

Dr. Tashi Nautiyal

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**Name:** Dr. Tashi Nautiyal

**Designation:** Assoc. Professor

**Qualification:** Ph.D

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**Areas of Interest:**

- **Condensed Matter Theory (Study of electronic, magnetic and optical properties of compounds using band-structure calculations)**

**List of Publications from 1995:**

- "Optical Properties of MN", A.K.Solanki, A.Kashyap, T.Nautiyal, S.Auluck and M.A.Khan, Solid State Comm. 94, 1009 (1995)
- "Effect of Pressure on the Curie Temperature of Fe<sub>3</sub>Pt", A.Kashyap, A.K.Solanki, T.Nautiyal and S.Auluck, Phys.Rev.B 52, 13471(1995)
- "EP of Graphite", AK. Solanki, A.Kashyap, T.Nautiyal, S.Auluck and M.A.Khan, in "Disordered Materials Current Developments", ed. D.K.Chaturvedi and G.E.Murch, TransTech Publications 1996 in Material Science Forum Vol.223-224, pp 133-40
- "CoPt System - a Calculation of the Curie Temperature", A.Kashyap, A.K.Solanki, T.Nautiyal and S.Auluck, in "Disordered Materials - Current Developments", ed. D.K.Chaturvedi and G.E.Murch, TransTech Publications 1996 in Material Science Forum Vol.223-224, pp 141-5
- "Band Structure and Optical Properties of Graphite" A.Kashyap, A.K.Solanki, T.Nautiyal, S.Auluck and M.A.Khan, Solid State Comm. 100, 645 (1996)
- "Optical Properties of HgI<sub>2</sub>" A.Kashyap, A.K.Solanki, T.Nautiyal, S.Auluck and MA.Khan, Phys.Rev.B 55, 9215 (1997) 7. "Electronic Structure of TiS<sub>2</sub>" S. Sharma, T.Nautiyal, O. 5. Singh and S.Auluck, Phys.Rev.B 59, 14833 (1999)
- "Electronic Structure, Fermi Surface and Curie Temperature calculations for the CoPt System", A.Kashyap, K.B.Garg, A.K.Solanki, T.Nautiyal and S.Auluck, Phys.Rev.B 60, 2262 (1999)

**Research Projects Undertaken:**

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- Electronic Structure of Cu<sub>3</sub>Au compounds using LMTO method ; funded by CSIR Duration 1991-94
- Electronic Properties of Transition-metal Dichalcogenides ; funded by CSIR Duration 1997-2000