

CURRICULUM VITÆ

Paolo Colombo

- born in Padova, Italy on 10.12.1960

Education

- MSc in Chemical Engineering (Magna cum Laude), University of Padova (18/12/1985)
- Diploma in Glass Engineering, University of Padova, (07/04/1988)
- Diploma in Flute, Music Conservatory “C. Pollini”, Padova (17/9/1980)

Work

- Research fellowship, Donegani foundation - Accademia dei Lincei, “Vetrification of simulated high level radioactive waste”, Department of Mechanical Engineering, University of Padova (1/5/1988-31/3/1990)
- Research associate, Department of Mechanical Engineering, University of Padova (1.4.90-31.10.1998)
- Fulbright Scholarship, Department of Materials Science and Engineering, The Pennsylvania State University, USA, (1/11/1991-31/10/1992)
- Associate Professor, Department of Applied Chemistry and Materials Science, University of Bologna (1/11/1998 - 31/10/2005)
- Professor, Department of Industrial Engineering, University of Padova (1/11/2005-current)
- Adjunct Professor of Materials Science and Engineering, The Pennsylvania State University, USA (1.7.2002-current)
- Visiting Professor, Department of Mechanical Engineering, University College London, UK (1/1/2007-31/08/2022)
- Honorary Professor, Department of Mechanical Engineering, University College London, UK (17/11/20022-current)
- Foreign Scientist (Visiting Professor) at INSA (Institut National des Sciences Appliquées de Lyon), Lyon, France, (Luglio 2015)
- Mercator Professor (DFG), Department of Ceramic, Glass and Construction Materials, Technical University Bergakademie Freiberg, Freiberg, Germany (8/2/2016-7/8/2016)
- Academic Advisor, Institute for Advanced Ceramics, School of Materials Science and Engineering, Harbin Institute of Technology, China (1/5/2022-30/4/2023)
- Member, INSTM (National Consortium on Science and Technology of Materials)

Research interests

Paolo Colombo's research interests include novel processing routes to porous glasses and ceramics (currently focusing mainly on Additive Manufacturing, using different technologies), the development of ceramic components from preceramic polymers and geopolymers, and the upcycling of hazardous industrial and natural waste.

Awards

- Academician of the World Academy of Ceramics (2006)
- Academician of the European Academy of Sciences – Materials Science Division (2016)

- Fellow of the American Ceramic Society (2010), in recognition of notable contributions to the ceramic arts and sciences
- Fellow of the Institute of Materials, Minerals and Mining (2011)
- Fellow of the European Ceramic Society (2017)
- Best thesis “Vittorio Gottardi” award (AIMAT, 1987)
- Pfeil Award 2007 (The Institute of Materials, Minerals and Mining, London, UK) “for published work of particular merit in the field of ceramics”, for the paper “Ceramic-Polymer Composites for Ballistic Protection,” by P. Colombo, F. Zordan, and E. Medvedovski, *Adv. App. Ceram.*, 105[2] (2006) 78-83
- Global Star Award 2010 (The Engineering Ceramics Division of the American Ceramic Society) “in recognition and appreciation of his substantial contribution to the success of the 2010 International Conference on Advanced Ceramics and Composites”
- Edward C. Henry Award 2011 (The Electronics Division of The American Ceramic Society) “for best paper written in the calendar year 2010 in the Journal of the American Ceramic Society or Bulletin on a subject related to electronic ceramics”
- Verulam Medal & Prize 2013 (The Institute of Materials, Minerals and Mining, London, UK) “in recognition of distinguished contributions to ceramics including refractories”
- ACerS Global Ambassador Award 2016 (The American Ceramic Society) “for his tireless efforts and leadership in the organization of numerous conferences and for his outstanding efforts in developing global collaboration and outreach for the Society”
- The Polish Ceramic Society Award (2019)
- CICC Special Contribution award, Chinese Ceramic Society (2022)
- Bridge Building Award 2023 (The American Ceramic Society)

Editorial boards

- Editor-in-Chief, Open Ceramics, Elsevier, Amsterdam, NL (ISSN: 2666-5395).
- Associate Editor, Journal of the American Ceramic Society, John Wiley & Sons, Inc., Hoboken, NJ, USA (ISSN 1551-2916)
- Member, Associate Editorial Board “Materials Letters”, Elsevier, Amsterdam, NL (ISSN: 0167-577X)
- Member, International Editorial Board “Ceramics International”, Elsevier, Amsterdam, NL (ISSN: 0272-8842)
- Member, Editorial Board “Journal of Porous Materials”, Springer Netherlands, Amsterdam, NL (ISSN: 1380-2224)
- Member, Editorial Board “Journal of Asian Ceramic Societies”, Elsevier, Amsterdam, NL (ISSN 2187-0764)
- Member, Editorial Board “Advances in Applied Ceramics: Structural, Functional and Bioceramics” – formerly British Ceramic Transactions, Maney Publishing, London, UK (ISSN 1743-6753)
- Member, Editorial Board “Chinese Journal of Mechanical Engineering: Additive Manufacturing Frontiers” (ISSN 2772-6657)
- Member, Editorial Committee “Journal of Advanced Ceramics”, Springer, Berlin, DE (ISSN 2226-4108)
- Member, Editorial Advisory Board “Transactions of the Indian Ceramic Society,” Taylor and Francis, UK (ISSN 0371-750X)

- Member, until 2014, Editorial Board “Bubble Science, Engineering and Technology,” Maney Publishing, London, UK (ISSN 1758-8960)
- Member, until 2014, Editorial Board “Advanced Engineering Materials”, WILEY-VCH, D (ISSN 1438-1656)

Guest editor/Editor

- Guest Editor, Special Issue “Cellular ceramic materials”, Vol. 104, No. 1, February 2005, “Advances in Applied Ceramics: Structural, Functional and Bioceramics”
- Guest Editor, Special Issue “Highly Porous Metals and Ceramics”, Vol. 10, No. 3, 2008, “Advanced Engineering Materials”
- Guest Editor, Special Issue “Glass and Ceramics from Waste”, Vol. 108, No. 1, January 2009, “Advances in Applied Ceramics: Structural, Functional and Bioceramics”
- Guest Editor, Special Issue “Polymer-Derived-Ceramics”, Vol. 108, No. 8, November 2009, “Advances in Applied Ceramics: Structural, Functional and Bioceramics”
- Guest Editor, Special Issue “Highly Porous Metals and Ceramics”, Vol. 14, No. 12, 2012, “Advanced Engineering Materials”
- Lead Guest Editor, Focus Issue “Advances in the Synthesis, Characterization and Properties of Bulk Porous Materials”, Vol. 28, No. 17, 2013, “Journal of Materials Research”
- Guest Editor, Special Issue “Additive Manufacturing of Fiber Composites”, 2022, “Materials”
- Guest Editor, Special Issue “Additive Manufacturing of Composites, Volume II”, 2023 per la rivista “Materials”
- Guest Editor, Special Issue “Additive Manufacturing of Advanced Ceramics”, 2023, “Chinese Journal of Mechanical Engineering: Additive Manufacturing Frontiers (CJME: AMF)”
- Co-Editor book “Cellular Ceramics. Structure, Manufacturing, Properties and Applications”, Wiley-VCH, 2005
- Co-Editor book “Polymer Derived Ceramics. From Nano-Structure to Applications”, DESTech Publications, 2009

PI research projects

- ENEA-Università di Bologna, “Joining of CMCs” (2000)
- GIMAC-Università di Bologna, “Ceramic microtubes from preceramic polymers” (2001)
- NASA Grant # NAG2-1524 (9/1/2001-3/31/2003 – NASA Ames Research Base) “Evaluation of Si-O-C Foam Ceramics in Simulated Aerothermal Environments”
- Bitossi-Università di Bologna, “Manufacturing of cellular ceramics” (2004) EOARD (European Office for Aerospace Research and Development)-Università di Bologna per lo “Fabrication and Evaluation of Ceramic Microtubes by Extrusion of Preceramic Polymers”; Grant # FA8655-04-1-3055 (2004)
- Petroceramics-Università di Bologna, “Manufacturing of high performance friction materials” (2005)
- PRIN “Ceramic nanocomposites from preceramic polymers and CNTs” (2005)

