

PERSONAL INFORMATION

Maurizio Barbieri



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Sex M | Date of birth 01/07/1970 | Nationality Italian

orcid.org/0000-0002-6595-103X

ResearcherID: E-9260-2012

POSITION

Associate Professor of Environmental Geochemistry, Faculty of Mathematics, Physics and Natural Sciences (SMFN) at Sapienza University of Rome (2006-Present)

WORK EXPERIENCE

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| 2009-2016 | Board of Directors member at Sapienza University of Rome |
| 2004-Present | Board of Professors member of PhD in Earth Sciences at Sapienza University of Rome |
| 2010-Present | Fellow of the Association of Applied Geochemists |
| 2009-Present | Member of the Italian Geochemical Society |
| 2003-2006 | Member of the Earth Sciences Department Board of Sapienza University of Rome |
| 2001-Present | Manager of the Geochemistry Laboratory at the Earth Sciences Department of Sapienza University of Rome |
| 2000-2006 | Research of Environmental Geochemistry, Faculty of Mathematics, Physics and Natural Sciences (SMFN) at Sapienza University of Rome |
| 1998-2000 | PostDoc, II Faculty of Engineering, Polytechnic of Bari |

- 1998 PhD in Earth Sciences (Geochemistry) Sapienza University of Rome Italy
- 1994 Degree in Geological Sciences Magna cum Laude Sapienza University of Rome-Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills gained through my experience as University professor

Organisational / managerial skills Leadership (Tutor for 5 PhD Student from 2010-Present)

Job-related skills Application of the geochemistry methodologies in the characterization of environmental problems. In particular I studied the distribution of elements and isotopes in the Earth systems with emphasis on the use abundances and isotopic ratios in defining the interaction between different reservoirs (mantle, crust, atmosphere and hydrosphere). I have also related interests in environmental geochemistry and Health. In particular I study the role of toxic trace elements (e.g. As, B and Hg), deriving from hydrogeochemical anomalies of natural origin, on water quality. Geochemical and hydrogeochemical surveys, Ion chromatography, ICP-MS, water, soil and geological mapping, univariate and multivariate analysis of geochemical datasets, Isotope analyses of Sr, H, O and B. Good command of quality control processes.

Editorial Board activity

- **Chemie der Erde / Geochemistry** (<https://www.journals.elsevier.com/chemie-der-erde-geochemistry/editorial-board>)
- **Water** (<http://www.mdpi.com/journal/water/editors>)
- **Arabian Journal of Geosciences** (ENVIRONMENTAL GEOCHEMISTRY & MINERALOGY, <http://www.springer.com/earth+sciences+and+geography/journal/12517?detailsPage=editorialBoard>)
- **Journal of Chemistry** (Geochemistry subject area, <https://www.hindawi.com/journals/jchem/editors/geochemistry/>)
- **Geosciences** (<http://www.mdpi.com/journal/geosciences/editors>)

Other skills

Rector's Delegate for sport activities (2016-Present)

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of statistics suite
- good command of ICP-MS and Ion-Cromatography software

Recent projects

- 2016-Present Environmental Advisor (Hydrogeochemistry) for the International Project (2016-2019) SECOSUD II - Conservation and equitable use of biological diversity in the SADC region. The project is financed by the Italian Agency for Development Cooperation and implemented through Eduardo Mondlane University, South African National Park and Sapienza University of Rome.
- 2014-2016 Scientific Coordinator for the Geochemical model of the Vico Lake, with particular regard to environmental arsenic. Client: Regional Agency for Environmental Protection of Lazio.
- 2010-2011 Scientific coordinator for the Water Unit of the National Project: Ecological restoration plan for Palo Laziale Wood, Italy. funded by the Nando Peretti Foundation.
- 2012-2014 Scientific coordinator for the Water Unit of the International Project: Institutional Support to the management of Protected Areas in Albania funding from the International Union for Conservation of Nature (IUCN).

