

Curriculum vitae

PERSONAL INFORMATION



Vincenzo Naddeo

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Sex Male | Nationality Italian

POSITION

Director of the Sanitary Environmental Engineering Division (SEED), Department of Civil Engineering (DICIV), University of Salerno (Italy).

WORK EXPERIENCE

- 05/2018–Present **Head of the Laboratory**
Sanitary Environmental Engineering Division (SEED), Department of Civil Engineering (DICIV), University of Salerno, Fisciano (SA) (Italy)
- 01/2018–Present **Founder, Legal Representative and Chief Executive Officer (CEO)**
Sponge srl, Avellino (Italy)
- 09/2015–Present **Expert of the European Commission in the framework of Horizon 2020.**
European Commission, Bruxelles (Belgium)
- 11/2014–Present **Associate Professor in Sanitary and Environmental Engineering**
Department of Civil Engineering at University of Salerno, Fisciano (SA) (Italy)
- 06/2017 **Member of the Environmental Biotechnology and Engineering panel in the SR&TD FCT Project Grants**
Fundação para a Ciência e a Tecnologia, I.P. (FCT), the Portuguese Foundation for Science and Technology, Lisboa (Portugal)
- 05/2017 **Expert in the evaluation of research projects proposals in the Environmental Engineering fields.**
Autonomous Province of Trento, Trento (Italy)
- 04/2017 **Expert in the framework of European Innovation Partnership "Agricultural productivity and Sustainability" (EIPagri)**
Piemonte Region, Torino (Italy)
- 03/2017 **Expert in the programme of "Investments in Scientific and Technological Research"**
Italian Ministry of Education, University and Research, Roma (Italy)
- 02/2016 **Expert in COST Action CA15226 entitled: "Climate-Smart Forestry in Mountain Regions" (CLIMO)**
European Cooperation in Science and Technology, Bruxelles (Belgium)

- 07/2015 **Expert and Member of Technical Body “Soil and Waste” (UNI/CT 004/GL 05)**
Italian national unification body (UNI) (Italy)
- 03/2007–04/2015 **Expert of the European Union in the seventh Framework Programme for Research (FP7)**
European Union, Bruxelles (Belgium)
- 03/2006–10/2014 **Assistant Professor in Sanitary and Environmental Engineering**
Department of Civil Engineering at University of Salerno, Fisciano (SA) (Italy)
- 03/2014 **Expert of the Cyprus Research Promotion Foundation for the evaluation of research proposal**
Cyprus Research Promotion Foundation, Nicosia (Cyprus)
- 02/2012–01/2014 **Expert of the Shota Rustaveli National Science Foundation of Georgia for the evaluation of the national research projects**
National Science Foundation of Georgia, Tbilisi (Georgia)

EDUCATION AND TRAINING

- 12/2014–Present **Italian national scientific qualifications awarded for Full Professor positions in the Academic field 08/A2 (Sanitary and Environmental Engineering)**
Italian Ministry of Education, University and Research
- 12/2013–Present **Italian national scientific qualifications awarded for Associate Professor positions in the Academic field 08/A2 (Sanitary and Environmental Engineering)**
Italian Ministry of Education, University and Research
- 11/2002–04/2005 **PhD in Civil and Environmental Engineering** EQF level 8
University of Salerno, Fisciano (SA) (Italy)
- 10/2001–03/2002 **International traineeship / Visiting Scholar** EQF level 7
University of Washington, Seattle (WA, USA)
Traineeship was conducted in the laboratory of the Department of Civil and Environmental Engineering under the supervision of the prof. Mark M. Benjamin.
During the same period as visiting scholars at University of Washington the following classes was passed:
- Advanced Environmental Chemistry (CEE 545);
 - Physical-Chemical Treatment Processes (CEE 544);
 - Laboratory Safety Standard Compliance;
 - Environmental Aquatic Chemistry (CEE 485);
 - Water Chemistry (CEE 543);
 - Managing Lab Chemicals and Spill Clean-up.

09/1996–05/2002 **M.Sc. degree in Civil Engineering - hydraulic address**
University of Salerno, Fisciano (SA) (Italy)

EQF level 7

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	B2	B2	A2	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

Résumé

prof. **Vincenzo Naddeo** is Director of the Sanitary Environmental Engineering Division (SEED) at Department of Civil Engineering of the University of Salerno (Italy) where he drives research activities in the Environmental Engineering fields. He was a professor in visit at the [University of Washington](#) (2009) and [Yamaguchi University](#) (2016) as well as a visiting scientist at different foreign research institutions where he collaborated with high-ranking professors. prof. Naddeo is founded and general chair of the international conference series [WaterEnergyNEXUS](#) and coordinator of its International Scientific Advisory Board. From 2014 dr. Naddeo owns the Italian National Scientific Qualifications for full professor positions in the Academic field 08/A2 (Sanitary and Environmental Engineering).

