

## Roberto Bargagli

### BOOKS

- BARGAGLI R. (1998) - *TRACE ELEMENTS IN TERRESTRIAL PLANTS. AN ECOPHYSIOLOGICAL APPROACH TO BIOMONITORING AND BIORECOVERY*. Springer-Verlag, Berlino, 324 pp.
- BARGAGLI R. (2005) - *ANTARCTIC ECOSYSTEMS: ENVIRONMENTAL CONTAMINATION, CLIMATE CHANGE, AND HUMAN IMPACT*. Ecological Studies, vol. **175**, Springer-Verlag, Heidelberg, 395 pp.
- BARGAGLI R. (2012) – *ECOLOGIA APPLICATA- PER UN USO CONSAPEVOLE DELL'ARIA, DELL'ACQUA E DEL SUOLO*. Amon ed., Padova, 248 pp.

### INTERNATIONAL JOURNALS AND SOME BOOK CHAPTERS

- BALDI F., BARGAGLI R., RENZONI A. (1979) - The distribution of mercury in the surficial sediments of the northern Tyrrhenian Sea. *Mar. Pollut. Bull.*, **10**, 301-303.
- BALDI F., BARGAGLI R. (1982) - Chemical leaching and specific surface area measurements of marine sediments in the evaluation of mercury contamination near cinnabar deposits. *Mar. Environ. Res.*, **6**, 69-82.
- FRESI E., GAMBI M.C., FOCARDI S., BARGAGLI R., BALDI F., FALCIAI L. (1983) - Benthic community and sediment types: a structural analysis. *Mar. Ecol.*, **4**(2), 101-121.
- BALDI F., BARGAGLI R., FOCARDI S., FOSSI C. (1983) - Mercury and chlorinated hydrocarbons in sediments from the Bay of Naples and adjacent marine areas. *Mar. Pollut. Bull.*, **14**(3), 108-111.
- BALDI F., BARGAGLI R. (1984) - Mercury pollution in marine sediments near a chlor-alkali plant: distribution and availability of the metal. *Sci. Total Environ.*, **39**, 15-26.
- BARGAGLI R., LOVARI S. (1984) - Age correlation between horn segments and tooth cementum annuli in the chamois (*Rupicapra rupicapra ornata*) (Artiodactyla, Bovidae). *Säugetierkundliche Mitteilungen*, **31**, 179-183.
- BARGAGLI R., BALDI F. (1984) - Mercury and methylmercury in higher fungi and their relation with the substrata in a cinnabar mining area. *Chemosphere*, **13**(9), 1059-1071.
- BARGAGLI R., BALDI F., LEONZIO C. (1985) - Trace metal assessment in sediment, molluscs and reed leaves in the Bay of Follonica (Italy). *Mar. Environ. Res.*, **16**, 281-300.
- FERRARA R., MASERTI B.E., PETROSINO A., BARGAGLI R. (1986) – Mercury levels in rain, air, and subsequent washout mechanism in a central Italian region. *Atmos. Environ.*, **20** (1), 125-128.
- BARGAGLI R., BARGHIGIANI C., MASERTI B.E. (1986) - Mercury in vegetation of the Mount Amiata area (Italy). *Chemosphere*, **15**(8), 1035-1042.
- BARGHIGIANI C., PELLEGRINI D., GIOFFRE' D., TORTI M., BARGAGLI R. (1986) - Preliminary results on the mercury content in *Citharus linguatula* (L.) in the northern Tyrrhenian Sea. *Mar. Pollut. Bull.*, **17**(9), 424-427.
- BARGAGLI R., D'AMATO M.L. (1987) - Trace metal contamination in marine and riverine sediments around San Rossore Park (Italy). *CENTRO (Int. J. Environ. Studies in the Mediterranean)*, **1**(3), 15-23.
