

CURRICULUM VITAE

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Nationality	Italian
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Academic Positions

01/05/2016 - present	Associate Professor, Department of Civil Engineering, University of Salerno (Italy)
01/11/2009-01/05/2016	Assistant professor (tenured), Department of Civil Engineering, University of Salerno (Italy)
01/11/2005-31/10/2009	Assistant professor, Department of Civil Engineering, University of Salerno (Italy)

Education, degrees and training

01/04/2004	PhD in "Civil and Environmental Engineering", Department of Civil Engineering, University of Salerno (Italy)
01/12/2000 – 30/11/2003	PhD student in "Civil and Environmental Engineering", Department of Civil Engineering, University of Salerno (Italy)
01/03/1999 – 30/11/2000	Research assistant, Department of Civil Engineering, University of Salerno (Italy)
21/01/1999	MSc in "Civil Engineering – Hydraulic field", University of Salerno (Italy)

1. Coordination of research groups and projects.

- ✓ Coordinator of "European PhD School on Advanced Oxidation Processes" (www.aops-school.com) (53 scientific committee members from 14 European Countries, 36 PhD students, 20 Alumni);
- ✓ Leader of Working Group 4 (Technologies efficient/economically viable to meet the current wastewater reuse challenges; 109 members from 29 Countries), COST Action "ES1403: New and emerging challenges and opportunities in wastewater reuse (NEREUS)", (http://www.cost.eu/domains_actions/essem/Actions/ES1403?management);
- ✓ Supervisor/co-supervisor of PhD students (total 6: 2 ongoing (list in Annex 1.1));
- ✓ Supervisor/co-supervisor of MSc (total 36, 14 developed in the context of Erasmus mobility program) and BSc students (total: 3) for thesis projects (list in Annex 1.2);

- ✓ Supervisor/co-supervisor of visiting PhD (3), MSc (5) and BSc (2) students for their thesis in the context of international mobility programs (list in Annex 1.3);
- ✓ Coordinator of local (8) and international (2) research projects (list in Annex 1.4);
- ✓ Task leader and investigator in national (5) and international (6) projects (list in Annex 1.5);

2. National and international scientific reputation and commitments/roles

- ✓ 03/2013-03/2016: member of scientific committee of European Commission on "Emerging and Newly Identified Health Risks (SCENIHR)" established with decision 2008/721/EC;
- ✓ 06/2010-10/2014: expert for "Earth System Science and Environmental Management (ESSEM)" domain of COST Actions;
- ✓ Journal editor/editorial boards
 - 04/07/2016 -: editorial board member for Heliyon journal (Elsevier);
 - 05/03/2013-: Editor of "Water Science & Technology" and "Water Science & Technology: Water Supply" (IWA Publishing);
 - 06/10/2011-04/03/2013: Associate Editor of "Water Science & Technology" and "Water Science & Technology: Water Supply" (IWA Publishing);
 - Guest Editor of a special issue of "Desalination and Water Treatment" journal (Elsevier) (Vol. 23, issues 1-3, 2010);
 - Reviewer for 75 journals, since 2007: 305 papers reviewed (32 in 2016; 21 in 2015; 22 in 2014; 42 in 2013; 63 in 2012; 49 in 2011; 33 in 2010; 16 in 2009; 19 in 2008; 9 in 2007).
- ✓ Visiting Scientist/Professor
 - 06/2014-07/2014: Visiting Scientist/Scholar at University of Almeria (Spain) in the context of Erasmus mobility program;
 - 2007-2012: short terms visits for teaching/seminars, in the context of Erasmus mobility program at: Institute of Environmental Science, Bogazici University (Istanbul, Turkey, June 2007); Civil and Environmental Engineering Department, University of Cyprus (Nicosia, Cyprus, October 2007); Faculty of Chemistry, Adam Mickiewicz University of Poznan (Poland, May 2010); Corlu Faculty of Engineering, Namik Kemal University (Tekirdag, Turkey, May 2012).
 - 05/2011-06/2011: Visiting Scientist/Scholar in the context of Erasmus mobility program at Nanotechnology and Integrated Bioengineering Centre (NIBEC), School of Engineering, University of Ulster (Belfast, UK);
 - 09/2008-02/2009: Visiting Scientist at Plataforma Solar de Almeria (Spain);
 - 07/2005-07/2005: Visiting Scientist at Water Chemistry Laboratory, University of Wisconsin Madison (Madison, USA);
 - 11/2004-12/2004: Visiting scientist at Water Chemistry Laboratory, University of Wisconsin Madison (Madison, USA).
- ✓ Prizes/awards for scientific activity
 - (Italian) Research Quality Assessment (VQR) 2004-2010: 5 papers submitted to be evaluated by Italian "National Agency for the Evaluation of the University and Research" (ANVUR) in the context of VQR 2004-2010, were evaluated all at the top rank (excellent).

- Most downloaded/cited papers: 4 papers are among the “Highly cited papers” according to Web of Science; 3 papers are also among the “Most cited articles” of “Science of the Total Environment” and “Water Research” journals, respectively.
- Prizes/awards:
 - ✓ Best poster: “Photocatalytic Disinfection of Antibiotic Resistant Bacteria and Resulting Antibiotic Resistance Gene Transfer in Urban Wastewater”, Patrick SM Dunlop, M Ciavola, L Rizzo, DA McDowell, JA Byrne, 13th IWA Leading Edge Conference on Water and Wastewater Technologies, Jerez de la Frontera 13-16 June 2016, Spain.
 - ✓ “Excellent poster presentation” prize awarded to Giuseppina Iervolino, Vincenzo Vaiano, Diana Sannino, Luigi Rizzo and Paolo Ciambelli authors of the poster entitled “Photocatalytic conversion of glucose to H₂ over LaFeO₃ perovskite nanoparticles”, International conference on nanotechnology based innovative applications for the environment, 20-23 March 2016, Rome, Italy.
 - ✓ Awarded outstanding reviewer for “Science of the Total Environment” journal on September 2015 because within the top 10th percentile of reviewers for the Journal, in terms of the number of manuscript reviews completed in the last two years.
 - ✓ 2011 Cyprus Research National Award 'Nikos Symeonides' for the project PHAREM coordinated by Dr. Despo Fatta-Kassinou, October 3, 2012.
 - ✓ Finalist (early 10 of 95) at “Start-cup Campania” award with the project SoDASWaT, “Solar driven water treatment plant”, October 2nd, 2012.
 - ✓ Finalist at “La tua idea per il Paese” award promoted by ItaliaCamp, with the project SoDASWaT, “Solar driven water treatment plant”, 2012.
- ✓ Invited/keynote speaker at national (4) and international (14) conferences/meetings (list in Annex 1.6).
- ✓ Scientific Committee member and chairmen in international conferences (list in Annex 1.7).
- ✓ Expert for the evaluation of research projects
 - COST Action, external expert since 05/2015;
 - The Natural Environment Research Council (NERC) (UK);
 - Swiss National Science Foundation (Berne, Switzerland);
 - National Fund for Scientific & Technological Development (FONDECYT), Chilean Governmental Agency for research projects funding (Santiago, Chile);
 - National Centre of Science and Technology Evaluation, Ministry of Education and Science (Astana, Republic of Kazakhstan);
 - Research Promotion Foundation (Nicosia, Cyprus);
 - Italian Ministry for University and Research (MIUR);
 - Register of Industrial research experts, MIUR - D.Lgs. 297/1999;
 - Ministry of Scientific and Technological Development, Republic of Serbia.
- ✓ Networking
 - 23/05/2014-13/05/2018: Management Committee member of COST Action "ES1403: New and emerging challenges and opportunities in wastewater reuse

