

**Name:** Dr Subash Chandra Mishra

**Present Address: Professor**

Metallurgical and Materials Engineering Department

National Institute of Technology, Rourkela-769008.

**Date of Birth:** 04.04.1957

**Permanent Address:** C/O- Late Gangadhar Mishra

Water-works Road, Puri -752002,

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**Area of Specialisation:** Materials Engineering

Thermal Plasma and HVOF Coatings, Plasma and Reactive Plasma Processing of Materials

Processing and Characterizations of Industrial Waste and Bio-waste reinforced Polymer Composites, Utilization of Bio-wastes/bio-mass for Production of Activated Carbon and Bio-Char.

**Scopus ID : 55359430800**

**Google Scholar ID : tMT8UIgAAAAJ**

**Google Scholar h-index : 23**

**Scopus h-index : 13**

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**Google Scholar i10-index : 61**

**Researcher ID h-index : 23**

## **PROJECTS UNDERTAKEN:**

1. INS Powder Metallurgy(Thrust Area Research Project, 1989Ministry of HRD, GOI (Completed).
2. Development of Plasma Reactor for Processing Spheroidal Ceramic Powder (Thrust Area Research Project, 1994), Ministry of HRD, GOI (Completed).
3. Plasma Spray Coating of Red Mud on Metals. (Thrust Area Research Project, 2002) Ministry of HRD, GOI, (Completed).
4. Processing and Characterization of Poultry Feather Reinforced Polymer Composite (2006). **DST, GOI** (Completed).
5. Reactive Plasma Processing of Minerals and Industrial Wastes. (2008), **BRNS, DAE,GOI**, (Completed).
6. Processing and Characterization of Bio Waste Reinforced Polymer Composite. (2008). **UGC,GOI** (Completed).
7. Development of spheroidal graphite cast iron transport cask for irradiate fuel bundles (2011), **BRNS** (Completed).
8. Hydrogen Plasma processing of Buxite. **NALCO**, (2013), (Completed).
9. Development of innovative process for the utilization of mine and beneficiation plant waste in chromite and manganese industry, **Tata Steel**, (2017), On-going.
10. MECHANICAL PROPERTIES OF TITANIUM AND ITS ALLOY FROM THEIR TEXTURAL ASPECTS; Aug-2016, **CSIR**, (11,00,000.00), 2019.
11. FIST PROGRAMME, 2014, **DST**, UPTO-2019, (1,75,00,000/00).

## **Patents**

1. Adoption of High Temperature Microscopy in the determination of Flow characteristic of Blast Furnace slag; U.K.Mohanty, B.Mishra, S.K.Sahoo, **S. C. Mishra**, S.Sarkar and J.N.Tiwari (Submitted, No. 201631037069, Published- 04.11.2016).
2. A Novel Technique for Reduction and Enrichment of Bauxite Mineral through Thermal Hydrogen Plasma Processing; S.K.Sahoo, **S. C. Mishra**,

## **Award and Recognitions:**

- i. National Scholarship, Govt. of India, 1973-77.
- ii. Awarded in All Orissa Short Story competition (in Regional Language), 1978.
- iii. Order of Merit (Photography), I.I.T. Kharagpur, 1984.
- iv. "Commonwealth Fellow", (Visiting Fellow, Liverpool, U.K.), Commonwealth Scholarship Commission, United Kingdom, 1997-98.
- v. "BHU-MET Golden Jubilee Bursar Fellow", Center of advance study in Metallurgy, BHU-IT, Varanasi, India, 2004-05.
- vi. "Visiting Scientist", Board of Research in Nuclear Science, B.A.R.C, Mumbai, India, 2006.
- vii. "Leading Scientist of the World", International Biographical centre, Cambridge, England (in the arena of metallurgical & materials engineering). 2010.
- viii. "Honorary Doctorate of Science", International Biographical Centre Cambridge England, 2016.
- ix "International Engineer of the Year", International Biographical Centre Cambridge England, 2017.

**PH.D guidance : 08**Completed, Ongoing-06.

**M.Tech (Res) : 03** Completed, Ongoing-01.

**M.Tech : 48** completed, Ongoing-04.

**Editorial Board Member of Journals:**

1. Journal of Materials and Metallurgical Engineering (ISSN-2231-3818)
2. Journal of Polymer Composites (ISSN- )
3. Journal of Advance Research in Manufacturing and Material Science and Technology (ISSN 4. Journal of Surface and Hybrid Coating Technology (ISSN- ).
5. Journal of Advanced Research in Polymer and Textile Engineering
6. Journal of Advanced Research in Mining, Fuel and Mineral Engineering.
7. Journal of Advanced Research in Manufacturing and Material Science and Technology.
8. International Journal of Science Medicine Engineering and Technology.
9. Chemical and Materials Engineering; ISSN: 2332-1032 (Print), ISSN: 2332-1067 (Online).
10. Journal of Environment and Waste Management, <http://premierpublishers.org/member-login?return=http:///members/reviewer-journals>.
11. Materials Science: Advanced Composite Materials, Whioce Publishing Pte. Ltd. Editorial Office from Singapore. (Whioce Publishing Pte. Ltd., 7030 Ang Mo Kio Avenue 5 #04-15 Northstar@AMK, Singapore 569880.
12. Journal of Thin Films, Coating Science Technology and Application.
13. Journal of Advanced Research in Glass, Leather and Plastic Technology.
14. Journal of Building Material Science; <http://ojs.bilpublishing.com/index.php/jbmr>;Singapore.

**Membership of reputed Professional Bodies/Organizations:**

- i. Life Member, Indian Institute of Metals, (LM - 26142)
- ii. Life Member, Materials Research Society of India (LM - 1018)
- iii. Life Member, Institution of Engineers, India (LM-M114356/5)
- iv. Life Member, Plasma Science Society of India (LM - 161)
- v. Life Member, Indian Institute of Mineral Engineers (LM – 410)
- vi. Life Member, Indian Physics Association. (LM - 11887)

**Other Duties/ Responsibilities:**

- i. Expert for Faculty selection for NIT, Jamshedpur.
- ii. AICTE expert for southern zone, northern zone and central zone of India.
- iii. PSC Expert of Odisha and Chhattisgarh state.

## **PUBLICATIONS:**

### **Books Published**

1. Ajit Behera and **S. C. Mishra**, “**Plasma Surface Engineering**” Lap Lambert Academic Publishing, GmbH & Co, KG, Germany, 2012, ISBN: 978-3-659-14604-6.
2. P. Parida, **S.C.Mishra** and S.Sahoo, “**Analysis of Nifedipine Microsphere**” Lap Lambert Academic Publishing, GmbH & Co, KG, Germany, 2012, ISBN: 978-3-659-22293-1.
3. **S.C.Mishra**, “**Thermal Plasma Application in Metallurgy**”, Lap Lambert Academic Publishing, GmbH & Co, KG, Germany, 2012, ISBN: 978-3-659-23522-1.
4. Jyoti Prakash Dhal and **S. C. Mishra**, “**Material for Cryogenic Applications**”, Lap Lambert Academic Publishing, GmbH & Co, KG, Germany, 2012, ISBN: 978-3-659-22985-5.
5. **S.C.Mishra** & H.K.Mishra; “**Natural Fibre Composite**”; Lap Lambert Academic Publishing, GmbH & Co, KG, Germany, 2012, ISBN: **978-3-659-29153-1**.
6. Alok Satapathy and **S.C.Mishra**; “**Novel Coating Materials**”; Lap Lambert Academic Publishing, GmbH & Co, KG, Germany, 2012, ISBN: **978-3-8433-8003-4**.
7. **Subash Chandra Mishra**, Nadiya Bihari Nayak; “**Bio waste reinforced Polymer Composite**”; Lambert Academic Publishing, GmbH & Co, KG, Germany, 2013, IBSN- **978-3-659-38120-1**.
8. Ranjit Ku. Panda, Jyoti Prakash Dhal and **S.C.Mishra**; “**Austempered Ductile Iron: Processing and Mechanical Properties**”; Lambert Academic Publishing, GmbH & Co, KG, Germany, 2015, **IBSN- 978-3659-69704-3**.
9. **S.C.Mishra** and Akankshya Supriya; “**Chemical Treatment of Bio fibers**”; Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **IBSN- 978-3-330-04318-3**.
10. Biswajit Swain, Ajit Behera and **S. C. Mishra**; “**Plasma Processing of Iron Ore Fines**”; Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **IBSN- 978-3-330-06485-0**.
11. **Subash Chandra Mishra** & Manish Bagwan; “**Plasma Spray Coating of Fly ash mixing with Quartz and Illmenite**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **IBSN - 978-3-330-35084-7**.
12. **Subash Chandra Mishra** & Ranjan Kumar Behera; “**Processing Material for Nuclear Fuel Transport cask application**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **IBSN- 978-620-2-05380-8**.
13. **Subash Chandra Mishra** & **Anupama Sahu**; “**Alumina-Titania Overlay Coating on Metals**“, Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **IBSN- 978-3-659-53535-2**.
14. **Subash Chandra Mishra**; “**Plasma Spray Nickle-Aluminide Coatings using Commercial grade Material**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **ISBN- 978-3-659-84953-4**.
15. **Subash Chandra Mishra** & **Samyak Smruti Mishra**; “**Wear and Corrosion in Iron and Magnesium alloys alloying with Aluminum**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, 2017, **IBSN- 978-3-659-75345-9**.
16. **Subash Chandra Mishra**; “**Carbonization and Dielectric Properties of Bio wastes**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, (24 Nov.) 2017, **IBSN - 978-620-2-07906-8**.
17. **Subash Chandra Mishra**; “**Pyrolysis of Bio-waste and Wear of its reinforced polymer composites**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, **Jan. 2018, IBSN 978-613-7-15029-0**.

18. **Subash Chandra Mishra**; “**Tribology of Materials used in High voltage Loco Transmission systems**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, **March 2018, IBSN- 978-613-9-57838-2.**
19. **Subash Chandra Mishra**; “**Dielectric materials from Castor plant Biomass**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, May 2018, IBSN- 978-613-9-85013-6.
20. **Subash Chandra Mishra & Ashutosh Pattanaik**, “**Effect of Processing conditions on Fly ash Epoxy composite**”, Lambert Academic Publishing, GmbH & Co, KG, Germany, June, 2018, **IBSN- 978-613-9-85518-6.**

## **Book Chapter**

1. **S. C. Mishra**, “*Analysis of Experimental Results of Plasma Spray Coatings Using Statistical Techniques*”; **Advanced Plasma Spray Applications**, Chapter-4, Edited by Hamidreza Salimi Jazi, **InTech Publication**, March, 2012, Janeza Trdine 9, 51000 Rijeka, Croatia; ISBN: 978-953-51-0349-3.

## **International journals**

1. B.B.Nayak, S.K.Singh B.S.Acharya and **S.C.Mishra**, *Preparation of CdI films by Iodination of Electroless deposited CdS films and characterization*; *Reactivity of solids*, Vol. - 5, P-79-88, 1988.
2. PVA Padmanabhan, K.P.Sreekumar, N. Venkatramani, P.K.Sinha and **S. C. Mishra**; Synthesis of Sub-micron Alumina in Thermal Plasma jet; *Transactions of the Indian Ceramic society*, vol.53, Issue 3, 1998.
3. B.N.Dash, A.K.Rana, **S.C.Mishra** et. al., Novel low cost Jute-polyester composites (part-I) Processing, mechanical properties and SEM analysis ; *Polymer Composites*, USA vol.20(1), 62-71, 1999, <http://onlinelibrary.wiley.com/doi/10.1002/pc.10335/pdf>.
4. **S.C.Mishra** et. al., Plasma spray coating of fly ash premixed with Aluminum powder deposited on metal substrates; *Journal of Materials Processing Technology*, Volume 102, Issues 1-3, 15 May 2000, Pages 9-13, [http://dx.doi.org/10.1016/S0924-0136\(99\)00443-4](http://dx.doi.org/10.1016/S0924-0136(99)00443-4).
5. **S.C Mishra**, B.B Nayak, B.C Mohanty, B Mills, Surface nitriding of titanium in arc plasma, *Journal of Materials Processing Technology*, Volume 132, Issues 1–3, 10 January 2003, Pages 143–148.
6. **S.C.Mishra** et.al. Arc plasma nitriding of low carbon steel, *Surface and Coatings Technology*, Volume 145, Issues 1–3, 1 August 2001, Pages 24–30, [http://dx.doi.org/10.1016/S0257-8972\(01\)01291-9](http://dx.doi.org/10.1016/S0257-8972(01)01291-9).
7. **S.C.Mishra** et.al. Surface Nitriding of titanium in arc plasma, *Journal of Materials Processing Technology*, Volume 132, Issues 1–3, 10 January 2003, Pages 143–148, [http://dx.doi.org/10.1016/S0924-0136\(02\)00840-3](http://dx.doi.org/10.1016/S0924-0136(02)00840-3).
8. S. K. Acharya, **S.C.Mishra**, Effect of environment on fly -ash jute polymer composite, *Engineering Today*, Vol-VI, Issue-8, August 2004, Page -12-13.
9. **Mishra, S C.** Satapathy, Alok Roy, G K. Nayak, R C. Mishra, H K, *Tribological Aspect of Plasma Sprayed Overlay Coating*, *Bulletin of Orissa Physical Society*, Volume 14, February 2007, pp 176-183, <http://dSPACE.nitrkl.ac.in/dSPACE/handle/2080/1416>.
10. **Mishra, S C**; Satapathy, Alok; Mishra, H K; Mishra, S S, Thermal Spray Coatings Using Industrial Waste and Ore Mineral, *Bulletin of Orissa Physical Society*, Volume 15, February 2008, pp 129-13.
11. **Mishra, S C**; Kudelwar, M K; S, Mohan, *Studies on Aluminum – Fly-Ash Composite Produced by Impeller Mixing*, *Journal of REINFORCED PLASTICS AND COMPOSITES*, Vol. 29, No. 1/201, 2008, DOI: 10.1177/0731684408096428

12. **Mishra, S C**; Sahu, Anupama; Das, Rojaleena; Satapathy, Alok; Sen, S; Ananthapadmanabhan, P V; Sreekumar, K P, Microstructure, Adhesion, and Erosion Wear of Plasma Sprayed Alumina–Titania Composite Coatings, Journal of Reinforced Plastics And Composites, Vol. 00, No. 00/2008, DOI: 10.1177/0731684407087758.
13. **Mishra, S C**; Das, Satyabati; Satapathy, Alok; Sarkar, S; Ananthapadmanabhan, P V; Sreekumar, K P, Investigation on Composite Coating of Low Grade Minerals, Journal of Reinforced Plastics And Composites, Vol. 28, No. 24/2009, DOI: 10.1177/073168440809422
14. **Mishra, S C**; Praharaj, S; Satapathy, Alok, Evaluation of Erosion Wear of a Ceramic Coating with Taguchi Approach, Journal of Manufacturing Engineering, 2009, Vol.4, Issue.2, 241-246.
15. **Mishra, S C**, Low Cost Polymer Composites with Rural Resources, Journal of Reinforced Plastics and Composites, Vol. 00, No. 00/2009, DOI: 10.1177/073168440809237.
16. **Mishra, S C**; Nayak, N B; Satapathy, Alok, Investigation on Bio-waste Reinforced Epoxy Composites, Journal of Reinforced Plastics and Composites, Vol. 00, No. 00/2009, DOI: 10.1177/0731684408100740.
17. **Mishra, S C**; Satapathy, Alok; Chaithanya, M; Ananthapadmanabhan, P V; Sreekumar, K P, Wear Characteristics of Plasma Sprayed Nickel–Aluminum Composite Coatings, Journal of Reinforced Plastics and Composites, Vol. 00, No. 00/2009, DOI: 10.1177/073168440809406.
18. **Mishra, S C**; Nayak, N B, An Investigation of Dielectric Properties of Chicken Feather Reinforced Epoxy Matrix Composite, Journal of Reinforced Plastics and Composites, Vol. 0, No. 00/2010, DOI: 10.1177/073168440935661.
19. Sen S, **Mishra, S C**; Sarkar, S, Characterization of ADI through fractographic analysis, The Technology world, March-April 2010, volume V, issue 1, 45-48.
20. Aireddy, H; **Mishra, S C**, Studies on Dielectric and Conductivity properties of Bio-Waste reinforced Polymer Composites, <http://dSPACE.nitrkl.ac.in/dSPACE/bitstream/2080/1358/1/dc+paper+2.pdf>.
21. Aireddy, H; **Mishra, S C**, Processing and properties of Bio-waste reinforced polymer composites, <http://dSPACE.nitrkl.ac.in/dSPACE/bitstream/2080/1357/1/cc-conf.pdf>.
22. Jayakumar, S; Ananthapadmanabhan, P V; Perumal, K; Thiyagarajan, T K; **Mishra, S C**; Su, L T; Tok, A I Y; Guo, J, Characterization of nano-crystalline ZrO<sub>2</sub> synthesized via reactive plasma processing, Materials Science and Engineering: B, Volume 176, Issue 12, 25 July 2011, Pages 894–899. <http://dx.doi.org/10.1016/j.mseb.2011.05.013>.
23. Sahoo, S; Chakraborti, C K; **Mishra, S C**; Nanda, U N; Naik, S, FTIR and XRD investigations of some fluoroquinolones, International Journal of Pharmacy and Pharmaceutical Sciences, Int J Pharm Pharm Sci, Vol 3, Issue 3, 2011, 165-170.
24. Sahoo, S; Chakraborti, C K; **Mishra, S C**, Antibacterial activity study of a mucoadhesive suspension containing ciprofloxacin, African Journal of Microbiology Research Vol. 5(5), pp. 579-581, 4 March, 2011, ISSN 1996-0808 © 2011 Academic Journals.
25. Sahoo, S; Chakraborti, C K; **Mishra, S C**; Nanda, U N; Naik, S, Raman Spectroscopy as an Analytical Tool for Characterization of Fluoroquinolones, [dSPACE.nitrkl.ac.in:8080/dSPACE/handle/2080/1442](http://dSPACE.nitrkl.ac.in:8080/dSPACE/handle/2080/1442)
26. Mishra, H K; **Mishra, S C**, Erosion Wear Behaviour of Coir Dust Reinforced Polymer Composites, [dSPACE.nitrkl.ac.in:8080/dSPACE/handle/2080/1415](http://dSPACE.nitrkl.ac.in:8080/dSPACE/handle/2080/1415)
27. **S.C.Mishra**, H.Aireddy, Evaluation of dielectric behavior of bio-waste reinforced polymer composite, Journal of Reinforced Plastics and Composites , Volume 30 (2), 2011, p.134-141.
28. Sahoo, S; Chakraborti, C K; **Mishra, S C**; Nanda, U N, Scanning Electron Microscopy as an Analytical Tool for Particle Size Distribution and Aspect Ratio Analysis of Ciprofloxacin Mucoadhesive Polymeric Suspension, IJRRAS,6(1),January2011,p.94-100. [www.arpapress.com/Volumes/Vol6Issue1/IJRRAS\\_6\\_1\\_11.pdf](http://www.arpapress.com/Volumes/Vol6Issue1/IJRRAS_6_1_11.pdf).
29. **S.C.Mishra**, Alok Satapathy, K.P.Sreekumar and P.V.Ananthapadmanabhan; Red Mud - Fly Ash Composite Coating on Metal Substrates; Engineering Today,2004, Vol.VI(8), 10-11.
30. **S.C.Mishra**, S.K.Achrya, Effect of environment on fly-ash-jute polymer composite; Engineering Today,2004, Vol.VI(8), 12-13.

31. Sahoo, S; Chakraborti, C K; **Mishra, S C**; Naik, S; Nanda, U N, FTIR and Raman Spectroscopy as a Tool for Analyzing Sustained Release Hydrogel of Ciprofloxacin/Carbopol Polymer, International Journal of Pharmaceutical Sciences and Research, IJPSR (2011), Vol. 2, Issue 2.
32. Aireddy, H; **Mishra, S C**, Investigation on abrasive wear behavior of coir dust reinforced polymer Matrix composites Mar-2011, <http://dspace.nitrkl.ac.in/dspace/bitstream/2080/1425/1/apsrt+ful+paper.pdf>.
33. Dhal, J P; **Mishra, S C**; Nayak, B B, Effect of Niobium/Molybdenum Microalloying on SS316LN Steel, Applied Mechanics and Materials (Volumes 110 - 116), 1259-1263, doi: 10.4028/www.scientific.net/AMM.110-116.1259.
34. Sahoo, S; Chakraborti, C K; Nanda, U N; Naik, S; **Mishra, S C**, Analytical Characterization of Controlled Release Ofloxacin /Carbopol934 Mucoadhesive Polymeric Suspension, <http://dspace.nitrkl.ac.in:8080/dspace/handle/2080/1426>
35. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.** and Nanda, U.N. Scanning electron microscopy as an analytical tool for particle size distribution and aspect ratio analysis of ciprofloxacin mucoadhesive polymeric suspension, Int. J. Res. Rev. Appl. Sci., 6(1), 94-100, 2011.
36. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.**, Naik S. and Nanda, U.N. FTIR and Raman spectroscopy as a tool for analyzing sustained release hydrogel of ciprofloxacin/carbopol polymer, Int. J. Pharm. Sci. Res., 2(2), 268-277, 2011.
37. Sahoo, S., Chakraborti, C.K., Nanda, U.N, Naik S. and **Mishra, S.C.** Analytical characterization of controlled release Ofloxacin / Carbopol934 mucoadhesive polymeric suspension. Int. J. Pharm. Bio Sci., 2(2), 350-364, 2011.
38. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.**, Nanda, U.N and Naik S. Raman Spectroscopy as an Analytical Tool for Characterization of Fluoroquinolones. J. Pharm. Res., 4(4), 1129-1131, 2011.
39. Sahoo, S., Chakraborti, C.K. and **Mishra, S.C.** FTIR and Raman Spectroscopy Investigations of Controlled Release Ofloxacin/HPMC Mucoadhesive Suspension. Int. J. Pharmacy Technol., 3(2), 2420-2439, 2011.
40. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.**, Nanda, U.N and Naik S. FTIR and XRD investigations of some Fluoroquinolones. Int. J. Pharmacy Pharm. Sci. 3(3), 165-170, 2011.
41. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.**, and Naik S. Qualitative Analysis of a Controlled Release Mucoadhesive Suspension. Int. J. Novel Drug Deliv. Technol, 1(2), 150-169, 2011.
42. Sahoo, S., Chakraborti, C.K. and **Mishra, S.C.** Antibacterial activity of a mucoadhesive suspension containing ciprofloxacin. African J. Microb. Res., 5(5), 579-581, 2011.
43. Sahoo, S., Chakraborti, C.K., Naik S., **Mishra, S.C.** and Nanda, U.N. Qualitative analysis of ciprofloxacin carbopol polymeric composites, Trop. J. Pharm. Res., 10(3), 273-280, 2011. (DOI:10.4314/tjpr.v10i3.14)
44. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.** and Nanda, U.N. Qualitative analysis of environmentally responsive biodegradable smart Carbopol polymer. Int. J. Pharm. Sci. Rev. Res., 9(1), 8-13, 2011.
45. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.** and Naik S. Qualitative analysis of a controlled release Ofloxacin / HPMC mucoadhesive suspension. Int. J. Drug Develop. Res., 3(2), 217-232, 2011.
46. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.** and Naik S. Analytical characterization of a gelling biodegradable polymer. Drug Invention Today, 3(6), 78-82, 2011.

47. Sahoo, S., Chakraborti, C.K., **Mishra, S.C.** and Nanda, U.N. Particle size distribution and aspect ratio analysis of Ofloxacin mucoadhesive polymeric suspension using scanning electron microscopy. *Int. J. Pharm.*, <http://dspace.nitrkl.ac.in:8080/dspace/handle/2080/1426>.
48. Sahoo, S., Chakraborti, C.K., Behera, P.K. and **Mishra, S.C.** Analytical characterization of mucoadhesive Norfloxacin/Carbopol934 polymeric suspension. *Int. J. Pharm. Technol.*, Vol 2, Issue : 3, 195-204, 2011, DOI: 10.4103/2231-4040.85541
49. Sahoo, S., Chakraborti, C.K. and **Mishra, S.C.** Qualitative analysis of a controlled release Ciprofloxacin / C934 mucoadhesive suspension. *J. Adv. Pharm. Technol*, Vol 2, Issue : 3,195- 204, 2011, DOI: 10.4103/2231-4040.85541.
50. Patitapabana Parida, **Subash Chandra Mishra**, S Sahoo, FTIR Spectroscopic Invitro Drug Interaction Study of Nifedipine Microsphere, *International Journal of Pharmaceutical Studies and Research*, IJPSR/Vol. III/ Issue I/January-March, 2012, p. 2229-4619.
51. Ajit Behera, **S. C. Mishra**, "Dependence of Adhesion Strength of Plasma Spray On Coating Surface Properties", *Journal Of Materials And Metallurgical Engineering*, vol.2, issue 1, 2012, p.23-30.
52. Ajit Behera, **S.C Mishra**, S.S Mishra, "low cost Heusler ferromagnetic shape memory alloy", *Orissa Journal of Physics*, Vol. 19, No.1, February 2012, pp. 41-47,
53. **S.C Mishra** and Ajit Behera, "Utilization of Mathematical Model to Understand Martensitic Transformation in Ferromagnetic Shape Memory Alloys", *Orissa Journal of Physics*, Vol. 19, No.1, February 2012, pp. 49-56.
54. Ranjit Kumar Panda\*, Jyoti Prakash Dhal and **Subash Chandra Mishra**, EFFECT OF SODIUM SILICATE ON STRENGTHENING BEHAVIOUR OF FLY ASH COMPACTS, *International Journal of Current Research*, Vol. 4, Issue, 02, February, 2012, pp.244-246.
55. S K SWAIN, R K PANDA, J P DHAL, **S C MISHRA** and S SEN, Phase Investigation of Austempered Ductile Iron, *Orissa Journal of Physics*, Vol. 19, No.1, February 2012, pp. 73-80.
56. Ranjit Kumar Panda, Jyoti Prakash Dhal, **Subash Chandra Mishra**, Sudipta Sen, Effect of processing parameters on hardness and microstructure of austempered ductile iron, *International Journal of Current Research and Review*, Vol. 04 issue 05, pp 16-21.
57. H. Aireddy and **S. C. Mishra**, Tribological behavior and mechanical properties of Bio-waste reinforced polymer matrix composites, *Journal of Materials and Metallurgical Engineering*, Vol. 53, No. 2, April-June 2011, pp. 139-152.
58. Parida, P; **Mishra, S C**, Synthesis, Crosslinking and Evaluation of Graft Polymer for Biomedical Use; *Journal of Pharmaceutical Science*, Volume 3, Issue 1, April 2012, 37-45.
59. Behera, Ajit; **Mishra, S C**, Prediction and Analysis of Deposition Efficiency of Plasma Spray Coating Using Artificial Intelligence Method; *Open Journal of Composite Materials*, 2012, 2, 54-60.
60. Wesley, S B; Goyal, H S; **Mishra, S C**, Corrosion behaviour of ferritic steel, austenitic steel and low carbon steel grades in sugarcane juice; *Journal of Materials & Metallurgical Engineering*, Volume 2, Issue 1, April 2012, Pages 9–22.
61. Behera, Ajit; Dhal, J P; Parida, P; **Mishra, S C**, Phase analysis of NI-MN-SN ferromagnetic shape Memory alloys; *International Journal of Current Research and Review*, Vol. 04 issue 09 May 2012, 143-147.
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