- BARGAGLI R., D'AMATO M.L., IOSCO F.P. (1987) - Lichen biomonitoring of metals in the San Rossore Park: contrast with previous pine needle data. *Environ. Monit. Assess.*, **9**, 285-294.

- BARGAGLI R., IOSCO F.P., D'AMATO M.L. (1987) - Zonation of trace metal accumulation in three species of epiphytic lichens belonging to the genus *Parmelia*. *Cryptogamie, Briol. Lichénol.*, **8**(4), 331-337.
- BARGAGLI R., IOSCO F.P., BARGHIGIANI C. (1987) - Assessment of mercury dispersal in a abandoned mining area by soil and lichen analysis. *Water, Air, Soil Pollut.*, **36**, 219-225.
- BARGAGLI R., FERRARA R., MASERTI B.E. (1988) - Assessment of mercury distribution and partitioning in recent sediments of the western Mediterranean basin. *Sci. Total Environ.*, **72**, 123-130.
- FERRARA R., MASERTI B.E., BARGAGLI R. (1988) - Mercury in the atmosphere and in lichens in a region affected by geochemical anomaly. *Environ. Technol. Lett.*, **9**, 689-694.
- BARGHIGIANI C., BARGAGLI R., GIOFFRE' D. (1988) - Mercury content in the environment of the Mt. Etna volcanic area. *Environ. Technol. Lett.*, **9**, 239-244.
- BARGHIGIANI C., BARGAGLI R., SIEGEL B.Z., SIEGEL S.M. (1988) - Source and selectivity in the accumulation of mercury and other metals by the plants of Mt. Etna. *Water, Air, Soil Pollut.*, **39**, 395-408.
- BARGAGLI R. (1989) - Determination of metal deposition patterns by epiphytic lichens. *Toxicol. Environm. Chem.*, **18**, 249-256.
- BARGHIGIANI C., SIEGEL B.Z., BARGAGLI R. e SIEGEL S.M. (1989) - The contribution of mercury from thermal springs to the environmental contamination of Mt. Amiata. *Water, Air, Soil Pollut.*, **43**, 169-175.
- BARGAGLI R., GASPARO D., LAZZARIN A., LAZZARIN G., OLIVIERI S., TRETACH M. (1989) - Lichens as indicators and monitors of atmospheric pollutants in NE Italy: preliminary data on the integrated testing system. *Botanika Chronika*, **10**, 977-982.
- BARGAGLI R., BARGHIGIANI C., SIEGEL B.Z., SIEGEL S.M. (1989) - Accumulation of mercury and other metals by the lichen *Parmelia*, at a minesite and a volcanic area. *Water, Air, Soil Pollut.*, **45**, 315-327.
- BARGAGLI R. (1990) - Mercury emission in a abandoned mining area: assessment by epiphytic lichens. In: Cheremisinoff P.N. (Ed.), *ENCYCLOPEDIA OF ENVIRONMENTAL CONTROL TECHNOLOGY*. Vol. IV°: "Hazardous Wastes Containment". Cap. 22, Gulf Publ. Co., Houston, Texas, 613-640.
- BARGHIGIANI C., BARGAGLI R., SIEGEL B.Z., SIEGEL S.M. (1990) - A comparative study of mercury emission and distribution in the aeolian volcanoes, Vulcano and Stromboli. *Water, Air, Soil Pollut.*, **53**, 179-188.
- LINSKENS H.F., BARGAGLI R., FOCARDI S., CRESTI M. (1991) - Antarctic moss turf as pollen traps. *Proc. Kon. Ned. Akad. v. Wetensch.*, **94**, 233-241.
- BARGAGLI R., BARGHIGIANI C. (1991) - Lichen biomonitoring of mercury emission and deposition in mining, geothermal and volcanic areas of Italy. *Environ. Monit. Assess.*, **16**, 265-275.
