

CURRICULUM VITAE

Emilia Paone

December 2018

PERSONAL INFORMATION

EDUCATION

- 2015 – Present **PhD in Civil, Environmental and Safety Engineering (XXXI CICLO)**
Curriculum “*Science and technology, materials, energy and complex systems for distributed computing and networks*”
Mediterranea University of Reggio Calabria
Bio-based chemicals from lignocellulosic biomass through hydrogenolysis reactions.
- December 2015 **Qualification test for Chemistry Exercise**
University of Messina
- 2013 - 2015 **Master's Degree in Chemistry (LM-54)**
University of Messina, Messina (Italy)
Thesis in Analytical Chemistry:
"CAPACITA' SEQUESTRANTE DELL'N-ACETILCISTEINA NEI CONFRONTI DI CATIONI METALLICI BIVALENTI"
- 2009-2013 **Bachelor's Degree in Chemistry (L-27)**
University of Messina, Messina (Italy)
Thesis in Analytical Chemistry:
"DETERMINAZIONE DELLO STRONZIO NELLE ACQUE POTABILI: CONFRONTO TRA TECNICHE ANALITICHE"
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WORK EXPERIENCES

- 1/2015 – 10/2015 **University Internship**
University of Messina, Messina (Italy)
Study of chemical equilibria in solution.
- 10/2012 – 3/2013 **Internship Trainee**
ARPACAL (Regional for the Environmental Protection of
Calabria), Reggio Calabria (Italy)
Analysis of potable water.

PUBLICATIONS

- F. Mauriello, H. Ariga-Miwa, E. Paone, R. Pietropaolo, S. Takakusagi, K. Asakura, "Transfer hydrogenolysis of aromatic ethers promoted by the bimetallic Pd/Co catalyst", *Catalysis Today*, submitted.
- A. Malara, E. Paone, P. Frontera, L. Bonaccorsi, G. Panzera, F. Mauriello, "Sustainable exploitation of coffee silverskin in water remediation", *Sustainability*, **2018**, 10(10), 3547.
- C. Espro, B. Gumina, T. Szumelda, E. Paone, F. Mauriello, "Catalytic transfer hydrogenolysis as an effective tool for the reductive upgrading of cellulose, hemicellulose, lignin and their derived platform molecules", *Catalysts*, **2018**, 8(8), 313.
- F. Mauriello, E. Paone, R. Pietropaolo, A.M. Balu, R. Luque, "Catalytic transfer hydrogenolysis of lignin derived aromatic ethers promoted by bimetallic Pd/Ni systems", *ACS Sustainable Chemistry & Engineering*, **2018**, 6(7), 9269-9276.
- P. S. Calabrò, E. Paone, D. Komilis, "Strategies for the sustainable management of orange peel waste through anaerobic digestion", *Journal of Environmental Management*, **2018**, 212, 462-468.
- C. Espro, B. Gumina, E. Paone, F. Mauriello, "Upgrading lignocellulosic biomasses: hydrogenolysis of platform derived molecules promoted by heterogeneous Pd-Fe catalysts", *Catalysts*, **2017**, 7(3), 78.
- E. Paone, C. Espro, R. Pietropaolo, F. Mauriello, "Selective arene production from transfer hydrogenolysis of benzyl phenyl ether promoted by a co-precipitated Pd/Fe₃O₄ catalyst", *Catalysis Science & Technology*, **2016**, 6(22), 7937-7941.

