to Accidental Release in the Framework of CCS Risk Analysis. *Chemical Engineering Transactions* **2022**, *90*, 193–198.

17. Eckart, S.; Pio, G.; Krause, H.; Salzano, E. Chemical and Thermal Effects of Trace Components in Hydrogen Rich Gases on Combustion. *Chemical Engineering Transactions* **2022**, *90*, 361–366.
18. Carboni, M.; Pio, G.; Vianello, C.; Mocellin, P.; Maschio, G.; Salzano, E. Numerical Simulation of LNG Dispersion in Harbours: A Comparison of Flammable and Visible Cloud. *Chemical Engineering Transactions* **2022**, *90*, 355–360.
19. Carboni, M.; Pio, G.; Mocellin, P.; Vianello, C.; Maschio, G.; Salzano, E. On the Flash Fire of Stratified Cloud of Liquefied Natural Gas. *Journal of Loss Prevention in the Process Industries* **2022**, *75*.
20. Carboni, M.; Pio, G.; Mocellin, P.; Pilo, F.; Vianello, C.; Russo, P.; Maschio, G.; Salzano, E. Experimental and Numerical Characterization of Hydrogen Jet Fires. *International Journal of Hydrogen Energy* **2022**, *47* (51), 21883–21896.
21. Carboni, M.; Pio, G.; Mocellin, P.; Vianello, C.; Maschio, G.; Salzano, E. Accidental Release in the Bunkering of LNG: Phenomenological Aspects and Safety Zone. *Ocean Engineering* **2022**, *252*.
22. Campari, A.; Pio, G.; Ustolin, F.; Paltrinieri, N.; Salzano, E. Design and Optimization of an Emergency Auto-Thermal Burner for Liquid Hydrogen. *Chemical Engineering Transactions* **2022**, *91*, 325–330.
23. Cammarota, F.; Sarli, V. D.; Salzano, E. Explosion Behavior of Ethanol-Ethyl Acetate/Air Mixtures. *Chemical Engineering Transactions* **2022**, *91*, 511–516.
24. Aneziris, O.; Koromila, I. A.; Gerbec, M.; Nivolianitou, Z.; Salzano, E. Ship-to-Ship LNG Bunkering: Risk Assessment and Safety Zones. *Chemical Engineering Transactions* **2022**, *91*, 535–540.
25. Amaducci, F.; Misuri, A.; Salzano, E.; Cozzani, V. Assessment of Failure Frequencies of Pipelines in Natech Events Triggered by Earthquakes. *Chemical Engineering Transactions* **2022**, *91*, 451–456.
26. Wako, F. M.; Pio, G.; Salzano, E. Reduced Combustion Mechanism for Fire with Light Alcohols. *Fire* **2021**, *4* (4).
27. Wako, F. M.; Pio, G.; Salzano, E. Laminar Burning Velocity and Ignition Delay Time of Oxygenated Biofuel. *Energies* **2021**, *14* (12).
28. Salzano, E.; Landucci, G.; Khakzad, N.; Reniers, G.; Cozzani, V. Vulnerability Assessment of Chemical Plants to Intentional Acts. In *Dynamic Risk Assessment and Management of Domino Effects and Cascading Events in the Process Industry*; 2021; Elsevier, 175–192.
29. Pio, G.; Salzano, E. Accidental Combustion Phenomena at Cryogenic Conditions. *Safety* **2021**, *7* (4).
30. Pio, G.; Ruocco, C.; Palma, V.; Salzano, E. Detailed Kinetic Mechanism for the Hydrogen Production via the Oxidative Reforming of Ethanol. *Chemical Engineering Science* **2021**, *237*.
31. Pio, G.; Mocellin, P.; Vianello, C.; Salzano, E. A Detailed Kinetic Model for the Thermal Decomposition of Hydroxylamine. *Journal of Hazardous Materials* **2021**, *416*.
32. Knyazkov, D. A.; Dmitriev, A. M.; Korobeinichev, O. P.; Osipova, K. N.; Pio, G.; Shmakov, A. G.; Salzano, E. Structure of Premixed Flames of Propylene Oxide: Molecular Beam Mass Spectrometric Study and Numerical Simulation. *Proceedings of the Combustion Institute* **2021**, *38* (2), 2467–2475.
33. Gerbec, M.; Vidmar, P.; Pio, G.; Salzano, E. A Comparison of Dispersion Models for the LNG Dispersion at Port of Koper, Slovenia. *Safety Science* **2021**, *144*.
34. Gargiulo, M. V.; Garcia, A.; Paulillo, A.; Amoroso, O.; Salzano, E.; Capuano, P. An Integrated Approach to Risk and Impacts of Geo-Resources Exploration and Exploitation. *Energies* **2021**, *14* (14).
35. Ding, J.; Wang, X.; Chen, Y.; Salzano, E. The Effects of Phosphorus-Free Inhibitors on the Ignition of Lycopodium Dust. *Journal of Loss Prevention in the Process Industries* **2021**, *72*.
36. Danzi, E.; Pio, G.; Marmo, L.; Salzano, E. The Explosion of Non-Nano Iron Dust Suspension in the 20-l Spherical Bomb. *Journal of Loss Prevention in the Process Industries* **2021**, *71*.
37. Cozzani, V.; Salzano, E. Stand-off Distances for Domino Effect Caused by Intentional Acts. In *Dynamic Risk Assessment and Management of Domino Effects and Cascading Events in the Process Industry*; 2021; Elsevier, 155–174.
38. Carboni, M.; Pio, G.; Vianello, C.; Salzano, E. Safety Distances for the Sour Biogas in Digestion Plants. *Process Safety and Environmental Protection* **2021**, *147*, 1–7.
39. Carboni, M.; Pio, G.; Vianello, C.; Maschio, G.; Salzano, E. Large Eddy Simulation for the Rapid Phase Transition of LNG. *Safety Science* **2021**, *133*.

