

**EUROPEAN
CURRICULUM
VITAE
FORMAT**



PERSONAL INFORMATION

Name **ANTONIO MARCOMINI**
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Nationality Italian
Place and date of birth ROME, 1956

WORK EXPERIENCE

- Dates (from – to) Since 2014
 - Name and address of employer University Ca' Foscari Venice
Department of Environmental Science, Informatics and Statistics
Via Torino 155, 30172 Venice
Phone +39-041-234-8548-8690
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- Type of business or sector Academy
 - Occupation or position held Director of the Department
- Dates (from – to) Since 2000
 - Name and address of employer University Ca' Foscari Venice
Dipartimento di Scienze Ambientali, Informatica e Statistica
Via Torino 155, 30172 Venice
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- Type of business or sector Academy
 - Occupation or position held Full Professor

Born in Rome (1956), Antonio Marcomini is professor of Environmental Chemistry at the University Ca' Foscari of Venice. Graduated from the University of Padua, he was post-doctoral fellow at the University of Toronto, Lash Miller Chemical Institute, Canada (1982-83), and then research associate at the Polytechnic of Zurich, ETH-EAWAG, Switzerland (1985-86). Coordinator/partner of several international and national research projects, he is author/coauthor of over 300 papers published in international peer reviewed journals, editor and coauthor of two books. According to SCOPUS and Google Scholar, the H-index over the 1986-2020 period is 58 and 67, respectively.

Consultant of international (e.g. European Science Foundation, European Environmental Agency, etc.) and national (e.g. Ministry of the Environment, Venice Water Authority, etc.), advisory/expert committees on chemical environmental quality, environmental risk assessment, definition and implementation of environmental quality standards.

Teaching activities: courses for undergraduate and graduate students in Chemistry: Pollution Chemistry, Environmental Impacts of Industrial Productions, Lab. of Environmental Chemistry. Courses for undergraduate and graduate students in Environmental Sciences: Environmental Impact Assessment, Assessment and Management of Environmental Risks. Courses for Ph.D. students in Science and Management of Climate Change: Climate Change and Environmental Contamination.

Research activities: coordinator, WP leader and principal Investigator of EU-international and national projects, leader/coordinator of research groups.

Main research projects over the last 10 years:

SUNSHINE – Safe and sUstainable by desigN Strategies for High performance multi-component NanomatErials (2020-2024 project ID: 952924) funded by the European Horizon 2020 programme

EMERGE – Evaluation, control and Mitigation of the EnviRonmental impacts of shippinG Emissions (2020-2024 project ID: 874990) funded by the European Horizon 2020 programme

RiskGONE – Risk Governance of Nanotechnology (2019-2023 project ID: 814425) funded by the European Horizon 2020 programme

APACHE – Active & intelligent PACKaging materials and display cases as a tool for preventive conservation of Cultural Heritage (2019-2022 project ID: 814496) funded by the European Horizon 2020 programme

BIORIMA – BIOmaterial Risk Management (2017-2021 project ID: 760928) funded by the European Horizon 2020 programme

caLIBRAte – Performance testing, calibration and implementation of a next generation system-of-systems Risk Governance Framework for nanomaterials (2016-2019, project ID 686239) funded by the European Horizon 2020 programme

NanoFASE – Nanomaterial FAtE and Speciation in the Environment (2015–2019, project ID 646002) funded by the European Horizon 2020 programme

NANORESTART – NANOmateriAls for the REStoration of works of ART (2015–2019, project ID 646063) funded by the European Horizon 2020 programme

SUN – Sustainable Nanotechnology, (2013–2017, contract number 604305) funded by the European 7th Framework Program and coordinated by Ca' Foscari University – Prof. Marcomini.