(NEREUS)",
(http://www.cost.eu/domains_actions/essem/Actions/ES1403?management);

- 05/2014-: NORMAN (Network of reference laboratories, research centres and related organisations for monitoring of emerging environmental substances, <http://www.norman-network.net/?q=Home>) and WG5 (Wastewater Reuse and Contaminants of Emerging Concern) member;
- 24/02/2009-22/09/2013: Management Committee member of COST Action “TD0803: Detecting evolutionary hot spots of antibiotic resistances in Europe (DARE)”, (http://w3.cost.esf.org/index.php?id=205&action_number=TD0803);
- 16/02/2005-13/03/2009: member of COST Action “636: Xenobiotics in the Urban Water Cycle”, (http://w3.cost.eu/index.php?id=205&action_number=636).

✓ Academic contact person for the following Erasmus+ agreements

1. Bogazici University (Istanbul, Turkey);
2. Namik Kemal University (Tekirdag, Turkey)
3. University of Almeria (Spain);
4. Universidad Politécnica de Valencia (Alcoi, Spain);
5. University of Cyprus (Nicosia, Cyprus);
6. Technical University of Crete (Chania, Greece);
7. University of Ulster (Belfast, UK);
8. Universidade Católica Portuguesa (Porto, Portugal)
9. University of Karlsruhe (Germany)
10. Universite de Lorraine (Nancy, France)

✓ Participation in PhD evaluation committee of 5 PhD candidates (list in Annex 1.8)

3. Teaching activity

- ✓ Bachelor’s (Laurea) and Master of Science’s (Laurea Magistrale) degree courses at University of Salerno (Italy) (1 CFU= 10 hours)
 - 2016/2017, 2015/2016, 2014/2015: lecturer for the course “Sanitary and Environmental Engineering” (12 CFU), for MSc students;
 - 2010/2011, 2011/2012, 2012/2013 and 2013/2014: lecturer for the courses “Sanitary and Environmental Engineering” (8 of 12 CFU) and “Remediation of contaminated soils” (4 of 6 CFU), for MSc students;
 - 2006/2007, 2007/2008, 2008/2009 and 2009/2010: lecturer for the courses “Wastewater treatment Plants II” (6 CFU) and “Remediation of contaminated soils” (3 of 6 CFU), for MSc students; lecturer of “Wastewater Treatment Plants I” (2 of 6 CFU) for undergraduate students;
 - 2005/2006: lecturer for the course “Wastewater treatment Plants II” (6 CFU), for MSc students.
- ✓ PhD courses/lectures
 - “Publishing research results”, lecture for PhD students held in the context of the 1st Summer School on Advanced Oxidation Processes organized by “European PhD School on Advanced Oxidation Processes”, Fisciano 15-19 June 2015.
 - “Removal of Arsenic (III) and (V) from drinking water by photocatalysis and adsorption”, lecture for PhD students held in the context of 1st Summer School on

Advanced Oxidation Processes organized by “European PhD School on Advanced Oxidation Processes”, Fisciano 15-19 June 2015.

- “Presentation and publication of research results”, short course (1 CFU) for PhD students held in the context of Doctorate in “Risk and sustainability in civil, environmental and construction engineering”, University of Salerno, Faculty of Engineering. March 2015.
- “Presentation and publication of research results”, short course (1 CFU) for PhD students held in the context of Doctorate in “Civil Engineering for Environment protection”, University of Salerno, Faculty of Engineering. July 2013.

4. Institutional offices and roles at University of Salerno

- 12/2005-: member of the PhD advisory board at Department of Civil Engineering.
- 04/2013-01/2016: Coordinator of "International Mobility" Committee of Department of Civil Engineering;
- 04/2013-01/2016: member of “Research” committee of Department of Civil Engineering.

5. Publications

102 papers: 62 in peer review indexed journals, 22 in proceedings of international conferences, 13 book chapters and 5 in proceedings of Italian Conferences. Moreover, he is co-editor of 3 books. 1729 citations, h-index 21 in “Web of Science”; 1927 citations, h-index 22, in “SCOPUS”; 2764 citations, h-index 23, in “Google Scholar”; 2177 citations, h-index 23 ResearchGate (last update 02/01/2017).

Publications in peer review indexed journals (SCOPUS and/or Web of knowledge/Thomson Reuters Impact Factor (IF) of the publication year or the last one available is given between brackets; journal rank (Quartile in category) according to “Journal Citation “Reports®” (2015) by Thomson Reuters is also given)

1. Fiorentino A., **Rizzo L.**, Guilloteau H., Bellanger X., Merlin C. (2016). Comparing TiO₂ photocatalysis and UV-C radiation for inactivation and mutants formation of *Salmonella typhimurium* TA102. Environmental Science and Pollution Research, DOI: 10.1007/s11356-016-7981-6, in press (**IF: 2.760; Q2**).
2. Vaiano V., Iervolino G., **Rizzo L.**, Sannino D. (2016). Advanced Oxidation Processes for the removal of food dyes in wastewater. Current Organic Chemistry, in press. (**IF: 1.949; Q3**).
3. Gatica J., Tripathi V., Green S., Manaia C., Berendonk T., Cacace D., Merlin C., Kreuzinger N., Schwartz T., Fatta-Kassinos D., **Rizzo L.**, Schwermer C.U., Garelick H., Jurkevitch E., Cytryn E. (2016). High throughput analysis of integron gene cassettes in wastewater environments. Environmental Science and Technology, DOI: 10.1021/acs.est.6b03188, in press. (**IF: 5.393; Q1**).
4. Formisano F., Fiorentino A., **Rizzo L.**, Carotenuto M., Pucci L., Giugni M., Lofrano G. (2016). Inactivation of *Escherichia coli* and *Enterococci* in urban wastewater by sunlight/PAA and sunlight/H₂O₂ processes. Process Safety and Environmental Protection, in press. (**IF: 2.078; Q2**).
5. Ferro G., Guarino F., Cicatelli A., **Rizzo L.** (2016). β -lactams resistance gene quantification in an antibiotic resistant *Escherichia coli* water suspension treated by advanced oxidation