40. Aneziris, O.; Gerbec, M.; Koromila, I.; Nivolianitou, Z.; Pilo, F.; Salzano, E. Safety Guidelines and a Training Framework for LNG Storage and Bunkering at Ports. *Safety Science* **2021**, *138*.

41. Vianello, C.; Carboni, M.; Mazzaro, M.; Mocellin, P.; Pilo, F.; Pio, G.; Russo, P.; Salzano, E. Hydrogen Refueling Stations: Prevention and Scenario Management. Large Scale Experimental Investigation of Hydrogen Jet-Fires. *Chemical Engineering Transactions* **2020**, *82*, 247–252.

42. Ustolin, F.; Salzano, E.; Landucci, G.; Paltrinieri, N. Modelling Liquid Hydrogen Bleves: A Comparative Assessment with Hydrocarbon Fuels; 2020; 30th European Safety and Reliability Conference and 15th Probabilistic Safety Assessment and Management Conference (ESREL2020 PSAM15) 1876–1883.

43. Salzano, E.; Carboni, M.; Pio, G. The Effects of Low-Temperature Phenomena on Rapid Phase Transition of Liquid Hydrogen. *International Journal of Hydrogen Energy* **2020**, *45* (56), 32676–32685.

44. Pio, G.; Wako, F. M.; Salzano, E. On the Prediction of the Ignition Delay Time of Bio-Syngas. *Chemical Engineering Transactions* **2020**, *82*, 271–276.

45. Pio, G.; Salzano, E. Implementation of Gas-Phase Kinetic Model for the Optimization of the Ethylene Oxide Production. *Chemical Engineering Science* **2020**, *212*.

46. Pio, G.; Salzano, E. Gas-Phase Thermal Explosions in Catalytic Direct Oxidation of Alkenes. *Journal of Loss Prevention in the Process Industries* **2020**, *65*.

47. Pio, G.; Ricca, A.; Palma, V.; Salzano, E. Experimental and Numerical Evaluation of Low-Temperature Combustion of Bio-Syngas. *International Journal of Hydrogen Energy* **2020**, *45* (1), 1084–1095.

48. Pio, G.; Renda, S.; Palma, V.; Salzano, E. Safety Parameters for Oxygen-Enriched Flames. *Journal of Loss Prevention in the Process Industries* **2020**, *65*.

49. Olivar, O. J. R.; Mayorga, S. Z.; Giraldo, F. M.; Sánchez-Silva, M.; Pinelli, J.-P.; Salzano, E. The Effects of Extreme Winds on Atmospheric Storage Tanks. *Reliability Engineering and System Safety* **2020**, *195*.

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