4FUN – Demonstration and exploitation of most promising prototypes and tool derived from European research activities (2012-2015, contract number 308440) funded by the European 7th Framework Programme

ECONANOSORB – Ecological application of nanosorbents on the base of natural and synthetic ionites and carbons (2012-2016, contract number 295260) funded by the European 7th Framework Program

ITS-NANO Intelligent Testing Strategies for nanomaterials impact and exposure - towards regulation and clustering of materials (2012-2013, contract number 290589)

TIMBRE – Tailored Improvement of Brownfield Regeneration in Europe, funded by the European 7th Framework Programme (2011-2014, contract no 265364)

CLIMRUN – Climate Local Information in the Mediterranean region: Responding to User Needs, funded by the European 7th Framework Programme (2011-2014, project ID 265192)

AMORE – Multi-Criteria Analysis for the Development of a Decision Support Tool for the Environmental Risks Prevention (2009-2012) funded by the French National Research Academy

KULTURISK – Knowledge-based approach to develop a cULTUre of Risk prevention, funded

by the European 7th Framework Program (2011-2014 contract No 265280)

EPSEI – Evaluating Policies for Sustainable Energy Investments: towards an integrated approach on national and international stage, funded by the European 7th FP PEOPLE, Marie Curie IRSES (2011-2015)

GLOCOM – Global Partners in Contaminated Land Management, funded by the European 7th FP PEOPLE, Marie Curie IRSES and coordinated by Ca' Foscari University (2011-2015, contract No. 269233)

NANOFORART –NANO-materials FOR the conservation and preservation of movable and immovable ARTworks (2011 – 2014) funded by the European 7th Framework Programme.

- Dates (from – to) From 1992 to 2000
- Name and address of employer Department of Environmental Sciences - University Ca' Foscari Venice
Calle Larga, S. Marta 2137 - 30123, Venice (Italy)
- Type of business or sector Academy
- Occupation or position held Associate professor of Applied Chemistry

- Dates (from – to) From 1985 to 1987
- Name and address of employer ETH-Polytechnic of Zurich, Institute for Water Science and Technology (EAWAG),
Duebendorf (Switzerland)
- Type of business or sector Research Institute
- Occupation or position held Research Associate

- Dates (from – to) 1984-1992
- Name and address of employer Ca' Foscari University of Venice (Italy)
- Type of business or sector Academy
- Occupation or position held Researcher, Assistant Professor

- Dates (from – to) 1982-1984
- Name and address of employer Lash Miller Chemical Institute, University of Toronto (Canada)
- Type of business or sector Research Institute
- Occupation or position held Post doctoral fellow

EDUCATION AND TRAINING

- Dates 1984
- Name and type of organisation providing education and training University of Padua (Italy)
- Title of qualification awarded Specialization Degree in Nuclear Chemistry

- Dates 1976-1981
- Name and type of organisation providing education and training University of Padua (Italy)
- Title of qualification awarded Degree in Chemistry

PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

More than 30 years of experience in environmental chemistry, especially pollution chemistry (determination and monitoring of priority and emerging pollutants, including nanomaterials, in waters/wastewaters, soil, air and biota), environmental impact assessment and management (development and implementation of environmental quality standards for chemicals; hazard and risk assessment of chemicals); transport and fate of chemicals under current and future (climate affected), conditions. In some more detail: Antonio Marcomini started his research activity as