His research focuses on advanced water/wastewater treatment, characterization and control of environmental odours and environmental impact assessment (EIA). He developed advanced biological processes for wastewater treatment and control of emerging contaminants, novel ultrasound-based technological processes for the treatment of environmental matrices (solid, liquid and gaseous) and biotechnologies for wastewater re-use with simultaneous energy production within the circular economy. In addition to the topics listed above, dr. Naddeo has published works on membrane bioreactors (MBRs), water/wastewater disinfection and disinfection by-products (DBPs), Advanced Oxidation Processes (AOPs), river water quality characterization, remediation of contaminated soil and marine sediments, management and treatment of the organic fraction of solid waste, strategic environmental assessment (SEA) and recently on the environmental technologies for the sustainable development of smart cities.

At the Department of Civil Engineering prof. Naddeo teaches: "Wastewater treatment plants, "Environmental Impact Assessment", "Energy and Environmental Sustainability" and "Pollution phenomena and control of environmental quality". He is the coordinator of several international and national research projects, supervisor of PhD students and member in scientific boards of several national and international conferences where often was invited as plenary or keynote speaker.

He is Associate Editor of the [Water Environmental Research](#) (Wiley), [Euro-Mediterranean Journal for Environmental Integration](#) (Springer) and of the [Earth](#), Frontiers for Young Minds. He presently serves on the editorial board of several ISI journals including [Desalination](#) (Elsevier), [Scientific Reports](#) (Nature Research), [PeerJ](#) (Life, Bio, Environment & Health Sciences), [Frontiers in Bioengineering and Biotechnology](#), [Water](#) (MDPI) and [Bioengineered](#) (Taylor & Francis). Dr. Naddeo is also actively involved in a variety of scientific organizations, funding agencies, and European networks.

He is the coordinator of several European/international and national research projects, supervisor of PhD students and member in scientific boards of several national and international conferences where often was invited as plenary or keynote speaker.

He holds 4 patents on water and wastewater treatments by sonolysis and 1 patent on the novel electronic nose (e.Nose). From 2018 prof. Naddeo is CEO and co-founder of [Sponge s.r.l.](#), a Spin-Off of the University of Salerno working on Environmental Technology field. prof. Naddeo has (co-)authored over 200 refereed publications in ISI journals, congress proceedings and book volumes. He is co-editor of the book [Odour Impact Assessment Handbook](#) (John Wiley & Sons) as well as editor of several Italian books.

Visiting scientist/professor

- Visiting Professor:
 - 01/2016-03/2016. Graduate School of Science and Engineering - Yamaguchi University (Yamaguchi, Japan);
 - 12/2014. University of the Philippines, Diliman - Manila (Philippines)
 - 08/2009-10/2009. Department of Civil and Environmental Engineering of University of Washington (Seattle, USA)

Visiting scientist:

- 09/2019. Tshwane University of Technology (Pretoria, South Africa)
- 04/2019. Oman Water Society. (Muscat, Oman);
- 04/2019. Environmental Engineering Graduate Program. University of the Philippines, Diliman -Manila (Manila, Philippines);
- 02/2019. Water Desalination and Reuse Center. King Abdullah University of Science and Technology - KAUST - (Saudi Arabia);
- 01/2019. Department of Civil and Environmental Engineering. Massachusetts Institute of Technology - MIT - (Cambridge, MA, USA);
- 06/2018. The Energy and Resources Institute - TERI - (New Delhi, India);
- 12/2017. The Energy and Resources Institute - TERI - (New Delhi, India);
- 04/2017. Laboratory of Chemical and Environmental Engineering (LEQUIA) at the University of Gerona (Girona, Spain);
- 03/2017. Department of Chemical and Environmental Engineering, Institute Center for Water and Environment (iWATER), Masdar Institute (Abu Dhabi, United Arab Emirates);
- 02/2017. Visiting scientist at Department of Earth and Environmental Engineering Columbia University (New York, USA);
- 10/2016. Department of Environmental Engineering, Kyungpook National University (Daegu, South Korea);
- 10/2016. Research Center for Eco-Environmental Science of Chinese Academy of Science (Beijing, China);
- 09/2015. Opole University of Technology (Opole, Poland);
- 06/2015. School of Engineering University, kwaZulu-Natal (Durban, South Africa);
- 02/2015. Azerbaijan National Academy of Sciences - ANAS (Baku, Azerbaijan);
- 09/2014. Environmental Engineering Graduate Program. University of the Philippines, Diliman - Manila (Manila, Philippines);
- 09/2013-10/2013. Institute of Environmental Sciences, Bogaziçi University (Turkey);
- 07/2013. Department of Art, City and Territory, University of Las Palmas de Gran Canaria (Spagna);
- 12/2012. Institut für Umwelttechnik und Energiewirtschaft (IUE), Technische Universität Hamburg (TUHH), (Hamburg, Germany);
- 05/2012. Institute of Environmental Science, Bogazici University (Istanbul, Turchia);
- 09/2010. Department of Marine Sciences della University of the Aegean (Mytilene, Grecia)
- 12/2009. Agriculture Research Center - ARC (El Cairo, Egypt);
- 02/2008. Department of Civil Engineering, University of Mumbai (Mumbai, India);
- 06/2007. Department of Civil Engineering and Architecture, Opole University of Technology (Opole, Poland).

