

## Publications

### Research Publications

Books/Monographs	Papers in Refereed International Journals	Contributed papers in Conference or Symposium
02	12	18

#### (a) Books/Monographs

1. **Roopa S**, Nischay K S., and Siddaramaiah “**Effect of thermoset waste powder on cure characteristics, physicomechanical and swelling properties of NR/SBR vulcanizates**” in the book “**Cost reduction in rubber processing**” Edt., Hans Joachim Graf, 2014, Technobiz Communication co Ltd., USA., (ISBN: 978-616-90836-9-6)
2. **Roopa, S.** and Siddaramaiah. "**Effect of Cenosphere on the Performance of Polyurethane/Polystyrene Interpenetrating Polymer Network Green Composites.**" in the book “**Emergent Research on Polymeric and Composite Materials**”. Edt., R. Somashekhar, IGI Global, 2018. 158-185. Web. 25 Sep. 2017. doi:10.4018/978-1-5225-3023-7.ch007

#### (b) List of publications in the International Referred Journals

##### Year: 1998

1. Siddaramaiah, **S.Roopa**, U.Premakumar and A.Varadarajulu: "Sorption and Diffusion of Aldehydes and Ketones into Natural Rubber Blends", *J. Appl. Polym. Sci.*, **67** (1998) 101- 112 (IF- 0.88).
2. Siddaramaiah and **S.Roopa**: "Sorption and Diffusion of Alkane Penetrants into Natural Rubber Blends", *J. Polym. Matl.*, **15** (1998) 31-37, (IF- 0.4).
3. Siddaramaiah, **S.Roopa** and U.Premakumar: "Sorption and Diffusion of Substituted Aromatic Penetrants into Natural Rubber Blends", *Polymer*, **39** (17) 1998, 3925-3931 (IF- 0.979).

##### Year: 2003

4. Siddaramaiah, **S.Roopa** and K.H.Guruprasad: “Interaction of Crosslinked EPDM blends with Chlorinated Organic Penetrants”, *J. Appl. Polym. Sci.*, **88** (5) (2003) 1366-1375, (IF- 1.017).
5. Siddaramaiah, **S.Roopa** and K.H.Guruprasad: “Interaction of Crosslinked EPDM/SBR Blends with Carbonyl Penetrants”, *J. Polym. Engg.*, **23** (1) (2003) 55-57, (IF- 0.47).

6. Siddaramaiah, H.Kumar, **S.Roopa**, B.K.K.Swamy and T.M.Aminbhavi: "Computer Simulation Method to Calculate Concentration Profiles in PU/PS IPN Membranes", *J. Appl. Polym. Sci.*, **90** (1) (2003) 122-128, (IF- 1.017).

**Year:2005**

7. H.Kumar, Siddaramaiah and **S.Roopa**: "Chemical and Tensile Properties of Unsaturated Polyester and Polyacrylonitrile Semi-Interpenetrating Polymer Network Coated Bamboo Fibers", *J. Reinforced Plastics & Composites*, **24** (2) (2005) 215-218, (IF- 1.5).
8. Siddaramaiah, P.Mallu, **S.Roopa**, H.Somashekarappa and R.Somashekar: "Physico-mechanical, Optical and WAXS Studies on Castor Oil Based PU/Polyacrylate IPNs", *J. Appl. Polym. Sci.*, **95** (3) (2005) 764-773, (IF- 1.072).

**Year: 2007**

9. **S.Roopa** and Siddaramaiah: "Effect of Meta Kaolin Filler on the Physico-mechanical Properties and Chemical Resistance of Chain Extended Polyurethane", *J. Reinforced Plastics & Composites*, 26 (7) (2007) 681-686, (IF- 1.5).

**Year: 2010**

10. **Roopa, S.**, and Siddaramaiah: "Mechanical, Thermal and Morphological Behaviors of Castor Oil Based PU/PS Interpenetrating Polymer Network - Metakaolin Composites", *J. Macromol. Sci.-Pure & Appl. Chem.*, A47 (7) (2010) 689 – 696 (IF- 0.81).
11. **Roopa, S.**, and Siddaramaiah, "Mechanical, Thermal and Morphological Behaviors of Coconut Shell Powder Filled PU/PS Biocomposites", *Advanced Materials Research*, 123-125 (2010) 331-334

**Year: 2013**

12. S. Rohini Thimmaiah, **S. Roopa** and Siddaramaiah "Studies on Untreated and Silane Treated Ground Granulated Blast Furnace Slag Incorporated Natural Rubber Vulcanizates" *Indian Journal of Advances in Chemical Science* 1 (4) (2013) 213-220, (IF- 2.63).

**(c) Papers presented in the Conference**

- 1) **S. Roopa** and Siddaramaiah: "Interaction of crosslinked EPDM blends with chlorinated organic penetrants", Macro 2000, Proce. of Natl. Symp. on Polym. & Comp., 1-2 Dec 2000, p.121, DMSRDE, Kanpur
- 2) Siddaramaiah, H.Kumar, **S.Roopa** B.K.K.Swamy and T.M.Aminbhavi: "A Computerlation Method to Calculate Concentration Profiles in PU/PS IPN Membranes", Presented in Natl. Sem. on Pollution Control-Recent Advances in Membrane Sci. &Tech., held at AC Tech., Anna University, Chennai, during 8 & 9 th May 2002