inorganic-metallorganic chemist and then moved soon to environmental chemistry in the context of environmental sciences. His research activity focused on the analysis (i.e. structural identification and quantification) and environmental behaviour (i.e. occurrence, transformation, ultimate fate) of chemicals and particles (especially engineered nanomaterials, ENM) in environmental and biological media, and on qualitative and quantitative estimation of environmental risks and impacts resulting from the environmental occurrence of chemical and non-chemical stressors. Scientific achievements were obtained by developing original methods, novel methodologies and new applications. Both experimental and modelling approaches were used to explain and predict the environmental behaviour of key chemical stressors (e.g. endocrine disrupting compounds, EDC, aromatic surfactants, persistent organic pollutants, i.e. PCBs, PAHs, Dioxins) under past (from dated samples), actual (from contemporary samples), and future (from thermodynamic models) conditions. The developed knowledge allowed to support (eco)toxicologists to understand the mode of action of intriguing substances (e.g. EDC, ENM) on living organisms, and to link environmental occurrence of pollutants with human and non-human health endpoints. The overall obtained results, together with literature results, were used to develop environmental risk assessment of chemical pollutants and engineered nanoparticles. Both human health and ecological risk assessment were addressed, by applying conventional (deterministic) and non-conventional (probabilistic) methods for the risk estimation at different spatial scales (local to regional). Prioritization and ranking of chemical and non-chemical stressors according to hazard potential, and sources-pathways-targets distribution, were attained by regionalizing the environmental risk. Methodological innovation was introduced by using methods (e.g. weight of evidence) derived from multicriteria decision analysis (MCDA) to integrate different classes of data (chemical, biological, toxicological, hydromorphological data) to assess environmental quality of natural resources (e.g. natural waters, especially coastal waters). MCDA derived methods (i.e. fuzzy analysis) were also used to develop the environmental risk assessment of engineered nanoparticles by addressing uncertainty resulting from the tremendous knowledge gap between known exposure-effects data and increasing number of nanomaterials. Special attention was addressed to investigating the nutrients cycling and the eutrophication (i.e. primary and secondary productions) in the lagoon of Venice, and the effects of algal biomass growth and decay on the cycling of nitrogen and phosphorous compounds, and on the environmental quality resulting from chemical pollutants.

The overall developed methodologies and procedures used for environmental risk assessment were linked to the decision making triggered by regulations on natural waters and contaminated soils (e.g. water framework directive) and management strategies (e.g. rehabilitation of degraded land). Five risk-based Decision Support Systems (DSS) were developed for assessing and managing human and ecological risks resulting from contaminated sites, river basin pollution, and climate change impacts.

On the side of international cooperation, since the year 2004, Antonio Marcomini and its group developed a collaboration with the Chinese Academy of Environmental Sciences (CRAES). CRAES belongs to the Chinese Ministry of the Environmental Protection (MEP) and is committed by the Chinese government to do environmental research, to support the Chinese government in formulating and implementing environmental legislation and regulations, and to support peripheral governments (the counties) and environmental protection agencies in the environmental assessment and management. Two European Marie Curie IRSES projects (start: July 2011, duration: 4 years) were recently funded to support the transfer of European environmental best practices, training and exchange of people. Over the last three years, a collaboration program with Russia in the field of environmental research was also undertaken by coordinating the cooperation project E-URAL and Marie Curie IRSES Econanosorb project (2012).

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

Excellent
Excellent
Excellent

GERMAN

Good
Good
Sufficient

TECHNICAL SKILLS
AND COMPETENCES
*With computers, specific kinds of
equipment, machinery, etc.*

Expert use of advanced analytical techniques such as High Performance Liquid Chromatography (HPLC) coupled with UV, fluorescence detectors, and Mass Spectrometry (Quadrupole, Ion Trap, High Resolution Time of Flight), Gas Chromatography (GC) coupled with FID and MS detectors, Pyrolysis- Gas Chromatography (Py-GC), Flow Field Fractionation (FFF), Hydro Dynamic Chromatography (HDC), Dynamic Light Scattering (DLS), Analytical Photocentrifuge.

Advanced experience in analytical methods development, by solid-phase extraction (SPE), HPLC-UV/fluorescence, HPLC-MS and HPLC-MS-MS, for the determination of organic microcontaminants and pollutants (endocrine disrupters, pharmaceuticals and personal care products, sulfonates, surfactants, polycyclic aromatic hydrocarbons) and their biointermediates in environmental samples, both liquid (fresh water, sea water, underground water, final effluents from sewage treatment plants, drinking water, biological fluids) and solid (soil, sediment, organisms).

