

Contact

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Top Skills

Nanotechnology

Nanomaterials

Heterogeneous Catalysis

Languages

Malayalam

Japanese

English

German

Hindi

Tamil

Honors-Awards

Scopus Young Researcher of the Year 2014

JSPS Senior Invitation Fellow

Fellow of Royal Society of Chemistry

Fellow of Maharashtra Academy of Sciences

Wilhelm Friedrich Bessel Award

Publications

See the list of publications in the link given below:



Prof. Ajayan Vinu

Director, Global Innovative Center for Advanced Nanomaterials (GICAN) Global Innovation Chair Professor, Univ. Newcastle Callaghan, New South Wales, Australia

Summary

Prof. Vinu is currently working as the Director of the Global Innovative Center for Advanced Nanomaterials (GICAN) and Global Innovation Chair Professor at the University of Newcastle, Newcastle, Australia. Before that, he worked as a Professor at UniSA (2015 to 2017) and UQ, Australia (2011 to 2015) and as a senior researcher at NIMS, Japan since 2006 after he completed two years of the ICYS fellowship at NIMS and a few years of research at the TUK, Kaiserslautern, Germany. Prof. Vinu has made a tremendous contribution to the field of nanoporous materials, including nanoporous carbon nitrides, nanocarbons, 1D, 2D and 3D advanced nanostructures, and their applications in energy storage and conversion, CO₂ capture and conversion, sensing and drug delivery. His team is also actively working in the field of hydrogen generation, storage and utilization using advanced nanomaterials and Australian-based naturally available nanomaterials, including halloysite nanoclays.

The quality of his research has been recognised with several international awards including CNR Rao Lectureship Award 2019, SPARC Award 2019, CRSI Medal 2018, Scopus Young Researcher Award 2014, Friedrich Wilhelm Bessel Award by the Humboldt Society (2010), JSPS Senior Invitational Fellow 2014, Australian Future Fellowship (Professorial Level) 2010, Indian Society for Chemists and Biologists award for excellence 2010, Catalysis Society of India Young Scientist award 2010, Chemical Society of Japan Award for the Young Scientist 2008, and Khwarizmi International Award 2008. Prof. Vinu is honoured with a fellow of the Royal Society of Chemistry (RSC), Royal Australia Chemical Institute (RACI), World Academy of Ceramics (WAC), World Academy of Art and Science, Asia Pacific Academy of Materials, Indian Chemical Society, and Maharashtra Academy of Science.

His contribution to the field of nanoporous materials is reflected by his international ranking as per the database created by Stanford University in 2020. He has been ranked No 6th in Australia among

the Top 2% of scientists in the field of “Materials”. His contributions led to ca. 540 papers with ca. 34,500 citations and an H-index of 96. The impact of his research culminating in multiple reports of world’s first mesoporous CN, boron nitrides, boron carbon nitrides, biomolecules and fullerenes engineered through innovative polymeric chemistry and nanotemplating technologies. The high impact of his science is reflected by more than 19 highly cited papers and 32 patents. He received >\$25 M AUD from both industry and government funding agencies.

Experience

University of Newcastle

Global Innovation Chair Professor and Director, Global Innovative Center for Advanced Nanomaterials
October 2017 - Present (6 years 8 months)
Newcastle, Australia

University of South Australia

Professor of Nanomaterials
October 2015 - October 2017 (2 years 1 month)
Mawson Lake Campus

Research, Teaching, Supervision, International Linkage, Industry Collaboration

The University of Queensland

4 years 1 month

Professor and ARC Future Fellow (Professorial Level)
September 2011 - September 2015 (4 years 1 month)
<http://www.aibn.uq.edu.au/ajayan-vinu>

Research, Teaching and Supervision

Professor and ARC Future Fellow

September 2011 - September 2015 (4 years 1 month)
Research; teaching; mentoring

National Institute for Materials Science

Senior Scientist
January 2004 - September 2011 (7 years 9 months)
Research on nanoporous materials and fuel cells

Technical University Kaiserslautern
Research Associate
January 2001 - December 2003 (3 years)
Research on catalysis

Education

Anna University

Doctor of Philosophy (PhD), Chemistry · (2010 - 2013)

Computer Software Center, Chennai

Honors in Diploma of Computer Applications, Computer
Science · (1998 - 1999)

Manonmanium Sundarnar University

Master of Science (M.Sc.), Chemistry · (1996 - 1998)

Manonmaniam Sundaranar University

Bachelor of Science (B.Sc.), Chemistry · (1993 - 1996)