

Curriculum vitae

Dr. Stefano Amalfitano (Water Research Institute – National Research Council of Italy)

• EDUCATION

- 2007 **PhD in Evolutionary Biology and Ecology**
School of Mathematics, Physics and Natural Sciences / Department of Biology, University of Rome “Tor Vergata”, Italy
- 2002 **Master Degree in Biology – Population Biology and Evolution**
Faculty of Mathematical, Natural and Physical Sciences / Department of Biology and Biotechnology Charles Darwin, University of Rome “Sapienza”, Italy

• CURRENT POSITIONS

- 2021 – today **Senior Researcher** (Primo Ricercatore – II livello)
Department of Earth system science and environmental technologies (DSSTTA) / Water Research Institute (IRSA), National Research Council of Italy (CNR)
- 2012 – today **Co-founder / treasurer** of Microb&co, a non-profit organization dedicated to advancing science in the field of microbial ecology

• PREVIOUS POSITIONS

- 2012 – 2020 **Permanent Researcher in Microbial Ecology**
Department of Earth system science and environmental technologies (DSSTTA) / Water Research Institute (IRSA), National Research Council of Italy (CNR)
- 2007 – 2012 **Fixed-term Researcher in Microbial Ecology**
Department of Earth system science and environmental technologies (DSSTTA) / Water Research Institute (IRSA), National Research Council of Italy (CNR)
- 2007 – 2007 **Research Fellow in Microbial Ecology**
Department of Earth system science and environmental technologies (DSSTTA) / Water Research Institute (IRSA), National Research Council of Italy (CNR)

• FELLOWSHIPS

- 2009 – 2009 **Visiting Scientist** - Short-term mobility fellowship received from CNR; held at the Department of Plant and Microbial Biology /Limnological Station, University of Zurich, Switzerland
- 2005 – 2006 **Research Fellow** - Scholarship received from University of Rome “Tor Vergata”; held at the Molecular Ecology Department, Max Planck Institute for Marine Microbiology, Bremen, Germany

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2017 – today **Member of organizing committee** - Conferences of the Italian Society of Cytometry (GIC)
- 2009 – 2019 **Local organizer / Lecturer** - International Course of Microbial Ecology - ICME series, Italy
- 2013 **Co-chair** - First EMBO Conference on Aquatic microbial ecology: SAME13, Stresa, Italy

• INSTITUTIONAL RESPONSIBILITIES

- 2012 – today **Reference person** of the Laboratory of Cytometry and Microscopy, IRSA-CNR, Italy
- 2016 – 2019 **Elected deputy** of the researchers at IRSA-CNR, Italy

- **REVIEWING ACTIVITIES**

- 2020 – today **Editorial Board / Academic Editor**, Water, MDPI, ISSN: 2073-444
- 2010 – today **Editorial Board / Associate Editor**, Hydrobiologia, Springer Nature, ISSN: 0018-8158
- 2006 – today **Reviewer** of scientific journals with impact factor - 232 verified reviews for 68 journals
<https://publons.com/researcher/449681/stefano-amalfitano>
- 2009 – 2019 **Scientific Advisory Board** for the evaluation of PhD theses (University of Jaen, Spain; University of Barcelona, Spain; Ghent University, Belgium; Tuscia University, Italy)

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2012 – today **Elected member of the Scientific Advisory Board**, Italian Society of Cytometry (GIC)
- 2007 – today **Associated Member** of the Italian Association of Oceanology and Limnology (AIOL)

Ten years track-record

Scientific profile

Dr. Stefano Amalfitano is PhD in Evolutionary Biology and Ecology and head of the cytometry and microscopy laboratories at the Water Research Institute since 2012. He has been carrying out research activities in the fields of environmental microbiology and aquatic microbial ecology for the determination of the role of microbial communities in the circulation of carbon and nutrients and in the dynamics of anthropogenic pollutants. As part of national and international research projects, these studies find application for the management and sustainable use of water resources in environmental and engineered systems. The research activity is focused on processes that regulate the dynamics of microbial communities and the fate of chemical and microbiological contamination in the environment. The investigations are strengthened by the skills acquired in the use of flow cytometry as a monitoring method for the rapid quantification and characterization of microbial cells in different environmental matrices.

Scientific impact

Over his career, he authored more than 60 papers published on international journals with impact factor (H-index = 23).

He chaired international conferences on aquatic microbial ecology (e.g., SAME 2013, EMBO Series), and the national events organized by the Italian Society of Cytometry (GIC) since 2017, as elected member of scientific advisory board.

In the last 10 years, he was Principal Investigator or Unit Head of national (n. 4) and international (n. 4) projects.

To improve the valorization of his research and facilitate the organization of dissemination events, he is co-founder since 2012 of Microb&Co, a non-profit organization dedicated to advancing science in the field of microbial ecology (www.microbeco.org).

