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PROF. MILAN KUMAR SANYAL

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Papers in Journals

Publication Link

- 1. Evidence for endothermic quasicrystalline-crystalline phase transitions in Al6CuMg4 , Sanyal, M.K., Sahni, V.C. and Dev. G.K., Nature, 328, 704 (1987).
- 2. X-ray scattering study of capillary wave fluctuation at a liquid surface, Sanyal, M.K., Sinha, S.K., Huang, K.G., Ocko, B.M., Phys. Rev. Lett., 66, 628 (1991).
- 3. Determination of small fluctuations in electron density profiles of thin films: layer formation in polystyrene film, Sanyal, M.K., Basu, J.K., Datta, A. and Banerjee, S., Europhys. Lett. 36, 265 (1996).
- 4. Growth mechanism of Langmuir-Blodgett films, Basu, J.K, Hazra, S. and Sanyal, M.K., Phys. Rev. Lett., 82, 4675 (1999).
- 5. Observation of charge density wave characteristics in conducting polymer nanowires: possibility of Wigner crystallization, Rahman, A., Sanyal, M. K., Phys. Rev. B76, 045110 (2007).
- 6. Formation and ordering of gold nanoparticles at the toluene-water interface, Sanyal, M.K., Agrawal, V.V., Bera, M.K., Kalyanikutty, K., Daillant, J., Blot, C., Kubowicz, S., Konovalov, O. and Rao, C.N.R., J. Phys. Chem. C 112, 1739(2008).



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Curriculum Vitae

- 1. Name in full: Milan Kumar Sanyal
- 2. Date of Birth: 6th January 1954
- 3. Nationality: India
- 4. Field of Specialization: Condensed Matter Physics
- 5. Current affiliations: Emeritus Professor, Saha Institute of Nuclear Physics
 Adjunct Professor, International Centre for Materials Science,
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7. Educational background (College / University) onwards

B.Sc. (Physics Honours) First in First Class, University of Kalyani 1974 Graduation in BARC Training School (Physics) 20th Batch 1976 M.Sc. (Physics) University of Bombay 1981 PhD (Science) University of Mumbai 1987

- 8. Professional Positions held in chronological order
 - Scientific Officer, Bhabha Atomic Research Centre, 1977-1995
 - Research Associate, Brookhaven National Lab, USA 1989-1992
 - Professor, SINP, February 1995- January 2016
 - Director, Saha Institute of Nuclear Physics (SINP), July 2009-Jan 2014
 - Emeritus Professor SINP, February 2016 Present
 - Emeritus Professor (Raja Ramanna Fellow) Satyendran Nath Bose National
 Centre for Basic Sciences, May 2018 April 2021
 - Adjunct Professor, International Centre for Materials Science, Jawaharlal Nehru
 Centre for Advanced Scientific Research, April 2014 Present

- 9. Details of Important Awards / Honors / Recognitions of the nominee
- First prize in the Fifth Colloquium for Young Physicists (1987) Indian Physical Society.
- N.S. Satya Murthy memorial Young Scientist award of the Indian Physics Association, 1987.
- Medal of Material Research Society, India 2000.
- Fellow, Indian National Science Academy (2001).
- Fellow, Indian Academy of Sciences (2002).
- Fellow, The National Academy of Sciences, India (2003).
- J.C. Bose Fellowship 2007 2018.
- DAE Raja Ramanna Lecture in Physics 2008.
- Member, Indian National Science Academy Council (2010-2013).
- Member, Science Advisory Committee of the Cabinet, Government of India (2012-15).
- CNR Rao Prize Lecture in Advanced Materials, MRSI (2013).
- President, Indian Physical Society (2009-2013).
- President, Indian Physics Associations (2010-2013).
- Fellow, The World Academy of Science (2016).
- National Research Award, Nano Science and Technology, Government of India (2017)
- Raja Ramanna Fellowship, Department of Atomic Energy 2018 2021.
- Indian National Science Academy Senior Scientist 2021 Present.

10. Highlights of the major scientific contributions of the nominee

Prof. Milan K. Sanyal has carried out pioneering research in the field of synchrotron X-ray scattering to study single nanoparticle and ultra-thin films grown on solid or liquid interfaces. Few examples of his research results are tunable optical properties of semiconductor quantum-dots, charge density wave state in conducting polymer nanowires with optically tunable energy-gap, ordering of organic films in Liquid interfaces and stripe-to-skyrmion phase-transition in topological magnetic films. He is an elected Fellow of all three Science Academies in India and The World Academy of Sciences (TWAS). Prof. Sanyal is a former Director and an Emeritus Professor in Saha Institute of Nuclear Physics.

J