- 3) Siddaramaiah and **Roopa.S.** “Effect of Heat and Oil ageing on the Properties of EPDM/SBR blends”. International Conference on Polymers in Information and Communication Technology, organized by Dept. of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Cochin and Techni University of Endhoven, The Netherlands, held on 12<sup>th</sup> December 2002
- 4) Siddaramaiah, **Roopa.S.**, Guruprasad. K.H and Kameshwari Devi. S.H. “Effect of Crosslinking systems on Curing Behaviour and Mechanical Properties of Acrylonitrile Butadiene and PVC blends” ”. International Conference on Polymers in Information and Communication Technology, organized by Dept. of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Cochin and Technical University of Endhoven, The Netherlands, held on 12<sup>th</sup> December 2002
- 5) **Roopa.S.**, Shri Harish.M.N and Deepashri.V “Preparation and characterization of rubber compounds filled with thermoset industrial scrap” presented in National conference on The Emerging Areas in Chemistry (NACEAC-2009), organized by DOS in Chemistry, Mysore on 31/07/2009 & 1/08/2009
- 6) **Roopa.S &** Siddaramaiah, “Effect of meta kaolin on physico-mechanical , thermal properties and chemical resistance of PU/PS IPNS” India International Conference & Expo \_IIRC-2007, jointly organized MSLU, IRI –Rajasthan Branch and HASETRI, on 1<sup>st</sup>-3<sup>rd</sup> Nov 2007 at Udaipur, Rajasthan.
- 7) **Roopa, S.**, and Siddaramaiah: “Synthesis and characterization of cenosphere flyash filled PU/PS IPN composites”, 2<sup>nd</sup> Intl. Conf. on Polym. Processing and Characterization (ICPPC – 2010): January 15<sup>th</sup> - 17<sup>th</sup>, 2010, Kottayam, Kerala, India (**Invited talk**).
- 8) **Roopa, S.**, Siddaramaiah, Sumanda Bandyopadhyay, P.Parameswara, R.Somashekar: “WAXS studies of coconut shell powder filled PU/PS IPN composites”, Intl. Conf. on Advances in Polym. Tech., (APT'10), organized by Cochin University of Science and Technology, Cochin, India, 26-27<sup>th</sup> Feb. 2010.
- 9) **Roopa, S.**, and Siddaramaiah, “Mechanical, Thermal and Morphological Behaviors of Coconut Shell Powder Filled PU/PS Biocomposites”, 3<sup>rd</sup> Intl. Conf. on Multi-functional materials and structures (MFMS 2010), held at Chonbuk National University, Jeonju, Korea, 14 - 18<sup>th</sup> September 2010.
- 10) Supriya D.S and **Roopa, S.**, “Study on the effect of acrylic acid on the performance of acrylate pressure sensitive adhesives”, National seminar on Recent trends in polymer Science & Technology -2013 (NSRTPST -2013), organized by Dept of Polymer Science & Tech., S.K. University, Ananthpur (AP) on 29<sup>th</sup> & 30<sup>th</sup> June 2013.
- 11) **Roopa, S.**, Nischay K.S. and Siddaramaiah “ Effect of industrially generated thermoset grind waste powder on the cure characteristics, physic-mechanical and swelling properties of NR/SBR vulcanisates”, ” National seminar on Recent trends in polymer Science & Technology -2013 (NSRTPST -2013), organized by Dept of Polymer Science & Tech., S.K. University, Ananthpur (AP) on 29<sup>th</sup> & 30<sup>th</sup> June 2013.

- 12) Chandresh, M. P, Siddaramaiah and **Roopa, S.**, “Effect of liquid isoprene rubber on natural rubber vulcanizates” IRMRA-CII Rubber Conference-2015 (ICRC 2015) on “Empowering the rubber and allied industry through Indigenization, Innovation on Technology, Materials and Processes, jointly organized by Indian Rubber Manufacturers research Association (IRMRA) and Confederation of Indian Industry (CII), Mumbai, on 16-17<sup>th</sup> December 2015, Abstract pp. 32
- 13) Prashanth Kumar, V and **Roopa, S** “Polymer / carbon nanotube composites for high accuracy piezoresistive strain sensing and biomedical applications” National Seminar & Workshop on Functional Nanomaterials for Energy, Environment and Health, Organized by Mangalore University, Mangalagangothri, Sponsored by DST, on March 21-22, 2016
- 14) Gururaj Thilagar and **Roopa, S** “Multifunctional hybrid of polymer-iron oxide based nano materials with modified surface chemistry for biomedical applications – An overview” National Seminar & Workshop on Functional Nanomaterials for Energy, Environment and Health, Organized by Mangalore University, Mangalagangothri, Sponsored by DST, on March 21-22, 2016
- 15) Sowmya B, Preethi S, A. B. Hemavathi, B. S. Madhukar, **Roopa, S** and Siddaramaiah “Preparation and characterization of PU/PMAA Based Interpenetrating Polymer Networks” International conference on advanced materials and technology (ICMAT 16) on 26-28<sup>th</sup> May 2016, organized by SJCE, Mysore.
- 16) **Roopa, S** and Siddaramaiah “Effect of Microsilica on the Performance of Epoxy/Polyurethane IPN Composites” International conference on advanced materials and technology (ICMAT 16) on 26-28<sup>th</sup> May 2016, organized by SJCE, Mysore.
- 17) Sagar T, B. S. Madhukar, **Roopa, S** and Siddaramaiah “ The effect of coconut shell powder content on the spectral, mechanical and thermal behavior of polyurethane green composites” International conference on advanced materials and technology (ICMAT 16) on 26-28<sup>th</sup> May 2016, organized by SJCE, Mysore.
- 18) Chandresh M. P, **Roopa S.**, and Suryanarayanan M. R., “Toughening of polystyrene by polybutadiene/ liquid butadiene rubber master-batch”, 7<sup>th</sup> National conference on Novel Polymeric Materials (POLYCON-2017), 15<sup>th</sup> September 2017