- BARGAGLI R., BARGHIGIANI C., SIEGEL B.Z., SIEGEL S.M. (1991) - Trace metal anomalies in surface soil and vegetation on two active island volcanoes: Stromboli and Vulcano (Italy). *Sci. Total Environ.*, **102**, 209-222.
- EDNER H., RAGNARSON P., SVANBERG S., WALLINDER E., FERRARA R., MASERTI B.E., BARGAGLI R. (1993) - Atmospheric mercury mapping in a cinnabar mining area. *Sci. Total Environ.*, **133**, 1-15.
- BARGAGLI R., BATTISTI E., FOCARDI S., FORMICHI P. (1993) - Preliminary data on environmental distribution of mercury in northern Victoria Land, Antarctica. *Antarct. Sci.*, **5**, 3-8.
- BARGAGLI R. (1993) - Plant leaves and lichens as biomonitors of natural or anthropogenic emission of mercury. In: *PLANTS AS BIOMONITORS - INDICATORS FOR HEAVY METALS IN THE TERRESTRIAL ENVIRONMENT*, Markert B. (ed.), VCH-Publ. Inc., Weinheim, Cap.12, 461-481.

- LINSKENS H.F., BARGAGLI R., CRESTI M. e FOCARDI S. (1993) - Entrapment of long-distance transported pollen grains by various moss species in coastal Victoria Land, Antarctica. *Polar Biol.*, **13**, 81-87.
- FOCARDI S., BARGAGLI R., CORSOLINI S. (1993) - Organochlorines in Antarctic marine food chain at Terra Nova Bay (Ross Sea). *Kor. J. Polar Res.*, **4**, 73-77.
- BACCI E., GAGGI C., DUCCINI M., BARGAGLI R., RENZONI A. (1994) - Mapping mercury vapours in a abandoned cinnabar mining area by azalea (*Azalea indica*) leaf trapping. *Chemosphere*, **29**(4), 641-656.
- BROWN D.H., AVALOS A., MILLER J.E., BARGAGLI R. (1994) - Interactions of lichens with their mineral environment. *Crypt. Bot.* **4**, 135-142.
- BARGAGLI R., BROWN D.H., NELLI L. (1995) - Metal biomonitoring with mosses: procedures for correcting for soil contamination. *Environ. Pollut.*, **89**, 169-175.
- FOCARDI S., BARGAGLI R., CORSOLINI S. (1995) - Isomer-specific analyses and toxic potential evaluation of polychlorinated biphenyls in Antarctic fish, seabirds and Weddel seal from Terra Nova Bay (Ross Sea). *Antarct. Sci.*, **7**, 31-35.
- BARGAGLI R. (1995) - The elemental composition of vegetation and the possible incidence of soil contamination of samples. *Sci.Total Environ.*, **176**, 121-128.
- BARGAGLI R., NELLI L., ANCORA S., FOCARDI S. (1996) - Elevated cadmium accumulation in marine organisms from Terra Nova Bay (Antarctica). *Polar Biol.*, **16**, 513-520.
- LOPPI S., BARGAGLI R. (1996) - Lichen biomonitoring of trace elements in a geothermal area (central Italy). *Water, Air, and Soil Pollut.*, **88**, 177-187.
- BARGAGLI R., BROADY P.A., WALTON D.W.H. (1996) - Preliminary investigation of the thermal biosystem of Mt Rittmann fumaroles (northern Victoria Land, Antarctica). *Antarct. Sci.*, **8**, 121-126.
- LOPPI S., NELLI L., ANCORA S., BARGAGLI R. (1997) - Passive monitoring of trace elements with tree leaves, epiphytic lichens and bark substrate. *Environ. Monit. Assess.* **45**, 81-88.
- MONACI F., BARGAGLI R. (1997) - Barium and other trace metals as indicators of vehicle emissions. *Water, Air Soil Pollut.*, **100**, 89-98.
- LOPPI S., ANCORA S., NELLI L., BARGAGLI R. (1997) - Accumulation of trace elements in the peripheral and central parts of a foliose lichen thallus. *The Bryologist*, **100**, 251-253.