Advanced experience in the physical and chemical characterization of engineered nanomaterials and nanoparticles in complex matrices such as biological fluids and tissues, and environmental samples.

Expert use of Windows-based operating systems (Win98, WinNT, Win2000, WinXP, Win7) and their main applications (Office, Internet Explorer, Eudora, PhotoPaint, Agilent ChemStation, Mass Hunter, etc.).

Design, development and implementation of Decision Support Systems (DSS) for risk assessment and requalification of contaminated sites, water resources assessment and management, impact of natural and climate change hazards: DESYRE, MODELKEY, SYRIADE and DESYCO.

Ability to use Windows, Office, Internet Explorer, Corel Draw, Photoshop, Geostatistic software (Surfer, EVS, GS+, Variowin), desktop mapping-Geographic Information System (MapInfo, ESRI, Idrisi), Fortran, Statistic software (Unistat and Statistic), Risk Assessment models (APIDSS- American Petroleum Institute, Decision Support System; RBCA - Risk-based Corrective Action; Risk Assistant; ECOFATE, Food Chain; ETX-2000).

DRIVING LICENCE(S)

Category A & B

ADDITIONAL INFORMATION

Invited speaker to the International Symposium on Nanomaterials – National Center for International Research on Nanomaterials and Detection Technologies in Environmental Protection, Soochow University Suzhou – China (2017)

Member of the Scientific Committee of the Society for Risk Analysis Policy Forum: Risk Governance for Key Enabling Technologies, Venice – Italy (2017)

Scientific coordinator of the second Sustainable Nanotechnology School in collaboration with the main EU projects on Nanotechnology SUN and ECONANOSORB (2016)

Scientific coordinator of the first Sustainable Nanotechnology School in collaboration with the main EU projects on Nanotechnology SUN, COST MODENA and GUIDEnano (2016)

Winner of the A. Liberti medal awarded jointly by the Division of Environmental Chemistry and the Division of Analytical Chemistry of the Italian Society of Chemistry (2015)

Winner of the 2012 Ca' Foscari University of Venice "Premio alla Ricerca" (Outstanding Research Award)

Director of the International Autumn School on Nanosafety, Venice – Italy (2009-2013)

Member of the Editorial Board of Environmental Sciences (since 2004), Environment System and Decision (since 2013), and , Annali di Chimica (Rome) (2000-2004)

Member of the Scientific Committee of the SuWaMa Conference (September 19-23 2011)

National Delegate and member of the Scientific Committee of the EuChems Conferences ICCE 2011 (Zurich), ICCE 2013 (Barcelona), ICCE 2015 (Leipzig), ICCE 2017 (Oslo)

Elected Member of the Environmental Chemistry Division, Italian Society of Chemistry

Expert of the European Science Foundation, Marine Science Advisory Board (2007)

Dean of the Consorzio Venezia Ricerche (www.veneziaricerche.it) (2000-2013)

Dean of the Science & Technology Park of Venice (2003-2006)

Vice-Rector for Research Policy & Management at Ca' Foscari University (2006-2008)

Member of the Steering Committee and Strategic Council of the Euromediterranean Center for Climate Change (CMCC, www.cmcc.it) (since 2006)

Member of the American Chemical Society (ACS)

Member of the international Society of Environmental Chemistry and Toxicology (SETAC)

Member of the Italian Chemistry Society (SCI), elected Dean of the Division of Environmental and Cultural Heritage Chemistry (2019-2021)

Director of the university master REACH - Registration, Evaluation, Authorisation and restriction of CHemical substances), 2009-2012.

ANNEXES

ANNEX 1: LIST OF PUBLICATIONS

ANNEX 1

List of publications

Lava R., Calore F., Mazzola M., Moretto C.G., Pretto U., Salmaso P., Bizzotto A., Carvutto R., Acerbi M., Tommasi J., Marcomini A. (2021). Groundwater contamination by fluorinated aromatics: benzotrifluoride and its derivatives. *Chemosphere*, in press.

