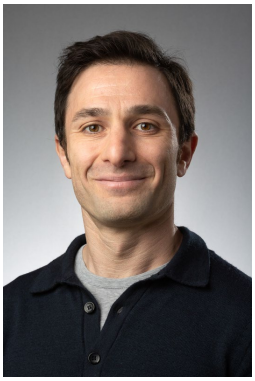
Curriculum Vitae



Ugo Marzocchi

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Personal data

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Scientific focus area

My scientific interest lies at the intersection between ecology, biogeochemistry, and electrochemistry. The focus of my research is on the main factors that regulate macronutrients (C, N, P, S, Fe) cycling in marine and freshwater sediments, and prominently on the role of bacteria able to mediate electric currents. My work on this topic covers different aspects spanning between their metabolism, geochemical impact, diversity, and lastly, on how such electrogenic capabilities can be used to stimulate degradation of contaminants in sediments. I address these topics primarily by applying isotopic tracers and sensing techniques such as microelectrodes and planar optodes.

Academic employment

09/2020 – present	Assistant Professor, Department of Biology, **Aarhus University**, Denmark
02/2020 – 08/2020	Postdoc at **Aarhus University**, Department of Biology, Denmark
02/2019 – 01/2020	Postdoc at **Stazione Zoologica Anton Dorhn**, Napoli, Italy
05/2018 - 01/2019	Postdoc at **Center for Electromicrobiology** at Aarhus University, Denmark
03/2017 and 9-11/2018	*Parental leave (12 weeks)*
04/2016 – 04/2018	*Marie Sklodowska-Curie fellow* at Department of Analytical, Environmental and Geo-Chemistry at **Vrije Universiteit Brussel**, Belgium and at **Netherlands Institute for Sea Research – NIOZ**, Yerseke, The Netherlands
10/2013 – 03/2016	Postdoc at **Nordic Center for Earth Evolution**, at University of Southern Denmark

Education

5/2013 **PhD in Bioscience**
Aarhus University (Denmark), Dep. of Bioscience (Part of *Marie Curie International Training Network*)
Title: "Development of a microscale NO_x^- biosensor for the study of nitrogen cycling in marine sediment". Advisor Prof. Niels Peter Revsbech

4/2009 **Master of Science** in Conservation of aquatic environments. Final mark: 110/110 *Summa cum Laude.*
Parma University (Italy). Faculty of Science.
Title: "Estimate of the growth of a meadow of *Vallisneria spiralis* via *in situ* leaf-marking technique and incubation of intact cores". Advisor Prof. Pierluigi Viaroli and Assoc. Prof. Marco Bartoli

Academic qualification

7/2022 University Pedagogical Course at Aarhus University

Awarded grants

2023 Novo Nordisk Foundation. Industrial Biotechnology and Environmental Biotechnology. Postdoctoral fellowship to Ramya Veerubhotla (320 K€) – Scientific Host and co-PI.
2022 Velux Foundation. Villum Experiment grant (270 K€) – Personal grant
2022 Parma University (Italy). One-year consultant salary for support for ERC-project preparation (25 K€) – Co-applicant
2022 Marie Skłodowska-Curie Individual Fellowship (215 K€) to Julia Otte – Co-applicant (Supervisor)
2019 SZN Anton Dohrn (Italy) – Open University (UK). PhD-student grant (65 K€) - Co-applicant
2018 Danish Hydrocarbon Research and Technology Centre. Research grant (40 K€) - Co-applicant
2016 Marie Skłodowska-Curie Individual Fellowship (160 K€) - Personal grant
2008 ADSU Emilia Romagna, Italy. Award for five-month study period in Sweden (4 K€) - Personal grant

Management experience

2023 Member of Research and Business Committee at Dpt. of Biology, Aarhus University
2023 PI on 2-year project eMOVE "Influence of electric fields on the mass-transport of nutrients in sediment"
2021 Co-PI on 2-year project "Cable bacteria in surface water restoration" (ongoing in collaboration with German company Söll GmbH)
2021 Member of scientific core-group of the DNRF-funded Center for Electro-microbiology (ongoing)
2018 Co-PI on 6-month project "Bio-electrochemical Snorkel for souring mitigation"
2016 PI on 2-year EU-funded project ENIRIS "Electrochemical Nitrate reduction in Marine Sediment"

Teaching and supervision (see extended information in the Teaching portfolio)

Supervision and mentoring of students and postdocs

Postdocs 3. PhD students 2. Master thesis 4. Master projects 6. Bachelor thesis: 5. Bachelor projects: 6.