- BARGAGLI R., CATENI D., NELLI L., OLMASTRONI S., ZAGARESE B. (1997) - Environmental impact of trace element emission from geothermal power plants. *Arch.Environ.Contam.Toxicol.*, **33**, 172-181.
- FOCARDI S., FOSSI M.C., LARI L., CASINI S., BARGAGLI R. (1997) - Investigation of mixed function oxidase activity in Antarctic organisms. In: Battaglia B., Valencia J. and Walton D. W.H. (eds.) ANTARCTIC COMMUNITIES. SPECIES, STRUCTURE AND SURVIVAL. Cambridge University Press, 405-408.
- BARGAGLI R., NIMIS P.L., MONACI F. (1997) - Lichen biomonitoring of trace element deposition in urban, industrial and reference areas of Italy. *J Trace Elements Med. Biol.*, **11**, 173-175
- COURT G.S., DAVIS L.S., FOCARDI S., BARGAGLI R., FOSSI C., LEONZIO C., MARSILI L. (1997) - Chlorinated hydrocarbons in the tissues of South Polar Skuas (*Catharacta maccormicki*) and Adélie Penguins (*Pygoscelis adeliae*) from Ross Sea, Antarctica. *Environ. Pollut.*, **97**, 295-301.
- MONACI F., BARGAGLI R., GASPARO D. (1997) - Air pollution monitoring by lichens in a small medieval town of central Italy. *Acta Bot. Neerl.*, **46**, 403-412.
- BARGAGLI R. (1997) - Effects of abandoned mercury mines on terrestrial and aquatic ecosystems. In: *CONTAMINATED SOILS*, Prost R. (ed.). INRA, Paris, Le Colloques, **85**, 255-265.

- BARGAGLI R., SANCHEZ-HERNANDEZ J.C., MARTELLA L., MONACI F. (1998) - Mercury, cadmium, and lead accumulation in Antarctic mosses growing along nutrient and moisture gradients. *Polar Biol* **19**, 316-322.
- BARGAGLI R., MONACI F., SANCHEZ-HERNADEZ J.C., CATENI D. (1998) - Biomagnification of mercury in an Antarctic marine coastal food web. *Mar. Ecol. Prog. Ser.*, **169**, 65-76.
- BARGAGLI R., CORSOLINI S., FOSSI M.C., SANCHEZ-HERNANDEZ J.C., FOCARDI S. (1998) - Antarctic fish *Trematomus bernacchii* as biomonitor of environmental contaminants at Terra Nova Bay Station (Ross Sea). *Mem. Natl. Inst. Polar Res. Tokyo* **52**, 220-229.
- BARGAGLI R., SANCHEZ-HERNANDEZ J.C., MONACI F. (1998) - Baseline concentrations of elements in the Antarctic macrolichen *Umbilicaria decussata*. *Chemosphere* **38**, 475-487.
- BARGAGLI R., LEWIS SMITH R.I., MARTELLA L., MONACI F., SANCHEZ-HERNANDEZ J.C., UGOLINI F.C. (1999) - Solution geochemistry and behaviour of major and trace elements during summer in a moss community at Edmonson Point, Victoria Land, Antarctica. *Antarct. Sci.*, **11**, 3-12.
- BARGAGLI R. (1999) - Mercury in the environment. In: ENCYCLOPEDIA of ENVIRONMENTAL SCIENCES, Alexander D.E. and Fairbridge R.W. (eds.). Kluwer Acad.Publ. Dordrecht, pp. 402-405.
- BARGAGLI R. (1999) - Heavy metal pollutants. In: ENCYCLOPEDIA of ENVIRONMENTAL SCIENCES, Alexander D.E. and Fairbridge R.W. (eds.). Kluwer Acad. Publ. Dordrecht, pp. 314-316.
