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**Organization type:** Politecnico di Torino

**Role:** Associate Professor or senior researcher

**Organization name:** (Politecnico di Torino) DISMIC

**Education:** He was graduated from l'Ecole Supérieure de l'Energie et des Matériaux of Orléans (France) in 1992 and received his PhD in 1997 after having studied the sintering of two industrial mullite powders for the preparation of ceramic foams for Diesel soots filtration. He has occupied a post-doc position at the University of Limoges between 1998 and 1999 where he studied the oxidation of Y,La-Si-Al-O-N glasses.

**Work experience in the last 5 years:** He is research assistant since november 1999 in Materials Science and Technology and Associate professor of the same discipline since november 2006. He is the author or co-author of more than 50 papers on national and international journals and co-author of an italian and a spanish patent on gas sensors. He is currently titular of courses in Materials Science and Technology (2nd faculty of architecture) since 2000 in Torino and since 2002 in Mondovì, at the 2nd Faculty of Architecture of Politecnico di Torino. He is a member of the Teaching Board of the PhD course in "Cultural Heritage" from Politecnico di Torino. He is a member of the AIMAT (Italian Association for Materials Engineering) and of INSTM Consortium (Italian Consortium of Materials Science and Technology).

**Technical, organizational and social skills:** He has been involved, as a researcher, in several research projects over the years and has also been responsible for or the coordinator of the loans here after cited.

**Loans managed for the last 5 years:** Progetto PRISMA 2005 "Development of new cellular materials by gel-casting technique: optimisation of production process and functional simulation of the microstructure"

PRIN 2005 "Set up of composites polyurethane based polymer resins/carbon nanotubes or nanofibres for structural reinforcement of wooden elements"

Contratto di consulenza con "Riserva Naturale Speciale del Sacro Monte di Varallo" 2005

Bando Ricerca Scientifica 2004 Regione Piemonte "Ceramic sensors for moisture control in soils in view of a sustainable irrigation system"

**Publications for the last 5 years, licences or other products of research:**

2009 TULLIANI J.M., SANDRONE R., DEFILIPPIS E., LOMBARDI M. (2009) Analysis of the plasters of some relevant chapels of the Sacro Monte (Sacred Mount) of Varallo Sesia, Piedmont, Italy. JOURNAL OF CULTURAL HERITAGE, in press

2008 BERTOLINI CESTARI C., MARZI T., INVERNIZZI S., TULLIANI J.M. (2008). Nanotechnologies applied to the restoration and maintenance of wooden built heritage. 6th International Conference on Structural Analysis of Historical Construction. Bath (UK). 2-4 July 2008.

2007 CANEPA F., FERRO G., TULLIANI J.M., CAUDA V. (2007). Calcestruzzi Hybrid additivati con fibre di vetro e nanotubi di carbonio. In: Atti del XIX Convegno Nazionale del Gruppo Italiano Frattura. IGF19. Politecnico di Milano. 2-4 luglio 2007. (pp. 369-377). Stampa: Grafiche g.s.s., Arzago d'Adda (BG).

2006 IENTILE R., CHIABRANDO F., NARETTO M., TULLIANI J.M. (2006). Conoscenza e conservazione di testimonianze storico-architettoniche: il nucleo aggregato di Thures nell'Alta Valle di Susa. IV Congresso Nazionale di Archeometria. Pisa. 1-3 febbraio 2006. ISBN/ISSN: 978-88-555-2939-6. BOLOGNA: Pàtron (ITALY)

2005 TULLIANI J.M., BERTOLINI CESTARI C. (2005). Study of the degradation causes affecting stucco sculptures from The Valentino Castle in Turin. MATERIALS AND STRUCTURES. vol. 38, pp. 425-432 ISSN: 1359-5997.

2005 DEFILIPPIS E., TULLIANI J.M., SANDRONE R., SCARZELLA P., PALMERO P., LOMBARDI SERTORIO C., ZERBINATTI M. (2005). Analisi degli intonaci della Cappella del Calvario al Sacro Monte di Varallo. ARKOS. vol. 12, pp. 38-45.

2004 MONTANARO L., TULLIANI J.M., PALMERO P., NEGRO A. (2004). Chemical composition of some Roman glass tesserae discovered in a caldarium located in Northern Italy. SILICATES INDUSTRIELS. vol. 68, pp. 151-155 ISSN: 0037-5225.

2004 TULLIANI J.M., RONCHETTA D. (2004). Characterization of ancient mortars from Hierapolis necropolis. 9th European Interregional Conference on Ceramics. 5-7 settembre 2004. (pp. 111-116). ISBN/ISSN: 88-8202-010-X.

**Role in proposal:** Researcher