- with UV/H₂O₂. *Journal of Hazardous Materials*, doi:10.1016/j.jhazmat.2016.03.014, in press. (IF: 4.836; Q1).
6. Iervolino G., Vaiano V., Sannino D., **Rizzo L.**, Ciambelli P. (2016). Photocatalytic Conversion of Glucose to H₂ over LaFeO₃ Perovskite Nanoparticles. *Chemical Engineering Transactions* 47, 283-288. DOI: 10.3303/CET1647048.
 7. Iervolino G., Vaiano V., Murcia J.J., **Rizzo L.**, Ventre G., Pepe G., Campiglia P., Hidalgo M.C., Navío J.A., Sannino D. (2016). Photocatalytic hydrogen production from degradation of glucose over fluorinated and platinized TiO₂ catalysts. *Journal of Catalysis* 339, 47-56. doi:10.1016/j.jcat.2016.03.032 (IF: 7.354; Q1).
 8. Ferro G., Guarino F., Castiglione S., **Rizzo L.** (2016). Antibiotic resistance spread potential in urban wastewater effluents disinfected by UV/H₂O₂ process. *Science of The Total Environment* 560–561, 29–35. doi:10.1016/j.scitotenv.2016.04.047 (IF: 3.976; Q1).
 9. Costa Miranda A., Lepretti M., **Rizzo L.**, Caputo I., Vaiano V., Sacco O., Silva Lopes W., Sannino D. (2016). Surface water disinfection by chlorination and advanced oxidation processes: Inactivation of an antibiotic resistant E. coli strain and cytotoxicity evaluation. *Science of The Total Environment* 554–555, 1–6. doi:10.1016/j.scitotenv.2016.02.189 (IF: 3.976; Q1).
 10. Vaiano V., Iervolino G., Sannino D., **Rizzo L.**, Sarno G. (2016). MoOx/TiO₂ immobilized on quartz support as structured catalyst for the photocatalytic oxidation of As(III) to As(V) in aqueous solutions. *Chemical Engineering Research and Design* 109, 190-199. doi:10.1016/j.cherd.2016.01.029 (IF: 2.525; Q2).
 11. Iervolino G., Vaiano V., Sannino D., **Rizzo L.**, Ciambelli P. (2016). Production of hydrogen from glucose by LaFeO₃ based photocatalytic process during water treatment. *International Journal of Hydrogen Energy* 41, 959-966. DOI: 10.1016/j.ijhydene.2015.10.085 (IF: 3.205; Q2).
 12. Iervolino G., Vaiano V., **Rizzo L.**, Sarno G., Farina A., Sannino D. (2016). Removal of Arsenic from drinking water by photo-catalytic oxidation on MoOx/TiO₂ and adsorption on γ-Al₂O₃. *Journal of Chemical Technology and Biotechnology* 91, 88-95. DOI 10.1002/jctb.4581 (IF: 2.738; Q1).
 13. Vaiano V., Iervolino G., Sarno G., Murcia J.J., Sannino D., **Rizzo L.**, Hidalgo M.C., Navío J.A. (2015). Simultaneous production of CH₄ and H₂ from photocatalytic reforming of glucose on Pd/TiO₂. *Oil and Gas Science and Technologies* 70(5), 891-902. (IF: 1.087; Q1).
 14. Vaiano, V., Iervolino, G., Sannino, D., **Rizzo, L.**, Sarno, G., Ciambelli, P., Isupova, L. (2015). Food Azo-Dyes Removal from Water by Heterogeneous Photo-Fenton with LaFeO₃ Supported on Honeycomb Corundum Monoliths. *Journal of Environmental Engineering* 141(12): 04015038, DOI: 10.1061/(ASCE)EE.1943-7870 (IF: 1.125; Q2).
 15. Iervolino G., Vaiano V., Sannino D., **Rizzo L.**, Sarno G., Ciambelli P., Isupova L.A. (2015). Influence of Operating Conditions in the Photo-Fenton Removal of Tartrazine on Structured Catalysts. *Chemical Engineering Transactions* 43, 979-984. DOI: 10.3303/CET1543164.
 16. Ferro G., Polo-López M.I., Martínez-Piernas A., Fernández-Ibáñez P., Agüera A., **Rizzo L.** (2015). Cross-contamination of residual emerging contaminants and antibiotic resistant bacteria in lettuce crops and soil irrigated with wastewater treated by sunlight/H₂O₂. *Environmental Science and Technology* 49, 11096–11104. DOI: 10.1021/acs.est.5b02613 (IF: 5.393; Q1).
 17. Fatta-Kassinos D., Manaia C., Berendonk T.U., Cytryn E., Bayona J., Chefetz B., Slobodnik J., Kreuzinger N., **Rizzo L.**, Malato S., Lundy L., Ledin A. (2015). COST Action ES1403:

New and Emerging challenges and opportunities in wastewater REUSE (NEREUS). *Environmental Science Pollution Research*, 22:7183–7186. DOI 10.1007/s11356-015-4278-0 (IF: 2.760; Q2).

18. Fiorentino A., Ferro G., Castro Alferez M., Polo-López M.I., Fernández-Ibañez F., **Rizzo L.** (2015). Inactivation and regrowth of multidrug resistant bacteria in urban wastewater after disinfection by solar-driven and chlorination processes. *Journal of Photochemistry and Photobiology B: Biology* 148, 43–50. DOI: 10.1016/j.jphotobiol.2015.03.029 (IF: 3.035; Q2).
19. Ferro G., Fiorentino A., Castro Alferez M., Polo-López M.I., **Rizzo L.**, Fernández-Ibañez P. (2015). Urban wastewater disinfection for agricultural reuse: effect of solar driven AOPs in the inactivation of a multidrug resistant *E. coli* strain. *Applied Catalysis B: Environmental* 178, 65-73, DOI: 10.1016/j.apcatb.2014.10.043. (IF: 8.328; Q1).
20. **Rizzo L.**, Fiorentino A., Grassi M, Attanasio D., Guida M. (2015). Advanced treatment of urban wastewater by sand filtration and graphene adsorption for wastewater reuse: Effect on a mixture of pharmaceuticals and toxicity. *Journal of Environmental Chemical Engineering* 3, 122-128. DOI:10.1016/j.jece.2014.11.011.
21. Dunlop P.S.M., Ciavola M., **Rizzo L.**, McDowell D.A., Byrne J.A. (2015). Effect of Photocatalysis on the Transfer of Antibiotic Resistance Genes in Urban Wastewater. *Catalysis Today* 240, 55-60. DOI: 10.1016/j.cattod.2014.03.049. (IF: 4.312; Q1).
22. Vaiano V., Iervolino G., Sannino D., **Rizzo L.**, Sarno G., Farina A. (2014). Enhanced photocatalytic oxidation of arsenite to arsenate in water solutions by a new catalyst based on MoOx supported on TiO₂. *Applied Catalysis B: Environmental* 160–161, 247–253 (IF: 7.435; Q1).
23. **Rizzo L.**, Ferro G. Manaia C.M. (2014). Wastewater disinfection by solar heterogeneous photocatalysis: effect on tetracycline resistant/sensitive *Enterococcus* strains. *Global NEST Journal* 16(3), 455-462. (IF: 0.468; Q4).
24. **Rizzo L.**, Della Sala A., Fiorentino A., Li Puma G. (2014). Disinfection of urban wastewater by solar driven and UV lamp – TiO₂ photocatalysis: Effect on a multi drug resistant *Escherichia coli* strain. *Water Research* 53, 145-152. DOI: 10.1016/j.watres.2014.01.020. (IF: 5.528; Q1).
25. **Rizzo L.**, Sannino D., Vaiano V., Sacco O., Scarpa A., Pietrogiacomini D. (2014). Effect of solar simulated N-doped TiO₂ photocatalysis on the inactivation and antibiotic resistance of an *E. coli* strain in biologically treated urban wastewater. *Applied Catalysis B: Environmental* 144, 369-378. DOI: 10.1016/j.apcatb.2013.07.033. (IF: 7.435; Q1) (Highly cited paper, Web of Science).
26. **Rizzo L.**, Selcuk H., Nikolaou A.D., Meriç Pagano S., Belgiorno V. (2014). A comparative evaluation of ozonation and heterogeneous photocatalytic oxidation processes for reuse of secondary treated urban wastewater. *Desalination and Water treatment* 52 (7-9), 1414-1421. DOI: 10.1080/19443994.2013.787953. (IF: 1.173; Q3)
27. Grassi M., **Rizzo L.**, Farina A. (2013). Endocrine disruptors compounds, pharmaceuticals and personal care products in urban wastewater: implications for agricultural reuse and their removal by adsorption process. *Environmental Science and Pollution Research* 20, 3616-3628. DOI: 10.1007/s11356-013-1636-7. (IF: 2.757; Q2)
28. **Rizzo L.**, Fiorentino A., Anselmo A. (2013). Advanced treatment of urban wastewater by UV radiation: Effect on antibiotics and antibiotic-resistant *E. coli* strains. *Chemosphere* 92, 171-176. DOI: 10.1016/j.chemosphere.2013.03.021. (IF: 3.499; Q1).