- FP6 Marie Curie Research Training Network (RTN) “PolyCerNet - Tailored Multifunctional Polymer Derived NanoCeramics” (Contract No. MRTN-CT-019601) (2006-2009)
- Bitossi-Università di Padova, “Manufacturing of cellular ceramics” (2006)
- Bitossi-Università di Padova, “Ceramic grinding media” (2007)
- Foseco-Università di Padova, “Fabrication and Characterization of Low Density Ceramic Components for Metallurgical Applications” (2006)
- Foseco-Università di Padova, “Fabrication and Characterization of Low Density Ceramic Components for Metallurgical Applications” (2007)
- VDM Ceratec-INSTM, “Low density ceramic refractories” (2007)
- Bloxer-Università di Padova, “Fire resistant glasses” (2008-2009)
- INFN-INSTM, “Production of uranium carbide pellets” (2007 e 2008)
- PRIN “Hierarchical porosity materials for removal of pollutants” (2008-2009)
- Ministero dello Sviluppo Economico - Industria 2015 (2010-2013), project PIACE
- Dow Chemical-The Pennsylvania State University, “Acicular Mullite Technology” (2010-2011)
- FP7-PEOPLE-2010-ITN Marie Curie Actions - Networks for Initial Training (ITN) “FUNEA - FUnctional Nitrides for Energy Applications” (Contract No. 264873) (2011-2014)
- King Abdulaziz City for Science & Technology (KACST)-Università di Padova, “Research and development of Glass and Glass-Ceramic Materials” (2011-2014).
- ATT S.p.A-Università di Padova, “Analysis of refractory materials” (2011).
- Progetto FP7-PEOPLE-2012-COFUND-Marie-Curie Action “Piscopia” (2015-2016) (Contract No. 600376)
- UNIPD project MAESTRA “From Materials for Membrane-Electrode Assemblies to Electric Energy Conversion and Storage Devices” (2013-2016)
- UNIPD project BIOBONE (2014-2015)
- ITT Italia s.r.l.-INSTM, “Advanced friction materials” (2014-2015).
- Desamanera SrL-Università di Padova, “Large scale AM” (2015)
- ISOCLIMA SpA-Università di Padova, “Fire resistant glass” (2015-2016)
- Petroceramics-Università di Padova, “High thermal conductivity ceramics from preceramic polymers” (2015)
- ITT Italia s.r.l.-INSTM per “Advanced friction materials” (2015-2017)
- ITT Italia s.r.l.-INSTM, “Advanced friction materials” (2016-2018)
- FSE 2014-2020, “Large scale additive manufacturing” (2016-2017)
- H2020-MSCA-RISE-2016 “AMITIE” (Additive Manufacturing Initiative for Transnational Innovation in Europe) (Contract No. 734342) (2017-2020)
- Swarovski-Università di Padova, “Additive Manufacturing of Glass Components” (2017-2018)
- POR FESR 2014-2020, “Additive Manufacturing & Industry 4.0 as Innovation Driver – ADMIN 4D” (Progetto ID 10065402) (2017-2019)
- Swarovski-Università di Padova, “Additive Manufacturing of Special Glass Components” (2018-2020)
- H2020-NMBP-HUBS-2018 “LightCoc” (Building an Ecosystem for the up-scaling of lightweight multi-functional concrete and ceramic materials and structures) (Contract No. 814632) (2018-2021)

- Trucker Subforniture-Università di Padova, “Geopolymer matrix composites” (2018)
- ITT Italia s.r.l.-INSTM, “Advanced friction materials” (2018-2021).
- Electrolux-Università di Padova, “AM of adsorbents” (2019).
- Trucker Subforniture-Università di Padova, “Geopolymer matrix composites” (2019)
- PRIN 2017 “Nanostructured Porous Ceramics for Environmental and Energy Applications” (Codice Progetto 2017PMR932) (2019-2021)
- UNI-IMPRESA 2018 “Hierachically porous aluminosilicate ceramics for environmental protection” (2019-2020)
- H2020-OTHER-EIT KIC RawMaterials Upscaling “IDEAL” (Industrial ResiDues for Smart FirE-resistAnt PhotocataLytic Components) (Proposal Number 19040) (2020-2022)
- QINETIQ-Università di Padova, “AM of CMCs” (2020-2022)
- RIR-FESR 2020, “AM of molds for glass manufacturing” (2020-2022)
- UNIPD, “Hybrid Freeforming Extrusion - UV Assisted Additive Manufacturing Methods for the Fabrication of Ceramic Components with High Complexity” (2021-2022)
- ITT Italia s.r.l.-INSTM, “Advanced friction materials” (2021-2024)
- Stabila-CIRCe (UNIPD), “Insulating bricks” (2022)
- ASI-UNIPD, “AM of Lunar regolith” (2023-2024)

PI, bilateral research projects

- Project “Vigoni” Italy-Germany 1999 and 2000 (Prof. P. Greil University of Erlangen)
- Project “Galileo” Italy-France 1999 and 2001 (Dr. J.C. Pivin, CNRS)
- Project Italy-Egypt 2003-2005 (Dr. A. Francis, Central Metallurgical Research and Development Institute, Cairo)
- Project “Vigoni” Italy-Germany 2006 and 2007 (Dr. R. Hauser, Technical University Darmstadt)
- International Joint Project Italy-UK, The Royal Society 2006 and 2007 (Prof. M. Edirisinghe, University College London, University of London)

(Co-)organized conferences

1. Member, International Scientific Advisory Board, Conference “Shaping II”, Second International Conference on Shaping of Advanced Ceramics, October 24-26, 2002, Gent, Belgium
2. Member, International Program Committee, Conference “CREST-International Symposium on SiC/SiC Composite Materials R & D and Its Application to Advanced Energy Systems”, May 20-22, 2002, Kyoto, Japan
3. Member, International Program Committee, Conference “Syntactic and Composite Foams”, August 1-6, 2004, Banff, Canada
4. Co-organizer, Symposium “Mechanical Properties of Engineering Ceramics and Composites”, 28th International Cocoa Beach Conference and Exposition on Advanced Ceramics & Composites, January 25-30, 2004, Cocoa Beach, FL, USA
5. Co-organizer, Symposium “Porous Ceramics”, 55th Pacific Coast Regional & Basic Science Division Fall Meeting of the American Ceramic Society, September 12-15th, 2004, Seattle, WA, USA
6. Co-organizer, Symposium “Processing, Properties, and Applications of Porous Ceramics - A Symposium in Honor of David Green’s Contributions to these