Academic Teaching

Main courses

Microsensor Analysis in the Environmental Sciences (PhD level, 5 ECTS). Teacher. *Aarhus University*. Since 2022
Microbial Ecology (BSc, 10 ECTS). Teacher: Module on Nitrogen cycling. *Aarhus University*. Since 2021
Microbiology for Biologists (BSc, 5 ECTS). Teacher: Module on bacterial growth. *Aarhus University*. Since 2020
Microbiology for Biochemists (BSc, 5 ECTS). Teacher: Module on bacterial growth. *Aarhus University*. 2020-2-3

Contribution to other courses

Ecology (BSc, 10 ECTS). Co-instructor. *Aarhus University*. 2022
Microbial elemental cycling and population ecology (MSc, 10 ECTS) Co-instructor *Aarhus Uni*. 2023-4
Marine Biogeochemical Cycles (MSc level). External invited lecturer at *Univ. Federico II, Naples, Italy*. 2021

Biology Research – theory and practice (BSc, 5 ECTS). Co-instructor. *Aarhus University*.	2020 & '22
Analysis of ecological data External invited lecturer at *Parma University, Italy*.	2017
Geomicrobiolgy (MSc, 10 ECTS). Co-instructor. *Aarhus University*.	2016
Marine Biology - Field Course (MSc, 5 ECTS). Co-instructor. *University of Southern Denmark*.	2014-5
General Biology (BSc, 5 ECTS). Teaching assistant. *Aarhus University*.	2010-1

International collaborations/network

International collaborators Prof. Filip Meysman (Antwerp University Belgium), Dr. Federico Aulenta (CNR, Italy), Prof. Perran Cook (Monash University, Australia), Prof. Per Hall and Assist. Prof. Stefano Bonaglia (Gothenburg University, Sweden), Prof. Marco Bartoli (Parma University, Italy), Prof. Caroline Slomp (Utrecht University, The Netherlands), Dr. U. Cardini (Marine Zoological Station, Naples, Italy), Dr. Mindaugas Zilius (Klaipeda University, Lithuania), Prof Andreas Kappler (University of Tubingen, Germany)

Research stays 2011 Max Planck Institute for Marine Microbiology, Bremen, Germany. Group of Prof. De Beer D

Participation to international research projects: 10 of which 4 EU-funded.

Membership to international societies: Marie Curie Alumni Association; American Society of Limnology and Oceanography; International Society of Microbial Electrochemistry.

Collaboration with industry

Söll GmbH, Germany. Ongoing project: "Cable bacteria for sediment restoration".

Aarhus Vand, Denmark. Ongoing projects: "Mass-transport in anammox aggregates" and "H_2S monitoring in sewage via a novel total sulfide sensor".

Peer-reviewing activity

Research founding agencies: Dutch Research Council (NOW - KLEIN grants), Maryland Sea Grant Program (US), National Science Center of Poland (OPUS – funding scheme), German Federal Ministry of Education and Research (BMBF) funding scheme for the German Marine Research Alliance (Deutsche Allianz Meeresforschung, DAM).

Scientific Journals: Nature Communications, Science Advances, Trends in Biotechnology, Water Research, Environmental Science & Technology, Geochimica et Cosmochimica Acta, Chemosphere, Limnology & Oceanography, Journal of Marine Systems, Science of the Total Environment, PLOS One, Frontiers in Earth Sciences, Journal of Limnology, and Estuaries and Coasts.

Press coverage

1. *Interviewed by Nikk Ogasa for Feature article on Science News*: *"Electrical bacteria may help clean oil spills and curb methane emissions"*. https://www.sciencenews.org/article/electrical-bacteria-may-help-clean-oil-spills-and-curb-methane-emissions
2. *Research Feature* "Identifying a link between cable bacteria and hydrocarbon degradation in polluted marine sediments" DOI: 10.26904/RF-136-1478325028. https://researchfeatures.com/link-cable-bacteria-hydrocarbon-degradation-polluted-marine-sediments/

Contribution to conference organization

- Session Chair: "Ecosystems" at Electromicrobiology Conference 2021, Aarhus (Denmark)
- Session Co-host and Chair "Invertebrate-microbes associations and their relevance in biogeochemical processes. Aquatic Sciences Meeting 2021 - ASLO conference (USA) *online*