- LOPPI S., GIOMARELLI B., BARGAGLI R. (1999) - Lichens and mosses as biomonitors of trace elements in a geothermal area (Mt. Amiata, central Italy). *Cryptogamie, Mycol.*, **20**, 119-126.
- MONACI F., MONI F., LANCIOTTI E., GRECHI D., BARGAGLI R. (2000) - Biomonitoring of airborne metals in urban environments: new tracers of vehicle emission, in place of lead. *Environ. Pollut.*, **107**, 321-327.
- BARGAGLI R., BORGHINI F., CELESTI C. (2000) – Elemental composition of the lichen *Umbilicaria decussata* in Victoria Land, Antarctica. *Ital. J. Zool.*, **67**, 157-162.
- BARGAGLI R. (2000) – Trace metals in Antarctica related to climate change and increasing human impact. *Rev. Environ. Contam. Toxicol.*, **166**: 125-169.
- BARGAGLI R., SANCHEZ-HERNANDEZ J.C., MONACI F., FOCARDI S. (2000) - Environmental factors promoting bioaccumulation of Hg and Cd in Antarctic marine and terrestrial organisms. In: Davison W., Howard-Willimas C. e Broady P. (eds.) “*Antarctic Ecosystems: Models for Wider Ecological Understanding*”. New Zealand Natural Sciences, The Caxton Press, Christchurch, pp. 308-314.
- BARGAGLI R. (2001) – Trace metals in Antarctic organisms and the development of circumpolar biomonitoring networks. *Rev. Environ. Contam. Toxicol.* **171**: 53-110.
- BARGAGLI R., BORGHINI F., MONACI F. (2001). Environmental biogeochemistry of major and trace elements in terrestrial ecosystems of Victoria Land (continental Antarctica). In: Weber J., Jamroz E., Drozd J., Karczewska A. (eds.) *Biogeochemical Processes and Cycling of Elements in the Environment*. Polish Soc. Humic Subst., Wroclaw, pp. 229-230.
- BARGAGLI R., MONACI F., BORGHINI F., BRAVI F., AGNORELLI C. (2001) – Mosses and lichens as biomonitors of trace metals. A comparison study on *Hypnum cupressiforme* and *Parmelia caperata* in a former mining district. *Environ. Pollut.* **116**: 279-287.
- BARGAGLI R., MIKHAILOVA I. (2002) – Accumulation of inorganic contaminants. In: Nimis PL, Scheidegger C., Wolseley P.A. (eds.) *Monitoring with Lichens – Monitoring Lichens*. Kluwer Academic Publ., Amsterdam, pp. 65-84.

- BARGAGLI R., NIMIS P.L. (2002) – Guidelines for the use of epiphytic lichens as biomonitors of atmospheric deposition of trace metals. In: Nimis PL, Scheidegger C., Wolseley P.A. (eds.) *Monitoring with Lichens – Monitoring Lichens*. Kluwer Acad. Publ., Amsterdam, pp.295-299.
- SKOTNICKI M.L., BARGAGLI R., NINHAM J.A. (2002) – Genetic diversity in the moss *Pohlia nutans* on geothermal ground of Mt. Rittmann, Victoria Land, Antarctica. *Polar Biol.* **25**: 771-777.
- BARGAGLI R., BORGHINI F., MONACI F. (2003) – The sea as major source of ions to lichens in terrestrial ecosystems of Victoria Land. In: Huiskes A.H.L., Gieskes W.W.C., Rozema J., Schorno R.M.L., van der Vies S.M. (eds.) *Antarctic Biology in a Global Context*. Backhuys Publ., Leiden, pp. 157-160.
