

MARCHETTINI NADIA

CURRICULUM VITAE

PERSONAL INFORMATION

Family name, First name: Marchettini, Nadia

Nationality:

Date and place of birth:

Researcher unique identifier: ORCID ID: 0000-0002-2631-9306

Web site: <http://www.ecodynamics.unisi.it/?lang=en>

E-mail: nadia.marchettini@unisi.it

EDUCATION

- 1989: **Ph.D.** in Chemistry, University of Siena, IT. Tutor: Prof. Tiezzi E.
- 1983: **MS in Biological Science**, University of Siena, IT. Tutor: Prof. Valensin G.

CURRENT POSITION

- since 2003: **Full professor** of Environmental and Cultural Heritage Chemistry, Department of Earth, Environmental and Physical Sciences - DEEP Sciences, University of Siena, IT.
- since 2010: **Director** of the interdisciplinary Ecodynamics Group, University of Siena, IT.
- since 2015: **Director** of the Department of Earth, Environmental and Physical Sciences - DEEP Sciences, University of Siena, IT.

PREVIOUS POSITION

- 2000-2003: **Full professor** of Physical Chemistry, University of Siena, IT.
- 1993-2000: **Associate professor** of Physical Chemistry, University of Siena, IT.
- 1992-1993: **Associate professor** of Physical Chemistry, University of Sassari, IT.
- 1991-1992: **Research fellow** at the Department of Chemistry, University of Siena, IT.
- 1989-1990: **Technical fellow** at the Department of Chemistry, University of Siena, IT.

COMMITTEE

- 2018: **Member** of the **Committee** for the selection of Full professor, SSC 03/A1, SSD CHIM/12, University of Torino, IT.
- 2018: **Member** of the **Committee** for the selection of Researcher fellow, SSC 03/A1, SSD CHIM/02, University of Venice Ca' Foscari, IT.
- 2017-2018: **Member** of the **Committee** for the selection of Associate professor, Sector 03/A2, CHIM/12, University of Siena, IT.
- 2017: **Member** of the **Committee** for the selection of Researcher fellow (RTDb), SSC 03/A2, SSD CHIM/02, Scuola Normale Superiore, Pisa IT.
- 2015: **Member** of the **Committee** for the selection of Researcher fellow (RTDa), SSC 03/A2, SSD CHIM/02 and SSD CHIM/12, University of Florence, IT.
- 2014: **Member** of the **Committee** for the selection of Associate professor, Sector 03/A2, SSD CHIM02 and SSD CHIM/12, University of Florence, IT.
- 2011: **Member** of the **Committee** for the selection of Researcher fellow (RTDa), SSC 03/A2, SSD CHIM/02, University of Pavia, IT.
- 2011: **Member** of the **Committee** for the selection of Researcher fellow, SSD CHIM/12, University of Salerno, IT.

- 2010: **Member** of the **Committee** for the selection of Associate professor, SSD CHIM/12, University of Salerno, IT.
- 2007: **Member** of the **Committee** for the selection of Researcher fellow, SSD CHIM/12, University of Naples Parthenope, IT.
- 1995: **Member** of the **Committee** for the selection of Researcher fellow, SSD CHIM/02, University of Milan, IT.
- 2018: **Member** of the **Committee** for Ph.D. defense in Environmental Science (XXX cycle), University of Venice, IT.
- 2017: **Member** of the **Committee** for Ph.D. defense in Environmental Science (XXIX cycle), University of Venice, IT.
- 2015: **Member** of the **Committee** for Ph.D. defense in Chemical Sciences (XXV cycle), University of Palermo, IT.
- 2014: **Member** of the **Committee** for Ph.D. defense in Sciences for Conservation and Restoration (XXVI cycle), University of Florence, IT.
- 2013: **Member** of the **Committee** for Ph.D. defense in Environmental Science (XXVI cycle), University of Venice, IT.

INSTITUTIONAL RESPONSABILITIES

- since 2016: **Member** of the Scientific Committee "Ente Parco Regionale Migliarino San Rossore Massaciuccoli", Pisa, IT.
- since 2016: **Member** of the Senate - Area 1. Experimental Sciences, University of Siena (Italy).
- 2014: **Member** of the Evaluation Committee of the **Department of Environmental Sciences, Informatics and Statistics**, University, University of Venice Ca' Foscari, IT.
- 2013-2015, **Representative Quality Research** for the Department of Earth, Environmental and Physical Sciences, University of Siena, IT.
- since 2013: **Member** of **Board** of **Doctoral School** in Environmental, Geological and Polar Sciences and Technologies, University of Siena, IT.
- 2012: **Member** of **Board** for the **Pegaso Ph.D. Program** Science for Conservation of Cultural Heritage", University of Florence, Pisa, Siena, IT.
- 2000-2011: **Member** of **Board** of **Doctoral School** in Chemical Sciences, University of Siena, IT.
- 2005-2011: **Member** of the **M.Sc. Degree Committee**, in Chemistry for Sustainable Development (62/S), University of Siena, IT.
- 1993-1999: **Member** of **Board** of **Doctoral School** in Chemical Sciences, Consortium of Universities of Siena, Milano and Sassari, IT.
- 1998-1999: **Director** of **Ph.D. Summer Schools** in Environmental Physical Chemistry, Arbus (Ca), IT.