29. Varela A.R., Ferro G., Vredenburg J., Yanik M., Vieira L., **Rizzo L.**, Lameiras C., Manaia C.M. (2013). Vancomycin resistant enterococci: From the hospital effluent to the urban wastewater treatment plant. *Science of The Total Environment* 450-451, 155-161. DOI: 10.1016/j.scitotenv.2013.02.015. (**IF: 3.163; Q1**).
30. **Rizzo L.**, Manaia C., Merlin C., Schwartz T., Dagot C., Ploy M.C., Michael I., Fatta-Kassinos D. (2013). Urban wastewater treatment plants as hotspots for antibiotic resistant bacteria and genes spread into the environment: a review. *Science of the Total Environment* 447, 345-360. DOI: 10.1016/j.scitotenv.2013.01.032. (**IF: 3.163; Q1**) (Highly cited paper, Web of Science).
31. Michael, I., **Rizzo, L.**, Mc Ardell, C.S., Manaia, C.M., Merlin, C., Schwartz, T., Dagot, C., Fatta-Kassinos, D. (2013). Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: A review. *Water Research* 47, 957-995. DOI: 10.1016/j.watres.2012.11.027. (**IF: 5.323; Q1**) (Highly cited paper, Web of Science).
32. Daskalaki V. M., Fulgione I., Frontistis Z., **Rizzo L.**, Mantzavinos D. (2013). Solar light-induced photoelectrocatalytic degradation of bisphenol-A on TiO₂/ITO film anode and BDD cathode. *Catalysis Today* 209, 74-78. DOI: 10.1016/j.cattod.2012.07.026. (**IF: 3.309; Q1**).
33. Passio L., **Rizzo L.**, Fuchs S. (2012). Two-phase anaerobic digestion of partially acidified sewage sludge: a pilot plant study for safe sludge disposal in developing countries. *Environmental Technology* 33, 2089-2095. DOI: 10.1080/09593330.2012.660645. (**IF: 1.606; Q3**).
34. **Rizzo L.**, Fiorentino A., Anselmo A. (2012). Effect of solar radiation on multidrug resistant *E. coli* strains and antibiotic mixture photodegradation in wastewater polluted stream. *Science of the Total Environment* 427-428, 263-268. DOI: 10.1016/j.scitotenv.2012.03.062. (**IF: 3.258; Q1**).
35. Bottini A., **Rizzo L.** (2012). Phosphorus recovery from urban wastewater treatment plant sludge liquor by ion exchange. *Separation Science and Technology* 47, 613-620. DOI: 10.1080/01496395.2011.627904. (**IF: 1.164; Q3**).
36. Russo L., **Rizzo L.**, Belgiorno V. (2012). Ozone oxidation and aerobic biodegradation with spent mushroom compost for detoxification and benzo(a)pyrene removal from contaminated soil. *Chemosphere* 87, 595-601. DOI: 10.1016/j.chemosphere.2012.01.012. (**IF: 3.137; Q1**).
37. Dunlop P.S.M., Ciavola M., **Rizzo L.**, Byrne J.A. (2011). Inactivation and injury assessment of *E. coli* during solar and photocatalytic disinfection in LDPE bags. *Chemosphere* 85, 1160-1166. DOI: 10.1016/j.chemosphere.2011.09.006 (**IF: 3.206; Q1**).
38. **Rizzo L.** (2011). Bioassays as a tool for evaluating advanced oxidation processes in water and wastewater treatment. *Water Research* 45, 4311-4340. DOI: 10.1016/j.watres.2011.05.035. (**IF: 4.865; Q1**).
39. **Rizzo L.**, Lofrano G., Belgiorno V. (2010). Olive mill and winery wastewaters pre-treatment by coagulation with chitosan. *Separation Science and Technology* 46, 2447 - 2452. DOI: 10.1080/01496395.2010.487845. (**IF: 1.015; Q3**).
40. Russo L., **Rizzo L.**, Belgiorno V. (2010). PAHs contaminated soils remediation by ozone oxidation. *Desalination and Water Treatment* 23, 1-12. DOI: 10/5004/dwt.2010.1990. (**IF: 0.742; Q3**).
41. Zapata A., Oller, I., **Rizzo L.**, Hilgert S., Maldonado M.I., Sánchez-Pérez J.A., Malato S. (2010). Evaluation of operating parameters involved in solar photo-Fenton treatment of wastewater: interdependence of initial pollutant concentration, temperature and iron

- concentration. *Applied Catalysis B: Environmental* 97, 292-298. DOI: 10.1016/j.apcatb.2010.04.020. (IF: 4.749; Q1).
42. Klamerth N., **Rizzo L.**, Malato S., Maldonado Manuel I., Agüera A., Fernández-Alba A.R. (2010). Degradation of fifteen emerging contaminants at $\mu\text{g L}^{-1}$ initial concentrations by mild solar photo-Fenton in MWTP effluents. *Water Research* 44, 545-554. DOI: 10.1016/j.watres.2009.09.059. (IF: 4.546; Q1) (Highly cited paper, Web of Science).
 43. Dunlop P.S.M., Galdi A, McMurray T.A., Hamilton J.W.J., **Rizzo L.**, Byrne, J.A. (2010). Comparison of Photocatalytic Activities of Commercial Titanium Dioxide Powders Immobilised on Glass Substrates. *Journal of Advanced Oxidation Technologies*, 13(1), 99-106. ISSN: 12038407. (IF: 0.829; Q4).
 44. Lofrano G., **Rizzo L.**, Grassi M., Belgiorno V. (2009). Advanced oxidation of catechol: a comparison among photocatalysis, Fenton and photo-Fenton processes. *Desalination* 249, 878–883. DOI: 10.1016/j.desal.2009.02.068. (IF: 2.034; Q1).
 45. **Rizzo L.**, Meric S., Guida M., Kassinos D., Belgiorno V. (2009). Heterogenous photocatalytic degradation kinetics and detoxification of an urban wastewater treatment plant effluent contaminated with pharmaceuticals. *Water Research* 43, 4070-4078. DOI: 10.1016/j.watres.2009.06.046. (IF: 4.355; Q1).
 46. **Rizzo L.** (2009). Inactivation and injury of total coliform bacteria after primary disinfection of drinking water by TiO_2 photocatalysis. *Journal of Hazardous Materials*, 165, 48-51. DOI: 10.1016/j.jhazmat.2008.09.068. (IF: 4.144; Q1).
 47. **Rizzo L.**, Meric S., Kassinos D., Guida M., Russo F., Belgiorno V. (2009). Degradation of diclofenac by TiO_2 photocatalysis: UV absorbance kinetics and process evaluation through a set of toxicity bioassays. *Water Research*, 43, 979-988. DOI: 10.1016/j.watres.2008.11.040. (IF: 4.355; Q1).
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 49. **Rizzo L.**, Della Rocca C., Belgiorno V., Bekbolet M. (2008). Application of photocatalysis as a post treatment method of a heterotrophic–autotrophic denitrification reactor effluent. *Chemosphere*, 72, 1706-1711. DOI: 10.1016/j.chemosphere.2008.04.070. (IF: 3.054; Q1).
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1. **Rizzo L.**, Belgiorno V. (2012). Emerging contaminants into the environment: contamination pathways and control. Published by ASTER, ISBN 978-1-4710-7606-0.
2. Belgiorno, V., Naddeo, V., **Rizzo L.** (2011). Water, wastewater and soil treatment by AOPs. Published by Aster, ISBN: 978-1446129678.
3. Nikolaou A., **Rizzo L.**, Selcuk H. (2007). Control of Disinfection By-Products in Drinking Water Systems. Nova Science Publishers, Inc., 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788. ISBN 88-7850-003-8.

