

Dottoranda in Ingegneria dei Prodotti e dei Processi Industriali presso l'Università degli Studi di Napoli Federico II, Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale. Visiting Researcher presso Department of Biomedical, Chemical and Environmental Engineering, University of Cincinnati (Ohio, USA) nel periodo Marzo-Agosto 2016.

#### **Ambiti e prospettive di ricerca:**

Processi di ossidazione avanzata (A.O.P.) per il trattamento di acque reflue civili e industriali. Sviluppo di catalizzatori opportunamente modificati per la produzione di idrogeno a partire da organici contenuti in correnti liquide inquinate mediante processi fotocatalitici ad energia solare.

Autrice di pubblicazioni (su riviste internazionali e capitoli di libri), tra le quali:

- S. Satyro, R. Marotta, **L. Clarizia**, I. Di Somma, G. Vitiello, G. Pinto, R. F. Dantas, M. Dezotti and R. Andreozzi, "*Removal of EDDS and copper from waters by sacrificial TiO<sub>2</sub> photocatalysis under simulated UV-solar conditions*", Chemical Engineering Journal 251(2014) 257–268.
- **L. Clarizia**, R. Andreozzi, R. Marotta, D. Spasiano, I. Di Somma, "*Copper modified-TiO<sub>2</sub> catalysts for hydrogen production through photoreforming of organics. A short review*", International Journal of Hydrogen Energy 39 (2014) 16812–16831.
- I. Di Somma, **L. Clarizia**, S. Satyro, D. Spasiano, R. Marotta, R. Andreozzi, "*A kinetic study of the simultaneous removal of EDDS and cupric ions from acidic aqueous solutions by TiO<sub>2</sub>-based photocatalysis under artificial solar light irradiation and deaerated batch conditions*", Chemical Engineering Journal 270 (2015) 519–527.
- **L. Clarizia**, G. Vitiello, G. Luciani, I. Di Somma, R. Andreozzi, R. Marotta, "*In situ photodeposited nanoCu on TiO<sub>2</sub> as a catalyst for hydrogen production under UV/visible radiation*", Applied Catalysis A: General 518 (2016) 142–149.
- **L. Clarizia**, I. Di Somma, R. Marotta, P. Minutolo, R. Villamaina, R. Andreozzi, "*Photocatalytic reforming of formic acid for hydrogen production in aqueous solutions containing cupric ions and TiO<sub>2</sub> suspended nanoparticles under UV-simulated solar radiation*", Applied Catalysis A: General 518 (2016) 181–188.
- L. Onotri, M. Race, **L. Clarizia**, M. Guida, M. Alfe', R. Marotta, R. Andreozzi, "*Solar photocatalytic processes for treatment of soil washing wastewater*", Chemical Engineering Journal (2016): In press.
- S. Satyro, M. Race, R. Marotta, M. Dezotti, M. Guida, **L. Clarizia**, "*Photocatalytic processes assisted by artificial solar light for soil washing effluent treatment*", Environmental Science and Pollution Research (2016): In press.
- **L. Clarizia**, I. Di Somma, L. Onotri, R. Marotta, R. Andreozzi, "*Kinetic modeling of hydrogen generation over nano-Cu<sub>(s)</sub>/TiO<sub>2</sub> catalyst through photoreforming of alcohols*", Catalysis Today 281 (2017) 117–123.
- R. Lucchetti, L. Onotri, **L. Clarizia**, F. Di Natale, I. Di Somma, R. Andreozzi, R. Marotta, "*Removal of nitrate and simultaneous hydrogen generation through photocatalytic reforming of glycerol over "in situ" prepared zero-valent nano copper/P25*", Applied Catalysis B: Environmental 202 (2017) 539–549.

- R. Lucchetti, A. Siciliano, **L. Clarizia**, D. Russo, I. Di Somma, F. Di Natale, M. Guida, R. Andreozzi, R. Marotta, “*Sacrificial photocatalysis: removal of nitrate and hydrogen production by nano-copper loaded P25 titania. A kinetic and ecotoxicological assessment*”, Environmental Science and Pollution Research (2017): In press.
- **L. Clarizia**, D. Russo, I. Di Somma, R. Marotta, R. Andreozzi, “*Homogeneous photo-Fenton processes at near neutral pH: A review*”, Applied Catalysis B: Environmental 209 (2017) 358–371.
- S. Satyro, **L. Clarizia**, I. Di Somma, R. Marotta, R. F. Dantas, M. Dezotti and R. Andreozzi, in Proceedings of the 7th International Conference Environmental Engineering and Management: Integration Challenges for Sustainability, Conference Abstracts Book, eds. A. M. Buburuzan, B. M.a Robu, C. Teodosiu (POLITEHNIUM Publishing House, Iasi, 2013), p. 125.
- **L. Clarizia**, M. Race, L. Onotri, I. Di Somma, R. Andreozzi, R. Marotta, “*Removal of copper, iron and zinc from soil washing effluents containing ethylenediaminedisuccinic acid as chelating agent through sunlight driven nano-TiO<sub>2</sub>-based photocatalytic processes*” in Nanotechnologies for Environmental Remediation, eds. G. Lofrano, G. Libralato, J. Brown, (Springer International Publishing AG, Charm, 2016): In press.