Invited seminars and workshop participation

1. **Marzocchi U.** (March 2024). "CaO_2 for P trapping in freshwater sediment" Invited presentation at **Wasser, Seen, Zukunft Symposium zum World Water Day 2024**. Hof, Germany. Organizer Water4All network, Germany.
2. **Marzocchi U.** (October 2023). "Second **China-Denmark Symposium on Electromicrobiology**". Guangzhou, China.
3. **Marzocchi U.** (September 2023). "Microsensor for biogeo(electro)chemical studies" Invited presentation for the **International workshop on microsensors** at UNISENSE, Aarhus, Denmark.
4. **Marzocchi U.** (August 2023). "Bio-geo-electro-chemistry" Invited speaker at the **Annual meeting of the Department of Biology** at Aarhus University, Aarhus, Denmark.
5. Corneliussen M.M., Otte J., Schramm A., & **Marzocchi U.** (December 2022). "Cable bacteria stimulate chemodenitrification in marine sediment" Invited presentation at the **6th International Cable Bacteria Workshop**, Drongen, Belgium. Organizer Prof. Filip Meysman.
6. **Marzocchi U.** "Cable bacteria, ecosystem engineers of freshwater sediments" (September 2022). Invited seminar at Dept. of Environmental Sciences, **Parma University**. Italy. Prof Marco Bartoli.
7. **Marzocchi U.**, Palma E., Rossetti S., Aulenta F., Scoma A., Marshall I., Piredda R., and Quero G.M. The missing "electric" link in benthic hydrocarbon degradation (2020). Invited presentation at the **5th International workshop on Cable Bacteria**, Antwerp, Belgium (Online) (Oral presentation).
8. **Marzocchi U.** "Research outlook: Methodological approaches and study cases" (May 2020). Invited seminar at **University of Basel** (CH), Biogeochemistry group. Prof. Moritz Lehmann.
9. **Marzocchi U.** "Nitrate reduction pathway and energy conservation in cable bacteria" (January 2019). Invited seminar at **University of Eastern Anglia**, Norwich, (UK) Prof. David Richardson.
10. **Marzocchi U**, Thorup C, Dam AS, Schramm A, and Risgaard-Petersen N. Dissimilatory nitrate reduction in Cable Bacteria (2018). Invited presentation to the **4th International workshop on Cable Bacteria** Kalø Vig, Denmark. Book of Abstract p7. (Oral presentation).
11. **Marzocchi U** & Risgaard-Petersen N. Cable Bacteria and benthic nitrogen cycling (2016). Invited presentation to the **3rd International workshop on "Cable Bacteria"**. February 15-17, Schliersee, Germany. Book of abstract p2 (Oral presentation).
12. **Marzocchi U.** "Research abroad. Challenges and opportunities for Biology Master students" (May 2015). Invited lecture at Dept. of Environmental Sciences, **Parma University**. Italy. Prof Marco Bartoli.
13. Invited participant to the 2nd International workshop on "Cable Bacteria" (2014). **Antwerp**, Belgium. Organizer Prof. Filip Meysman.
14. **Marzocchi U**, Revsbech NP, Nielsen LP, and Risgaard-Petersen N. Can nitrate act as alternative electron acceptor for cable bacteria? (2013) Invited presentation at the **1st International workshop on "Cable Bacteria"**. April 15-17 Aarhus, Denmark (Oral presentation).
15. **Marzocchi U.** "Distant electric coupling between nitrate reduction and sulphide oxidation in marine sediment" (December 2012). Invited seminar at **Helmholtz-Zentrum Centre for Materials and Coastal Research**. Geesthacht, Germany. Researcher Kristin Daehnke.
16. **Marzocchi U.** "Distant electric coupling between nitrate reduction and sulphide oxidation investigated by an improved nitrate microscale biosensor" (April 2012). Department of Environmental Sciences at **Parma University**, Italy. Prof. Marco Bartoli.