6. Patent

(Italian) Patent application N°SA2014A000002: “New and highly stable metal transition oxides based catalysts for the oxidation of arsenite to arsenate in drinking water and preparation methods”.

Annex 1.1

Supervisor/co-supervisor of PhD students (total 6: 2 ongoing)

1. Mr. Ian Zammit, “Development of a new photocatalytic reactor for wastewater disinfection and subsequent application in crops irrigation: effect on antibiotic resistance transfer and ARB&ARG accumulation in crops”, Department of Civil Engineering, PhD School in “Risk and sustainability in civil, environmental and construction engineering”, University of Salerno, on-going (expected defence: end of 2019 – beginning of 2020). Supervisor: Prof. Luigi Rizzo.
2. Ms. Giuseppina Iervolino, “Exploring energy and resources recovery during innovative wastewater treatment by advanced oxidation processes”, Department of Industrial Engineering, PhD School in “Industrial Engineering”, University of Salerno, on-going (expected defence: first quarter 2017). Supervisor: Prof. Diana Sannino; co-supervisor: Prof. Luigi Rizzo.
3. Dr. Giovanna Ferro, “Wastewater disinfection by AOPs: effect on antibiotic resistance and contaminants of emerging concern”, Department of Civil Engineering, PhD School in “Civil and Environmental Engineering”, University of Salerno, PhD thesis successfully defended on 28/04/2016. Supervisor: Prof. Luigi Rizzo; co-supervisor: Dr. Pilar Fernandez Ibanez (Plataforma Solar de Almeria, Spain). Dr. Giovanna Ferro was also awarded “Doctor Europaeus” label and “EU PhD on Advanced Oxidation Processes” label.
4. Dr. Antonino Fiorentino, “Antibiotic resistance in stream: monitoring, modeling and effluent control by photocatalytic disinfection”, Department of Civil Engineering, PhD School in “Civil and Environmental Engineering”, University of Salerno, PhD thesis successfully defended on 13/03/2015. Supervisor: Prof. Luigi Rizzo; co-supervisor: Prof. Vincenzo Belgiorno.
5. Dr. Mariangela Grassi, “Removal of emerging contaminants from wastewater by adsorption: a comparison among conventional and non conventional adsorbents” Department of Civil Engineering, PhD School in “Civil and Environmental Engineering”, University of Salerno, PhD thesis successfully defended on 19/04/2011. Supervisor: Prof. Rodolfo Napoli; co-supervisor: Prof. Luigi Rizzo.
6. Dr. Lara Russo, “Processi combinati chimico/biologici per la bonifica di suoli contaminati da idrocarburi policiclici aromatici”, Department of Civil Engineering, PhD School in “Civil and Environmental Engineering”, University of Salerno, PhD thesis successfully defended on 2010. Supervisor: Prof. Vincenzo Belgiorno; co-supervisor: Prof. Luigi Rizzo.

Annex 1.2

MSc students (total 36, 14 developed in the context of Erasmus mobility program) supervised by Prof. Luigi Rizzo for their final career project.

1. Giuseppe Fiorillo, “Foto-disinfezione solare basata su sistemi eterogenei ad alta efficienza con radiazione visibile”, experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering) and partly at “Laboratory of Material Science” (Department of Industrial Engineering), University of Salerno. MSc final project successfully defended on 21/09/2016.
2. Francesco Biancullo, “Inactivation of antibiotic resistant E. coli by UV/Vis radiations and photocatalysis processes”, experimental work partly carried out at Nanotechnology and Integrated BioEngineering Centre (NIBEC), University of Ulster, Northern Ireland (UK) (September-December 2014), in the context of Erasmus Placement program and partly at Laboratory of Sanitary and Environmental Engineering, University of Salerno (January-February 2015). MSc final project successfully defended at University of Salerno on 27/02/2015.
3. Francesco Formisano, “Biological nutrients removal from urban wastewater by a biofilm membrane bioreactor (BF-MBR)” experimental work carried out at Department of Hydraulic and Environmental Engineering, Norwegian University of Science and Technology, Trondheim in the context of Erasmus program. MSc final project successfully defended at University of Salerno on 29/11/2013.
4. Giuseppina Iervolino, “Rimozione dell’arsenico dalle acque ad uso potabile mediante un processo di ossidazione foto catalitica e adsorbimento”, experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering) and “Laboratory of Material Science” (Department of Industrial Engineering), University of Salerno. MSc final project successfully defended on 18/11/2013.
5. Mario Cascone, “Trattamento avanzato di acque reflue urbane mediante adsorbimento: rimozione di contaminanti emergenti con reattore di grafene”, experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 13/11/2012.
6. Marco Bonadies, “Processi basati sulla reazione di Fenton per l’abbattimento di contaminanti emergenti nelle acque” experimental work carried out at University of Barcelona in the context of Erasmus program. MSc final project successfully defended on 27/09/2012.
7. Antonio Della Sala, “Effetto di processi di ossidazione avanzata a radiazione solare sui batteri resistenti agli antibiotici nelle acque reflue urbane” experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 12/06/2012.
8. Alberto Scarpa, “Urban and industrial wastewater treatment by advanced oxidation processes”, experimental work partly carried out at “Departamento de Ingeniería Química”, Universidad de Almeria (Spain), in the context of Erasmus mobility program, and partly at Laboratory of Sanitary and Environmental Engineering, University of Salerno. MSc final project successfully defended at University of Salerno on 12/06/2012.
9. Francesca Tersini, “Advanced treatment for the removal of emerging contaminants from urban wastewater treatment plants effluents: a comparison between adsorption and solar photo-Fenton processes”, experimental work partly carried out at “Departamento de Ingeniería Química”, Universidad de Almeria (Spain), in the context of Erasmus mobility program, and partly at Laboratory of Sanitary and Environmental Engineering, University of Salerno. MSc final project successfully defended at University of Salerno on 12/06/2012.