- BARGAGLI R., MONACI F., AGNORELLI C. (2003) – Oak leaves as accumulators of airborne elements in an area with geochemical and geothermal anomalies. *Environ. Pollut.* **124**:321-329
- MONACI F., BARGAGLI R., FOCARDI S. (2003) - Element concentrations in Chianti Classico appellation wines. *J Trace Elem. Med. Biol.* **17**:45-50
- BORGHINI F., BARGAGLI R. (2004) – Changes of major ion concentrations in melting snow and terrestrial waters from northern Victoria Land, Antarctica. *Antarct. Sci.* **16**:107-115
- BARGAGLI R., SKOTNICKI M.L., MARRI L., PEPI M., MACKENZIE A., AGNORELLI C. (2004) - New record of moss and thermophilic bacteria species and physico-chemical properties of geothermal soils on the northwest slope of Mt. Melbourne (Antarctica). *Polar Biol.* **27**:423-431.
- BORGHINI F., GRIMALT J.O., SANCHEZ-HERNANDEZ J.C., BARGAGLI R. (2005) – Organochlorine pollutants in soils and mosses from Victoria Land (Antarctica). *Chemosphere* **58**: 271-278.
- BARGAGLI R., AGNORELLI C., BORGHINI F., MONACI F. (2005) - Enhanced deposition and bioaccumulation of mercury in Antarctic terrestrial ecosystems facing a coastal polynya. *Environ. Sci. Technol.* **39**: 8150-8155.
- PEPI M., AGNORELLI C., BARGAGLI R. (2005) - Iron demand by thermophilic and mesophilic bacteria isolated from an Antarctic geothermal soil. *BioMetals* **18**:529-536.
- BARRETT J.E., VIRGINIA R.A., HOPKINS D.W., AISLABIE J., BARGAGLI R., BOCKHEIM J.G., CAMPBELL I.B., LYONS W.B., MOORHEAD D.L., NKEM J.N., SLETTEN R. S., STELTZER H., WALL D.H., WALLENSTEIN M.D. (2006) - Terrestrial ecosystem processes of Victoria Land, Antarctica. *Soil Biol. & Biochem.* **38**:3019-3034.
- ADAMS B.J., BARDGETT R.D., AYRES E., WALL D.H., AISLABIE J., BAMFORTH S., BARGAGLI R., CRAIG C., CAVACINI P., CONNELL L., CONVEY P., FELL J.W., FRATI F., HOGG I.D., NEWSHAM K.K., O'DONNELL A., RUSSELL N., SEPPELT R.D., STEVENS M.I. (2006) - Diversity and distribution of Victoria Land biota. *Soil Biol. & Biochem.* **38**:3003-3018.
- BARGAGLI R., MONACI F., BUCCI C. (2007) - Environmental biogeochemistry of mercury in Antarctic ecosystems. *Soil Biol & Biochem.*, **39**:352-360.
- TRETIACH M., ADAMO P., BARGAGLI R., BARUFFO L., CARLETTI L., CRISAFULLI P., GIORDANO S., MODENESI P., ORLANDO S., PITTAO E. (2007) - Lichen and moss bags as monitoring devices in urban areas. Part I: influence of exposure on sample vitality. *Environ Pollut.*, **146**: 380-391.
- ADAMO P., CRISAFULLI P., GIORDANO S., MINGANTI V., MODENESI P., MONACI F., PITTAO E., TRETIACH M., BARGAGLI R. (2007) - Lichen and moss bags as monitoring devices in urban areas. Part II: Trace elements content in living and dead biomonitors and comparison with synthetic materials. *Environ Pollut.*, **146**: 392-399.
- BARGAGLI R. (2007) Ecotoxicology. In: Riffenburgh B. (ed.) *Encyclopedia of the Antarctic*. Routledge, Taylor & Francis Group, Vol. I, pp. 372-374.

- CARUSO T, BARGAGLI R. (2007) – Assessing abundance and diversity patterns of soil microarthropod assemblages in northern Victoria Land (Antarctica). *Polar Biol.*, **30**: 895-902.
