

Dr.Ramanuj Narayan

Principal Scientist

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Bibliography

About

Senior Scientist (Since October 2008), at Polymers & Functional Materials Division,
CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad

Astt. Professor, Chemical Sciences, AcSIR (@CSIR-IICT)

Education

Ph.D. from CSIR-IICT & Indian School of Mines (ISM), Dhanbad in 2002 in Applied Chemistry

Thesis Title: Studies on the development of polymeric Materials for high solids & water dispersible Coatings

Thesis Supervisor: Dr KVS N Raju, CSIR-IICT

M.Tech from NIT (formerly RIT) Jamshedpur, Jharkhand in 1996

Surface & Colloid Science Spl: Corrosion & Science of Surface Coatings

M.Tech. Dissertation Title: Synthesis, Characterization & Performance Evaluation of protective coatings based on Alkyd, Uralkyd & Polyurethane

Employment

Senior Scientist at CSIR-IICT, Hyderabad from 2008 to date

Senior Scientist at TATA Composites (formerly ACSI), TACO, Pune 2007-08

Principal Researcher at TATA STEEL LTD., 2006-07

Research Scientist at Aisin Cosmos R&D Co.Ltd., Hyderabad 2002-06

Publications

- Sasidhar Kantheti, Ramanuj Narayan, K.V.S.N.Raju, 1,2,3-Triazoles in the design of functional coatings, RSC Advances, 2015, 5, 3687, DOI:10.1039/c4ra12739k
- Rohit Ranganathan Gaddama, Sasidhar kantheti, Ramanuj Narayan , K.V.S.N. Raju Bulk synthesis of green carbon nanomaterials from Desmostachya bipinnata for the development of functional polyurethane hybrid coatings, Progress in organic coatings, 2015, 79, 37-42, DOI:10.1016/J.progcoat.2014.11.001
- Sasidhar Kantheti, Ramanuj Narayan ,Kothapalli VSN Raju , Pyrene-anchored ZnO nanoparticles through click reaction for the development of antimicrobial and fluorescent polyurethane nanocomposite, Polymer International, 2015, 64(2), 267-274, DOI: 10.1002/pi.4785
- T.O. Siyanbola, K. Sasidhar, B.V.S.K. Rao, Ramanuj Narayan, O. Olaofe, E.T. Akintayo, K.V.S.N. Raju Development of Functional Polyurethane-ZnO Hybrid Nanocomposite Coatings from Thevetia peruviana Seed Oil, JAOCS, 2015, 92:267-275, DOI: 10.1007/s11746-014-2587-y
- K. K.Jena, , Ramanuj Narayan,, K. V. S. N., Raju, & T. K Rout, TEM, XPS and thermo-mechanical properties of novel sustainable hybrid coatings Progress in Organic Coatings 2015, 78:140-145. doi:10.1016/j.porgcoat.2014.09.014

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Patents

- Novel phthalocyanine derivative used as pigment for dye-sensitized solar cell having high battery performance, improved photoelectric conversion efficiency, heat stability and chemical stability, has asymmetrical structure, JP2007231040-A, KANTAM M R, REDI V G, NARAYAN R, REDI P I, GIRIBABU L, CHENDRASEKARAM M
- Manufacture of silica-type microparticles involves adding alkyl halosilane into solution formed by dissolving silicon compound having silanol group in organic solvent, Patent Number(s): JP2006062885-AKANAKAWA T, REDI P I, SATIANARAYANA D, NARAYANA R, : 2006
- Synthesis of nano-titanium oxide sol as corrosion resistant coating material for steel sheets, IN200700183-12, ROUT T K, NARAYAN R, BANDYOPADHYAY N, VERMA A K, SINGH A K, 2007
- A method for the development of Hybrid alumina nanocoatings for Steel, Indian Patent application, 2007, VERMA A K, SINGH A K, ROUT T K, NARAYAN R, BANDYOPADHYAY N, RANI N, 2007

- Anti-corrosive hybrid sol-gel film on metallic substrates and method of producing the same , VERMA A K,SINGH A K,SINGH , ROUT T K, NARAYAN R, BANDYOPADHYAY N, RANI N, PCT application,2007 US8900670 B2

Awards

- Award for Technical Excellence in Coatings, IPA, 2013
- CSIR-IICT Gaurav Samman, 2012
- Award for Technical Excellence in Coatings, IPA, 2011
- Shavak Nanavati Medal, 2007-08, Tata Steel Ltd., for Product Research
- CSIR Senior Research Fellowship (SRF) in 1997

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