Teaching and academic appointments at University of Salerno

- 04/2012 - 01/2016, Member of the advisory board of Faculty of Engineering of civil Engineering, Coordinator of the student orientation committee; Member of the committee on the research;
- 12/2005 -, Member of Ph.D. School in Civil and Environmental Engineering;
- 2003 -, Responsible person in cultural and scientific cooperation agreement or MOU (9) and Erasmus+ agreements (7);

- 2003/2004 -, Lecturer of courses related to Sanitary and Environmental Engineering; in 2017 the courses are:
 - Environmental Impact Assessment - Master Level - 6 CFU;
 - Energy and environmental sustainability - Master Level - 6 CFU;
 - Wastewater treatment plants - Bachelor level - 6 CFU;
 - Pollution phenomena and control of environmental quality - Bachelor level - 6 CFU.

International appointments

- General Chair of the international conferences series "WaterEnergyNEXUS" and coordinator of its Scientific Advisory Board
- Scientific board member in national (23) and international (26) conferences;
- Plenary (1) and keynote speaker (10) at international conferences;
- Invited speaker at national (18) and international conferences (28);
- Member of the following scientific association or academies:
 - International Water Association (IWA);
 - Water Environment Federation (WEF);
 - National group of professors in Sanitary Environmental Engineering (GITISA);
 - National association of Sanitary Environmental Engineering (ANDIS).

Coordination of research groups and projects/scientific consulting

- 2006 -, Coordinator in international (6) and local/national (9) research projects;
- 2002-, Coordinator and/or task leader in scientific consulting with public bodies (11) and Companies (14);
- 2002 - , Investigator as Task leader in international (6) and local/national (20) research projects;
- 07/2012-: supervisor of visiting PhD students (9);
- 2002 -: supervisor or co-supervisor of PhD (21), MSc (61) and BSc (48) students.

Editorial Board

- Associated editor of of the following ISI Journals:
 - Euro-Mediterranean Journal for Environmental Integration. Springer. ISSN: 2365-6433
 - Water Environmental Research, Wiley. ISSN: 1554-7531
 - Earth, Frontiers for Young Minds, ISSN: 2296-6846
- Editorial board member of the following ISI Journals:
 - Desalination, Elsevier. ISSN: 0011-9164
 - Scientific Reports. Nature Research, Nature Publishing Group. ISSN:2045-2322
 - Peer-J, Life, Bio, Environment & Health Science. ISSN: 2167-8359
 - Frontiers in Bioengineering and Biotechnology, ISSN: 2296-4185
 - Heliyon. Elsevier Ltd. ISSN: 2405-8440
 - Bioengineered, Taylor & Francis. ISSN: 2165-5987
 - Water. MDPI AG. ISSN 2073-4441
 - The Biotechnology Journal. Bentham. ISSN 1874-0707
 - The Atmospheric Science Journal. Bentham. ISSN 1874-2823
 - Cogent Engineering. Cogent OA by Taylor & Francis Group. ISSN: 2331-1916;

Awards and honours

- 2017, all publications in peer review journal submitted to Italian Agency for University and research assessment (ANVUR) for 2011-2014 Research Quality Assessment (VQR) were awarded the top score (excellent);
- 2015, award fellowship of Japan Society for Promotion of Science (JSPS) under the "FY2015 JSPS invitation fellowship program for research in Japan" to conduct research in Japan at Yamaguchi University in cooperation with prof. Takaya Higuchi;