10. Jenny Ferro, "Selection and control of antibiotic resistant bacteria strains from wastewater treatment plants" experimental work partly carried out at Escola Superior de Biotecnologia, Universidade Católica Portuguesa (Porto, Portugal), in the context of Erasmus mobility program, and partly at Laboratory of Sanitary and Environmental Engineering, University of Salerno. MSc final project successfully defended at University of Salerno on 12/06/2012.
11. Ilaria Fulgione, "Electrochemical promotion of solar photocatalysis: degradation of endocrine disruptor bisphenol-A on Ti/TiO₂ films" experimental work carried out at "Department of Environmental Engineering", Technical University of Crete (Chania, Greece), in the context of Erasmus program. MSc final project successfully defended at University of Salerno on 26/04/2012.
12. Antonino Fiorentino, "Trattamento avanzato di acque reflue urbane con radiazione UV e successiva fotolisi solare: effetto sui batteri resistenti agli antibiotici", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 21/11/2011.
13. Marco Adinolfi, "Carbon and nitrogen removal from urban wastewater by membrane biological reactor and fouling characterization: a pilot plant study", experimental work carried out at Biochemical Engineering and Processes group, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (Caparica, Portugal) in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 25/07/2011.
14. Paolo Siano, "Enhanced biological phosphorous removal by anaerobic, aerobic/anoxic processes", experimental work carried out at Biochemical Engineering and Processes group, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (Caparica, Portugal) in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 29/04/2011.
15. Francesco Cerrato, "Biocatalytic membrane for wastewater treatment: effect of protein adsorption on membranes", experimental work carried out at Biochemical Engineering and Processes group, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (Caparica, Portugal) in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 29/04/2011.
16. Angelo Di Gennaro, "Degradazione naturale di antibiotici nei corpi idrici superficiali mediante fotolisi solare", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 29/03/2011.
17. Marco Ciavola, "Water disinfection in developing countries: design of a new household solar disinfection (SODIS) system", experimental work carried out at Nanotechnology and Integrated BioEngineering Centre (NIBEC), University of Ulster, Northern Ireland (UK), in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 28/02/2011.
18. Luca Passio, "Domestic wastewater treatment by two-phase anaerobic reactor for safe disposal in developing countries: a pilot scale investigation", experimental work carried out at Karlsruhe Institute of Technology (KIT), Karlsruhe (Germany), in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 24/09/2010.
19. Americo Galdi, "Removal of organic contaminants from water by TiO₂ Photocatalysis: a comparison among different TiO₂ immobilised powders", experimental work carried out at Nanotechnology and Integrated BioEngineering Centre (NIBEC), University of Ulster, Northern Ireland (UK), in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 2010.
20. Antonio Bottini, "Phosphorous recovery from urban wastewater treatment plant by ion exchange and electrodialysis processes", experimental work carried out at Karlsruhe

- Institute of Technology (KIT), Karlsruhe (Germany), in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 11/06/2010.
21. Vincenzo Bisogno, "Landfill leachate treatment by advanced oxidation processes", experimental work carried out at Cranfield University (UK), in the context of Erasmus mobility program. MSc final project successfully defended at University of Salerno on 28/07/2008.
 22. Stefano Giuliani, "Rimozione dalle acque di composti farmaceutici mediante fotocatalisi", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 28/07/2008.
 23. Mariangela Grassi, "Il trattamento delle acque di vegetazione mediante processi di ossidazione avanzata", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 30/07/2007.
 24. Virginia Marrazzo, "Pre-trattamento di reflui oleari mediante coagulazione", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 24/05/2007.
 25. Serena Langone, "Rimozione della sostanza organica dalle acque: sperimentazione di processi innovativi con l'uso di biossido di titanio", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 28/03/2007.
 26. Michele D'Arco, "Rimozione simultanea di sostanza organica e batteri dalle acque mediante fotocatalisi con TiO_2 ", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2006.
 27. Grazia Ricciardi, "Trattamento delle acque ad uso potabile con coagulanti naturali", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 19/06/2006.
 28. Nicola Fierro, "Controllo dei triometani in acque superficiali clorate mediante ozonizzazione e strippaggio con aria", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2005.
 29. Francesco Lucibello, "Adeguamento di un impianto di potabilizzazione in accordo al Dlgs 31/2001", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2005.
 30. Giuseppina Ferrucci, "Disinfezione di acque potabili mediante fotocatalisi con TiO_2 ", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2005.
 31. Alessandra Di Palma, "Trattamento di acque ad uso potabile mediante coagulazione e processi di ossidazione avanzata: un confronto tra ozonizzazione e fotocatalisi con TiO_2 ", experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2005.
 32. Luigi Marra, "Controllo della formazione di sottoprodotti della disinfezione mediante trattamento combinato di coagulazione/fotocatalisi con TiO_2 " experimental work carried out at "Laboratory of Sanitary and Environmental Engineering" (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2004.

33. Marco Grottola, “Formazione e controllo di sottoprodotti della disinfezione nei sistemi idrici” experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2004.
34. Carlo Vitiello, “Modellazione della qualità dell’acqua nelle reti di distribuzione idrica”, experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2003.
35. Massimo Cornnacchia, “Caratterizzazione e modellazione della qualità dell’acqua nei sistemi idrici” experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2003.
36. Luca Pergamo, “Caratterizzazione dell’efficienza di disinfezione nei sistemi idrici”, experimental work carried out at “Laboratory of Sanitary and Environmental Engineering” (Department of Civil Engineering), University of Salerno. MSc final project successfully defended on 2002.

BSc students co-supervised by Prof. Luigi Rizzo for their final career project

1. Antonio Guerriero, “Ottimizzazione dei processi di disinfezione tramite ossidazione avanzata con perossido di idrogeno e acido peracetico”, experimental work carried out at Department of Chemistry and Biology, University of Salerno. Co-supervisors: dr. Giusy Lofrano and dr. Maurizio Carotenuto. BSc final project successfully defended at University of Salerno on 18/02/2016.
2. Carmine Stabile, “Applicazione del processo di Fenton al trattamento di acque reflue industriali”, experimental work carried out at Department of Chemistry and Biology, University of Salerno. Co-supervisors: dr. Giusy Lofrano and dr. Maurizio Carotenuto. BSc final project successfully defended at University of Salerno on 18/02/2016.
3. Giuliana de Luca, “Meccanismi di inattivazione di batteri resistenti agli antibiotici in un corpo idrico: prove sperimentali in canaletta idraulica”. experimental work carried out at Department of Chemistry and Biology, University of Salerno. Co-supervisors: dr. Giusy Lofrano and dr. Maurizio Carotenuto. BSc final project successfully defended at University of Salerno on 10/2015.

Annex 1.3

PhD students supervised by prof. Luigi Rizzo for their career project during their visit at University of Salerno in the context of international mobility programs/projects.

1. Francesco Biancullo, University of Porto (Portugal), "Light Emitting Diodes driven photocatalytic membrane treatment of ARB&ARG and market assessment". Visit in the context of "ANTibioticS and mobile resistance elements in WastEwater Reuse applications: risks and innovative solutions (ANSWER)" project, funded by EU under Horizon 2020 program (Innovative Training Networks (ITN), Call: H2020-MSCA-ITN-2015). October 2016 - March 2017.
2. Reyhan Gürkan, Namik Kemal University (Tekirdag, Turkey), "Water treatment by photocatalytic processes: photocatalyst preparation and characterization". Visit in the context of Erasmus mobility program. May - July 2015.
3. Andreza Costa Miranda, Universidade Estadual da Paraíba (Campina Grande, Brazil) "Surface water comparative disinfection by UV/H₂O₂ and chlorination processes: effect on mutagenicity". Visit in the context of international cooperation agreement between Department of Civil Engineering, University of Salerno and Department of Environmental and Sanitary Engineering, State University of Paraíba, with the financial support of Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – CAPES. July 2014 - January 2015.