Scientific production

Papers on journals (n. 82); with IF: 63; without IF: 15

Online repository: 4

Volume without IF: 1

Meeting Abstract in journals with IF: 3

Meeting Abstract in journals without IF: 1

Documents with ISBN (n. 15); Conference proceedings with ISBN: 8; Book chapter with ISBN: 7

Technical reports (n. 18); International: 9; National: 9

Participation to scientific projects (n. 37); International: 12; National: 18; Sampling surveys: 7

Scientific dissemination activities (n. 21)

Organization of scientific events (n. 16)

Awards (n. 10)

Participations to national and international meetings (n. 132)

Bibliometric indexes

| 2003 - 2021 | H-index | Citations (#) | Products (#) |
|----------------|---------|---------------|--------------|
| Web of Science | 23 | 1613 | 68 |
| Scopus | 23 | 1680 | 65 |
| Google Scholar | 27 | 2216 | 100 |

Publications

| 2011 - 2021 | H-index 10 years | Citations (#) 10 years | Products (#) 10 years |
|----------------|---------------------|---------------------------|--------------------------|
| Web of Science | 19 | 940 | 56 |

Averaged IF of top 15 publications: 8.149

| | Title | Citations (#) WOS | IF |
|---|--|----------------------|--------|
| 1 | Havel, J. E., Kovalenko, K. E., Thomaz, S. M., Amalfitano, S. , & Kats, L. B. (2015). Aquatic invasive species: challenges for the future. <i>Hydrobiologia</i> , 750(1), 147-170. | 173 | 2.694 |
| 2 | Proia, L., Lupini, G., Osorio, V., Pérez, S., Barceló, D., Schwartz, T., Amalfitano, S. , ... & Sabater, S. (2013). Response of biofilm bacterial communities to antibiotic pollutants in a Mediterranean river. <i>Chemosphere</i> , 92(9), 1126-1135. | 58 | 7.086 |
| 3 | Amalfitano, S. , Del Bon, A., Zoppini, A., Ghergo, S., Fazi, S., Parrone, D., ... & Preziosi, E. (2014). Groundwater geochemistry and microbial community structure in the aquifer transition from volcanic to alluvial areas. <i>Water research</i> , 65, 384-394. | 38 | 11.236 |
| 4 | Ejarque, E., Freixa, A., Vazquez, E., Guarch, A., Amalfitano, S. , Fazi, S., ... & Butturini, A. (2017). Quality and reactivity of dissolved organic matter in a Mediterranean river across hydrological and spatial gradients. <i>Science of The Total Environment</i> , 599, 1802-1812. | 32 | 7.963 |
| 5 | Casentini, B., Falcione, F. T., Amalfitano, S. , Fazi, S., & Rossetti, S. (2016). Arsenic removal by discontinuous ZVI two steps system for drinking water production at household scale. <i>Water research</i> , 106, 135-145. | 31 | 11.236 |
| 6 | Zoppini, A., Ademollo, N., Amalfitano, S. , Casella, P., Patrolecco, L., & Polesello, S. (2014). Organic priority substances and microbial processes in river sediments subject to contrasting hydrological conditions. <i>Science of the total environment</i> , 484, 74-83. | 30 | 7.936 |
| 7 | Butturini, A., Guarch, A., Romaní, A. M., Freixa, A., Amalfitano, S. , Fazi, S., & Ejarque, E. (2016). Hydrological conditions control in situ DOM retention and release along a Mediterranean river. <i>Water research</i> , 99, 33-45. | 22 | 11.236 |
| 8 | Amalfitano, S. , Fazi, S., Ejarque, E., Freixa, A., Romaní, A. M., & Butturini, A. (2018). Deconvolution model to resolve cytometric microbial community patterns in flowing waters. <i>Cytometry Part A</i> , 93(2), 194-200. | 20 | 4.355 |
| 9 | Zoppini, A., Ademollo, N., Amalfitano, S. , Capri, S., Casella, P., Fazi, S., ... & Patrolecco, L. (2016). Microbial responses to polycyclic aromatic | 19 | 7.936 |

hydrocarbon contamination in temporary river sediments: experimental insights. *Science of the Total Environment*, 541, 1364-1371.

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|----|--|---|--------|
| 10 | Valhondo, C., Martínez-Landa, L., Carrera, J., Díaz-Cruz, S. M., Amalfitano, S. , & Levantesi, C. (2020). Six artificial recharge pilot replicates to gain insight into water quality enhancement processes. <i>Chemosphere</i> , 240, 124826. | 7 | 7.086 |
| 11 | Zoppini, A., Ademollo, N., Patrolecco, L., Langone, L., Lungarini, S., Dellisanti, W., & Amalfitano, S. (2018). Distribution patterns of organic pollutants and microbial processes in marine sediments across a gradient of anthropogenic impact. <i>Environmental Pollution</i> , 242, 1860-1870. | 6 | 8.071 |
| 12 | Amalfitano, S. , Levantesi, C., Copetti, D., Stefani, F., Locantore, I., Guarnieri, V., ... & Rossetti, S. (2020). Water and microbial monitoring technologies towards the near future space exploration. <i>Water research</i> , 177, 115787. | 5 | 11.236 |
| 13 | Vergine, P., Amalfitano, S. , Salerno, C., Berardi, G., & Pollice, A. (2020). Reuse of ultrafiltered effluents for crop irrigation: on-site flow cytometry unveiled microbial removal patterns across a full-scale tertiary treatment. <i>Science of the Total Environment</i> , 718, 137298. | 5 | 7.936 |
| 14 | Amalfitano, S. , Levantesi, C., Garrelly, L., Giacosa, D., Bersani, F., & Rossetti, S. (2018). Water quality and total microbial load: a double-threshold identification procedure intended for space applications. <i>Frontiers in microbiology</i> , 9, 2903. | 4 | 5.640 |
| 15 | Morgana, S., Casentini, B., & Amalfitano, S. (2021). Uncovering the release of micro/nanoplastics from disposable face masks at times of COVID-19. <i>Journal of Hazardous Materials</i> , 126507. | 0 | 10.588 |
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The candidate declares under his own responsibility that he retains all supporting and certified documentation of the qualifications listed above (e.g., e-mails, letters of appointment, letters of invitation, degree and doctoral theses, brochures of conferences and courses, etc.).

20/08/2021