Teaching experience

- Environmental Geochemistry, Master degree in Environmental Sciences
- 2006-Present Hydrogeochemistry, Master degree in Geology
- 2010-Present Environmental Geochemistry, Master degree in Industrial Chemistry
- 2000-2014

 Publications
(2015-Present)

1. Nigro A., Sappa G., Barbieri M. (2017). Application of boron and tritium isotopes for tracing landfill contamination in groundwater. *Journal of Geochemical Exploration*, Vol. 172, pp. 101-108. DOI: 10.1016/j.gexplo.2016.10.011
2. Nigro, A., Sappa, G., Barbieri, M. (2017). Strontium Isotope as Tracers of Groundwater Contamination. *Procedia Earth and Planetary Science*. Volume 17, 2017, Pages 352–355. doi:10.1016/j.proeps.2016.12.089
3. Ronzan M., Zanella L., Fattorini L., Della Rovere F., Urgast D., Cantamessa S., Nigro A., Barbieri M., Sanità di Toppi L., Berta G., Feldmann J., Altamura M.M., Falasca G. (2017) The morphogenic responses and phytochelatin complexes induced by arsenic in *Pteris vittata* change in the presence of cadmium. *Environmental and Experimental Botany*. Volume 133, Pages 176-187. DOI: 10.1016/j.envexpbot.2016.10.011
4. Battistel M., Hurwitz S., Evans W.C., Barbieri M. (2017). The chemistry and isotopic composition of waters in the low-enthalpy geothermal system of Cimino-Vico Volcanic District, Italy. *Journal of Volcanology and Geothermal Research*. Vol. 328, pp. 222-229. DOI: 10.1016/j.jvolgeores.2016.11.005
5. Zanella L., Fattorini L., Brunetti P., Roccotiello E., Cornara L., D'Angeli S., Della Rovere F., Cardarelli, M., Barbieri, M., Sanità di Toppi L., Degola F., Lindberg S., Altamura M.M., Falasca G. (2016). Overexpression of AtPCS1 in tobacco increases arsenic and arsenic plus cadmium accumulation and detoxification. *Planta*. Volume 243, Issue 3, 1 March 2016, Pages 605-622. DOI: 10.1007/s00425-015-2428-8
6. Vitale S., Barbieri M., Sappa G. (2016). Groundwater management strategy in Limpopo national park (Mozambico) aimed to preserve biodiversity. *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, Vol. 1, pp. 815-822. DOI: 10.5593/SGEM2016/B11/S02.103
7. Barbieri M., Garone A., Neziri A., Rossi M. (2015). First groundwater chemical status assessment of the Buna River-Protected Landscape (Albania). *Environmental Earth Sciences*. Vol. 74 (7), pp. 6325-6338. DOI: 10.1007/s12665-015-4657-3
8. Sighinolfi G.P., Contini G., Barbieri M., Nigro A. (2015). Chemical and isotopic characterization of products of small-scale hypervelocity impacts: The Gebel Kamil event. *Periodico di Mineralogia*. Vol. 84 (2), pp. 323-339. DOI: 10.2451/2015PM0016
9. Brunetti P., Zanella L., De Paolis A., Di Litta D., Cecchetti V., Falasca G., Barbieri M., Altamura M.M., Costantino, P., Cardarelli M. (2015) Cadmium-inducible expression of the ABC-type transporter AtABCC3 increases phytochelatin-mediated cadmium tolerance in *Arabidopsis* *Journal of Experimental Botany*. Volume 66, Issue 13, Pages 3815-3829. DOI: 10.1093/jxb/erv185

Publications (1999-2017)

