

GIOVANNI BATTISTA ARIEMMA

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PROFILE

I am a Chemical Engineering, with in-depth and strong interest in thermochemical conversion technologies of innovative energy carriers. I am a very enterprising person, that takes his works and responsibilities seriously. I have good communication skills and team working skills, gained through private lessons and group projects.

EXPERIENCE

- 11/2019 –
Pres. **PhD Candidate. Chemical, Industrial Product and Process Engineering**
Federico II University, Naples, Italy.
Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili-CNR, Naples, Italy
- 05/2019 –
11/2019 **Post Graduate Stage**
Istituto di Ricerche sulla Combustione-CNR, Naples, Italy.
Topic: "Diluted Thermochemical Conversion systems of Gaseous and Liquid Energy Carriers"
- 09/2018 –
03/2019 **Master's Degree Thesis work in Chemical Engineering**
Federico II University, Naples, Italy.
Development of a cyclonic burner operated under MILD conditions, at the laboratories of IRC-CNR.

EDUCATION

- 09/2016 –
03/2019 **Master's Degree in Chemical Engineering**
Federico II University, Naples, Italy.
Final degree mark: 110/110 cum laude.
Thesis title: "Conversion of Bioderived Energy Carriers in a Temperature Tailored Reactor"
- 09/2013 –
09/2016 **Bachelor's Degree in Chemical Engineering**
Federico II University, Naples, Italy.
Final degree mark: 110/110 cum laude.
Thesis title: "Recupero di Acido Succinico da brodo di fermentazione"
- 09/2008 –
07/2013 **Scientific Certificate**
L.S.C.Miranda, Frattamaggiore (NA), Italy.
School leaving examination mark of 100/100 cum laude.

INTERNATIONAL CONFERENCES

- 24-29/01/2021 **38th International Symposium on Combustion**
Adelaide, Australia
Paper presentation: "Influence of water addition on MILD ammonia combustion performances and emissions"
- 04-06/03/2019 **KAUST Research Conference: The Future of Fuel**
King Abdullah University of Science and Technology, Thuwal, Saudi Arabia.
Poster presentation about: "Experimental study on MILD Combustion of alcohols in a Cyclonic Burner"
- 24-25/01/2019 **Workshop MILD**
SMARTCATs, Napoli, Italia.

21-23/01/2019 **1st International Conference on Smart Energy Carriers**
SMARTCATs, Naples, Italy.

PUBLICATIONS

- Ariemma, G. B., Bozza, P., de Joannon, M., Sabia, P., Sorrentino, G., & Ragucci, R. (2021). Alcohols as Energy Carriers in MILD Combustion. *Energy & Fuels*.
- Ariemma, G. B., Sabia, P., Sorrentino, G., Bozza, P., De Joannon, M., & Ragucci, R. (2020). Influence of water addition on MILD ammonia combustion performances and emissions. *Proceedings of the Combustion Institute*.
- Bozza, P., Sorrentino, G., Sabia, P., Ariemma, G. B., Ragucci, R., & de Joannon, M. PERFORMANCE EVALUATION OF A MILD BURNER OPERATED WITH LIQUID BIO-DERIVED ENERGY CARRIERS.

LANGUAGES

Italian (native), English.

COMPUTER SKILLS

SOFTWARE APPLICATION

- CFD software (COMSOL Multiphysics);
- Reaction Design CHEMKIN PRO;
- Aspen Tech ASPEN Plus;
- Graphics tools (Adobe Illustrator, Adobe Photoshop).
- CAD Solidworks;
- Matlab (tools: Matcont, Pplane);

PROGRAMMING LANGUAGE

- NI LabVIEW;
- Matlab;
- C++.

INTERESTS

Music, play guitar.

Sport: boxing, football, tennis, swimming.