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Associated Professor in Applied Mineralogy and Petrography (GEO/09), Department of Earth and Environmental Sciences,

Vice-director of Research Centre for Cultural Heritage Studies, Director of Research Laboratory "Arvedi Laboratory - in Pavia",

Manager of R&D of research group of Archaeometry - petrography and geo-archaeology applied to knowledge, preservation and promotion of cultural heritage, University of Pavia,

Member of Archaeometry of Prehistoric and Protohistoric Inorganic Artefacts, Materials and their Technologies Commission (UISPP)

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EXPERTISE

Research and teaching activities are developed in a strongly trans-disciplinary field, covering topics related to the management and valorization of natural resources and the relationship with human activities. The evolution of this relationship over time is studied through the reconstruction of pre-industrial (historical commodity) and industrial (manufacturing and commodity) supply and production chains.

MANAGEMENT RESEARCH STRUCTURES:

- 1994 – 2001: Manager of R&D of "Electron microscopy and microanalysis" laboratory at CGS-Centro Grandi Strumenti (Large Instruments Facility) of Pavia University;
- since 2008: Vice-director of Research Centre for Cultural Heritage Studies, University of Pavia;
- since 2009 Manager of R&D of "Laboratorio Arvedi" high specialization for the study and conservation of historical artifacts and art in wood and polychrome wood.

TECHNOLOGY TRANSFER

- 2010-2015: Coordinator of research activities with the R&D and technology transfer of Arkedos spinoff, project "MEDIACONT: A new diagnostic method for the conservation and tracking/tracing of Cultural Heritage" (art. 11 of the DM 593 8 August 2000, Prog. 19/8, admitted to the facilities with D.D. n.112/Ric del 27 aprile 2010);
- 2012-2014: Coordinator of research activities with the R&D and technology transfer of Arkedos spinoff, project "XraMan - An analytical tool with combine X-ray fluorescence and Raman" (Lombardy Region - Program ERGON: Eccellenze Regionali a supporto della Governance e dell'Organizzazione dei Network di imprese).

CURRENT RESEARCH PROJECTS

- SCORE - Sustainable conservation and restoration of built cultural heritage: Horizon 2020; Call: H2020-MSCA-RISE-2020 (Marie Skłodowska-Curie Research and Innovation Staff Exchange); Proposal number: 101007531; 2020-2024.
- "I.E.S.MAN. - Internet of Enterprise Sustainable MANufacturing - Sviluppo di un modello di Internet of Enterprise per la fabbricazione sostenibile per inchiostri, smalti e piastrelle ceramiche"; DM 05.03.2018 – N. progetto: F/160032/01-04/X41 – Capofila Smalticeram Unicer SpA
- "VOLT - "VOLT | Viability fOr circuLar manufacTuring" - Progettare, realizzare e collaudare un digital twin come replica virtuale della supply chain, in grado di simulare le prestazioni del sistema di approvvigionamento dell'industria ceramica e di abilitare la transizione verso una più innovativa

Circular and Intelligent Supply Chain., DM 31/12/2021 - N. progetto: F/310122/01-05/X56 –
Capofila Gresmalt SpA.

RESEARCHER PERFORMANCE (scopus)

(i) scientific papers: 78

(ii) total citations: 1615

(iii) h-index: 19