

Valeria Cannillo graduated in Engineering in 1995 at the University of Pavia, Italy (110/110 cum Laude) and took her PhD in Materials Engineering in 1999 at the University of Modena and Reggio Emilia, Italy. During 1999 she worked at the Department of Chemistry, University of Modena and Reggio Emilia. In 1999 and 2000 she was a visitor scientist at MIT, USA, Departments of Materials Science and Engineering. In 2000-2001 held a position as a Researcher at the University of Modena and Reggio Emilia. In 2001-2005 was an Assistant Professor and from 2005 Associate Professor of Materials Science and Engineering, at the University of Modena and Reggio Emilia, Faculty of Engineering, Department of Engineering "Enzo Ferrari". In January 2014 and again in January 2020, she gained the habilitation as Full Professor. She is now (from 1/7/2022) Full Professor of Materials Science and Technology.

Since the academic year 2000-2001 she teaches at the University of Modena and Reggio Emilia; actually, her courses are "Design of Advanced Materials", "Innovative materials", "Polymers and composites" and "Dental materials". She is also part of the PhD School in "Civil, Environmental and Materials Engineering". She was a member of the committee for final exams of PhD candidates.

With regard the scientific activity, Valeria Cannillo has been involved in the study of computational methods and experimental investigation for the design and optimization of innovative materials, including advanced ceramics, composites, FGM (Functionally Graded Materials), coatings and biomaterials. For her research, she collaborated with several international institutions.

The scientific activity is documented by more than 200 papers published in scientific journals and several presentations in national and international conferences (also as "invited talks"). Moreover, Valeria Cannillo is a reviewer for many international materials science and engineering journals. She was Guest Editor for different journals. She was in the Editorial Board of Journal of Tribology and Surface Engineering, and of Biomedical Glasses. She is in the Editorial board of Materials as Section Editor, Biomaterials, and of Smart Materials in Manufacturing. She was Specialty Chief Editor, section Ceramics and Glass of Frontiers in Materials. Currently she is Editor of Materials Letters (Elsevier).

She participated in several research projects (financed by MIUR - Italian Ministry for University, MISE – Italian Ministry for Economic Development); in particular, she promoted projects finalized at the international collaboration, including i) an international cooperation programme (MIUR), having as partners MIT (USA), the Center for Thermal Spray Research, Stony Brook (USA) and the IFKB, University of Stuttgart, ii) an internationalization project with MIT (USA), the Center for Thermal Spray Research, Stony Brook (USA), directed iii) a project for the mobility of researchers (Vigoni program, University of Stuttgart), iv) a project for the mobility of PhD students (Vinci Program, University of Limoges), iv) a project for the mobility of researchers (University of Erlangen, Prof. Boccaccini). She coordinated other projects related to the development of advanced biomaterials.

Moreover she had research contracts with Italian companies.

From Scopus (8 July 2026):

210 documents

7409 citations

h-index 49

From Google Scholar (8 July 2026):

9734 citations

h-index 55

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Honors and awards:

-2009 Best Paper Award, from TSS (Thermal Spray Society) of ASM International, International

thermal Spray Conference 2009

-12 invited talks/ keynote talk in the plenary session (invited) in international conferences

-From January 2018, she has been appointed Top Italian Scientists
(http://www.topitalianscientists.org/top_italian_scientists.aspx)

-IAAM medal Award, 2019, from IAAM (International Association of Advanced Materials
www.iaamonline.org)

-Italian Patent n. 102019000002229, 20/01/2021: Materiale biocompatibile e bioattivo e relativo procedimento di attuazione, IT 102019000002229, granted on 20/01/2021. PCT extension.

-Valeria Cannillo was included in 2021 (referred to 2020), 2022 (referred to 2021), 2023 (referred to 2022), 2024 (referred to 2023) and 2025 (referred to 2024) in the “World’s Top 2% Scientist” from Stanford University (USA), and also for the full career in the same years.

- Valeria Cannillo is a member of the European Academy of Sciences and Arts (<https://www.euro-acad.eu/>), an international scientific academy that also includes 32 Nobel Prize winners, since 2025.

8/7/2026

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