About the Author

Manoj Masanta

Research Scholar, Mechanical Engineering Department Indian Institute of Technology, Kharagpur - 721302, India E mail: <u>manoj.masanta@gmail.com</u> Phone: +919433319186

Manoj Masanta, born on 10th February, 1980, in West Bengal, India. He received his Bachelor degree in Production Engineering from Jadavpur University, Kolkata, in 2004 and obtained his Master degree in Production Technology from the same University in 2006. Immediately after that, he joined the PhD program at Mechanical Engineering Department, Indian Institute of Technology, Kharagpur. In addition to his PhD work he has taken part in other research and developmental activities and got several publications to his credit.

List of publication from the present work:

<u>Manoj Masanta</u>, P. Ganesh, Rakesh Kaul, A.K. Nath, A. Roy Choudhury, *Development of a hard nano-structured multi-component ceramic coating by laser cladding*, Materials Science and Engineering A 508 (2009) 134–140

<u>Manoj Masanta</u>, S. M. Shariff, A. Roy Choudhury, *Tribological behavior of TiB*₂-*TiC-Al*₂ O_3 composite coating synthesized by combined SHS and laser technology, **Surface and Coatings Technology 204 (2010) 2527–2538**

Manoj Masanta, P. Ganesh, Rakesh Kaul, A. Roy Choudhury, *Microstructure and mechanical properties of TiB*₂-*TiC*-*Al*₂O₃-*SiC composite coatings developed by combined SHS, sol-gel and laser technology*, **Surface and Coatings Technology** 204 (2010) 3471-3480

<u>Manoj Masanta</u>, S. M. Shariff, A. Roy Choudhury, *Evaluation of modulus of elasticity, nano-hardness and fracture toughness of* TiB_2 -TiC- Al_2O3 *composite coating developed by SHS and laser cladding,* (under review)

<u>Manoj Masanta</u>, S. M. Shariff, A. Roy Choudhury, A comparative study of the tribological performances of laser clad TiB_2 -TiC- Al_2O_3 composite coatings on AISI 1020 and AISI 304 substrates, (under review)

<u>Manoj Masanta</u>, S. M. Shariff, A. Roy Choudhury, *Effect of sol-gel derived nano*particulate TiO_2 on formation of in-situ TiB_2 -TiC- Al_2O_3 composite coating developed by laser cladding, (manuscript prepared)