Contessi S., Dalconi M.C., Pollastri S., Calgaro L., Meneghini C., Ferrari G., Marcomini A., Artioli G. (2021). Cement-stabilized contaminated soil: Understanding Pb retention with XANES and Raman spectroscopy, *Science of the Total Environment*, 752, 141826.

Torresan S., Furlan E., Critto A., Michetti M., Marcomini, A. (2020). Egypt's Coastal Vulnerability to Sea-Level Rise and Storm Surge: Present and Future Conditions, *Integrated Environmental Assessment and Management*, 16, 761–772.

Isigonis P., Afantitis A., Antunes D., Bartonova A., Beitollahi A., Bohmer N., Bouman E., Chaudhry Q., Cimpan, M.R., Cimpan E., Doak S., Dupin D., Fedrigo D., Fessard V., Gromelski M., Gutleb A.C., Halappanavar S., Hoet P., Jeliaskova N., Jomini S., Lindner S., Linkov I., Longhin E.M., Lynch I. Malsch I. Marcomini A., Mariussen E., Fuente J.M., Melagraki G., Murphy F., Neaves M., Packroff R., Pfuhler S., Puzyn T., Rahman Q., Pran E.R., Semenzin E., Serchi T., Steinbach C., Trump B., Vrček I.V., Warheit D., Wiesner M.R., Willighagen E., Dusinska M. (2020). Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials, *Small*, 16, 2003303.

Gallina V., Torresan S., Zabeo A., Critto A., Glade T., Marcomini A. (2020). A Multi-Risk Methodology for the Assessment of Climate Change Impacts in Coastal Zones, *Sustainability*, 12, 3697.

Volpato G.A., Marasi M., Gobbato T., Valentini F., Sabuzi F., Gagliardi V., Bonetto A., Marcomini A., Berardi S., Conte V., Bonchio M., Caramori S., Galloni P., Sartorel A. (2020). Photoanodes for water oxidation with visible light based on a pentacyclic quinoid organic dye enabling proton-coupled electron transfer, *Chemical Communications*, 56, 2248–2251.

Furlan E., Slanzi D., Torresan S., Critto A., Marcomini A. (2020). Multi-scenario analysis in the Adriatic Sea: A GIS-based Bayesian network to support maritime spatial planning, *Science of the Total Environment*, 703, 134972.

Pesce M., Tamai I., Guo D., Critto A., Brombal D., Wang X., Cheng H., Marcomini A. (2020). Circular Economy in China: Translating Principles into Practice, *Sustainability*, 12, 832.

Battistin M., Dissette V., Bonetto A., Durini E., Manfredini S., Marcomini A., Casagrande E., Brunetta A., Ziosi P., Molesini S., Gavioli R., Nicoli F., Vertuani S., Baldisserotto A. (2020). A New Approach to UV Protection by Direct Surface Functionalization of TiO₂ with the Antioxidant Polyphenol Dihydroxyphenyl Benzimidazole Carboxylic Acid, *Nanomaterials*, 10, 231.

Praetorius A., Badetti E., Brunelli A., Clavier A., Gallego-Urrea J.A., Gondikas A., Hassellöv M., Hofmann T., Mackevica A., Marcomini A., Peijnenburg W., Quik J.T.K., Seijo M., Stoll S., Tepe N., Walch H., Von Der Kammer F. (2020). Strategies for determining heteroaggregation attachment efficiencies of engineered nanoparticles in aquatic environments, *Environmental Science: Nano*, 7, 351–367.

Contessi S., Calgaro L., Dalconi, M.C., Bonetto A., Bellotto M.P., Ferrari G., Marcomini A., Artioli G. (2020). Stabilization of lead contaminated soil with traditional and alternative binders, *Journal of Hazardous Materials*, 382, 120990.