CONFERENCE, WORKSHOP, SCHOOL

- Paone, E., Pietropaolo, R., Mauriello, F. "Transfer hydrogenolysis of benzyl phenyl ether promoted by the bimetallic Pd/Co catalyst", **Merck&Elsevier Young Chemist Symposium, Rimini (Italy), 19-21 November 2018**
(Oral Communication)
- Paone, E., Mauriello, F., Pietropaolo, R., Musolino, M.G. "Catalizzatori bimetallici Pd/Fe per la conversione dell'acido levulinico a γ -valerolattone", **XI AICIng Conference 2018, Bologna (Italy), 9-12 September 2018**
(Poster)
- Paone, E., Pietropaolo, R., Balu, A.M., Luque, R., Mauriello, F. "Transfer idrogenolisi catalitica di eteri aromatici promossa dal catalizzatore eterogeneo Pd/Ni", **XI AICIng Conference 2018, Bologna (Italy), 9-12 September 2018**
(Oral Communication)
- Paone, E., Pietropaolo, R., Balu, A.M., Luque, R., Mauriello, F. "Transfer Hydrogenolysis of lignin derived aromatic ethers promoted by heterogeneous Pd/Ni catalyst", **XX National Conference of Catalysis and Industrial Chemistry Division of SCI (Italian Chemistry Society), Milano (Italy), 2-5 September 2018**
(Oral Communication)
- Mauriello, F., Ariga-Miwa, H., Paone, E., Pietropaolo, R., Takakusagi, S., Asakura, K. "Transfer hydrogenolysis of aromatic ethers promoted by the bimetallic Pd/Co catalyst", **Twelfth International Symposium on Heterogeneous Catalysis, Sofia (Bulgaria), 26-29 August 2018**
(Oral Communication)
- Paone, E., Pietropaolo, R., Mauriello, F., Luque, R. "Catalytic transfer hydrogenolysis of aromatic ethers promoted by the bimetallic Pd/Ni system", **255th AMERICAN CHEMICAL SOCIETY NATIONAL MEETING AND EXPOSITION, New Orleans (LA) (America), 18-22 March 2018**
- Paone, E., Pietropaolo, R., Mauriello, F. "Selective arene production from aromatic ethers promoted by Pd/Fe₃O₄ catalyst under transfer hydrogenolysis conditions", **XXVI SCI (Italian Chemistry Society) National Conference, Paestum (SA) (Italy), 10-14 September 2017**
(Oral Communication)
- Paone, E., Pietropaolo, R., Mauriello, F. "Catalytic transfer hydrogenolysis of diphenyl ether promoted by the bimetallic Pd/Ni system", **EUROPACAT 2017 13th European Congress on Catalysis - A Bridge to the future, Firenze (Italy), 27-31 August 2017**
(Poster Communication)

- Frontera, P., Bonaccorsi, L., Panzera, G., Malara, A., Paone, E., Mauriello, F. "Utilization of coffee silverskin in water remediation", **XIV AIMAT National Conference, Ischia Porto (Italy), 12-15 July 2017**
- Paone, E., Pietropaolo, R., Mauriello, F. "Selective transfer hydrogenolysis of aromatic ethers promoted by bimetallic Pd/Fe catalyst", **AMAM-ICAM 2017 Conference, Castellaneta (TA) (Italy), 5-9 June 2017**
- Paone, E., Pietropaolo, R., Mauriello, F. "Selective transfer hydrogenolysis of benzyl phenyl ether promoted by Pd/Fe₃O₄ catalyst", **VII National Workshop AICIng, Milano (Italy), 12-13 June 2017**
(Oral Communication)
- Paone, E., Pietropaolo, R., Mauriello, F. "Selective transfer hydrogenolysis of aromatic ethers promoted by Pd/Fe₃O₄ catalyst", **SciCaSi 2017, Messina (Italy), 9-10 February 2017**
(Oral Communication)
- Paone, E., Pietropaolo, R., Mauriello, F. "Selective transfer hydrogenolysis of benzyl phenyl ether promoted by heterogeneous Pd/Fe catalyst", **6° EuCheMS Chemistry Congress, Seville (Spain), 11-15 September 2016**
(Poster Communication)
- Mauriello, F., Paone, E., Musolino, M. G., Pietropaolo, R. "Selective transfer hydrogenolysis of aromatic ethers promoted by the heterogeneous Pd/Fe catalyst", **X National Congress AICIng, Udine (Italy), 11-14 September 2016**
- **3°SINCHEM Doctorate Winter School, Bologna (Italy), 15-17 February 2016**

AWARDS AND FELLOWSHIPS

- EUROPACAT 2017 Conference fellowship for PhD student granted by "Industrial Chemistry Division" of SCI (Italian Chemistry Society).
- XXVI SCI (Italian Chemistry Society) National Conference fellowship for PhD student granted by "Industrial Chemistry Division" of SCI (Italian Chemistry Society).
- Award for the best oral presentation in the "VII Workshop AICIng 2017".
- Finalist in the "ChiMiCapisce" Contest (2018) of Young Group of SCI (Italian Chemistry Society)
- XX National Conference of Catalysis and Industrial Chemistry Division of SCI (Italian Chemistry Society) fellowship for PhD student granted by "Industrial Chemistry Division" of SCI (Italian Chemistry Society).