Publication list

1. Veerubhotla, R. and **Marzocchi U.** (2024) Examining the resistance and resilience of anode-respiring Shewanella oneidensis biohybrid using microsensors. *Chemosphere* p. 141109. https://doi.org/10.1016/j.chemosphere.2024.141109

2. Lian Y., Yu Y, Chen S., Li J., Cao W., **Marzocchi U.** & Yonggang Yang (2024). Microbial electrochemical snorkels: principle, structure, and applications in environmental amelioration. *Chinese Journal of Biotechnology* doi: 10.13345/j.cjb.230856
3. Berlinghof J., Montilla L. M., Peiffer F., Quero G. M., **Marzocchi U.**, Meador T. B., . . . Cardini U. (2024) Accelerated Nitrogen Cycling on Mediterranean seagrass leaves at volcanic CO2 vents. bioRxiv, 2023.2005.2019.541481. doi:10.1101/2023.05.19.541481 (Accepted in *Communication Biology*)
4. Politi, T., Zilius M., Bartoli, M., Cardini U., **Marzocchi U.**, and Bonaglia S. (2023). Direct contribution of invertebrate holobionts to methane release from coastal sediments. *Limnology and Oceanography Letters* 8: 876-884. https://doi.org/10.1002/lol2.10361
5. Steininger F., Veerubhotla R., Revsbech N.P., **Marzocchi U.,** & Koren K. (2023) From two sensors to a single sensor: Better understanding of oxygen-sulfide interfaces. *Limnol Oceanogr-Meth* 21: 606-614. 10.1002/lom3.10568
6. Zilius M., Bartoli M., Bonaglia S., Cardini U., Gonsalez Chiozzini V., **Marzocchi U.**, Moraes P.C., Zaiko A., and Braga E.S. (2023) Role of crab holobionts in benthic N cycling in mangroves with different trophic status. *Marine Ecology Progress Series* 712: 87-99.
7. Steininger F, Koren K, Revsbech NP, **Marzocchi U.*** (2023) Microsensor for total dissolved sulfide (TDS). *Chemosphere* 323:138229. https://doi.org/10.1016/j.chemosphere.2023.138229
8. **Marzocchi U.***, and Revsbech N. P. (2022). Sulfate biosensor for environmental applications. *Limnolology & Oceanography - Methods* 20: 674-681. 10.1002/lom3.10512.
9. Cardini U., Marin-Guirao L., Montilla L., **Marzocchi U.**, Chiavarini S., Rimauro J., Quero G. M., Petersen J. M., and Procaccini G. (2022). Nested interactions between chemosynthetic lucinid bivalves and seagrass promote ecosystem functioning in contaminated sediments. *Frontiers in Plant Science*, 13. doi:10.3389/fpls.2022.918675.
10. Barbato M., Palma E., **Marzocchi U.**, Cruz Viggi C., Rossetti S., Aulenta F., and Scoma A. (2022). Snorkels enhance alkanes respiration at ambient and increased hydrostatic pressure (10 MPa) by either supporting the TCA cycle or limiting alternative routes for acetyl-CoA metabolism. *Journal of Environmental Management* 316, 115244. doi:10.1016/j.jenvman.2022.115244.
11. Berlinghof, J., Peiffer, F., **Marzocchi, U.**, Munari, M., Quero, G. M., Dennis, L., . . . Cardini, U. (2022). The role of epiphytes in seagrass productivity under ocean acidification. *Scientific Reports*, 12(1), 6249. doi:10.1038/s41598-022-10154-7.
12. Hylén, A., Bonaglia, S., Robertson, E., **Marzocchi, U.**, Kononets, M., & Hall, P. O. J. (2022). Enhanced benthic nitrous oxide and ammonium production after natural oxygenation of long-term anoxic sediments. *Limnology and Oceanography*, doi: https://doi.org/10.1002/lno.12001.
13. **Marzocchi, U.***, Thorup, C., Dam, A. S., Schramm, A., & Risgaard-Petersen, N. (2022). Dissimilatory nitrate reduction by a freshwater cable bacterium. *ISME Journal*. doi:10.1038/s41396-021-01048-z.
14. Zilius, M., Daunys, D., Bartoli, M., **Marzocchi, U.**, Bonaglia, S., Cardini, U., & Castaldelli, G. (2021). Partitioning benthic nitrogen cycle processes among three common macrofauna holobionts. *Biogeochemistry*. doi:10.1007/s10533-021-00867-8.
15. Haxthausen, K. A. v., Lu, X., Zhang, Y., Gosewinkel, U., Petersen, D. G., **Marzocchi, U.**, Andreas Libonati, B., Trapp, S. (2021). Novel method to immobilize phosphate in lakes using sediment microbial fuel cells. *Water Research*, 198, 117108. doi: https://doi.org/10.1016/j.watres.2021.117108.
16. Dam A. S., Marshall, I. P. G., Risgaard-Petersen, N., Burdorf, L. D. W., & **Marzocchi, U.*** (2021). Effect of salinity on cable bacteria species composition and diversity. *Environmental Microbiology*, 23(5), 2605-2616. doi:10.1111/1462-2920.15484.
17. Aulenta, F., Palma, E., **Marzocchi, U.**, Cruz Viggi, C., Rossetti, S., & Scoma, A. (2021). Enhanced Hydrocarbons Biodegradation at Deep-Sea Hydrostatic Pressure with Microbial Electrochemical Snorkels. *Catalysts*, 11(2), 263; doi.org/10.3390/catal11020263.