Battistin M., Durini E., Dissette V., Bonetto A., Marcomini A., Casagrande E., Brunetta A., Ziosi P., Molesini S., Gavioli R., Nicoli F., Manfredini S., Vertuani S., Baldisserotto A. (2019). Synthesis and Characterization of New Multifunctional Self-Boosted Filters for UV Protection: ZnO Complex with Dihydroxyphenyl Benzimidazole Carboxylic Acid, *Molecules*, 24, 4546.

Zabeo A., Keisler J.M., Hristozov D., Marcomini A., Linkov I. (2019). Value of information analysis for assessing risks and benefits of nanotechnology innovation, *Environmental Sciences Europe*, 31, 11.

Pham H.V., Sperotto A., Torresan S., Acuña V., Jorda-Capdevila D., Rianna G., Marcomini A., Critto A. (2019). Coupling scenarios of climate and land-use change with assessments of potential ecosystem services at the river basin scale, *Ecosystem Services*, 40, 101045.

- Calgaro L., Badetti E., Bonetto A., Contessi S., Pellay R., Ferrari G., Artioli G., Marcomini A. (2019). Consecutive thermal and wet conditioning treatments of sedimentary stabilized cementitious materials from HPSS® technology: Effects on leaching and microstructure, *Journal of Environmental Management*, 250, 109503.
- Sperotto A., Molina J.L., Torresan S., Critto A., Pulido-Velazquez M., Marcomini A. (2019). A Bayesian Networks approach for the assessment of climate change impacts on nutrients loading, *Environmental Science and Policy*, 100, 21–36.
- Semenzin E., Subramanian V., Pizzol L., Zabeo A., Fransman W., Oksel C., Hristozov D., Marcomini A. (2019). Controlling the risks of nano-enabled products through the life cycle: The case of nano copper oxide paint for wood protection and nano-pigments used in the automotive industry, *Environment International*, 131, 104901.
- Staccione A., Mysiak J., Ostoich M., Marcomini A. (2019). Financial liability for environmental damage: insurance market in Italy, focus on Veneto region experience, *Environmental Science and Pollution Research*, 26, 25749–25761.
- Sperotto Anna, Molina J.L., Torresan S., Critto A., Pulido-Velazquez M., Marcomini A. (2019). Water Quality Sustainability Evaluation under Uncertainty: A Multi-Scenario Analysis Based on Bayesian Networks, *Sustainability*, 11, 4764.
- Semenzin E., Giubilato E., Badetti E., Picone M., Volpi Ghirardini A., Hristozov D., Brunelli, A., Marcomini A. (2019). Guiding the development of sustainable nano-enabled products for the conservation of works of art: proposal for a framework implementing the Safe by Design concept, *Environmental Science and Pollution Research*, 26, 26146-26158.
- Pesce M., Critto A., Torresan S., Giubilato E., Pizzol L., Marcomini A. (2019). Assessing uncertainty of hydrological and ecological parameters originating from the application of an ensemble of ten global-regional climate model projections in a coastal ecosystem of the lagoon of Venice, Italy, *Ecological Engineering*, 133, 121-136.