1. Nigro, A., Sappa, G., Barbieri, M. (2017). Strontium Isotope as Tracers of Groundwater Contamination. *Procedia Earth and Planetary Science*. Volume 17, 2017, Pages 352–355. doi:10.1016/j.proeps.2016.12.089
2. Nigro A., Sappa G., Barbieri M. (2017). Application of boron and tritium isotopes for tracing landfill contamination in groundwater. *Journal of Geochemical Exploration*, Vol. 172, pp. 101-108. DOI: 10.1016/j.gexplo.2016.10.011
3. Ronzan M., Zanella L., Fattorini L., Della Rovere F., Urgast D., Cantamessa S., Nigro A., Barbieri M., Sanità di Toppi L., Berta G., Feldmann J., Altamura M.M., Falasca G. (2017) The morphogenic responses and phytochelatin complexes induced by arsenic in *Pteris vittata* change in the presence of cadmium. *Environmental and Experimental Botany*. Volume 133, Pages 176-187. DOI: 10.1016/j.envexpbot.2016.10.011
4. Battistel M., Hurwitz S., Evans W.C., Barbieri M. (2017). The chemistry and isotopic composition of waters in the low-enthalpy geothermal system of Cimino-Vico Volcanic District, Italy. *Journal of Volcanology and Geothermal Research*. Vol. 328, pp. 222-229. DOI: 10.1016/j.jvolgeores.2016.11.005
5. Zanella L., Fattorini L., Brunetti P., Roccotiello E., Cornara L., D'Angeli S., Della Rovere F., Cardarelli M., Barbieri, M., Sanità di Toppi L., Degola F., Lindberg S., Altamura M.M., Falasca G. (2016). Overexpression of AtPCS1 in tobacco increases arsenic and arsenic plus cadmium accumulation and detoxification. *Planta*. Volume 243, Issue 3, 1 March 2016, Pages 605-622. DOI: 10.1007/s00425-015-2428-8
6. Vitale S., Barbieri M., Sappa G. (2016). Groundwater management strategy in Limpopo national park (Mozambico) aimed to preserve biodiversity. *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, Vol. 1, pp. 815-822. DOI: 10.5593/SGEM2016/B11/S02.103
7. Barbieri M., Garone A., Neziri A., Rossi M. (2015). First groundwater chemical status assessment of the Buna River-Protected Landscape (Albania). *Environmental Earth Sciences*. Vol. 74 (7), pp. 6325-6338. DOI: 10.1007/s12665-015-4657-3
8. Sighinolfi G.P., Contini G., Barbieri M., Nigro A. (2015). Chemical and isotopic characterization of products of small-scale hypervelocity impacts: The Gebel Kamil event. *Periodico di Mineralogia*. Vol. 84 (2), pp. 323-339. DOI: 10.2451/2015PM0016
9. Brunetti P., Zanella L., De Paolis A., Di Litta D., Cecchetti V., Falasca G., Barbieri M., Altamura M.M., Costantino, P., Cardarelli M. (2015) Cadmium-inducible expression of the ABC-type transporter AtABCC3 increases phytochelatin-mediated cadmium tolerance in *Arabidopsis* *Journal of Experimental Botany*. Volume 66, Issue 13, 1 July 2015, Pages 3815-3829. DOI: 10.1093/jxb/erv185
10. Nigro Angela, Barbieri Maurizio, Sappa Giuseppe. (2015). Hydrogeochemical characterization of municipal solid waste landfill. *Rendiconti online della Società Geologica Italiana* 04/2015; 35:304-306. Doi: 10.3301/ROL.2015.126 Garone Angelica, Barbieri Maurizio, Summa Gianpietro. (2014). Hydrogeochemical characterization of the southern sector of the Alburni Massif, Campania region, Italy. *Senses and Sciences* 1(4), 123-130. Doi: 10.14616/sands-2014-4-123130
11. Battistel M., Hurwitz S., Evans W., Barbieri M. (2014). Multicomponent geothermometry applied to a medium-low enthalpy carbonate-evaporite geothermal reservoir. *Energy Procedia*. Vol. 59, pp. 359-365. DOI: 10.1016/j.egypro.2014.10.389
12. Barbieri Maurizio, Nigro Angela, Sappa Giuseppe. (2014). Arsenic contamination in groundwater system of Viterbo area (Central Italy). *Senses and Sciences*, 1 (3):101-106 doi: 10.14616/sands-2014-3-101106
13. Nigro Angela, Barbieri Maurizio, Sappa Giuseppe. (2014). Geochemical characterization of groundwater around Municipal Solid Waste landfill. DOI: 10.3301/ROL.2014.140. Conference: SGI-SIMP. The future of the Italian Geosciences, At Milano, Volume: Rend. Online Soc. Geol. It., Suppl. n. 1 al Vol. 31
14. Barbieri Maurizio, G Sappa Giuseppe, Vitale Stefania, Parisse Barbara, Battistel Maria. (2014). Soil control of trace metals concentrations in landfills: A case study of the largest landfill in Europe, Malagrotta, Rome. *Journal of Geochemical Exploration* 08/2014; 143. DOI:10.1016/j.gexplo.2014.04.001
15. Barbieri Maurizio, Nigro Angela, Voltaggio Mario. (2014). Sr isotopes and U series radionuclides in the Sangemini area (Central Italy): Hydrogeology implications. *Senses and Sciences* ; 1 (2):51-55. doi: 10.14616/sands-2014-2-5155.
16. Barbieri Maurizio, Nigro Angela, Sappa Giuseppe. (2014). The Human impact on the natural environment: elemental geochemistry of a MSW landfill as a tool to trace changes in ecosystem processes. 14th SGEM GeoConference on Water Resources. Forest, Marine And Ocean Ecosystems, www.sgem.org, SGEM2014 Conference Proceedings, ISBN 978-619- 7105-13-1 / ISSN 1314-2704, June 19-25, 2014, Vol. 1, 753-758 pp. Doi: 10.5593/SGEM2014/B31/S12.096
17. Garone Angelica, Rossi Matteo, Nigro Angela, Barbieri Maurizio. (2014) Water quality assessment of the Buna River Protected Landscape, Northern Albania. Conference: SGI-SIMP 2014, Volume: Rend. Online Soc. Geol. It. Vol. 31 p. 557. Doi:10.3301/ROL.2014.140
18. Caschetto Mariachiara, Barbieri Maurizio, Galassi Diana M. P., Mastroillo Lucia, Rusi Sergio, Stoch Fabio, Di Cioccio Alessia, Petitta Marco. (2014). Human alteration of groundwater–surface water