- Topics”, 107th Annual Meeting & Exposition of the American Ceramic Society, April 10-13, 2005, Baltimore, MD, USA
7. Member, International Scientific Advisory Board, Conference “International Conference Porous Ceramic Materials (PCM 2005)”, October 20-21, 2005, Brugge, Belgium
 8. Member, International Organizing Committee, Conference “9th International Conference on Ceramic Processing Science (ICCPS - 9)”, January 8-11, 2006, Coral Springs, FL, USA
 9. Member, International Scientific Advisory Board, Conference “Shaping III”, Third International Conference on Shaping of Advanced Ceramics, 10-12 May, 2006, Limoges, France
 10. Member, International Advisory Board of Section E “Non Conventional Routes to ceramics”, Conference “International Ceramics Congress”, June 4-9, 2006, Acireale, Italy
 11. Co-organizer, Symposium “Porous Ceramics”, 31st International Conference & Exposition on Advanced Ceramics and Composites, January 21-26, 2007, Daytona Beach, FL, USA
 12. Lead organizer (session coordinator), Symposium “Porous functional ceramics”, 10th International Conference and Exhibition of the European Ceramic Society, June 17 - 21, 2007, Berlin, Germany
 13. Member, International Program Committee, Conference “Syntactic and Composite Foams II”, August 5-10, 2007, Davos, Switzerland
 14. Lead organizer, Symposium “B26. Highly Porous Metals and Ceramics”, Euromat 2007 - European Congress and Exhibition on Advanced Materials and Processes, September 10-13, 2007, Nuremberg, Germany
 15. Lead organizer, Symposium “Porous Ceramics”, 32nd International Conference & Exposition on Advanced Ceramics and Composites, January 27- February 1, 2008, Daytona Beach, FL, USA
 16. Member, Scientific Advisory Board, Symposium “Porous materials for environmental protection”, Conference “Innovation for sustainable production (i-SUP2008)”, April 22-25, 2008, Brugge, Belgium.
 17. Member, International Organizing Committee, Conference “10th International Conference on Ceramic Processing Science (ICCPS - 10)”, May 25-28, 2008, Inuyama, Aichi, Japan
 18. Member, Advisory Committee, 2nd International Congress on Ceramics” (ICC2), Verona, Italy, 29 June – 4 July 2008
 19. Co-organizer, Special Symposium “Mechanical-Functional Performance of Advanced Composite/Porous Metallic/Ceramic Materials” nel Conference “International Conference on Multi-functional Materials and Structures”, July 28-31, 2008, Hong Kong, China
 20. Member, International Organizing Committee, Conference “3rd International Workshop on Advanced Ceramics: IWAC03 “Innovative ceramics”, November 6-8 2008, Limoges, France.
 21. Lead organizer, Symposium “Porous Ceramics”, 33rd International Conference & Exposition on Advanced Ceramics and Composites, January 24- 29, 2009, Daytona Beach, FL, USA
 22. Lead organizer, Symposium “Polymer-Derived-Ceramics”, PacRim 8, May 31 - June 5, 2009, Vancouver, British Columbia, CA

23. Lead organizer, Symposium “B11 Highly Porous Metals and Ceramics,” Euromat 2009 - European Congress and Exhibition on Advanced Materials and Processes, Glasgow, UK, 7-9 September 2009
24. Member, International Advisory Committee per “Shaping IV” 4th International Conference on Shaping of Advanced Ceramics, Madrid, Spain, November 15-18, 2009.
25. Member, 11th International Conference on Advanced Materials, Rio de Janeiro, Brasil, September 20-25, 2009.
26. Lead organizer, Symposium “Porous Ceramics”, 34th International Conference & Exposition on Advanced Ceramics and Composites, January 24- 29, 2010, Daytona Beach, FL, USA
27. Member, Scientific Advisory Board, Symposium “Materials for sustainable production”, Conference “Innovation for sustainable production (i-SUP2010)”, April 18-21, 2010, Brugge, Belgium.
28. Member, International Advisory Committee. 3rd International Symposium on SiAlONs and Non-Oxides symposium, June 1-4, 2010, Cappadocia, Turkey.
29. Lead organizer, Symposium “Ceramics for Chemical, Electrochemical and Environmental Applications,” 12th International Ceramics Congress (CIMTEC), Montecatini, Italy, 13-18 June, 2010.
30. Member, Advisory Board, 11th International Conference on Ceramic Processing Science Zurich, Switzerland 29th August - 1st September, 2010
31. Member, Scientific Board, 7th Conference on High Temperature Ceramic Matrix Composites, September 20 - 22, 2010, Bayreuth, Germany
32. Member, Programme Committee, Conference “Cellular Materials,” October 27-29, 2010, Dresden, Germany
33. Member, International Scientific Advisory Committee (ISAC), “3rd International Congress on Ceramics” (ICC3), Osaka, Japan, November 14-18, 2010 e Lead co-organizer, Symposium “Porous ceramics for environmental protection and advanced industries”.
34. Lead organizer, Symposium “Porous Ceramics”, 35th International Conference & Exposition on Advanced Ceramics and Composites, January 23- 28, 2011, Daytona Beach, FL, USA
35. Member, International Scientific Committee, Conference “BaltSilica 2011. 5th Baltic Conference on Silicate Materials”, May 23 – 25, 2011, Riga, Latvia.
36. Member, International Program Committee, Conference “Syntactic and Composite Foams III”, May 29 - June 3, 2011, Calabria, Italy.
37. Lead organizer, Topical Symposium “Advancements and Innovation in Polymer-derived Ceramics”, 12th Conference of the European Ceramic Society, June 19-23 2011, Stockholm Sweden.
38. Lead organizer, Symposium “B33 Highly Porous Metals and Ceramics,” Euromat 2011 - European Congress and Exhibition on Advanced Materials and Processes, Montpellier, F, 12-15 September 2011
39. Lead co-organizer, “First China and Italy Bilateral Forum on Materials Science”, November 21-23, 2011, Shanghai, China
40. Lead organizer, Symposium “Porous Ceramics”, 36th International Conference & Exposition on Advanced Ceramics and Composites, January 22- 27, 2012, Daytona Beach, FL, USA

41. Member, Programme Committee, Conference “CellMat 2012”, 7-9 November 2012, Dresden, Germany.
42. Member, International Advisory Committee, International Conference Emergence of New Era in Glass and Ceramics (NEGC 2013), 17-19 January 2013, Ahmedabad, Gujarat, India
43. Lead organizer, Symposium “Porous Ceramics”, 37th International Conference & Exposition on Advanced Ceramics and Composites, January 27- February 1, 2013, Daytona Beach, FL, USA
44. Lead organizer, Symposium 4 “Polymer Derived Ceramics and Composites”, PacRim 10, June 2 – 7, 2013, San Diego, USA
45. Member, International Organization Committee of the International Conference on Ceramic Processing Science 12 (ICCP12), August 4-7, 2013, Portland, Oregon
46. Member, Scientific Committee, 8th Conference on High Temperature Ceramic Matrix Composites (HTCMC-8), September 22 - 26, 2013, Xi'an, China
47. Co-organizer, Symposium 4 “Polymer Derived Ceramics and Composites”, 8th Conference on High Temperature Ceramic Matrix Composites (HTCMC-8), September 22 - 26, 2013, Xi'an, China
48. Member, International Advisory Committee, 8th International Conference on High-Performance Ceramics (CICC-8), November 4 - 7, 2013, Chongqing, China
49. Lead organizer, Symposium “Porous Ceramics”, 38th International Conference & Exposition on Advanced Ceramics and Composites, January 26-31, 2014, Daytona Beach, FL, USA
50. Lead organizer, Symposium CH “Porous Ceramics for Environmental Protection, Energy-related Technologies and Advanced Industrial Cycles,” 13th International Ceramics Congress (CIMTEC), Montecatini, Italy, 8-13 June, 2014.
51. Member, International Advisory Committee, “5th International Congress on Ceramics” (ICC5), Beijing, China, August 17-21, 2014.
52. Member, Scientific Committee, Conference “European Society Glass Conference 2014”, 21-24 September 2014, Parma, Italy.
53. Member, Scientific Committee, Conference “Advanced Ceramics and Applications III: New Frontiers in Multifunctional Material Science and Processing”, 29th September-1st October 2014, Belgrade, Serbia.
54. Member, International Program Committee, Conference “Syntactic and Composite Foams IV”, November 2-7, 2014, Santa Fe, NM.
55. Member, Programme Committee, Conference “CellMat 2014”, 22-24 October 2014, Dresden, Germany.
56. Member, International Organizing Committee, Conference “Energy Materials Nanotechnology,” January 26-29, 2015, Orlando, FL, USA
57. Lead organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 39th International Conference & Exposition on Advanced Ceramics and Composites, January 25-30, 2015, Daytona Beach, FL, USA
58. Member, International Advisory Board, Annual Meeting German Ceramic Society, 15-18 March 2015, Bayreuth, Germany
59. Co-organizer, Symposium “Advanced Nitrides and Related Materials,” 11th International Symposium on Ceramic Materials and Components for Energy and Environmental Applications, 14-19 June 2015, Vancouver, Canada
60. Co-organizer, Symposium “Macroporous Ceramics for Energy and Environmental Applications,” 11th International Symposium on Ceramic Materials and