- Furlan E., Torresan S., Critto A., Lovato T., Solidoro C., Lazzari P., Marcomini A. (2019). Cumulative Impact Index for the Adriatic Sea: Accounting for interactions among climate and anthropogenic pressures, *Science of The Total Environment*, 670, 379-397
- Gallina V., Torresan S., Zabeo A., Rizzi J., Carniel S., Sclavo M., Pizzol L., Marcomini A., Critto. A. (2019). Assessment of Climate Change Impacts in the North Adriatic Coastal Area. Part II: Consequences for Coastal Erosion Impacts at the Regional Scale, *Water*, 11, 1300.
- Badetti E., Calgaro L., Falchi L., Bonetto A., Bettiol C., Leonetti B., Ambrosi E., Zendri E., Marcomini A (2019). Interaction between Copper Oxide Nanoparticles and Amino Acids: Influence on the Antibacterial Activity, *Nanomaterials*, 9(5) 792-797.
- Isigonis P., Hristozov D., Benighaus C., Giubilato E., Grieger K., Pizzol L., Semenzin E., Linkov I., Zabeo, A., Marcomini A. (2019). Risk Governance of Nanomaterials: Review of Criteria and Tools for Risk Communication, Evaluation, and Mitigation, *Nanomaterials*, 9, 696.
- Pham H.V., Torresan S., Critto A., Marcomini A. (2019). Alteration of freshwater ecosystem services under global change – A review focusing on the Po River basin (Italy) and the Red River basin (Vietnam), *Science of The Total Environment*, 652, 1347-1365.
- Terzi S., Torresan S., Schneiderbauer S., Critto A., Zebisch M., Marcomini A. (2019). Multi-risk assessment in mountain regions: A review of modelling approaches for climate change adaptation, *Journal of Environmental Management*, 232, 759-771.
- Isigonis P., Critto A., Stefan M., Zabeo A., Ciffroy P., Marcomini A. (2019) “AMORE” Decision Support System for probabilistic Ecological Risk Assessment - Part I: Exposure and risk assessment of the case study on cyanide, *Science of The Total Environment*, 648, 693-702.
- De Jong W.H., De Rijk E., Bonetto A., Wohlleben W., Stone V., Brunelli A., Badetti E., Marcomini A., Gosens I., Cassee F.R. (2019). Toxicity of copper oxide and basic copper carbonate nanoparticles after short-term oral exposure in rats, *Nanotoxicology*, 13, 50–72
- Basei G., Hristozov D., Lamon L., Zabeo A., Jeliaskova N., Tsiliki G., Marcomini A., Torsello A. (2019). Making use of available and emerging data to predict the hazards of engineered nanomaterials by means of in silico tools: A critical review, *Nanoimpact*, 13, 76-99
- Pizzol L., Hristozov D., Zabeo A., Basei G., Wohlleben W., Koivisto A. J., Jensen K.A., Fransman W., Stone V., Marcomini A. (2019). SUNDS probabilistic human health risk assessment methodology and its application to organic pigment used in the automotive industry, *Nanoimpact*, 13, 26-36

