

CURRICULUM VITAE

Christian Mitterer

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Academic background

1981 – 1987	Study of Materials Science at Montanuniversität Leoben, Austria
1987	Graduation to Master of Science, Montanuniversität Leoben, Austria
1994	Promotion to Ph.D., with distinction, Montanuniversität Leoben, Austria
2000	Habilitation in Surface Engineering and appointment as associate Professor, Montanuniversität Leoben, Austria
2011	Appointment as full Professor for Functional Materials and Materials Systems, Montanuniversität Leoben, Austria

Employment background

1986 – 1988	Project engineer at Metallwerk Plansee, Reutte, Austria
1988 – 1994	ph.d. student at the Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Austria
1994 – 2000	Assistant Professor at the Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Austria
1999 –	Key Researcher in Surface Engineering at the Materials Center Leoben, Austria
2000 - 2011	Associate Professor in Surface Engineering at the Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Austria
2002 – 2016	Vice-head of the Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Austria
2004 – 2011	Head of the Christian-Doppler-Laboratory for Advanced Hard Coatings at the Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Austria
2005 – 2012	Scientific head of the Research Project Cluster NANOCOAT “Development of Nanostructured Coatings for the Design of Multifunctional Surfaces” of the Austrian NanoInitiative
2006 –	Head of the nanoSurfaceEngineering Center at the Montanuniversität Leoben
2009 – 2017	Scientific head of the Area 2 „Multiscale Materials Design“ at the Materials Center Leoben, Austria
2011 –	Full Professor in Functional Materials and Materials Systems, Montanuniversität Leoben
2016 – 2018	Head of Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben
2019 –	Head of Department of Materials Science, Montanuniversität Leoben
2019 –	Chair of the Senate of Montanuniversität Leoben

Areas of Research

Design and synthesis of functional coatings, thin films and nanoparticles; Physical vapor deposition; Hard coatings for tools and components; Thin films for microelectronics and displays; Functionalized nanoporous carbons for energy and environmental applications

Publications

More than 400 publications, about 340 of them in reviewed journals, 10 invited reviews, 5 patents, 11 edited conference proceedings and special journal issues, more than 85 invited lectures

Citation statistics

Number of citations: >11,000
H-index: 55
Source: <https://publons.com/researcher/1748617/christian-mitterer/>

Honors and Awards

1988	Eduard Wallnofer Award of the county of Tyrol for research in the field of ultrahard coatings
1991	Rudolf Posselt Travel Award of the Montanuniversität Leoben
1995	Josef Krainer Award of the county of Styria for research in the field of surface engineering
1998	Award for Significant Contributions to the International Conference on Metallurgical Coatings and Thin Films, San Diego, CA
2001	Honorary Viking in Tribology presented by the Ångström Laboratory, University of Uppsala, Sweden
2001	Erich Schmid Award of the Austrian Academy of Sciences for research in the field of physical vapour deposition
2002	Hans Malzacher Award of the Austrian Society for Metallurgy and Materials for research in the field of surface engineering
2005	Research Award for Nanoscience and Nanotechnology of the Country of Styria for research in the field of nanostructured multifunctional coatings
2007	Dr. Wolfgang Houska Award (2nd Rank) for the project New high-speed steel with high-temperature coating
2009	Herbert Depisch Award of the Austrian Society for Metallurgy and Materials editing the special issue on "Materials research at the Montanuniversität Leoben", Berg- und Hüttenmännischen Monatshefte (issue 07/2008)
2012	Fellow of the American Vacuum Society for seminal contributions to the material science of novel wear-resistant coatings of transition metal borides, nitrides, oxides, and their composites
2016	Corresponding member of the Division of Mathematics and Natural Sciences of the Austrian Academy of Sciences
2020	R.F. Bunshah Award and Honorary Lecture at the International Conference for Metallurgical Coatings and Thin Films, San Diego, CA, USA
2020	Dr. Wolfgang Houska Award (2nd Rank) for the project Unbreakable flexible electronics

2020 DGF (German Research Foundation) Mercator Fellow for the SFB-TR 87 Pulsed High-Power Plasmas for the Synthesis of Nanostructured Functional Layers