TEACHING AND TUTOR ACTIVITIES

TUTOR ACTIVITIES

Laura Alonci, A.A. 2014/2015

“Produzione di Biodiesel a partire da oli esausti e analisi di impatto ambientale ed economico sulla città di Messina”. Role: Co-tutor bachelor’s thesis

Sofia Errigo, A.A. 2015/2016

“Biodiesel di seconda generazione a partire da olii esausti, il caso studio della città di Reggio Calabria”. Role: Co-tutor bachelor’s thesis

Gaetano Bevacqua, A.A. 2015/2016

“Produzione di chemicals ed energia pulita a partire da scarti di produzione del Biodiesel”. Role: Co-tutor bachelor’s thesis

Francesco Tassone, A.A. 2015/2016

“Valorizzazione di scarti ligno-cellulosici prodotti dalla produzione e dal consumo di caffè in sostanze chimiche ad alto valore aggiunto”. Role: Co-tutor bachelor’s thesis

Mariolina Mazzeo, A.A. 2015/2016

“Produzione di Energia e chemicals a partire da scarti cellulosici”. Role: Co-tutor bachelor’s thesis

Giulia Martino, A.A. 2016/2017

“Valorizzazione di residui e sottoprodotti olivicoli per la produzione di bio-chemicals”. Role: Co-tutor bachelor’s thesis

Angela Amoroso, A.A. 2016/2017

“Monitoraggio dei metalli essenziali e pesanti nel sistema di acque pubbliche della città di Reggio Calabria”. Role: Co-tutor bachelor’s thesis

Sofia Errigo, A.A. 2017/2018

“Progettazione e sviluppo di nanomateriali sostenibili per la produzione di biochemicals”. Role: Co-tutor master’s thesis

Lavinia Branca, A.A. 2017/2018

“Valorizzazione di derivati cellulosici per la produzione di biochemical e biocombustibili”. Role: Co-tutor bachelor’s thesis

Mariangela Maesano, A.A. 2017/2018

“Valorizzazione di biomasse lignocellulosiche per la produzione di composti aromatici”. Role: Co-tutor bachelor’s thesis

TEACHING ASSISTANT AND EXAM COMMITTEE MEMBER

A.A. 2015/2016

Course: "Chemistry for Environment and Energy" – 6 CFU, Bachelor Degree in Civil and Environmental Engineering

A.A. 2016/2017

Course: "Chemistry for Environment and Energy" – 6 CFU, Bachelor Degree in Civil and Environmental Engineering

Course: "Chemistry" – 9 CFU, Bachelor Degree in Industrial Engineering

Course: "Chemistry" – 9 CFU, Bachelor Degree in Civil and Environmental Engineering

Course: "Chemistry" – 6 CFU, Bachelor Degree in Information Engineering

Course: "Chemistry II" – 6 CFU, Master Degree in Environmental Engineering

Course: "Air, Water and Soil pollution" – 6 CFU, Master Degree in Environmental Engineering

A.A. 2017/2018

Course: "Chemistry for Environment and Energy" – 6 CFU, Bachelor Degree in Civil and Environmental Engineering

Course: "Chemistry" – 9 CFU, Bachelor Degree in Industrial Engineering

Course: "Chemistry" – 9 CFU, Bachelor Degree in Civil and Environmental Engineering

Course: "Chemistry" – 6 CFU, Bachelor Degree in Information Engineering

Course: "Chemistry II" – 6 CFU, Master Degree in Environmental Engineering

Course: "Air, Water and Soil pollution" – 6 CFU, Master Degree in Environmental Engineering

LANGUAGES

ENGLISH **Level B2**

ITALIAN **Native Language**

REGGIO CALABRIA, 10 DICEMBRE 2018

Emilia Paone