- CARUSO T., PIGINO G., BERNINI F., BARGAGLI R., MIGLIORINI M. (2007) – The Berger-Parker index as an effective tool for monitoring the biodiversity of disturbed soils: a case study on Mediterranean oribatid (Acari: Oribatida) assemblages. *Biodiver. Conserv.*, **16**:3277-3285.
- BORGHINI F., COLACEVICH A., BARGAGLI R. (2007) – Water geochemistry and sedimentary pigments in Antarctic lakes. *Polar Biol.*, **30**:1173-1182.
- CARUSO T., BORGHINI F., BUCCI C., COLACEVICH A., BARGAGLI R. (2007) - Modelling local-scale determinants and the probability of microarthropod species occurrence in Antarctic soils. *Soil Biol. & Biochem.* **39**:2949-2956.
- IMPERIO T., BARGAGLI R., MARRI L. (2007) Detection of IncP replicon-specific regions in DNA from Antarctic microbiota. *Cent. Eur. J. Biol.* **2**: 378-384.
- ADAMO P., GIORDANO S., NAIMO D., BARGAGLI R. (2008) – Geochemical properties of airborne particulate matter (PM<sub>10</sub>) collected by automatic device and biomonitors in a Mediterranean urban environment. *Atmos. Environ.* **42**:346-357.
- ADAMO P., BARGAGLI R., GIORDANO S., MODENESI P., MONACI F., PITTAO E., SPAGNUOLO V., TRETACH M. (2008) – Natural and pre-treatments induced variability in the chemical composition and morphology of lichens and mosses selected for active monitoring of airborne elements. *Environ. Pollut.* **152**:11-19.
- BORGHINI F., COLACEVICH A., CARUSO T., BARGAGLI R. (2008) – Temporal variations in the water chemistry of northern Victoria Land lakes (Antarctica). *Aquat. Sci.* **70** :134-141.
- BARGAGLI R. (2008 - Environmental contamination in Antarctic ecosystems. *Sci. Total Environ.* **400**: 212-226.
- CARUSO T., HOGG I.D., CARAPELLI A., FRATI F., BARGAGLI R. (2009) - Large-scale spatial patterns in the distribution of Collembola (Hexapoda) species in Antarctic terrestrial ecosystems. *J. Biogeogr.* **36**:879-886.
- GIORDANO S., ADAMO P., MONACI F., PITTAO E., TRETACH M., BARGAGLI R. (2009) - Bags with oven dried moss for the active monitoring of airborne trace elements in urban areas. *Environ. Pollut.* **157**:2798-2805.
- ROSSINI OLIVA S., BARGAGLI R., MONACI F., VALDÉS B., MINGORANCE M.D., LEIDI E.O. (2009) – Stress responses of *Erica andevalensis* Cabezudo & Rivera plants induced by polluted water from Tinto River (SW Spain). *Ecotoxicology*, **18**:1058-1067.
- BARGAGLI R. (2009) – Marine and terrestrial pollution. In: Turner J., Bindschadler R., Convey P., Di Prisco G., Fahrbach E., Gutt J., Hodgson D., Mayewski P., Summerhayes C. (eds.) “ANTARCTIC CLIMATE CHANGE AND THE ENVIRONMENT”. A Contribution to the International Polar Year 2007-2008. Scientific Committee on Antarctic Research (SCAR), Scott Polar Research Institute, Cambridge; pp.280-286.
- COLACEVICH A., CARUSO T., BORGHINI F., BARGAGLI R. (2009) – Photosynthetic pigments in soils from northern Victoria Land (continental Antarctica) as proxies for soil algal community structure and function. *Soil Biol. Biochem.* **41**: 2105-2114.
- CARUSO T., MIGLIORINI M., BUCCI C., BARGAGLI R. (2009) – Spatial patterns and autocorrelation in the response of microarthropods to soil pollutants: the example of oribatid mites in an abandoned mining and smelting area. *Environ. Pollut.* **157**: 2939-2948.