18. **Marzocchi, U.***, Bonaglia, S., Zaiko, A., Quero, G. M., Vybernaite-Lubiene, I., Politi, T., . . . Cardini, U. (2021). Zebra Mussel Holobionts Fix and Recycle Nitrogen in Lagoon Sediments. *Frontiers in Microbiology*, 11(3620). doi:10.3389/fmicb.2020.610269.
19. Politi, T., Barisevičiūtė, R., Bartoli, M., Bonaglia, S., Cardini, U., Castaldelli, G., Kančauskaitė, A., **Marzocchi, U.**, Petkuviene, J., Samuiloviene, A., Vybernaite-Lubiene, I.; Zaiko, A., and Zilius, M. (2021). Bioturbator, holobiont and vector: The multifaceted role of Chironomus plumosus in shaping N cycling. *Freshwater Biology*, doi.org/10.1111/fwb.13696.
20. Bonaglia, S., Hedberg, J., **Marzocchi, U.**, Iburg, S., Glud, R. N., & Nascimento, F. J. A. (2020). Meiofauna improve oxygenation and accelerate sulfide removal in the seasonally hypoxic seabed. *Marine Environmental Research*, 104968. doi.org/10.1016/j.marenvres.2020.104968.
21. Broman, E., Bonaglia, S., Holovachov, O., **Marzocchi, U.**, Hall, P. O. J., & Nascimento, F. J. A. (2020). Uncovering diversity and metabolic spectrum of animals in dead zone sediments. *Communications Biology*, 3(1), 106. doi:10.1038/s42003-020-0822-7.
22. Sandfeld, T., **Marzocchi, U.**, Petro, C., Schramm, A., and Risgaard-Petersen, N. (2020). Electrogenic sulfide oxidation mediated by cable bacteria stimulates sulfate reduction in freshwater sediments. *ISME Journal*, 10.1038/s41396-020-0607-5.
23. **Marzocchi, U.***, Palma, E., Rossetti, S., Aulenta, F., and Scoma, A. (2020). Parallel artificial and biological electric circuits power petroleum decontamination: the case of snorkel and cable bacteria. *Water Research* doi.org/10.1016/j.watres.2020.115520.
24. Van de Velde, S. J., Hylén, A., Kononets, M., **Marzocchi, U.**, Leermakers, M., Choumiline, K., Hall. P. O. J., and Meysman, F. J. R. (2020). Elevated sedimentary removal of Fe, Mn, and trace elements following a transient oxygenation event in the Eastern Gotland Basin, central Baltic Sea. *Geochimica Et Cosmochimica Acta*, 271, 16-32. doi:10.1016/j.gca.2019.11.034.
25. Brown, P., RELISH Consortium, & Zhou, Y. (2019). Large expert-curated database for benchmarking document similarity detection in biomedical literature search. *Database*, 2019. doi:10.1093/database/baz085.
26. Bonaglia, S., **Marzocchi, U.**, Ekeroth, N., Bruchert, V., Blomqvist, S., & Hall, P. O. J. (2019). Sulfide oxidation in deep Baltic Sea sediments upon oxygenation and colonization by macrofauna. *Marine Biology*, 166(11), 149.
27. Samuiloviene, A., Bartoli, M., Bonaglia, S., Cardini, U., Vybernaite-Lubiene, I., **Marzocchi, U.**, Petkuviene J., Politi T., Zaiko A., and Zilius, M. (2019). The Effect of Chironomid Larvae on Nitrogen Cycling and Microbial Communities in Soft Sediments. *Water*, 11(9), 1931.
28. **Marzocchi, U.***, Benelli, S., Larsen, M., Bartoli, M., & Glud, R. N. (2019). Spatial heterogeneity and short-term oxygen dynamics in the rhizosphere of Vallisneria spiralis: Implications for nutrient cycling. *Freshwater Biology*, 64(3), 532-543.
29. Bonaglia, S., Ramo, R., **Marzocchi, U.**, Le Bouille, L., Leermakers, M., Nascimento, F. J. A., & Gunnarsson, J. S. (2019). Capping with activated carbon reduces nutrient fluxes, denitrification and meiofauna in contaminated sediments. *Water Research*, 148, 515-525.
30. Kessler, A. J., Wawryk, M., **Marzocchi, U.**, Roberts, K. L., Wong, W. W., Risgaard-Petersen, N., Meysman F.J.R., Glud R.N., and Cook, P. L. M. (2019). Cable bacteria promote DNRA through iron sulfide dissolution. *Limnology and Oceanography*, 64(3), 1228-1238.
31. **Marzocchi, U.***, Bonaglia, S., van de Velde, S., Hall, P. O. J., Schramm, A., Risgaard-Petersen, N., & Meysman, F. J. R. (2018). Transient bottom water oxygenation creates a niche for cable bacteria in long-term anoxic sediments of the Eastern Gotland Basin. *Environmental Microbiology*, 20(8), 3031-3041.
32. **Marzocchi, U.***, Thamdrup, B., Stief, P., & Glud, R. N. (2018). Effect of settled diatom-aggregates on benthic nitrogen cycling. *Limnology and Oceanography*, 63(1), 431-444.
33. **Marzocchi, U.***, Trojan, D., Larsen, S., Meyer, R. L., Revsbech, N. P., Schramm, A., Nielsen L.P., and Risgaard-Petersen, N. (2014). Electric coupling between distant nitrate reduction and sulfide oxidation in marine sediment. *ISME Journal*, 8(8), 1682-1690.