- Components for Energy and Environmental Applications (CMCEE-11), 14-19 June 2015, Vancouver, Canada
61. Co-organizer, Symposium “Innovative processing and synthesis,” 14th European Ceramic Society Conference, 21-25 June 2015, Toledo, Spain
 62. Co-organizer, symposium “Cellular Solids: Processing, Characterization, Modeling, and Applications,” ASME Applied Mechanics and Materials (McMat 2015) Conference, Seattle, WA, USA, June 29-July 1, 2015
 63. Lead organizer, Symposium S4 “Polymer Derived Ceramics and Composites”, 11th Pacific Rim Conference on Ceramic and Glass Technology, August 30 - September 4, 2015, Jeju, Korea
 64. Co-organizer, Symposium 30 “Ceramics Enabling Environmental Protection: Clean Air and Water”, 11th Pacific Rim Conference on Ceramic and Glass Technology, August 30 - September 4, 2015, Jeju, Korea
 65. Member, Scientific Committee, congress “The International Porous and Powder Materials Symposium and Exhibition” (PPM2015), September 15-18, 2015, Cesme, Turkey.
 66. Co-organizer Symposium “Porous Ceramics” at the 14th International Union of Materials Research Societies-International Conference on Advanced Materials (IURMS-ICAM 2015), October 25-29, 2015, Jeju, Korea.
 67. Member, International Advisory Committee, 9th International Conference on High-Performance Ceramics (CICC-9), November 4-7, 2015, Guilin, China.
 68. Member, International Advisory Committee, “International Conference on Ceramic & Advanced Materials for Energy and Environment (CAMEE2015)”, 13-18/12/2015, Bangalore, India
 69. Lead organizer, World Academy of Ceramics FORUM 2016, 14-17 June 2016, Ravenna, Italy
 70. Member, International Organization Committee of the International Conference on Ceramic Processing Science 13 (ICCP13), May 8-11, 2016, Nara, Japan.
 71. Member, Organizing Committee, Symposium “Macroporous Ceramics for Advanced Applications through Innovative Processing,” Advanced Materials and Technologies for Sustainable Development (GFMAT 2016) Conference, June 26-30, 2016, Toronto, CA.
 72. Lead organizer, Symposium H6 “Polymer Derived Ceramics and Composites”, 9th Conference on High Temperature Ceramic Matrix Composites (HTCMC-9), June 26-30, 2016, Toronto, CA.
 73. Member, International Advisory Board, “6th International Congress on Ceramics” (ICC6), Dresden, Germany, August 21-25, 2016 (e Member, Organizing committee, Symposium “Cellular and porous ceramics”).
 74. Member, International Advisory Committee, “6th international conference on Shaping of Advanced Ceramics” (Shaping VI), Montpellier, France, July 18-20, 2016.
 75. Member, Programme Committee, Conference “CellMat 2016”, 7-9 December 2016, Dresden, Germany.
 76. Lead organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 41st International Conference & Exposition on Advanced Ceramics and Composites, January 23-27, 2017, Daytona Beach, FL, USA

77. Lead organizer, Symposium S4 “Polymer Derived Ceramics (PDCs) and Composites”, 12th Pacific Rim Conference on Ceramic and Glass Technology, May 21-26, 2017, Waikoloa, Hawaii, USA
78. Co-organizer, Symposium S27 “Ceramics for Enabling Environmental Protection: Clean Air and Water”, 12th Pacific Rim Conference on Ceramic and Glass Technology, May 21-26, 2017, Waikoloa, Hawaii, USA
79. Co-organizer, Symposium S7 “Porous Ceramics: Innovative Processing and Advanced Applications”, 12th Pacific Rim Conference on Ceramic and Glass Technology, May 21-26, 2017, Waikoloa, Hawaii, USA
80. Member of the organizing committee of the 15th International Conference on Advanced Materials (IUMRS-ICAM2017), Aug.27-Sep.1, 2017, Kyoto, Japan.
81. Co-organizer, Symposium “New Developments in Processing and Synthesis with a special focus on Additive Manufacturing”, 15th European Ceramic Society Conference, July 2-6, 2017, Budapest, Hungary
82. Member, International Advisory Committee, 10th International Conference on High-Performance Ceramics (CICC-10), November 4 - 7, 2017, Nanchang, China
83. Lead organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 42nd International Conference & Exposition on Advanced Ceramics and Composites, January 20-26, 2018, Daytona Beach, FL, USA
84. Lead organizer, Symposium “Porous Ceramics for Environmental Protection, Energy-related Technologies and Advanced Industrial Cycles,”, 14th International Ceramics Congress (CIMTEC), Perugia, Italy, 4-8 June, 2018.
85. Member, Organizing committee, Symposium “Porous and Cellular Ceramics”, “7th International Congress on Ceramics” (ICC7), Foz do Iguaçu, Brazil June 17-21, 2018.
86. Member, Organizing committee, Symposium “Polymer-derived ceramics development and applications”, “7th International Congress on Ceramics” (ICC7), Foz do Iguaçu, Brazil June 17-21, 2018.
87. Member, International Advisory Board, MSE2018. Sept. 25-27, 2017, Darmstadt, Germany.
88. Member, International Advisory Board, 6th International Symposium on Advanced Ceramics and Technology for Sustainable Energy Applications toward a Low Carbon Society (ACTSEA 2017). Oct. 31 - Nov. 3, 2017, Kaohsiung, Taiwan.
89. Member, Organizing committee, Symposium T3S4 “Porous and Cellular Ceramics: Porosity design and Engineering Applications”, 12th International Conference on Ceramic Materials and Components for Energy and Environmental Applications (CMCEE-12), Singapore July 22-27, 2018.
90. Member, International Scientific Committee, Conference "BaltSilica 2018. 8th Baltic Conference on Silicate Materials", May 30 – June 1, 2018, Riga, Latvia.
91. Lead co-organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 43rd International Conference & Exposition on Advanced Ceramics and Composites, January 27-February 1st, 2019, Daytona Beach, FL, USA
92. Co-organizer, Symposium “Polymer Derived Ceramics and Composites”, 11th International Conference on High-Performance Ceramics (CICC-11), May 23-27, 2019, Kunming, China.
93. Chair, XVI European Ceramic Society conference, Torino 16-20 June, 2019.
94. Co-organizer, Symposium “Advanced Ceramics and Composites Derived from Condensed Molecular Phases for Energy and Environmental Applications”, 2nd

- Global Forum on Advanced Materials and Technologies for Sustainable Development (GFMAT-2), July 21-26, 2019, Toronto, Canada
95. Lead co-organizer, Symposium 9 “Polymer Derived Ceramics and Composites”, 10th Conference on High Temperature Ceramic Matrix Composites (HTCMC-10), September 22-26, 2019, Bordeaux, F.
 96. Co-organizer, Symposium 6 “Additive Manufacturing”, 10th Conference on High Temperature Ceramic Matrix Composites (HTCMC-10), September 22-26, 2019, Bordeaux, F.
 97. Lead organizer, Symposium 9 “Polymer Derived Ceramics (PDCs) and Composites”, 13th Pacific Rim Conference on Ceramic and Glass Technology, October 27-31, 2019, Okinawa, Japan.
 98. Lead organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 44th International Conference & Exposition on Advanced Ceramics and Composites, January 26-31, 2020, Daytona Beach, FL, USA
 99. Co-organizer, Symposium “Additive Manufacturing of Ceramic-based Materials: Process Development, Materials, Process Optimization and Applications,” Materials Science & Technology 2020 (MS&T20), October 4-8, 2020, Pittsburgh, USA.
 100. Co-organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 45th International Conference & Exposition on Advanced Ceramics and Composites, January 24-29, 2021, Daytona Beach, FL, USA
 101. Member International Advisory Committee, 8th International Congress on Ceramics (ICC8), April 25-30, 2021, Busan, Korea.
 102. Lead organizer, Symposium 6, “Additive Manufacturing and 3D Printing Technologies”, 8th International Congress on Ceramics (ICC8), April 25-30, 2021, Busan, Korea.
 103. Co-organizer, Symposium “Additive Manufacturing of Ceramic-based Materials: Process Development, Materials, Process Optimization and Applications,” Materials Science & Technology 2021 (MS&T21), October 17-21, 2021, Columbus, OH, USA.
 104. Co-organizer, Symposium “Preceramic Polymers; Synthesis, Processing, Modeling, and Derived Ceramics,” Materials Science & Technology 2021 (MS&T21), October 17-21, 2021, Columbus, OH, USA.
 105. Member, International Advisory Committee, 12th International Conference on High-Performance Ceramics (CICC-12), November 14-18, 2021, Suzhou, China.
 106. Co-organizer, Symposium C “Polymer-derived Ceramics”, 12th International Conference on High-Performance Ceramics (CICC-12), November 14-18, 2021, Suzhou, China.
 107. Lead organizer, Symposium S5: Polymer Derived Ceramics (PDCs) and Composites, 14th Pacrim, 12-17 December, 2021, Vancouver, Canada.
 108. Co-organizer, Symposium S35: Advanced Additive Manufacturing Technologies for Bio-applications, Materials, Processes, and Systems, 14th Pacrim, 12-17 December, 2021, Vancouver, Canada.
 109. Co-organizer, Symposium S8: Porous Ceramics: Innovative Processing and Advanced Applications, 14th Pacrim, 12-17 December, 2021, Vancouver, Canada.
 110. Co-organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 46th International Conference & Exposition on Advanced Ceramics and Composites, January 24-28, 2022, Daytona Beach, FL, USA

111. Lead organizer, Symposium CH “Porous Ceramics for Environmental Protection, Energy-related Technologies and Advanced Industrial Cycles,” 15th International Ceramics Congress (CIMTEC), Montecatini, Italy, 20-24 June, 2022.
112. Co-organizer, Symposium D “Structural ceramics/Ceramic coatings/Porous ceramics,” XVII European Ceramic Society conference, Krakow, 10-14 July, 2022.
113. Co-organizer, Symposium 2 “Ceramics for Environmental Systems”, 13th International Conference on Ceramic Materials and Components for Energy and Environmental Applications (CMCEE-13), 10-12/6/2022, Wuhan, China.
114. Member, advisory board/scientific committee “Shaping of Advanced Ceramics 8”, September 14-16, 2022, Zurich, CH.
115. Member, Program Committee CellMAT 2022, 12-14/10/2022, Dresden, Germany
116. Co-organizer, Symposium 9 “Porous Ceramics: Novel Developments and Applications”, 47th International Conference & Exposition on Advanced Ceramics and Composites, January 22-27, 2023, Daytona Beach, FL, USA.
117. Co-organizer, Symposium 1 “ Innovative synthesis, ceramic processing and shaping”, XVIII European Ceramic Society conference, Lyon, France, 2-6 July, 2023.
118. Co-organizer, Symposium 03: Polymer Derived Ceramics and Composites, 11th High Temperature Ceramic Matrix Composites (HT-CMC 11), August 27-31, 2023, Jeju, Korea.
119. Co-organizer, Symposium 08: Additive Manufacturing of Ceramics and Composites, 11th High Temperature Ceramic Matrix Composites (HT-CMC 11), August 27-31, 2023, Jeju, Korea.
120. Co-organizer Symposium T8 “Ceramics for environmental and climate protection,” Ceramics 2023, 98th DKG Annual Meeting, 27-30 March 2023, Jena, Germany.
121. Co-organizer, Symposium S8: “Polymer Derived Ceramics (PDCs) and Composites”, 15th Pacrim – CICC-13, 5-9 November, 2023, Shenzhen, China.
122. Co-organizer, Symposium 23: “Geopolymers: Low Energy and Environmentally Friendly Ceramics and Coatings”, 15th Pacrim – CICC-13, 5-9 November, 2023, Shenzhen, China.
123. Co-organizer, Symposium S5: “Advanced Additive Manufacturing Technologies: Materials, Processes, and Systems”, 15th Pacrim – CICC-13, 5-9 November, 2023, Shenzhen, China.
124. Co-organizer, Symposium S25: “Porous Ceramics: From Innovative Processing to Advanced Industrial Applications”, 15th Pacrim – CICC-13, 5-9 November, 2023, Shenzhen, China.
125. Co-organizer, 9th International Workshop on Advanced Ceramics (IWAC09), Limoges, France, September 26-29, 2023.

Invited, Keynote and Plenary speaker

1. 7th European Ceramic Society Conference, Brugge, Belgium (9/9/01 – 13/9/01)
2. The 26th Annual International Conference on Advanced Ceramics & Composites, Cocoa Beach, FL (1/13/02 - 1/18/02)
3. 104th Annual Meeting & Exposition of the American Ceramic Society, St. Louis, MO (4/28/02 - 5/1/02)
4. CREST-International Symposium on SiC/SiC Composite Materials R & D and Its Application to Advanced Energy Systems, May 20-22, 2002, Kyoto, Japan
5. 8th European Ceramic Society Conference, Istanbul, Turkey (29/6/03 – 4/7/03)

6. Materials Week, Munich, Germany (16-18/9/03)
7. Royal Society Discussion on “Engineered Foams and Porous Materials”, London November 1-2, 2004
8. PACRIM-6 Meeting of the American Ceramic Society, September 11-16, 2005, Maui, HI, USA
9. International Conference Porous Ceramic Materials (PCM 2005)”, October 20-21 2005, Brugge, Belgium
10. “Shaping III”, Third International Conference on Shaping of Advanced Ceramics, 10-12 May 2006, Limoges, France
11. CIMTEC 2006 “International Ceramics Congress”, June 4-9 2006, Acireale, Italy
12. 10th European Ceramic Society Conference, Berlin, Germany (June 17-21, 2007)
13. Keynote speaker, Composites at Lake Louise 2007, Lake Louise, AB, Canada (October 28-November 2, 2007)
14. International Symposium “Developments in Ceramic Science and Engineering: The last 50 years,” UCL, London, UK, 10-11/4/2008
15. Keynote speaker, 4th International Symposium on Designing, Processing and Properties of Advanced Engineering Materials (ISAEM-2008), Nagoya, Japan, November 18-21, 2008
16. “Electronic Materials and Applications 2010”, January 20-22, 2010, Orlando, Florida
17. 11th International Conference on Ceramic Processing Science Zurich, Switzerland 29th August - 1st September, 2010
18. 7th Conference on High Temperature Ceramic Matrix Composites, September 20 - 22, 2010, Bayreuth, Germany
19. Keynote speaker, “Nanomat” workshop, 5-6 October 2010, Darmstadt, Germany
20. 3rd International Congress on Ceramics (ICC-3), 14-18 November 2010, Osaka, Japan
21. BaltSilica 2011, 5th Baltic Conference on Silicate Materials, 23-25/5/2011, Riga, Latvia
22. The 33rd Annual International Conference on Advanced Ceramics & Composites, Daytona Beach, FL (22/1/12 - 26/1/12)
23. FORUM 2012, “New Frontiers of Ceramics for Sustainable Society,” World Academy of Ceramics, 29/6-3/7 2012, Perugia, Italy
24. 4th International Congress on Ceramics (ICC-4), 14-18 July 2012, Chicago, USA
25. Cellular Materials 2012, 7-9 November 2012, Dresden, Germany.
26. The Saudi International Advanced Materials Technologies Conference-2012 - Building Materials & Systems, 3-5 December 2012, Riyadh (KSA).
27. International Conference Emergence of New Era in Glass and Ceramics (NEGC 2013), 17-19 January 2013, Ahmedabad, Gujarat, India
28. Plenary speaker, International Porous and Powder Materials Symposium and Exhibition, PPM 2013, Çeşme Izmir, Turkey, 3-6 September 2013.
29. 8th International Conference on High-Performance Ceramics (CICC-8), 4-7 November 2013, Chongqing, China.
30. Keynote speaker, 3rd International Symposium on Ceramics Nanotune Technology (ISCeNT-3), 2-4 March 2014, Nagoya, Japan.
31. Plenary speaker, DKG-Annual Meeting 2014, Symposium on High-performance Ceramic, 24-26 March 2014, Clausthal-Zellerfeld, Germany

32. Plenary speaker, conference “Advanced Ceramics and Applications III: New Frontiers in Multifunctional Material Science and Processing”, 29th September-1st October 2014, Belgrade, Serbia.
33. Cellular Materials 2014, 22-24 October 2014, Dresden, Germany.
34. 40th International Conference and Expo on Advanced Ceramics and Composites (ICACC-40), January 26-29, 2016, Daytona Beach, FL, USA.
35. Plenary speaker, 60th Brazilian Ceramic Congress, May 15-18, 2016, Aguas de Lindoia, Sao Paulo, Brazil.
36. 6th International Congress on Ceramics” (ICC6), Dresden, Germany, August 21-25, 2016.
37. Keynote speaker, 7th International Workshop on Advanced Ceramics (IWAC07), Limoges, September 26-28, 2016.
38. Plenary speaker, VI Congreso Nacional de Pulvimetalurgia y I Congreso Iberoamericano de Pulvimetalurgia, Ciudad Real, Spain, 7-9/6/ 2017.
39. 12th Pacific Rim Conference on Ceramic and Glass Technology, May 21-26, 2017, Waikoloa, Hawaii, USA
40. Keynote speaker, AM Ceramics 2017, 11-12/09/2017, Vienna, Austria
41. Plenary speaker, 10th International Conference on High-Performance Ceramics (CICC-10), November 4 - 7, 2017, Nanchang, China
42. Plenary speaker, DKG Symposium “Porous Ceramics: Manufacturing methods and applications”, 4-5/12/2017, Erlangen, Germany.
43. 42nd International Conference and Expo on Advanced Ceramics and Composites (ICACC-42), January 21-26, 2018, Daytona Beach, FL, USA.
44. 13th International Ceramics Congress (CIMTEC), Perugia, Italy, 4-8 June, 2018.
45. 7th International Congress on Ceramics (ICC7), Foz do Iguaçu, Brazil June 17-21, 2018.
46. Cellular Materials 2018, 24-26 October 2018, Bad Staffelstein, Germany.
47. 2nd Nordic Conference on Ceramic and Glass Technology, 10-11/12/2018, Roskilde, Denmark.
48. Plenary speaker, Conference on Modern Materials and Manufacturing 2019, April 23-26, 2019, Tallinn, Estonia.
49. Plenary speaker, XII Conference of the Polish Ceramic Society, September 12-15, 2019, Zakopane, Poland.
50. 13th Pacific Rim Conference on Ceramic and Glass Technology, October 27 - November 1, 2019, Okinawa, Japan
51. Keynote speaker, 13th Pacific Rim Conference on Ceramic and Glass Technology, October 27 - November 1, 2019, Okinawa, Japan
52. 44th International Conference and Expo on Advanced Ceramics and Composites (ICACC-44), January 26-31, 2020, Daytona Beach, FL, USA
53. 45th International Conference and Expo on Advanced Ceramics and Composites (ICACC-45), February 8-12, 2021
54. Keynote speaker, 2nd Global Forum on Smart Additive Manufacturing, Design & Evaluation (Smart MADE), 10/3 -11/3 2021, Osaka, Japan
55. Workshop on Advanced Polymer-Derived Ceramics, EPFL, CH, 28/4/2021
56. Plenary speaker, 2nd VitroGeoWastes conference (Smart MADE), 23/5-26/5, 2021, Baeza, Spain
57. 14th International Conference on Solid State Chemistry, 13-17/6, 2021, Trenčín, Slovakia

58. 3DK-Web Seminar “Additive Fertigung von Keramik”, 15/6/2021
59. Keynote speaker, 12th International Conference on High-Performance Ceramics (CICC-12), November 19-22, 2021, Suzhou, China
60. 46th International Conference and Expo on Advanced Ceramics and Composites (ICACC-46), January 23-28, 2022, Daytona Beach, FL, USA
61. ACerS-MRS Virtual Workshop – 3D Printing of Ceramics, 12–13/4/2022
62. 13th International Conference on Ceramic Materials and Components for Energy and Environmental Applications (CMCEE-13), 10-12/6/2022, Wuhan, China
63. Plenary speaker, Japan Society of Mechanical Engineers ICM&P 2022 International Conference on Materials & Processing 2022 (ICM&P 2022), 6-10/11/2022, Okinawa, Japan
64. Invited speaker, 47th International Conference & Exposition on Advanced Ceramics and Composites, January 22-27, 2023, Daytona Beach, FL, USA
65. Keynote speaker, 98th DKG Annual Meeting, 27-30 March 2023, Jena, Germany
66. Invited speaker, 15th Pacific Rim Conference of Ceramic Societies (PACRIM15) and 13th International Conference on High-Performance Ceramics (CICC-13), November 5-9, 2023, Shenzhen, China

Seminars given at different institutions

Europe: EMPA (Swiss Federal Laboratories for Materials Testing and Research, Dübendorf, Zurich, CH), Queen Mary and Westfield College, University of London (London, UK); Imperial College of Science, Technology and Medicine (London, UK); Cambridge University (Cambridge, UK); SGL Carbon (Bonn, D); ETH (Zurich, CH); CERAM (Stoke-on-Trent, UK); University of Manchester (Manchester, UK); University College London (London, UK); University of Sheffield (Sheffield, UK); Ecole Polytechnique Federale de Lausanne (EPFL, CH); University of Stockholm (SE); Oxford University (Oxford, UK); BAM (Federal Institute for Materials Research and Testing, Berlin (DE)); TU Bergakademie Freiberg (Freiberg, DE); Polish Academy of Sciences (PL); Aalborg University (DK); Riga Technical University (LV).

USA: Pacific Northwest National Laboratory (WA); Oak Ridge National Laboratory (TN); Rennslear Politechnic Institute (NY); The Pennsylvania State University (PA); NASA Ames Research Center (CA); University of Central Florida (Orlando, FL); Drexel University (Philadelphia, PA); Purdue University (West Lafayette, IN); California Institute of Technology (CA); GE Global Research (Niskayuna, NY); Medtronic (Minneapolis, MN); Corning (Corning, NY); Dow Chemical (Midland, MI); Dow Corning (Midland, MI); Morgan Advanced Materials (State College, PA); Clemson University (Clemson, SC).

Asia: AIST (National Institute of Advanced Industrial Science and Technology, Nagoya, Japan); Nagoya Institute of Technology (Japan); Shanghai Institute of Ceramics, Chinese Academy of Sciences (Shanghai, China); Institute of Aeronautical Materials, Beijing (China); Northwestern Polytechnical University (Xi'an, China); National University of Defence Technology (Changsha, China); China University of Geosciences Beijing, Beijing (China); Harbin Institute of Technology, Harbin (China); Beijing Institute of Technology, Beijing (China); Tsinghua University, Beijing (China).

Rest of the world: Federal University of Sao Carlos (Sao Carlos, SP, Brazil); Federal University of Santa Catarina (UFSC, Brazil); Technion Israel Institute of Technology (Haifa, Israel); King Abdullah University of Science and Technology (KAUST, KSA).

Other

- Member EPSRC (Engineering and Physical Sciences Research Council) Peer Review College (2006-2009; 2010-2013, 2014-2017, 2018-2021, 2022-2025)
- Secretary-Treasurer of the International Ceramic Federation (ICF) (2018-2021)
- President Elect of the International Ceramic Federation (ICF) (2021-2022)
- President of the International Ceramic Federation (ICF) (2022-2024)
- Member, International Board of Advisors of the Young Ceramists Additive Manufacturing Forum (ECerS) (from 2016)
- Corresponding Member, International Institute for the Science of Sintering (IISS)
- International Advisory Member, Japan Additive Manufacturing Society (JAMS)
- Member, Centre for Materials Research of University College London (http://www.cmr.ucl.ac.uk/webpages/directory/people_pages/colombo_paolo.htm)
- Member, PhD committee: Università di Padova (I); Università di Trento (IT); Università di Bologna (IT); Università di Trieste (IT); Università di Udine (IT); Politecnico di Torino (IT); Queen Mary and Westfield College, University of London (UK); University College London, University of London (UK); ETH Zurich (CH); EPFL Lausanne (CH); University of Limoges (FR); University of Montpellier (FR); Institut National des Sciences Appliquées de Lyon (FR); Bremen University (DE); Technical University Clausthal (DE); Oulu University (FI); University of Melbourne (AU); University of Madras (IN); Federal University of Sao Carlos (BR); Federal University of Santa Catarina (BR); Northwestern University (US); The Pennsylvania State University (US); Technical University Freiberg (DE); Technical University Berlin (DE); Aalborg University (DK); Swinburne University of Technology (AU); Tallinn University of Technology (EE); Shandong University (CN); Université Polytechnique Hauts-de-France (FR); Hebrew University (IL);
- Member, Faculty of the Graduate School of The Pennsylvania State University, USA
- President, Consiglio di Corso di Laurea in Ingegneria dei Materiali, Università di Padova (2/2008-30/9/2011)
- Head, Phd school in Industrial Engineering, Università di Padova (2012-2020)
- Member, Managing Board, Stazione Sperimentale del Vetro, Murano (VE), (2013-2017)
- Member, Technical Board, Stazione Sperimentale del Vetro, Murano (VE), (2018-current)
- Member, ACerS Publications Committee (2013-2017), ACerS Presidential International Advisory Group, del ECD International Committee, ACerS book committee (2011-14), ACerS Kingery Award committee (2011-13), Nominating committee (2016-2019), Edward Orton Jr. Memorial Lecture Committee (2016-2019)
- Panel reviewer for DFG 2011 Priority Programme 1568 “Design and Generic Principles of Self-healing Materials”, March 2011
- Chair, International Advisory Panel for the project “Materials Systems for Extreme Environments”, EPSRC Grant (2012-2017)
- Member, World Academy of Ceramics Advisory Board (2014-17), (2018-2021), (2022-2025)
- INFN-LNL associate (2020-current)
- Reviewer for papers for: Journal of the American Ceramic Society; Journal of the European Ceramic Society; Chemistry of Materials; Journal of Sol-Gel Science and Technology; Journal of Materials Science; Journal of Hazardous Materials; Industrial

and Engineering Chemistry Research; Journal of Applied Polymer Science; Advanced Engineering Materials; Advanced Materials; Materials Science and Engineering; NanoLetters; Composite Science and Technology; Ceramics International; Advances in Applied Ceramics; Materials Letters; Scripta Materialia; Acta Materialia; Physics and Chemistry of Solids; Journal of Bioactive and Compatible Polymers; Journal of the Royal Society Interface; Journal of the Royal Society Interface Focus; International Journal of Applied Ceramic Technology; Journal of Materials Processing Technology; Glass Technology: The European Journal of Glass Science & Technology Part A; Journal of Porous Materials; Journal of the American Chemical Society; e-Polymers; Macromolecular Rapid Communications; Microporous and Mesoporous Materials; Materials; Biomedical Materials; Journal of Ceramic Science and Technology; Bubble Science, Engineering and Technology; Carbon; Thin Solid Films; Materials Chemistry and Physics; Advances in Materials Science and Engineering; Angewandte Chemie; MRS Bulletin; Nature Materials; ACS Applied Materials & Interfaces; Energy Technology; Reactive and Functional Polymers; Reviews in Chemical Engineering; Arabian Journal for Science and Engineering; Scientific Reports; Langmuir; Journal of Materials Chemistry A; Science; Journal of Advanced Ceramics; Nature Communications

- Reviewer for research projects for: Università di Trento; National Science Foundation; Air Force Office for Scientific Research; Academy of Sciences of the Czech Republic; Engineering and Physical Sciences Research Council (UK), German Research Foundation (DFG); Swiss Competence Center Energy and Mobility (CCEM); Portuguese Foundation for Science and Technology; Latvian Science Council; Agence Nationale de la Recherche (ANR, F); Linz Institute of Technology; National Center of Science and Technology Evaluation (Kazakhstan); PAZY Foundation (IL); Polish National Science Center; The Royal Society (UK); Czech Science Foundation; European Research Council; Austrian Science Fund
- Member, ERC Advanced Grants evaluation panel (2022-2023)
- h index Google Scholar (accessed 11/3/2023) = 72; Citations = 19779; h index Scopus (accessed 22/2/2023) = 62; Citations = 14872.
- ORCID ID: 0000-0001-8005-6618
- Scopus Author ID: 7202984554
- ResearcherID: D-5112-2014

Membership

- Member, American Ceramic Society (ACerS), Società Ceramica Italiana, Associazione Italiana di Ingegneria dei Materiali (AIMAT), Institute of Materials, Minerals and Mining (IOM3), RILEM (International Union of Laboratories and Experts in Construction Materials, Systems and Structures), World Academy of Ceramics (WAC), European Academy of Sciences (EurASc). He was member of the Materials Research Society (MRS).

Teaching

- “Glass Science and Technology” (Ingegneria dei Materiali, LM, Università di Padova), since 2014
- “Scienza e Tecnologia del Vetro” (Ingegneria dei Materiali, LM, Università di Padova), 2002-2013

- “Vetri” (Ingegneria Chimica, Ingegneria dei Materiali, LS, Università di Padova), 1994-2001
- Corso di Specializzazione in “Ingegneria del Vetro” (Università di Padova), 1995-1998
- “Chimica e Chimica Applicata” (Ingegneria Civile LT, Università di Padova), since 2008
- “Tecnologia dei Materiali e Chimica Applicata” (Ingegneria Civile LT, Università di Padova), 2005, 2006, 2007
- “Materiali” (Ingegneria Chimica LT, Università di Padova), 2006, 2007
- “Tecnologia dei Materiali e Chimica Applicata” (Ingegneria Civile LT, Università di Bologna), 1998-2005
- “Materiali” (Ingegneria Meccanica LT, Università di Bologna), 2002-2005
- “Laboratorio di Materiali” (Ingegneria Civile LT, Università di Bologna), 2003-2005
- Corso di Master “Ingegneria Ceramica” (Università di Bologna), 1998-2009
- Corso di Master “Nanotechnologies” (Università di Venezia), 2005-2009