- CARUSO T., GARLASCHELLI D., BARGAGLI R., CONVEY P. (2010) – Testing metabolic scaling theory using intraspecific allometries in Antarctic microarthropods. *Oikos*, **119**:935-945.

- BORGHINI F., COLACEVICH A., BARGAGLI R. (2010) – A study of autotrophic communities in two Victoria Land lakes (continental Antarctica) using photosynthetic pigments. *J. Limnol.* **69**:333-340.
- CARUSO T., HOGG I.D., BARGAGLI R. (2010) – Identifying appropriate sampling and modelling approaches for analysing distributional patterns of Antarctic terrestrial arthropods along the Victoria Land latitudinal gradient. *Antarct. Sci.* **22**:742-748.
- ROTA E., DE NICOLA F., BARGAGLI R. (2010) – *Perergodrilus heideri* Reisinger, 1925 (Anellida: Polychaeta) from a holm oak foerst wood in an extinct volcano of southern Italy. *Zootaxa* **2687**:65-68.
- MONACI F., LEIDI E., MINGORANCE M.D., VALDES B., ROSSINI OLIVA S., BARGAGLI R. (2011) – Selective uptake of major and trace elements in *Erica andevalensis*, an endemic species to extreme habitats in the Iberian Pyrite Belt. *J. Environ. Sci.* **23**: 444-452.
- BORGHINI F., COLACEVICH A., CARUSO T., BARGAGLI R. (2011) - An update on sedimentary pigments in Victoria Land Lakes (East Antarctica). *Arct. Antarct. Alp. Res.* **43**:22-34.
- ADAMO P., GIORDANO S., SFORZA A., BARGAGLI R. (2011) – Implementation of airborne trace element monitoring with devitalized transplants of *Hypnum cupressiforme* Dedw.: Assessment of temporal trends and element contribution by vehicular traffic in Naples city. *Environ. Pollut.* **159**: 1620-1628.
- MONACI F., FANTOZZI F., FIGUEROA R., PARRA O., BARGAGLI R. (2012) – Baseline element composition of foliose and fruticose lichens along the steep climatic gradient of SW Patagonia (Aisén Region, Chile). *J. Environ. Monit.* **14**:2309-2316.
- GIORDANO S., ADAMO P., SPAGNUOLO V., TRETACH M., BARGAGLI R. (2012) – Accumulation of airborne trace elements in mosses, lichens and synthetic materials exposed at urban monitoring stations: Towards a harmonisation of the moss-bag technique. *Chemosphere* **90**:292-299.
- CARUSO T., TROKHYMETS V., BARGAGLI R., CONVEY P. (2013) – Biotic interactions as a structuring force in soil communities: evidences from the micro-arthropods of an Antarctic moss model system. *Oecologia* **172**:495-503.
- FANTOZZI F., MONACI F., BLANUSA T., BARGAGLI R. (2013) – Holm oak (*Quercus ilex* L.) canopy as interceptor of airborne trace elements and their accumulation in the litter and topsoil. *Environ. Pollut.* **183**:89-95.
- DE NICOLA F., SPAGNUOLO V., BALDANTONI D., SESSA L., ALFANI A., BARGAGLI R., MONACI F., TERRACCIANO S., GIORDANO S. (2013) – Improving biomonitoring of airborne contaminants by combined use of holm oak leaves and epiphytic moss. *Chemosphere* **92**:1224-1230.
- BORGHINI F., COLACEVICVH A., LOISELLE S.A., BARGAGLI R. (2013) – Short-term dynamics of physico-chemical and biological features in a shallow, evaporative Antarctic lake. *Polar Biol.* **36**:1147-1160.
- ROTA E., CARUSO T., MONACI F., BALDANTONI D., DE NICOLA F., IOVIENO P., BARGAGLI R.(2013) - Effects of soil pollutants, biogeochemistry and microbiology on the distribution of enchytraeid communities in urban and suburban holm oak stands. *Environ. Pollut.***179**:268-276.