

RESUME



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- d. Experience: 27 years
- e. Research Areas: **Detonation Spray coatings, Electron beam physical vapour deposition (EBPVD) coatings, metallurgical & Tribological properties evaluation of coatings**
- f. List of Journal Publications:
- ✓ ***“Thermal spray coating of AlN coating utilizing Detonation spray coating”, Journal of Material Research, 17 (10) 2002***
 - ✓ ***“Coatability and Characterization of Fly Ash Deposited on Mild Steel by Detonation Spray” Journal of thermal spray technology, 12 (1) 2003***
 - ✓ ***“The Tribological behaviour of Detonation spray coating: The importance of coating process parameters”, Journal of Wear, 258, 2004***
 - ✓ ***“Influence of Grit Blasting on the Roughness and the Bond Strength of Detonation Sprayed Coating”, Journal of Thermal Spray Technology Volume 19(4) , June 2010***
 - ✓ ***“The tribological behaviour of detonation sprayed TiMo (CN) based cermet coatings “ Int. Journal of Refractory Metals & Hard Materials 28 (2010) 71–81***
 - ✓ ***"Indigenous development of thermal barrier coatings using EBPVD technique on single crystal gas turbine engine components", Journal of aerospace science and technologies, Volume 69(1A), Feb-2017, 186-190***
 - ✓ ***Indigenous development of thermal barrier coating on single crystal gas turbine engine components, Journal of aerospace science and technologies, Vol 69, No.1A, Feb, 2017, pp 186-190***
 - ✓ ***Influence of microstructure on the wear and corrosion behaviour DSC sprayed Cr₂O₃-25Al₂O₃ and plasma sprayed coatings, Journal of ceramics international, Vol.44, Oct, 2018, pp 2351-2357***

g. Conference proceedings:

- ✓ **"Detonation Coating Process", Transactions of the Powder Metallurgy Association of India, 1993, Vol.20, p. 1-5**
- ✓ **"Detonation Coating Process: Some Selected Case Studies", Transactions of the Powder Metallurgy Association of India, 1994, Vol.21, p.74-80.**
- ✓ **"Wear Resistant Coating of Turbine Blades by Detonation Gun", Transactions of the Powder Metallurgy Association of India, 1995, Vol.22, p.56-59.**
- ✓ ***"Detonation Coating Process of LP Turbine blades-A Statistical Quality Control Approach", Transactions of the Powder Metallurgy Association of India, 1996, Vol.23***
- ✓ ***"Tribological Behaviour of Thermal Sprayed Coatings", Proceedings of the XIth Surface Modification Technologies, , Published in The Institute of Materials, London, 1998,p.872-886.***
- ✓ ***"The influence of powder particle velocity and temperature on the property of Cr₃C₂-25NiCr coating obtained by detonation-gun", Proceedings of the 15th International Thermal Spraying Conference, Nice, France, 1998. P.385-393.***
- ✓ ***"The Influence of Teflon Additions on the Properties of WC-Co Coatings Obtained by Detonation Gun Coating", Proceedings of the 13th Surface Modification Technologies, Published in the Institute of Materials, London, 1999, p.71-81.***
- ✓ ***"The Influence of Powder characteristics on the properties of Detonation sprayed Cr₃C₂-25NiCr coating", Proceedings of the 17th International Thermal Spraying Conference ITSC conference Montreal , Canada,May,2000***
- ✓ ***"Influence of Laser Glazing on the Characteristic and tribological Performance of Plasma and Detonation Sprayed WC-Co Coating ", proceedings Published in ITSC-2001, Singapore***
- ✓ **"Development of Nano Tungsten carbide -12 Cobalt powder by mechanical milling & its coating characteristics", published in proceeding of International Powder metallurgy conference at NOIDA, U.P. 2007**

h. Contribution to Books:

Book chapters on "Detonation sprayed coatings and their tribological performances" in Thermal spray coatings and their tribological performance by J Paulo Davim, M.Roy

i. Awards & Honors:

University " GOLD MEDAL" for securing first position in order of merit in "Diploma in computer integrated manufacturing" in 2009 from "INDIRA GANDHI NATIONAL OPEN UNIVERSITY"