interactions (Sagittario River, Central Italy): implication for flow regime, contaminant fate and invertebrate response. *Environmental Earth Sciences* Volume 71, Issue 4, pp 1791-1807. Doi 10.1007/s12665-013-2584-8

19. Battistel Maria, Barbieri Maurizio. (2013) Numerical modeling and strontium isotopic signal to assess the arsenic distribution in a low-enthalpy hydrothermal system: the case study of Viterbo geothermal area (Italy). *American Geophysical Union, Fall Meeting 2013*
20. Maurizio Barbieri, Maria Battistel, Tiziano Boschetti (2013). Chemical and isotope monitoring at Lake Albano (Central Italy): water-rock interaction and climate change effects. *Procedia Earth and Planetary Science* 7, 53-56. Doi:10.1016/j.proeps.2013.03.117
21. F. Vergari, M. Della Seta, M. Del Monte, M. Barbieri (2013). Badlands denudation "hot spots": the role of parent material properties on geomorphic processes in 20-years monitored sites of southern Tuscany (Italy). *CATENA*, vol. 106, p. 31-41, ISSN: 0341- 8162, doi: 10.1016/j.catena.2012.02.007 .02.007
22. Maurizio Barbieri, Maria Battistel, Angelica Garone (2013). The geochemical evolution and management of a coastal wetland system: A case study of the Palo Laziale protected area. *JOURNAL OF GEOCHEMICAL EXPLORATION*, vol. 126-127, p. 67-77, ISSN: 0375- 6742, doi: 10.1016/j.gexplo.2012.12.014
23. Medhat Abbas, Maurizio Barbieri, Maria Battistel, Giuditta Brattini, Angelica Garone, Barbara Parisse (2013). Water Quality in the Gaza Strip: The Present Scenario. *JOURNAL OF WATER RESOURCE AND PROTECTION*, vol. 5, p. 54-63, ISSN: 1945-3094, doi: 10.4236/jwarp.2013.51007
24. Caschetto Mariachiara, Barbieri Maurizio, Galassi Diana, Mastrolillo Lucia, Petitta Marco, Rusi Sergio. The groundwater dependent ecosystem of sagittario river, central italy: relationships between surface/groundwater and nitrogen cycle. *FLOWPATH 2012* Percorsi di Idrogeologia I edizione Bologna, 20-22 Giugno 2012.
25. Sappa Giuseppe, Barbieri Maurizio, Ergul Sibel, Ferranti Flavia (2012). Hydrogeological Conceptual Model of Groundwater from Carbonate Aquifers Using Environmental Isotopes (^{18}O , ^2H) and Chemical Tracers: A Case Study in Southern Latium Region, Central Italy.. *JOURNAL OF WATER RESOURCE AND PROTECTION*, vol. 4, p. 695-716, ISSN: 1945-3094, doi: 10.4236/jwarp.2012.49080 [con allegato e copyright].
26. Battistel Maria, Garone Angelica, Barbieri Maurizio, Parisse Barbara. (2012) Traditional (δD , $\delta\text{O}-18$) and non-traditional (Sr-87/Sr-86) isotopes approach to vertical lake profile study. *EGU General Assembly 2012*, held 22-27 April, 2012 in Vienna, Austria, p.2411.
27. Garone Angelica, Battistel Maria, Barbieri Maurizio, Parisse Barbara. (2012). Groundwater dynamic in a coastal aquifer using statistical analysis and geochemical modeling. *EGU General Assembly 2012*, held 22-27 April, 2012 in Vienna, Austria, p.2412.
28. Chiocchini Ugo, Castaldi Fabio, Barbieri Maurizio, Eulilli Valeria. (2011). Reply to comment on "A stratigraphic and geophysical approach to studying the deep-circulating groundwater and thermal springs, and their recharge areas, in Cimini Mountains–Viterbo area, central Italy". *Hydrogeology Journal*, vol. 19 (4), p. 949-952. DOI: 10.1007/s10040- 011-0720-7.
29. Rozzi R., Palombo M.R, Barbieri M. (2011). The argali (*Ovis ammon antiqua*) from the Ponte Galeria area (Rome). *IL QUATERNARIO*, vol. 24 (1), p. 115-121, ISSN: 0394-3356
30. G. Bianchi-Fasani, C. Esposito, M. Petitta, G. Scarascia-Mugnozza, M. Barbieri, E. Cardarelli, M. Cercato, G. Di Filippo (2011). The Importance of Geological Models in Understanding and Predicting the Life Span of Rockslide Dams: The Case of Scanno Lake, Central Italy. In: *Natural and Artificial Rockslide Dams*. vol. 133, p. 323-346, Springer, ISBN: 9783642047633
31. M. Barbieri, G. Sappa, S. Vitale (2011). New methodologies for the definition of some heavy metals origin in sediments: a case history coming from an application in pontina plain . In: *Geitalia 2011*. EPITOME, vol. 4, p. 88-89, ISSN: 1972-1552, Torino, 19-23 settembre 2011
32. Palombo M.R, Mussi M, Agostini S, Barbieri M, Di Canzio E, Di Rita F, Fiore I, Iacumin P, D. Magri, Speranza F, Tagliacozzo A (2010). Human peopling of Italian intramontane basins: The early Middle Pleistocene site of Pagliare di Sassa (L'Aquila, central Italy).. *QUATERNARY INTERNATIONAL*, vol. 223-224, p. 170-178, ISSN: 1040-6182, doi: 10.1016/j.quaint.2009.10.038
33. Sobhi Skaik S, Abu-Shaban N, Abu-Shaban N, M. Barbieri, Barbieri Mr, Giani U, Manduca P (2010). Metals detected by ICP/MS in wound tissue of war injuries without fragments in Gaza.. *BMC INTERNATIONAL HEALTH AND HUMAN RIGHTS*, vol. 10:17, p. 1-24, ISSN: 1472-698X, doi: 10.1186/1472-698X-10-17
34. Chiocchini U, Castaldi F, M. Barbieri, Eulilli V. (2010). A stratigraphic and geophysical approach to studying the deepcirculating groundwater and thermal springs, and their recharge areas, in Cimini Mountains–Viterbo area, central Italy.A stratigraphic and geophysical approach to studying the deepcirculating groundwater and thermal springs, and their recharge areas, in Cimini Mountains–Viterbo area, central Italy.. *HYDROGEOLOGY JOURNAL*, vol. 18, p. 1319-1341, ISSN: 1431-2174, doi: 10.1007/s10040-010-0601-5
35. Manzi G, Magri D, S. Milli, Palombo M.R, Celiberti V, Margari V, Barbieri M, Barbieri M, Melis R.T, Rubini M, Ruffo M, Saracino B, Tzedakis P.C, Zarattini A, Biddittu I (2010). The new chronology of the Ceprano calvarium (Italy). *JOURNAL OF HUMAN EVOLUTION*, vol. 59, p. 580-585, ISSN: 0047-2484, doi: 10.1016/j.jhevol.2010.06.010