MSc students supervised by prof. Luigi Rizzo for their career project during their visit at University of Salerno in the context of international mobility programs.

1. Tatiana Bredneva, "Wastewater treatment by solar driven advanced oxidation processes". Ufa State Aviation Technical University (Russian Federation). Visit in the context of international cooperation agreement between Department of Civil Engineering, University of Salerno and Department of Production Safety and Industrial Ecology, Ufa State Aviation Technical University. November 2016 – May 2017.
2. Fabio Formisano, "Urban wastewater disinfection by solar driven AOPs", Karlsruhe Institute of Technology (Germany). Visit in the context of Erasmus mobility program. April – September 2015.
3. Maria Luisa Alias Cortes, "Photocatalytic inactivation of salmonella in wastewater", Universidad de Almeria (Spain). Visit in the context of Erasmus mobility program. 2014.
4. Maria Jose Escamez Trusillo, "Natural inactivation of antibiotic resistant bacteria in streams", Universidad de Almeria (Spain). Visit in the context of Erasmus mobility program. 2014.
5. Isabel Maria Rodriguez Ruano, "Synthesis of new supported catalysts for photo-catalytic oxidation of arsenic in drinking water", Universidad de Almeria (Spain). Visit in the context of Erasmus mobility program. 2014.

BSc students supervised by prof. Luigi Rizzo for their career project during their visit at University of Salerno in the context of international mobility programs.

1. Carmen Cago, "Effect of radical oxygen species on the inactivation of E. coli: a comparison between UV/H₂O₂ and UV/PAA processes". Universidad de Vigo (Spain). Visit in the context of Erasmus mobility program. October - December 2016.
2. Ines Mendes Sardo, "Removal of emerging contaminants from wastewater by adsorption: a comparison among conventional and non conventional adsorbents" Universidade Católica Portuguesa – Escola Superior de Biotecnologia. Visit in the context of Erasmus mobility program. 2013.

Annex 1.4

Coordinator of local (8) and international (2) research projects

1. “Investigating photocatalytic processes in the removal of microcontaminants from urban wastewater”, funded by University of Salerno, FARB 2016.
2. “ANTibioticS and mobile resistance elements in WastEwater Reuse applications: risks and innovative solutions (ANSWER)”, funded by EU under Horizon 2020 program (Innovative Training Networks (ITN), Call: H2020-MSCA-ITN-2015). Principal investigator/coordinator of “University of Salerno” group, 2015-2019.
3. “Solar photocatalytic treatment for the reuse of urban wastewater”, funded by University of Salerno, FARB 2015.
4. “Monitoring and modelling the fate of antibiotic resistant bacteria in surface water”, funded by University of Salerno, FARB 2014.
5. “Arsenic removal from water photocatalytic oxidation and adsorption processes”, funded by University of Salerno, FARB 2013.
6. “Inactivation of antibiotic resistant E. Coli strains by solar driven advanced oxidation processes”, funded by EU and Plataforma Solar de Almeria under SFERA program, 2013-2014.
7. “Advanced treatment of urban wastewater by photocatalysis: effect on antibiotic resistant bacteria”, funded by University of Salerno, FARB 2012.
8. “Effect of sunlight on antibiotic degradation and antibiotic resistant bacteria inactivation in surface water”, funded by University of Salerno, FARB 2011.
9. “Removal of contaminants of emerging concern and detoxification of wastewater by advanced chemical-physical treatment processes”, funded by University of Salerno, FARB 2010.
10. “Removal of xenobiotics and detoxification of wastewater to be reused by advanced oxidation processes”, funded by University of Salerno, FARB 2009.

Annex 1.5

Task leader and investigator in national (5) and international (6) projects;

1. “Efficiency of different disinfection processes in the removal of antibiotic resistance determinants in experimental pilot systems and full-scale WWTPs”, “Highly relevant projects” co-funded by Italian Ministry of Foreign Affairs in the context of bilateral Scientific and Technological cooperation with China (ref.: PGR04089), coordinated by dr. Gianluca Corno, Istituto per lo Studio degli Ecosistemi, CNR, Verbania. 2016-2019.
2. “Contaminanti emergenti in aria, acqua e suolo: dalla sorgente all'ambiente marino” Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale (PRIN), Anno 2010-2011, co-finanziati dal MIUR, coordinato dal prof. Federico Vagliasindi (Università di Catania). 2013-2015. Responsabile Task dell'Unità Operativa dell'Università di Salerno coordinata dal prof. Vincenzo Belgiorno.
3. “Desarrollo de sistemas acoplados de oxidación (fotocatálisis solar y oxidación biológica) para la depuración de efluentes acuosos contaminados con plaguicidas no biodegradables.” progetto finanziato dal “Ministerio de Educacion y Ciencia” del governo spagnolo, 2008. Investigatore.
4. “Rimozione di composti xenobiotici da reflui urbani mediante processi di ossidazione avanzata ad energia solare (foto-Fenton solare).” progetto finanziato dal “Ministerio de Educacion y Ciencia” del governo spagnolo, 2008. Investigatore.
5. “PHAREM”, progetto co-finanziato dalla Cyprus Research Foundation, che ha coinvolto la University of Cyprus (coordinatore), l'Università di Salerno e la University of the Aegean (Grecia). 2006-2008. Responsabile Task.
6. “Controllo dei sottoprodotti della disinfezione nelle acque e nelle acque reflue destinate al riutilizzo”. Programma per l'internazionalizzazione, co-finanziato dal MIUR, che ha coinvolto, oltre all'Università di Salerno (coordinatore), la Bogazici University e la Pamukkale University (Turchia), la University of the Aegean (Grecia) e la University of Mohmmad (Marocco). 2005-2007. Responsabile Task.
7. “Controllo dei sottoprodotti della disinfezione nel trattamento delle acque destinate al consumo umano”. Programma di Ricerca di Interesse Nazionale (PRIN), Anno finanziario 2004, co-finanziato dal MIUR. 2004-2006. Responsabile Task.
8. “Evaluation of alternative water treatment systems for obtaining safe water in three countries”. Progetto di ricerca co-finanziato dalla NATO (ref. 980506) che ha coinvolto, oltre all'Università di Salerno, la Bogazici University e la Istanbul Technical University (Turchia), la University of Wisconsin-Madison (USA), la Yerevan University (Armenia). 2003-2005. Investigatore.
9. “Rimozione dei precursori dei sottoprodotti della disinfezione da acque di origine superficiale destinate al consumo umano”. L.R. 5 del 28.03.2002, co-finanziato dalla Regione Campania. Investigatore.
10. “Controllo del rischio di sottoprodotti del cloro nelle acque destinate al consumo umano”. Programma di Ricerca di Interesse Nazionale (PRIN), Anno finanziario 2001, co-finanziato dal MIUR. 2001-2003. Investigatore.
11. “Analisi dei fenomeni di alterazione della qualità delle acque potabili: tecniche di prevenzione e controllo”. Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale (PRIN), co-finanziati dal MIUR (PRIN), coordinato dal prof. Giuseppe d'Antonio (Università di Napoli Federico II), 1999. Investigatore nell'unità operativa dell'Università di Salerno coordinata dal prof. Rodolfo Napoli.