CURRENT TEACHING ACTIVITIES

Professor for **B.Sc.**, **M.Sc.** and **Ph.D.** courses at the University of Siena, IT: "Environmental Chemistry", "Environmental Physical Chemistry".

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- Since 1992: **Member** of the Italian Chemical Society, IT.
- Since 2004: **Member** of the Global Footprint Network, US.

COMMISSION OF TRUST

- Since 2018: **Member** of the Scientific Committee of the Environmental Chemical Division of the SCI (Italian Society of Chemistry), IT.

- 2009-2012: **Vice President** of the Environmental Chemistry and Cultural Heritage Division of Italian Chemical Society, IT.
- 2000-2009: **Member** of the Scientific Committee of the Environmental Chemical Division of the SCI (Italian Society of Chemistry), IT.

RESEARCH FIELDS

She works in the following fields:

- Non-linear dynamics applied to physical, biological and environmental sciences;
- NMR spectroscopy applied to biological and ecological systems;
- Ecological physical chemistry;
- Environmental modeling and assessment through sustainability indicators and methodologies (Energy evaluation, Ecological Footprint, Greenhouse Gases Balance, Life Cycle Assessment, Exergy analysis, etc.);
- Energy and bio-energy systems;
- Environmental and cultural heritage study and conservation.

RESEARCH PROJECTS

She has been the leader of national and international research projects. She has been involved in many national and international projects of sustainability evaluation at different levels: production processes (energy, agricultural, industrial) and territorial (national and regional) systems. Among them she has been the promoter and co-director of SPIn-Eco project, a 5-year project (2000-2005), involving 50 researcher from Italian and international universities and research centers.

EDITORIAL WORK

- 2018: **Guest Editor** of the Special Issue "Ecological Footprint Assessment for Resources Management", *Resources*, 7(3), MDPI. ISSN: 2079-9276.
- Since 2008: **Member** of the **Editorial Board** of *Journal of Design & Nature and Ecodynamics*, WIT Press, UK.
- 2006-2007: **Member** of the **Editorial Board** of *Journal of Ecodynamics*, WIT Press, UK.
- 2004: **Co-Editor** (with C.A. Brebbia, E. Tiezzi e L.C. Wadhwa) of volume *The Sustainable City III*, WIT Press, UK.
- Since 2003: **Associate Editors**, *Advances in Ecological Sciences*, WITpress, UK.
- Since 2003: **Reviewer** for several international journals including: *J. of Environmental Management*, *J. of Thermal Analysis and Calorimetry*; *J. of Solution Chemistry*; *Ecological Modelling*, *Environmental Science & Technology*.
- 2001-2004: **Member** of the **Editorial Board** of *Annali di Chimica*, *Journal of Analytical, Environmental and Cultural Heritage Chemistry*.
- 1999: **Co-Editor** with C. Rossi, A. Donati and S. Bastianoni, "Tempos in Science and Nature: Structures, Relations and Complexity", *Annals New York Academy of Sciences* (volume 879; ISBN 1-57331-197-9).

MEMBER INTERNATIONAL SCIENTIFIC ADVISORY COMMITTEE

- "10th International Conference on Sustainable Development and Planning", 4 - 6 September 2018, Siena, IT.
- "11th International Conference on Ecosystems and Sustainable Development", 26-28 april 2017, Cadiz, ES.
- "11th International Conference on Urban Regeneration and Sustainability: The Sustainable City 2016", 12-14 July 2016, Alicante, ES.

- "10th International Conference on Urban Regeneration and Sustainability: The Sustainable City 2015", 1-3 September 2015, Medellin, Colombia.
- "9th International Conference on Urban Regeneration and Sustainability: Sustainable City 2014", 23-25 September, Siena, IT.
- "8th International Conference on Urban Regeneration and Sustainability: The Sustainable City 2013", 3-5 December 2013, Putrajaya, Malaysia.
- "International Conference on Urban Regeneration and Sustainability: The Sustainable City VI", 14-16 April 2010, La Coruña (Spain).
- "5th International Conference on Urban Regeneration and Sustainability: The Sustainable City 2008", 24-26 September 2008, Skiathos, Greece. "6th International Conference on Ecosystems and Sustainable Development (ECOSUD 2007)", 5-7 September 2007, Coimbra, P.
- "The Sustainable City IV, Urban Regeneration and Sustainability", 17-19 July, 2006, Tallin, Estonia).
- "Ecosystems and Sustainable Development V", 3-5 May, 2005, Cadiz, ES.
- "Ecosystems and Sustainable Development IV", 4-6 June, 2003, Siena, IT.

PUBLICATION SUMMARY

Author of around 170 peer reviewed papers in international journals, 3 entries in Encyclopedia, and 3 monographic books.