



**GIUSEPPE MARRUCCI**

**Socio dal 2005**

Nato a Portici il 16.04.1937

Emerito di Termodinamica, Università di Napoli Federico II

- Laureato in Ingegneria presso Università di Napoli
- Libera docenza in Principi di ingegneria chimica presso Università di Napoli
  
- 1999-2003: membro dello Scientific Reference Committee del Dutch Polymer Institute
- 2000-2001: ProRettore vicario dell'Università di Napoli Federico II
- 2001-2006: Presidente del Comitato Tecnico Ordinatore della Facoltà di Scienze Biotechnologiche, Università di Napoli Federico II
- 2004-2006: Presidente del Comitato di Ateneo per la Valutazione della Ricerca, Università Federico II
- 2005-2009: membro dell'International Advisory Board del Network di Eccellenza Europeo SoftComp
- 2008-2010: membro del Supervisory Board del Dutch Polymer Institute
  
- 1993: Eletto nella Società Nazionale di Scienze, Lettere ed Arti in Napoli
- 1995: Premio "Guido Dorso" per la ricerca
- 1996: Diploma di Medaglia d'Oro ai Benemeriti della Scienza e della Cultura
- 1998: Weissemberg Award della European Society of Rheology
- 2003: Bingham Medal della Society of Rheology (USA)
- 2003: Eletto nella National Academy of Engineering (USA)
- 2004: Membro onorario dell'Istituto Topchiev dell'Accademia Russa delle Scienze

Campi di interesse:

- modellistica della reologia e del processing di materiali plastici ed elastomerici, di polimeri liquido-cristallini, di polimeri associativi, biopolimeri, ecc.
  
- T. Yaoita, T. Isaki, Y. Masubuchi, H. Watanabe, G. Ianniruberto, F. Greco, and G. Marrucci, *J. Chem. Phys.*, 128, 154901-11 (2008) "Statics, linear, and nonlinear dynamics of entangled polystyrene melts simulated through the primitive chain network model".
- Y. Masubuchi, K. Furuichi, K. Horio, T. Uneyama, H. Watanabe, G. Ianniruberto, F. Greco, and G. Marrucci, *J. Chem. Phys.*, 131, 114906 (2009) "Primitive chain network simulations for entangled DNA solutions".
- A. Jonáš, A. C. De Luca, G. Pesce, G. Rusciano, A. Sasso, S. Caserta, S. Guido, and G. Marrucci, *Langmuir*, 26(17), 14223-14230 (2010) "Diffusive Mixing of Polymers Investigated by Raman Microspectroscopy and Microrheology".
- T. Yaoita, T. Isaki, Y. Masubuchi, H. Watanabe, G. Ianniruberto, and G. Marrucci, *Macromolecules*, 44, 9675-9682 (2011) "Primitive Chain Network Simulation of Elongational Flows of Entangled Linear Chains: Role of Finite Chain Extensibility".
- T. Yaoita, T. Isaki, Y. Masubuchi, H. Watanabe, G. Ianniruberto, and G. Marrucci, *Macromolecules*, 45, 2773-2782 (2012) "Primitive Chain Network Simulation of Elongational Flows of Entangled Linear Chains: Stretch/Orientation-induced Reduction of Monomeric Friction".



**GIUSEPPE MARRUCCI**

**Member since 2005**

Born April 16, 1937 in Portici

Professor Emeritus of Thermodynamics, Federico II University of Naples

- 1961: Doctor degree in Engineering, University of Naples
- 1967: Teaching degree (Libera Docenza) in Principles of chemical engineering, University of Naples
- 1999-2003: member of the Scientific Reference Committee of the Dutch Polymer Institute
- 2000-2001: vice-Rector of the Federico II University of Naples
- 2001-2006: President of the Faculty of Biotechnologies Founding Committee, Federico II University of Naples
- 2004-2006: President of the Research Evaluation Committee, Federico II University of Naples
- 2005-2009: member of the International Advisory Board of the SoftComp European Network of Excellence
- 2008-2010: member of the Supervisory Board of the Dutch Polymer Institute
- 1993: member of "Società Nazionale di Scienze, Lettere ed Arti in Napoli"
- 1995: research award "Guido Dorso"
- 1996: Gold Medal for Science and Culture, Italian Department of Education
- 1998: Weissemberg Award, European Society of Rheology
- 2003: Bingham Medal, Society of Rheology (USA)
- 2003: Foreign Associate of the National Academy of Engineering (USA)
- 2004: Onorary member of the Institute Topchiev of the Russian Academy of Sciences

Fields of interest:

Rheology and processing models of plastic and rubbery materials, of liquid-crystalline polymers, associating polymers, biopolymers, etc.

- T. Yaoita, T. Isaki, Y. Masubuchi, H. Watanabe, G. Ianniruberto, F. Greco, and G. Marrucci, *J. Chem. Phys.*, 128, 154901-11 (2008) "Statics, linear, and nonlinear dynamics of entangled polystyrene melts simulated through the primitive chain network model".
- Y. Masubuchi, K. Furuichi, K. Horio, T. Uneyama, H. Watanabe, G. Ianniruberto, F. Greco, and G. Marrucci, *J. Chem. Phys.*, 131, 114906 (2009) "Primitive chain network simulations for entangled DNA solutions".
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- T. Yaoita, T. Isaki, Y. Masubuchi, H. Watanabe, G. Ianniruberto, and G. Marrucci, *Macromolecules*, 45, 2773-2782 (2012) "Primitive Chain Network Simulation of Elongational Flows of Entangled Linear Chains: Stretch/Orientation-induced Reduction of Monomeric Friction".