Annex 1.6

Invited/keynote speaker at national (4) and international (14) conferences/meetings

1. "Can AOPs be an effective urban wastewater disinfection process for controlling AR spread into the environment?", 13th IWA Leading Edge Conference on Water and Wastewater Technologies. 13-16 June 2016, Jerez de la Frontera, Spain.
2. "Processi convenzionali ed innovativi per la disinfezione delle acque reflue urbane: effetto sull'antibiotico resistenza", ABR day 2016, "Approccio multidisciplinare alla prevenzione dello sviluppo di resistenza agli antibiotici: dalla prescrizione alla depurazione". 22 Aprile 2016, CNR ISE, Verbania Pallanza, Italy.
3. Disinfection of urban wastewater by conventional and new processes: effect on antibiotic resistance", 6th Congress of European Microbiologists. 7-11 June 2015, Maastricht, The Netherland.
4. "The effect of chlorination and UV radiation in controlling antibiotic resistant bacteria spread compared to solar driven and UV lamp-TiO₂ photocatalysis". NIREAS Speaker series "When Ideas Flow", December 6th 2012, University of Cyprus, Nicosia, Cyprus.
5. "Disinfection of urban wastewater by solar driven and UV lamp –TiO₂ photocatalysis: effect on a multi drug resistant E. coli strain". Workshop on "Wastewater Reuse Applications and Contaminants of Emerging Concern", guested by NIREAS-IWRC and organized by: NORMAN Network, DARE-EU COST Action TD0803 and NIREAS-IWRC, 13-14 September 2012, Pissouri - Limassol, Cipro.
6. "Solar radiation effect on degradation of antibiotics and inactivation of antibiotic resistance bacteria in surface water.". Workshop on "Antibiotics and Antibiotic- Resistant Bacteria in the Environment". Namik Kemal University, Tekirdağ, TURKEY- June 8, 2012.
7. "Ecotoxicity tests in water and wastewater treatment by AOPs: a focus on nanoparticles and TiO₂", Nanotechnology and Integrated Bioengineering Centre (NIBEC), University of Ulster, Jordanstown Campus, Belfast, June 8, 2011.
8. "Evaluation of AOPs application to Water and Wastewater Treatment by Ecotoxicity Tests". The 16th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil. San Diego, California, USA, November 15-18, 2010.
9. "Removal of antibiotic resistant bacteria from UWWTPs effluents by AOPs: a short review". COST "Action TD0803: Detecting evolutionary hot spots of antibiotic resistances in Europe (DARE)", WG2 meeting, Middlesex University, Hendon (London), October 7-8, 2010.
10. "Water and wastewater treatment by photocatalysis". Department of water treatment technology, Faculty of Chemistry, Adam Mickiewicz University of Poznan (Poland), May 2010.
11. "Solar driven advanced oxidation processes for urban and industrial wastewater treatment". Polish Society of Chemistry, Poznan (Poland), May 2010.
12. "Water and wastewater treatment by photocatalysis". Civil and Environmental Engineering Department, University of Cyprus. October, 2007.
13. "Water and wastewater treatment by natural organic coagulants". Institute of Environmental Science, Bogazici University (Istanbul, Turkey), June 2007.
14. "Disinfection by products in drinking water treatment" University of Naples Parthenope, Naples, February 25, 2007.
15. "Drinking water disinfection: bacterial regrowth and disinfection by-products", conference on "La ricerca delle perdite e la gestione delle reti di acquedotto". Perugia, September 20-21, 2007.
16. "Advanced treatment of civil/industrial wastewaters by ozonation and photocatalysis" International Workshop on "Control of disinfection by products in drinking water and wastewater for reuse" Kos Island (Greece), September 6, 2007.

17. "Control of disinfection by-products by coagulation and photocatalysis" workshop on "Monitoraggio e controllo della qualità di risorse idriche e di siti inquinati: il contributo di due Progetti di Ricerca di Interesse Nazionale." Taormina October, 19-20, 2006.
18. "Disinfection by products in drinking water systems.", Cost Action 636, Working Group "Water and wastewater treatment methods", Nancy, April, 2005.

Annex 1.7

Scientific Committee member and chairmen in international conferences.

1. 4th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP). October 21-24, 2015, Athens (Greece).
2. 3rd International Conference on Advanced Oxidation Processes, AOP2014, September 25-28 2014, Munnar, Kerala, India.
3. “Wastewater and Biosolids Treatment and Reuse: Bridging Modelling and Experimental Studies”, organized by Engineering Conference International (ECI) and supported by International Water Association (IWA). Otranto, June 8-13 2014.
4. 2nd International Conference on Recycling and Reuse, June 4-6 2014, İstanbul (Turkey).
5. 3rd European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP). October 27-30, 2013, Almeria (Spain).
6. “Wastewater Reuse Applications and Contaminants of Emerging Concern”, guested by NIREAS-IWRC and organized by: NORMAN Network, DARE-EU COST Action TD0803 and NIREAS-IWRC, 13-14 September 2012, Pissouri - Limassol, Cyprus.
7. Workshop on “Antibiotics and Antibiotic- Resistant Bacteria in the Environment”. Namik Kemal University, Tekirdağ, TURKEY- June 8, 2012.
8. 16th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil. San Diego, California, USA, November 15-18, 2010.
9. 2nd European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP). September 9-11 2009, Nicosia (Cyprus).
10. 11th International Conference on Environmental Science and Technology (CEST). Chania, Crete (Greece), September 3-5 2009.
11. “Xenobiotics in water cycle”. Nicosia, Cyprus, March 2009.
12. 10th International Conference on Environmental Science and Technology (CEST). Kos Island (Greece), September 5-7 2007.
13. 1st European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP). September 7-9 2006, Chania (Crete, Greece).
14. 9th International Conference on Environmental Science and Technology (CEST). Rhodes Island, (Greece), September 1-3 2005.
15. “Evaluation of alternative water treatment systems for obtaining safe water in three countries”. University of Salerno, Fisciano September 27 2004.

Annex 1.8

Participation in PhD evaluation committees of the following PhD candidates

1. Antonella De Luca. Fenton and photo-Fenton like at neutral pH for the removal of emerging contaminants in water and wastewater effluents. University of Barcelona (Spain), September 26, 2016.
2. Lucia del Pilar Prieto Rodriguez. Eliminacion de microcontaminantes organicos presentes en aguas residuales urbanas mediante combinacion de procesos de depuracion biologica y oxidacion quimica. Università di Almeria, October 28 2013.
3. Marlen Ines Vasquez. Active pharmaceutical ingredients in aqueous matrices: an integrated approach for assessing effects, Università di Cipro, November 7 2012.
4. Nikolaus Klamerth. Application of solar photo-Fenton for the treatment of contaminants in municipal wastewater effluents, University of Almeria, September 2011.
5. Marc Esplugas Gonzalez. Application of molecular biology techniques to the study of advanced treatment processes for emerging contaminants, University of Barcelona, January 2011.