34. **Marzocchi, U.***, & Revsbech, N. P. (2014). Electrophoretic sensitivity control applied on microscale NOx− biosensors with different membrane permeabilities. *Sensors and Actuators B: Chemical*, 202(0), 307-313.
35. Pinardi, M., Bartoli, M., Longhi, D., **Marzocchi, U.**, Laini, A., Ribaudo, C., & Viaroli, P. (2009). Benthic metabolism and denitrification in a river reach: a comparison between vegetated and bare sediments. *Journal of Limnology*, 68(1), 133-145.

Conference proceedings

36. Cardini, U., **Marzocchi, U.**, Samuiloviene, A., Zaiko, A., Bonaglia, S., Bartoli, M., & Zilius, M. (2021). Macrofauna from disparate estuarine environments host active diazotrophs. https://ui.adsabs.harvard.edu/abs/2021AGUFMOS52A..05C
37. **Marzocchi, U**.*, N. Risgaard-Petersen, N. P. Revsbech and L. P. Nielsen (2011). "Nitrate reduction drives distant sulfide oxidation - Goldschmidt Abstracts 2011." *Mineralogical Magazine* 75(3): 1419. Part of ISSN 0026-461X.
38. **Marzocchi U***, Bonaglia S, Van de Velde S, Meysman F, Risgaard-Petersen N, and Hall P. A Major Baltic Inflow Creates A Temporal Niche For Cable Bacteria In Eastern Gotland Basin Sediments (2017). Baltic Sea Science Congress 2017 | conference-abstract. p 45. doi: 10.12754/procs-2017-bssc.
39. Bonaglia S, Hylén A, Kononets MY, **Marzocchi U**, Nilsson M, Almroth-Rosell, E, and Hall POJ. The 2014 major baltic inflow affected benthic greenhouse gas emissions in the baltic proper: an *in situ* study (2017). Baltic Sea Science Congress 2017. Conference abstract p42 doi:10.12754/procs-2017-bssc.
40. Pinardi M, Longhi D, **Marzocchi U**, Laini A, Ribaudo C, Bartoli M. Relazione tra processi biogeochimici e vegetazione bentonica in un tratto fluviale colonizzato da praterie sommerse di *Vallisneria spiralis* (2010). *Biologia Ambientale*, 24 (1): 243-252. In Atti XVIII congresso S.It.E., Parma 1-3 settembre 2008. ISSN 1129-504X.