- 2013, all publications in peer review journal submitted to Italian Agency for University and research assessment (ANVUR) for 2004-2010 Research Quality Assessment (VQR) were awarded the top score (excellent);
- 2012, Cyprus Research National Award 'Nikos Symeonides' for PHAREM project coordinated by prof. Despo Fatta-Kassinou.
- 2011, The research project "Development and application of innovative advanced oxidation processes for the removal of active organic compounds in urban wastewaters and monitoring of toxicity (PHAREM - PHArmaceutical REMoval)" coordinated by Prof. Despo Fatta-Kassinou received the Cyprus Research National Award "Nikos Symeonides" (Role covered in the project: Task Manager of a working group on the application of ozonation, sonolysis and their combination for the control of emerging contaminants)

Technology transfer

Principal inventor of the following patents:

- 2013, CODE™ – Chamber for Odor Detection. PatentID: SA2013A000001;
- 2010, USAMe™ – UltraSound Adsorption Membrane. PatentID: SA2010A000028;
- 2007, UDINO_CUV™ - Ultrasound Disinfection and NOM removal Combined with UltraViolet light. PatentID: SA2007A/000035;
- 2007, AUP™ - Advanced Ultrasound Process. PatentID: SA2007A/000030;
- 2007, UDINO™ - Ultrasound Disinfection and NOM removal. PatentID: SA2007A/000036.

Publications

214 products published in ISI Journals, Books, chapters and conference proceedings: 85 works indexed in Scopus (h-index 19, citations 1446, co-authors 83), 135 indexed by Google Scholar (hindex 24, 2131 citations, i10-index 48), 145 indexed by ResearchGate (h-index 20, 1593 citations).

A full list of publication is available at official webpage ([link](#)). Selected publications:

- Oliva, G., Ángeles, R., Rodríguez, E., Turiel, S., Naddeo, V., Zarra, T., Belgiorno, V., Muñoz, R., Lebrero, R. *Comparative evaluation of a biotrickling filter and a tubular photobioreactor for the continuous abatement of toluene* (2019) *Journal of Hazardous Materials*, 380, art. no. 120860;
- Ibrahim, Y., Abdulkarem, E., Naddeo, V., Banat, F., Hasan, S.W. *Synthesis of super hydrophilic cellulose-alpha zirconium phosphate ion exchange membrane via surface coating for the removal of heavy metals from wastewater*. (2019) *Science of the Total Environment*, 690, pp. 167-180.
- Ensano, B.M.B., Borea, L., Naddeo, V., de Luna, M.D.G., Belgiorno, V. *Control of emerging contaminants by the combination of electrochemical processes and membrane bioreactors*. (2019) *Environmental Science and Pollution Research*, 26 (2), pp. 1103-1112.
- Ensano, B.M.B., Borea, L., Naddeo, V., Belgiorno, V., de Luna, M.D.G., Balakrishnan, M., Ballesteros, F.C., Jr. *Applicability of the electrocoagulation process in treating real municipal wastewater containing pharmaceutical active compounds*. (2019) *Journal of Hazardous Materials*, 361, pp. 367-373.
- Borea, L., Naddeo, V., Belgiorno, V., Choo, K.-H. *Control of quorum sensing signals and emerging contaminants in electrochemical membrane bioreactors*. (2018) *Bioresource Technology*, 269, pp. 89-95.
- Elnaker, N.A., Elektorowicz, M., Naddeo, V., Hasan, S.W., Yousef, A.F. *Assessment of Microbial Community Structure and Function in Serially Passaged Wastewater Electro-Bioreactor Sludge: An Approach to Enhance Sludge Settleability*. (2018) *Scientific Reports*, 8 (1), art. no. 7013, .
- Patton, S., Romano, M., Naddeo, V., Ishida, K.P., Liu, H. *Photolysis of Mono- and Dichloramines in UV/Hydrogen Peroxide: Effects on 1,4-Dioxane Removal and Relevance in Water Reuse* (2018) *Environmental Science and Technology*, 52 (20), pp. 11720-11727.
- Shalaby, M.S., Naddeo, V., Borea, L., Abdallah, H., Shaban, A.M., Zarra, T., Belgiorno, V. *Development of highly flux antifouling polyethersulfone membranous compacted woven support*. (2018) *Desalination and Water Treatment*, 127, pp. 83-89.
- Borea, L., Naddeo, V., Shalaby, M.S., Zarra, T., Belgiorno, V., Abdalla, H., Shaban, A.M. *Wastewater treatment by membrane ultrafiltration enhanced with ultrasound: Effect of membrane flux and ultrasonic frequency*. (2018) *Ultrasonics*, 83, pp. 42-47.
- El Naker NA, Elektorowicz M, Naddeo V, Hasan SW, Yousef AF. *Assessment of Microbial Community Structure and Function in Serially Passaged Wastewater Electro-Bioreactor Sludge:*