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38. M. Petitta, Aravena R, Fracchiolla D, Barbieri M (2009). Application of isotopic and geochemical tools for the evaluation of nitrogen cycling in an agricultural basin, the Fucino Plain, Central Italy. *JOURNAL OF HYDROLOGY*, vol. 372, p. 124-135, ISSN: 0022- 1694, doi: 10.1016/j.jhydrol.2009.04.009
39. Biddittu I., M.R. Palombo, Magri D., Milli S., Barbieri Mr., Barbieri Mz., Celiberti V., Margari V., Melis R.T., Ruffo M., Saracino B., Manzi G. (2009). The Ceprano basin and its prehistoric evidence. In: *GEOITALIA 2009*. Rimini, Settembre 2009
40. M. Barbieri, Kuznetsova T.V, Nikolaev V.I, Palombo M.R. (2008). Strontium Isotopic composition in Late Pleistocene Mammal Bones from the Yakutian region (North-Eastern Siberia). *QUATERNARY INTERNATIONAL*, vol. 179, p. 72-78, ISSN: 1040-6182, doi: 10.1016/j.quaint.2007.08.014
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54. Palombo M.R., Filippi M.L, Iacumin P, Longinelli A, Barbieri M, Maras A. (2005). Coupling tooth microwear and stable isotope analyses for palaeodiet reconstruction: the case study of Late Middle Pleistocene Elephas (Palaeoloxodon) antiquus teeth from Central Italy (Rome area).. *QUATERNARY*

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