



Chemical nanotechnology: From molecules to applications (Keynote lecture, Session B1)

Sanjay Mathur,

Research areas

- Synthetic Inorganic and Metal-organic Chemistry
- Materials Chemistry and Chemical Nanotechnologies
- Molecular Routes to Nanosized Particles, Wires and Films
- Biocompatible and Inorganic-Organic Hybrid Materials/Surfaces
- Chemical Vapor Deposition, Sol-Gel and Hydrothermal Techniques
- Nanocomposites for Gas Sensing, Optical and Magnetic Applications

Education

- Habilitation, Chemical Synthesis of Nanostructured Materials, 2004
Saarland University, Saarbrücken, Germany
- Doctor of Philosophy (Ph. D.), Inorganic Chemistry, 1993
Chemical Laboratories, University of Rajasthan, Jaipur, India
- Master of Science (M. Sc.), Physical Chemistry, 1988
School of Chemical Sciences, Vikram University, Ujjain, India

Employment (academia and industrial)

- Professor Inorganic Chemistry, Würzburg University (Since August 2006)
- Head, CVD Division, Leibniz-Institute of New Materials, Saarbrücken (Since May 2002)
- Senior Staff Scientist, Saarland University, Saarbrücken, (1999 – April 2002)
- Staff Scientist, Institute of Inorganic Chemistry, Saarland University, Saarbrücken (1996-99)
- Alexander von Humboldt Fellow (1994-96), Saarland University, Saarbrücken.
- R & D Panacea Pharmaceuticals Limited, New Delhi, India (1993 – March 1994)

Professional affiliations and community service

- American Chemical Society – Materials Research Society – Electrochemical Society
- American Ceramic Society – German Chemical Society – German University Association
- Referee for a number of leading chemistry and materials science journals
- Member of the International Editorial Board of Ceramics International
- Member of the Editorial Board, International Journal of Nanotechnology
- Associate Editor, Nanomaterials
- Scientific Consultant to ItN Nanovation Ltd. Saarbrücken, Germany and Terahertz Photonics, Edinburgh, United Kingdom

- Member of the Inorganic Chemistry Division of IUPAC for the period 2004-07
- Member of the Advisory Board of several International Conferences
- Member of the ECD Awards Committee of the American Ceramic Society

Awards, scholarships and prizes

- First Prize for the Best Technical Presentation in the American Ceramic Society Meeting, Advanced Ceramics for the New Millennium, Florida, 2002
- Young Observer Prize of IUPAC, 2003

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