Memberships

1989 – American Vacuum Society AVS
1997 – Austrian Vacuum Society ÖGV
1998 – Vacuum Metallurgy Division of the International Union for Vacuum Science, Techniques and Applications IUVSTA
2002 – Austrian Society for Metallurgy and Materials ASMET

Professional society activities

1997 – Reviewer for international scientific journals (e.g. Acta Materialia, Advanced Engineering Materials, Advanced Functional Materials, Applied Physics Letters, Coatings, Intermetallics, Journal of Applied Physics, Journal of Materials Research, Journal of Physics D: Applied Physics, Journal of Vacuum Science and Technology A, Materials Science and Engineering A, Nanomaterials, Philosophical Magazine, Plasma Processes and Polymers, Scripta Materialia, Surface and Coatings Technology, Thin Solid Films, Tribology Letters, Vacuum, Wear)

2002 – Member of the Editorial Board of the journal Surface and Coatings Technology (Elsevier)

2010 – Member of the scientific board of the journal Berg- und Hüttenmännische Monatshefte (Springer)

2005 – 2007 Vice-President of the Austrian Vacuum Society

2008 – 2013 President of the Austrian Vacuum Society

2013 – Vice-President of the Austrian Vacuum Society

2005 – 2007 Secretary of the Surface Engineering Division, International Union for Vacuum Science, Techniques and Applications

2008 – 2010 Vice-Chair of the Surface Engineering Division, International Union for Vacuum Science, Techniques and Applications

2011 – 2013 Secretary of the Surface Engineering Division, International Union for Vacuum Science, Techniques and Applications

2008 – 2009 Officer and Executive Committee Member, Advanced Surface Engineering Division of the American Vacuum Society

2009 – Chair of the Policy and Procedures Committee, Advanced Surface Engineering Division of the American Vacuum Society

2009 – 2013 Member of the Management Committee of the COST Action MP0804: Highly Ionised Pulse Plasma Processes

2012 Chair-elect of the Advanced Surface Engineering Division, American Vacuum Society

2013 Chair of the Advanced Surface Engineering Division, American Vacuum Society

2014 Chair of the Nominations Committee, Advanced Surface Engineering Division of the American Vacuum Society

2017 – Sponsorship Chair, Advanced Surface Engineering Division of the American

	Vacuum Society
2018 – 2019	Officer and Executive Committee Member, Advanced Surface Engineering Division of the American Vacuum Society
2018 –	Member of the Editorial Board of the Journal Nanomaterials (MDPI)
2019 –	Member of the Editorial Board of the Journal Coatings (MDPI)
2021 –	Member of the Senate of the Christian Doppler Society

Organisation of scientific conferences

1997	Proceedings Editor at International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
1998	Proceedings Editor at International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
1999 – 2001	Chair of the Session on Decorative Coatings, International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
2000	Proceedings Editor at International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
2001	Proceedings Editor at International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
2001	Member of the Scientific Committee of the Protective Coatings Symposium, Spring Meeting of the European Materials Research Society, Strasbourg, France
2001	Member of the Program Committee of the International Vacuum Congress, San Francisco, CA, USA
2002	Member of the Program Committee and Proceedings Editor of the Joint Vacuum Conference, Seggau, Austria
2002	Member of the Scientific Committee of the IUVSTA Workshop on Mechanisms of Formation and Applications of Hard Nanostructured Coatings, Plzeň, Czech Republic
2003	Chair of the Session Hard and Multifunctional Nano-Structured Coatings, International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
2003	Member of the Scientific Committee of the Protective Coatings Symposium, Spring Meeting of the European Materials Research Society, Strasbourg, France
2004	Chair of the Symposium Hard Coatings and Vapor Deposition Technology, International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
2004	Member of the Program Committee of the International Vacuum Congress, Venice, Italy
2004	Member of the Program Committee of the Joint Vacuum Conference, Portoroz, Slovenia
2004	Member of the International Scientific Committee of the Workshop for Surface Engineering for Hard Coatings, Avila, Spain
2005	Member of the International Program Committee of the 1 st International Conference on Heat Treatment and Surface Engineering of Tools and Dies, Pula, Croatia
2005	Member of the Scientific Committee of the Protective Coatings Symposium, Spring Meeting of the European Materials Research Society, Strasbourg,