Papers published in peer-reviewed Journals

- 1) A. Maddalena, M. Guglielmi, A. Raccanelli, P. Colombo, “Influence of the dipping coating procedure on the mechanical strength of soda-lime glass rods”. *J. Non-Cryst. Solids*, **100** (1988) 461-465
- 2) M. Guglielmi, P. Colombo, S. Zenezini, “Influence of the H₂O/TEOS ratio on the preparation of SiO₂ thin coatings by the sol-gel dipping method”. *Mat. Chem. and Phys.*, **23** (1989) 453-463
- 3) M. Guglielmi, P. Colombo, “Crystallization of amorphous systems of iron and titanium oxides”. *Ceram. Acta*, **3** (1989) 19-29
- 4) G. Principi, A. Gupta, M. Guglielmi, P. Colombo, “Mössbauer structural investigation of Fe₂O₃-TiO₂ gels”. *Hyper. Inter.*, **56** (1990) 1717-1722
- 5) C. Pegoraro, S. Manoli, M. Guglielmi, P. Colombo, “Impregnation of ceramic rollers with ZrO₂ sol-gel solutions: preliminary investigations”. *Interceram*, **54** (1989) 567
- 6) M. Guglielmi, G. Scarinci, D. Festa, P. Colombo, “Thin films deposited on flat glass by the dip-coating method for the modification of transmission in the near-UV region”. *Mat. Eng.*, **3** (1990) 1123-1127
- 7) P. Colombo, M. Guglielmi and S. Enzo, “Thermal evolution of Fe₂O₃-TiO₂ sol-gel thin films” *J. Eur. Cer. Soc.*, **8** (1991) 383-388
- 8) P. E. Bagnoli, M. Guglielmi and P. Colombo, “Alkaline ion sensitivity of insulator-silicon structures with glass membranes prepared by the sol-gel technique”. *J. Mater. Sci. Letters*, **10** (1991) 1129-1131
- 9) C. Cantale, S. Castelli, A. Donato, D. M. Traverso, P. Colombo and G. Scarinci, “A borosilicate glass for the Italian high level waste. Characterization and behavior”. *Rad. Waste Manag. and the Nuclear Fuel Cycle*, **16** (1991) 25-47
- 10) M. Guglielmi, P. Colombo, F. Peron and L. Mancinelli degli Esposti, “Dependence of thickness on the withdrawal speed for SiO₂ and TiO₂ coatings obtained by the dipping method” *J. Mater. Sci.*, **27** (1992) 5052-5056
- 11) L. Armelao, P. Colombo, G. Granozzi and M. Guglielmi, “SiO₂-TiO₂ sol-gel coatings: a surface study by X-ray photoelectron spectroscopy” *J. Non-cryst. Solids*, **139** (1992) 198-204

- 12) M. Guglielmi, P. Colombo, G. Battaglin, A. Boscolo-Boscoletto, A. De Battisti, and V. Rigato, "Compositional and microstructural characterization of RuO₂-TiO₂ catalysts synthesized by the sol-gel method" *J. Electrochem. Soc.*, **6** (1992) 1655-1661
- 13) M. Guglielmi, P. Colombo, G. Battaglin, P. Mazzoldi, A. De Polo, A. Boscolo-Boscoletto and G. Granozzi, "Nitridation of SiO₂-TiO₂ sol-gel coatings by ammonolysis and ion implantation" *J. Non-Cryst. Solids*, **147&148** (1992) 451-456
- 14) M. Guglielmi, P. Colombo, L. Mancinelli degli Esposti, G. Righini, S. Pelli and V. Rigato, "Characterization of laser-densified sol-gel films for the fabrication of planar and strip optical waveguides" *J. Non-Cryst. Solids*, **147&148** (1992) 641-645
- 15) M. Guglielmi, D. Festa, P. C. Innocenzi, P. Colombo and M. Gobbin, "Borosilicate coatings on mild steel". *J. Non-Cryst. Solids*, **147&148** (1992) 474-477
- 16) P. C. Innocenzi, M. Guglielmi, M. Gobbin and P. Colombo, "Coating of metals by the sol-gel dip-coating method". *J. Eur. Cer. Soc.*, **10** (1992) 431-436
- 17) P. Colombo, T. E. Paulson and C. G. Pantano, "Conversion of silicone resin to silicon (oxy)carbide". *Ceram. Acta*, **3** (1993) 13-21
- 18) G. Della Mea, V. Rigato, R. Dal Maschio, C. Sighel and P. Colombo, "Electrically conducting Pb_yO_x-SiO₂ glass films deposited by reactive Radio Frequency Magnetron Sputtering". *J. Am. Ceram. Soc.*, **76[12]** (1993) 2930-2932
- 19) G. Della Mea, V. Rigato, P. Colombo, R. Dal Maschio, C. Sighel, S. Zandolin and P. Moses, "Silicate glass films deposited by reactive r. f. magnetron sputtering: electrical characterization". *Thin Solid Films*, **241** (1994) 25-29
- 20) P. Colombo, T. E. Paulson and C. G. Pantano, "Atmosphere effects in the processing of silicon carbide and silicon oxycarbide thin films and coatings". *J. Sol-Gel. Sci. &Tech.*, **2** (1994) 601-604
- 21) M. Guglielmi, P. Colombo, G. Brusatin, G. Facchin and M. Gloria, "New materials based on the reaction of cyclo- and poly-(organo phosphazenes) with SiO₂, TiO₂ and ZrO₂ precursors". *J. Sol-Gel. Sci. &Tech.*, **2** (1994) 109-114
- 22) L. Armelao, G. Granozzi, E. Tondello, P. Colombo, G. Principi, P. P. Lottici and G. Antonioli, "Nanocrystalline α -Fe₂O₃ sol-gel thin films: a microstructural study". *J. Non-Cryst. Solids*, **192&193** (1995) 435-438
- 23) J. C. Pivin, P. Colombo and M. Tonidandel, "Ion irradiation of preceramic polymers thin films", *J. Am. Ceram. Soc.*, **79** (1996) 1967-1970
- 24) C. Anderson, G. W. Arnold, K. Bange, F. Baucke, P. Colombo, G. Della Mea, J. C. Dran, G. Emiliani, F. Geotti Bianchini, H. Kawahara, P. Lehede, A. Maddalena, A. S. Manocha, H. J. Matzke, H. Matsumoto, P. Mazzoldi, M. Noshiro, P. Polato, G. Principi, V. Rigato, "Characterization of tin oxide films by complementary techniques", *Glass Technology*, **37** (1996) 204-210
- 25) J. C. Pivin and P. Colombo, "Mechanism of silica-metal mixing by ion irradiation", *Nuclear Instruments and Methods in Physics Research B*, **120** (1996) 345-350
- 26) J. C. Pivin and P. Colombo, "Conversion of inorganic-organic polymers to ceramics by ion implantation", *Nuclear Instruments and Methods in Physics Research B*, **120** (1996) 262-265
- 27) L. Armelao, A. Armigliato, R. Bozio and P. Colombo, "Sol-gel processing of nanocrystalline haematite thin films", *J. Mater. Res.*, **12** (1997) 1441-1444

- 28) E. Pippel, J. Woltersdorf, P. Colombo and A. Donato, "Structure and composition of interlayers in joints between SiC bodies", *J. Eur. Ceram. Soc.*, **17** (1997) 1259-1265
- 29) P. Colombo, T. E. Paulson and C. G. Pantano, "Synthesis of Silicon Carbide thin films with polycarbosilane (PCS)", *J. Am. Ceram. Soc.*, **80** (1997) 2333-2340
- 30) G. Rizza, F. Garrido, J. C. Pivin, J. C. Dran, L. Thomé, M. Guzzo, L. Tapfer, A. Quaranta, P. Colombo, "Ion-beam mixing of metal-insulator multilayers: a promising technique for the formation of metallic nanophases", *Nuclear Instruments and Methods in Physics Research B*, **127-128** (1997) 574-578
- 31) V. Rigato, M. Spolaore, F. Giorgis, L. E. Depero, L. Sangaletti, P. Colombo, "Microstructure and physical properties of $B_xN_y(O_zH_k)$ coatings deposited by r. f. unbalanced magnetron sputtering", *Surf. Coat. Technol.*, **97** (1997) 582-589
- 32) J. C. Pivin and P. Colombo, "Ceramic coatings by ion irradiation of polycarbosilanes and polysiloxanes. Part I: Conversion mechanism", *J. Mater. Sci.*, **32** (1997) 6163-6173
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