An Approach to Enhance Sludge Settleability. (2018) Scientific reports 8 (1), 7013

- Borea, L., Puig, S., Monclús, H., Naddeo, V., Colprim, J., Belgiorno, V. *Microbial fuel cell technology as a downstream process of a membrane bioreactor for sludge reduction* (2017) Chemical Engineering Journal, 326, pp. 222-230.
- Ensano, B.M.B., Borea, L., Naddeo, V., de Luna, M.D.G., Belgiorno, V. *Control of emerging contaminants by the combination of electrochemical processes and membrane bioreactors.* (2017) Environmental Science and Pollution Research, pp. 1-10. Article in Press.
- Secondes, M.F.N., Naddeo, V., Belgiorno, V., Ballesteros, F. *Removal of emerging contaminants by simultaneous application of membrane ultrafiltration, activated carbon adsorption, and ultrasound irradiation* (2014) Journal of Hazardous Materials, 264, pp. 342-349.
- Naddeo, V., Scannapieco, D., Zarra, T., Belgiorno, V. *River water quality assessment: Implementation of non-parametric tests for sampling frequency optimization* (2013) Land Use Policy, 30 (1), pp. 197-205.
- Belgiorno, V., Naddeo, V., Scannapieco, D., Zarra, T., Ricco, D. *Ecological status of rivers in preserved areas: Effects of meteorological parameters* (2013) Ecological Engineering, 53, pp. 173-182.
- Belgiorno, V., Naddeo, V., Zarra, T. *Odour Impact Assessment Handbook* (2012) Odour Impact Assessment Handbook, 288 p. Book published by Wiley SBN: 978-1-119-96928-0.
- Cesaro, A., Naddeo, V., Amodio, V., Belgiorno, V. *Enhanced biogas production from anaerobic codigestion of solid waste by sonolysis* (2012) Ultrasonics Sonochemistry, 19 (3), pp. 596-600.
- Naddeo, V., Belgiorno, V., Kassinos, D., Mantzavinos, D., Meric, S. *Ultrasonic degradation, mineralization and detoxification of diclofenac in water: Optimization of operating parameters.* (2010) Ultrasonics Sonochemistry, 17 (1), pp. 179-185.
- Naddeo, V., Meriç, S., Kassinos, D., Belgiorno, V., Guida, M. *Fate of pharmaceuticals in contaminated urban wastewater effluent under ultrasonic irradiation* (2009) Water Research, 43 (16), pp. 4019-4027.
- Naddeo, V., Landi, M., Belgiorno, V., Napoli, R.M.A. *Wastewater disinfection by combination of ultrasound and ultraviolet irradiation* (2009) Journal of Hazardous Materials, 168 (2-3), pp. 925-929.
- Naddeo, V., Zarra, T., Belgiorno, V. *A comparative approach to the variation of natural elements in Italian bottled waters according to the national and international standard limits.* (2008) Journal of Food Composition and Analysis, 21 (6), pp. 505-514.
- Zarra, T., Naddeo, V., Belgiorno, V., Reiser, M., Kranert, M. *Odour monitoring of small wastewater treatment plant located in sensitive environment* (2008) Water Science and Technology, 58 (1), pp. 89-94.
- Belgiorno, V., Rizzo, L., Fatta, D., Della Rocca, C., Lofrano, G., Nikolaou, A., Naddeo, V., Meric, S. *Review on endocrine disrupting-emerging compounds in urban wastewater: occurrence and removal by photocatalysis and ultrasonic irradiation for wastewater reuse.* (2007) Desalination, 215 (1-3), pp. 166-176.
- Naddeo, V., Belgiorno, V., Napoli, R.M.A. *Behaviour of natural organic matter during ultrasonic irradiation* (2007) Desalination, 210 (1-3), pp. 175-182.
- Naddeo, V., Zarra, T., Belgiorno, V. *Optimization of sampling frequency for river water quality assessment according to Italian implementation of the EU Water Framework Directive.* (2007) Environmental Science and Policy, 10 (3), pp. 243-249.