

Biodata:

a	Name	Adduru Jyothirmayi
b	Qualification	M.Sc.,M.Phil
c	Designation	Technical Office-D
d	Contact Information	Centre for Materials Characterization and Testing Ph.No: 040 24452373 FaX: 040 24442699 E.Mail: <a href="mailto:ajyothi@arci.res.in">ajyothi@arci.res.in</a>
e	Experience	1.10 years experience in chemical characterization 2.10 years experience in corrosion testing and analysis
f	Research area of interest	Corrosion studies
g	List of publications	Enclosed

List of journal publications	
1	N.P. Wasekar, <b>A. Jyothirmayi</b> , L. Rama Krishna and G. Sundararajan, Effect of Micro Arc Oxidation Coatings on Corrosion Resistance of 6061-Al alloy, Journal of Materials Engineering and Performance 17 (5) 2008 pp 708-713
2	G.Sundararajan, P.Sudarshan Phani, <b>A. Jyothirmayi</b> and Ravi C.Gundakaram, The influence of heat treatment on the micro structural, mechanical and corrosion behavior of cold sprayed SS316L coatings, Journal of Materials Science, Published online:22 January 2009
3	M. Karanjai, <b>A. Jyothirmayi</b> , R. Sundaresan, T.R. Rama Mohan, B.P. Kashyap, Corrosion behavior of PM processed T—Ca-P composites in Hank's Balanced Salt Solution: PartI. Potentiodynamic studies, International Journal of Applied Ceramic Technology ,2009
4	P. Kiruthika <sup>#</sup> , R. Subasri <sup>*</sup> , <b>A. Jyothirmayi</b> , K. Sarvani <sup>#</sup> and N. Y. Hebalkar Effect of Plasma Surface Treatment on Mechanical and Corrosion Protection Properties of UV-Curable Sol-Gel based GPTS-ZrO <sub>2</sub> Coatings on Mild Steel ,Surface and Coatings Technology (Elsevier) 204(2010) 1270-1276
5	R. Subasri <sup>*</sup> , <b>A. Jyothirmayi</b> , D.S.Reddy, Effect of plasma Surface treatment and heat treatment ambience on mechanical and corrosion protection properties of Hybrid sol-gel coatings on aluminum, Surface & Coating Technology,205 (2010)806-813
6	Nitin P. Wasekar, <b>A. Jyothirmayi</b> and G. Sundararajan, Influence of prior corrosion on the high cycle fatigue behavior of Micro Arc Oxidation (MAO) coated 6061-T6 Al alloy,33 (2011)1268-1276,International journal of Fatigue, 27-03-2011
7	KrishnaValleti <sup>*</sup> , <b>A.Jyothirmayi</b> ,M.RamaKrishna,Shrikanth V Joshi,  Influence of substrate temperature and bias voltage on properties of chromium nitride thin films deposited by cylindrical cathodic arc deposition Journal of Vacuum science and Technology
8	R.Subasr,R.Malathi, <b>A.Jyothirmayi</b> ,N.Y.Hebalkar,Synthesis and characterization of CuO-hybrid silica

	nano composite coating on SS304, Ceramics International 38(2012) 5731-5740
9	N.Kumar, <b>A.Jyothirmayi</b> , K.R.C.Soma Raju, R.Subasri, Effect of functional groups (methyl, phenyl) on organic-inorganic hybrid sol-gel silica coatings on surface modified SS316, Ceramics International 38 (2012) 6565-6572
10	<i>N.Kumar, A.Jyothirmayi, R.Subasri, Effect of Plasma Surface Pretreatment on Ce<sup>3+</sup>-doped GPTMS-ZrO<sub>2</sub> Self-Healing Coatings on Aluminum Alloy, Hindwai Publishing Corporation, International Scholarly Research Network, ISRN Corrosion, Volume 2012, Article ID 506560 Nov2012</i>
11	Naveen Manhar Chavan, B.Kiran, <b>A.Jyothirmayi</b> , P. Sudharshan Phani, G. Sundararajan, The Corrosion behavior of Cold Sprayed Zinc coatings on Mild steel substrate, Journal of Thermal Spray Technology, 2013
12	L.Rama Krishna, G.Poshal, <b>A.Jyothirmayi</b> , G. Sundararajan, Compositionally modulated CGDS + MAO duplex coatings for corrosion protection of AZ91 magnesium alloy, Journal of Alloys and Compounds, 578(2013)355-361
13	N. Kumar, <b>A. Jyothirmayi</b> , K. R. C. Soma Raju, V. Uma, and R. Subasri One-Step Anodization/Sol-Gel Deposition of Ce <sup>3+</sup> -Doped Silica-Zirconia Self-Healing Coating on Aluminum, Hindawi Publishing Corporation, ISRN Corrosion, Volume 2013, Article ID 424805
14	Nitin P.Wasekar, <b>A.Jyothirmayi</b> , Neha Hebalkar, G. Sundararajan Influence of pulsed current on the aqueous corrosion resistance of electrodeposited Zinc Surface and coating Technology, 272(2015)373-379
15	L. Rama Krishnaa, G. Poshal, <b>A. Jyothirmayi</b> and G. Sundararajana, Relative hardness and corrosion behavior of micro arc oxidation coatings deposited on binary and ternary magnesium alloys Journal of Materials & Design, 77(2015)6-14
	<b>Contribution to Books</b>
	<b>Book Chapter:</b> G. Sundararajan, L. Rama Krishna, N.P. Wasekar, G. Sivakumar and <b>A. Jyothirmayi</b> , Coatings for Corrosion Resistance in Corrosion Science and Technology: Mechanisms, Mitigation and Monitoring, Pubs: Taylor & Francis, UK, Nov/Dec 2008 pp: 243-283.
	<b>Conference proceedings</b>
1.	Presented a paper in The National Symposium on Electrochemical Science and Technology, NSEST-2005 conducted by The Electrochemical Society of India, during 22-23 July at IISc Bangalore. 2005 Title of the paper: The influence of Zinc additions on the Corrosion and Electrochemical Behavior of Magnesium Alloys.

	<b>A.Jyothirmayi, S.Sundararajan,P.Ramarao</b>
2.	Presented a paper “corrosion behaviour of Cold Sprayed Zinc Coatings” <b>A.Jyothirmayi, P. Sudharshan Phani, Naveen Manhar Chavan,B.Kiran and G. Sundararajan</b>  Held At Hotel Green park, Hyderabad in Fourteenth National Congress on Corrosion Control by National Corrosion Council 18-20 Sep.2008
	<b><i>Projects</i></b>
1	<b>A RESEARCH PROJECT WITH GENERAL MOTORS (USA) ON  STRESS CORROSION DURABILITY OF ALUMINUM AND MAGNESIUM ALLOYS FOR  AUTOMOTIVE APPLICATION</b>