

**Name**

Mr. M Ramakrishna

**Designation**

Scientist D

**Qualification**

Masters in Engineering

**Experience**

Working in electron microscopy since Jan 2007

**Research areas of interest**

Electron microscopy, Physical Metallurgy, Structure-property correlation

**List of journal publications**

- 1) Pemmasani, S.P., Rajulapati, K.V., Ramakrishna, M., Valleti, K., Gundakaram, R.C., Joshi, S.V.
- 2) Characterization of multilayer nitride coatings by electron microscopy and modulus mapping (2013) *Materials Characterization*, 81, pp. 7-18.
- 3) Vijay, R., Nagini, M., Joardar, J., Ramakrishna, M., Reddy, A.V., Sundararajan, G. Strengthening mechanisms in mechanically milled oxide-dispersed iron powders (2013) *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, 44 (3), pp. 1611-1620.
- 4) Pemmasani, S.P., Valleti, K., Ramakrishna, M., Rajulapati, K.V., Gundakaram, R.C., Joshi, S.V. Structure-property correlations in cathodic arc deposited tialn coatings (2012) *Materials Science Forum*, 702-703, pp. 967-970.
- 5) Valleti, K., Jyothirmayi, A., Ramakrishna, M., Joshi, S.V. Influence of substrate temperature and bias voltage on properties of chromium nitride thin films deposited by cylindrical cathodic arc deposition (2011) *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, 29 (5), art. no. 051515,
- 6) Chavan, N.M., Ramakrishna, M., Phani, P.S., Rao, D.S., Sundararajan, G. The influence of process parameters and heat treatment on the properties of cold sprayed silver coatings. (2011) *Surface and Coatings Technology*, 205 (20), pp. 4798-4807.

- 7) Sarada, B.V., Pavithra, C.L.P., Ramakrishna, M., Rao, T.N., Sundararajan, G. Highly (111) textured copper foils with high hardness and high electrical conductivity by pulse reverse electrodeposition. (2010) *Electrochemical and Solid-State Letters*, 13 (6), pp. D40-D42..B.
- 8) Yamini Sarada, K.S. Dhathathreyan, M. Rama Krishna, Meliorated oxygen reduction reaction of polymer electrolyte membrane fuel cell in the presence of cerium-zirconium oxide. (2011). *International Journal of Hydrogen Energy*, 36, pp 11886-11894.

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