- Radomyski A., Lei K., Giubilato E., Critto A., Lin C., Marcomini A. (2018). Bioaccumulation of trace metals in aquatic food web. A case study, Liaodong Bay, NE China. *Marine Pollution Bulletin*, 137, 555-565.
- Pesce M., Terzi S., Mahmoud Al-Jawasreh R. I., Bommarito C., Calgaro C., Fogarin S., Russo E., Marcomini A., Linkov I. (2019), Selecting sustainable alternatives for cruise ships in Venice using multi-criteria decision analysis, *Science of The Total Environment*, 642, 668-678.
- Soccio G., Lava R., Ostoich M., Zanon F., Marchiori M., Rado N. Coraluppi E., Marcomini, A. (2018). Trace elements: critical insights from 15 years of monitoring in the Venice Lagoon catchment basin (Italy), *Environmental Monitoring and Assessment*, 190, 639
- Auguste M., Ciacci C., Balbi T., Brunelli A., Caratto V., Marcomini A., Cuppini R., Canesi L. (2018), Effects of nanosilver on *Mytilus galloprovincialis* hemocytes and early embryo development, *Aquatic Toxicology*, 203, 107-116
- Pesce M., Shi C., Critto A., Wang X., Marcomini A. (2018). SWOT analysis of the application of international standard ISO 14001 in the Chinese context. A case study of Guangdong Province, *Sustainability Switzerland*, 10(9), 3196
- Hristozov D., Pizzol L., Basei G., Zabeo A., Mackevica A., Hansen S., Gosens I., Cassee F., de Jong W., Koivisto A.J., Neubauer N., Sanchez Jimenez A., Semenzin E., Subramanian V., Fransman W., Jensen KA., Wohlleben W., Stone V., Marcomini A. (2019). Quantitative human health risk assessment along the lifecycle of nano-scale copper-based wood preservatives, *Nanotoxicology*, 12(7), 747-765
- Gheno G., Badetti E., Brunelli A., Ganzerla R., Marcomini A. (2018). Consolidation of Vicenza, Arenaria and Istria stones: A comparison between nano-based products and acrylate derivatives, *Journal of Cultural Heritage*, 32, 44-52
- Rizzo E., Pizzol L., Zabeo A., Giubilato E., Critto A., Cosmo L., Marcomini A. (2018). An Information System for Brownfield Regeneration: providing customised information according to stakeholders' characteristics and needs, *Journal of Environmental Management*, 217, 144-156
- Pesce M., Critto A., Torresan S., Giubilato E., Santini M., Zirino A., Ouyang W., Marcomini A. (2018). Modelling climate change impacts on nutrients and primary production in coastal waters, *Science of The Total Environment*, 628-629, 919-937
- Brombal D., Niub Y., Pizzol L., Moriggia A., Wang J., Critto A., Jiang X., Liug B., Marcomini A. (2018). A participatory sustainability assessment for integrated watershed management in urban China, *Environmental Science and Policy*, 85(7), 54-63
- Fadeel B., Farcas L., Hardy B., Vázquez-Campos S., Hristozov D., Marcomini A., Lynch I., Valsami-Jones E., Alenius H., Savolainen K. (2018). Advanced tools for the safety assessment of nanomaterials, *Nature Nanotechnology*, 13(7), 537-543
- Linkov I., Trump B. D., Anklam E., Berube D., Boisseau P., C. Cummings C., Ferson S., Florin M., Goldstein B., Hristozov D., Alstrup Jensen K., Katalagarianakis G., Kuzma J., Lambert J.H, Malloy T, Malsch I., Marcomini A., Merad M., Palma-Oliveira J., Perkins E., Renn O., Seager T., Stone V., Vallero D., Vermeire T., (2018). Comparative, collaborative, and integrative risk governance for emerging technologies, *Environment Systems and Decisions*, 38(2), 170-176
- Malsch I., Mullins M., Semenzin E., Zabeo A., Hristozov D., Marcomini A. (2018). Decision Support for International Agreements regulating Nanomaterials, *NanoEthics*, pub. Online
- Amorim M. J.B., L. Sijie, Schlich K., Navas J. M., Brunelli A., Neubauer N., Vilsmeier K., Costa A.L., Gondikas A., Xia T., Galbis L, Badetti E., Marcomini A., Hristozov D., von der Kammer F., Hund-Rinke K, Scott-Fordsmand J.J., Nel A., Wohlleben W. (2018). Environmental impacts by fragments released from nanoenabled products: a multiassay, multimaterial exploration by the SUN approach, *Environmental Science & Technology*, 52, 1514-1524
- Pesce M., Critto A., Torresan S., Giubilato E., Santini M., Zirino A., Ouyang W., Marcomini A. (2018). Modelling climate change impacts on nutrients and primary production in coastal waters. *Science of The Total Environment*, 628-629, 919-937
- Furlan E., Torresan S., Critto A., Marcomini A. (2018). Spatially explicit risk approach for multi-hazard assessment and management in marine environment: The case study of the Adriatic Sea. *Science of The Total Environment*, 618, 1008-1023
- Ortelli S., Costa A.L., Blosi M., Brunelli A., Badetti E., Bonetto A., Hristozov D., Marcomini A. (2017). Colloidal characterization of CuO nanoparticles in biological and environmental media, *Environmental Science: Nano*, 4 (6), 1264-1272
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