France

- 2005 Program Chair of the International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
- 2006 General Chair of the International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
- 2006 Member of the Technical and Scientific Committee of the Congress 2006, International Federation for Heat Treatment and Surface Engineering and Surface Modification Technologies, Vienna, Austria
- 2007 Member of the Program Committee of the International Vacuum Congress, Stockholm, Sweden
- 2007 General Chair of the International Symposium on Reactive Sputter Deposition, Leoben, Austria
- 2008 Co-organizer of the CISM Summer School on Mechanical Size-Effects of Materials: Processing, Characterization and Modeling, Udine, Italy
- 2008 Member of the International Program Committees of the 2nd International Conference on Heat Treatment and Surface Engineering of Tools and Dies, Bled, Slovenia
- 2009 Member of the International Liaison Board of the Plansee Seminar, Reutte, Austria
- 2010 Member of the Program Committee of the International Vacuum Congress, Beijing, China
- 2010 Member of the Advisory Committee of the European Conference on Nanofilms, Liège, Belgium
- 2010 Member of the Advisory Board of the Symposium on Ceramic Thin Films and Coatings for Protective, Tribological and Multifunctional Applications, 12th International Ceramics Congress CIMTEC 2010, Montecatini Terme, Italy
- 2011 Member of the International Advisory Board of the International Symposium on Surface Treatments, Istanbul, Turkey
- 2011 Member of the International Programme Committees of the 3rd International Conference on Heat Treatment and Surface Engineering of Tools and Dies, Wels, Austria
- 2011 – 2012 Chair of the Session Application-oriented Design of Hard Coatings, International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
- 2012 Principal Organizer and Proceedings Editor of the Symposium U on Carbon- or Nitrogen-Containing Nanostructured Thin Films, Spring Meeting of the European Materials Research Society, Strasbourg, France
- 2012 Program Chair of the Advanced Surface Engineering Sessions, American Vacuum Society Symposium, Tampa, FL
- 2013 Member of the Scientific Committee of the Symposium S on Protective Coatings and Thin Films, Spring Meeting of the European Materials Research Society, Strasbourg, France
- 2013 Member of the International Liaison Board of the Plansee Seminar, Reutte, Austria
- 2013 Program Chair of the Advanced Surface Engineering Sessions, American Vacuum Society Symposium, Long Beach, CA, USA
- 2014 Organizer of the 72th IUVSTA Workshop on Plasma-assisted Vapour Deposition of Oxide Thin Films and Coatings, Seggau, Austria
- 2014 Member of the Scientific Committee of the International Surface Treatment

- Symposium, Istanbul, Turkey
- 2015 Member of the Scientific Committee of the Asian-European International Conference on Plasma Surface Engineering, Jeju Island, Korea
- 2016 Program Chair of the International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
- 2017 Member of the International Liaison Board of the Plansee Seminar, Reutte, Austria
- 2017 General Chair of the International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA
- 2018 Member of the Advisory Board of the Symposium on Ceramic Thin Films and Coatings for Protective, Tribological and Multifunctional Applications, 14th International Ceramics Congress CIMTEC 2018, Perugia, Italy
- 2018 Member of the Advisory Board of the International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany
- 2018 Organizer of the 85th IUVSTA Workshop on Nanoporous Materials on Green Energy Conversion and Storage, Seggau, Austria
- 2019 Member of the International Scientific Committee of the Symposium on Nano-engineered Coatings and Thin Films: From Design to Applications, Spring Meeting of the European Materials Research Society, Nice, France
- 2020 Member of the Advisory Board of the International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany
- 2022 Member of the Advisory Board of the Symposium on Ceramic Thin Films and Coatings for Protective, Tribological and Multifunctional Applications, 15th International Ceramics Congress CIMTEC 2022, Montecatini Terme, Italy
- 2022 Member of the International Liaison Board of the Plansee Seminar, Reutte, Austria
- 2022 Member of the Advisory Board of the International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany