

Profile

Name: Dr. Jagannatha Nayak



Designation: Professor, Dept. of Metallurgical and Materials Engg, NITK, Surathkal

❖ **Academic Qualification:**

Sl No	Qualifying Examination	Institute/Board	Year	Specialization/Area
1	PhD	NITK Surathkal	2005	Corrosion of Maraging Steels
2	M. Tech	I I T Bombay	1991	Process Metallurgy
3	BE	KREC Surathkal	1987	Metallurgical Engineering
4	PUC	MGM College Udupi	1982	PCMB
5	SSLC	PHS Parkala	1980	-

❖ **Employment details:**

Sl No	Position held	Period	Institute
1	Professor	30-10-2010 to till date	NITK Surathkal
2	Associate Professor	30-10-2006 to 29-10-2010	-Do-
3	Assistant Professor	10-05-2005 to 29-10-2006	-Do-
4	Selection Grade Lecturer	30-10-2003 to 09-05-2005	-Do-
5	Senior Scale Lecturer	30-10-1998 to 29-10-2003	-Do-
6	Lecturer	07-11-1992 to 29-10-1998	-Do-

❖ **Major Administrative positions held:**

Sl. No.	Position Held	Period	Institute
1	CVO (Part-time)	11-04-2022 till date	NITK Surathkal
2	Dean, (Students' Welfare)	15-10-2018 to 14-10-2021	NITK Surathkal
3	HoD, Dept. of MME	21-04-2014 to 19-04-2016	NITK Surathkal
4	Associate Dean (Academic, PG&R)	01-09- 2010 to 26-12-2014	NITK Surathkal
5	Warden of II Block	12-09-2007 to 31-12- 2010	NITK Hostels
6	Convener of Board of Studies	01-09- 2010 to 26-12-2014	NITK Surathkal
7	QIP Coordinator	01-09- 2010 to 26-12-2014	NITK Surathkal

❖ **Areas of Interest** : Heat Treatment, Materials Characterization , Ceramics, Corrosion of MMCs

❖ **Teaching Experience:** 30 + years

❖ **Research Activities:**

- (a) Funded Projects : 3
- (b) PhD Guidance : 8 Awarded, 2 in progress
- (c) M. Tech Projects : Guided 68 M. Tech projects, 3 in progress
- (d) Papers Published : 113 (54 Journal + 59 Conference proceedings)

❖ **Awards/Recognitions:**

- **National Merit Scholarship** by the Govt. of India for meritorious performance in SSLC.
- **SMIORE Gold Medal** for securing First Rank in BE Metallurgical Engineering (1987)
- **Best paper Award** - *Suma A Rao, Padmalatha, J Nayak and A N Shetty*, “Corrosion Inhibition of 6061 Al-15 V% SiC(p) Composite in Hydrochloric acid (Using Pyridinium salts of 1,3-Thiadiazole-2,5-dithiol and 1,2,4-Triazole-3,5-dithiol)”, 13th National Congress on Corrosion Control (NCCI) NMD, Mangalore, 12-14 October 2006.
- **Best paper Award-** *Suma A Rao, Padmalatha, J Nayak and A N Shetty*, “Corrosion Inhibition of 6061 Al-15 V% SiC(p) Composite in Hydrochloric acid (Using 8- Hydroxy Quinoline and Thiacetamide)”, 13th National Congress on Corrosion Control (NCCI) NMD, Mangalore, 12-14 October 2006.
- **Invited Lecture** was delivered on “Heat treatment of stainless steels” delivered at Short Term Training Programme on “Heat Treatment of Ferrous and Non Ferrous Alloys- Theory and Practice” organized during July 20-25, 2009, NITK Surathkal
- **Invited Lecture** was delivered on “Fundamentals of Heat treatment” delivered at Short Term Training Programme on “Heat Treatment of Ferrous and Non Ferrous Alloys- Theory and Practice” organized during July 20-25, 2009, NITK Surathkal

- **Invited Lecture** was delivered on “Corrosion damage and Corrosion of Advanced Materials” delivered at Short Term Training Programme on, “Surface Engineering”, 13-18 July, 2009, NITK Surathkal.
- **Invited Lecture** was delivered on “ Materials Characterization by Scanning Electron Microscopy” at the National Conference organized on 28th Dec 2010 at KVG College of Engineering, Sullia
- **Invited Lecture** was delivered on “Basics of Scanning Electron Microscopy” One day workshop on Dental Materials, Aug, 2011, KMC Mangalore
- **DAC member** for two Doctoral research works (Mr. Achut Kini and Mr. R Herale) at MIT, MAHE, Manipal

❖ **Conferences/Workshops Organized**

- Organized a National Conference on **Corrosion and Corrosion Control, METCORR-2005.**
- Organized a One Day workshop on **Materials Characterization, MACMET-2007.**
- Short Term Training Programme on “**Heat Treatment of Ferrous and Non Ferrous Alloys-Theory and Practice**”-2009
- International Conference on “**Recent Trends in Materials and Characterization-RETMAC-2010**

❖ **Other Responsibilities Undertaken at Institutional Level :**

- Core Committee Member “NITK Golden Jubilee celebrations” Aug 6, 2009 and Aug 10, 2009
- Chairman Food Committee-“ 24th Indian Engineering Congress”, 10-13, Dec 2009
- Chairman Food Committee-“ 39th ISTE Annual Convention”, 17-20, Dec 2009
- Chairman Registration Committee-“ Global alumni Meet”, 26-27 Dec 2009
- Chairman Food Committee-“ Annual Convocation”, 2008, 2009, 2010
- Chairman Food Committee- International Conference on “Frontiers in Mechanical Engineering” held at NITK during 20-22, May 2010
- Convener of Implementation Committee DASA Admissions -2013
- Dy. Center in-charge for Common M.Tech. admission (CCMT) – 2013
- Center in-charge for Common M.Tech. admission (CCMT) – 2012
- Core Committee member for Annual Convocation 2012
- Member of Central Counselling Board 2011 – Convener for the help center.
- Coordinator for Common M.Tech. admission (CCMT) – 2011
- Core committee member for Annual Convocation 2011
- Counseling for Common M Tech Admission (CCMT- 2010
- AIEEE Counseling for the years (2008, 2009 and 2010)

- Organizing GATE, JEE, JMAT during 2009, 2010, 2011, 2012 and 2013
- Member Sports Advisory Committee
- Member Security Committee.

❖ **Membership of Professional Bodies:**

1. Life member of Indian Institute of Metals
2. Life member of Institution of Engineers
3. Life member of Indian Society for Technical Education
4. Member of Indian Ceramic Society

❖ **List of Publications:**

1. Shivaram M J, S.B Arya, **Jagannath Nayak**, Bharat B Panigrahi, “Tribocorrosion Behaviour of Biomedical Porous Ti–20Nb–5Ag Alloy in Simulated Body Fluid”, *Journal of Bio-and Tribo-Corrosion* 7, (2) 1-9, March, 2021
2. Shivaram M J, S.B Arya, **Jagannath Nayak**, Bharat B Panigrahi, “Development and characterization of biomedical porous Ti□20Nb□5Ag alloy: Microstructure, mechanical properties, Surface bioactivity and Cell viability studies”, *Metals and 2Materials International* 1-11, Jan, 2021
3. Shivaram M J, S.B Arya, **Jagannath Nayak**, Bharat B Panigrahi, “Role of porosity on electrochemical corrosion behavior of porous Ti-20Nb-5Ag alloy in simulated body fluid”, *Materials Today: proceedings*, 33, 5257-5261, February, 2021
4. Shivaram M J, S.B Arya, **Jagannath Nayak**, Bharat B Panigrahi, “Electrochemical corrosion and Impedance studies of porous Ti- xNb-Ag alloy in physiological solution”, *Trans Indian Inst Met* 73, (4) 921-928, Feb, 2020
5. Shivaram M J, S.B Arya, **Jagannath Nayak**, Bharat B Panigrahi, “Influence of Ball Milling Time on Mechanical Properties of Porous Ti-20Nb-5Ag Alloy”, *International Journal of Materials and Metallurgical Engineering* 11 (9) 677-680, Jan, 2018
6. Vinay R. Kulkarni, **Jagannath Nayak**, and Vikram V. Dabhade, “Effect of Heat Treatment on properties of Sinter forged Fe-Cu-C-Cr Steel”, *Journal of Mechanical Engineering Research and Developments (JMERE)* 42(4) (2019) 225-277.
7. Vinay R. Kulkarni, **Jagannath Nayak** and Vikram V. Dabhade, “Effect of chromium addition on properties of sinter-forged Fe Cu C alloy steel”, *International Journal of Modern Physics B* Vol. 32, No. 19 (2018) p1-4
8. K Jayaprakash, B T Nadish, M Rijesh, **Jagannath Nayak**, Sachin Bhat, a Nityananda Shetty, Harish Kumar Shetty, Sudheendra Prabhu, “Fabrication of Hair and Copper fiber reinforced Polymethylmethacrylate (PMMA) Composites and evaluation of their Mechanical properties, Thermal conductivity and Color stability for Dental applications” *Trends in Biomaterials and Artificial Organs*, Vol 30, No.1 (2016)
9. Anand Kumar M G and **Jagannath Nayak** “Microwave Sintering: An Energy Efficient Process for Sintering Aluminium Metal Powder”, *The Journal of CPRI*, vol 12, No. 2, June 2016, pp 381-394.
10. Anand Kumar M G, Natarajan J R, Seetaramu S and **Jagannath Nayak** “A Study on Mechanical Behaviour of Microwave Sintered Aluminium Cenosphere based Synctactic Foams”, *The Journal of CPRI*, vol 12, No. 2, June 2016, pp 395-408.

11. M G Ananda Kumar, S Seetaramu, K Sampath Kumaran, **Jagannath Nayak**, “The Influence of Microwave Sintering on the Tribological Performance of Powder Metallurgy Based Aluminium Cenosphere Composites”, *Materials Science Forum*, Vol 830-831, (2015) pp 71-74. DOI: 10.4028/www.scientific.net/MSF.830-831.71
12. Melby Chacko and **Jagannath Nayak**, “Benzimidazole as Corrosion Inhibitor for Hetat treated 6061 Al-SiCp Composite in Acetic Acid” , *Journal of Physics Conference Series*, 622 (2015) 012035. DOI: 10.1088/1742-6596/622/1/2035.
13. Sudarshan Shetty, **Jagannath Nayak**, A Nityananda Shetty, “Influence of Sulphate ion Concentration an pH on the Corrosion of Mg-Al-Zn-Mn (GA9) Magnesium Alloy”, *Journal of Magnesium and Alloys* , 3 (2015) 258-270.
14. S Rajasekaran, S Selvam, **Jagannath Nayak**, N K Udayashankar, “Comparision of the Effect of Alumina and AlCrN Coatings on the Oxidation Behaviour of 6061 Al/SiCp Composites”, *International Journal of Applied Engineering Research* ISSN 0973-4562 Vol. 10, No 8 (2015) pp 6129-6132
15. S Bhavani, S Rajasekaran, S Selvam, **Jagannath Nayak**, N K Udayashankar, “Linera Regression Model of Corrosion Behaviour of 6061 Al/SiCp Composites with and without Protective Coating”, *International Journal of Applied Engineering Research* ISSN 0973-4562 Vol. 10, No 8 (2015) pp 6143-6146
16. M G Ananda Kumar, S Seetharamu, **Jagannath Nayak**, L N Satapathy, “A Study on Thermal Behaviour of Aluminium Cenosphere Powder Metallurgy Composites Sintered in Microwave” *Procedia Materials Science*, 5 (2014) 1066-1074
17. M G Ananda Kumar, S Seetharamu, and **Jagannath Nayak**, “A Study on the Physica and Morpholigical Characteristics of Aluminium Cenosphere Composites Sintered at High temperature in Microwave”, *The Journal of CPRI*, Vol 10, No.2, June 2014, 385-394
18. Reena Kumari, P. D, **Jagannath Nayak**, A. Nityananda Shetty, “Corrosion inhibition of aluminum type 6061 Al-15 vol. pct. SiC(p) composite in sodium hydroxide solution by 4-amino-5-(4-nitrophenyl)-4H-1,2,4-triazole-3-thiol”, *Procedia Material Science*, 5 (2014) 181 – 187. doi: 10.1016/j.mspro.2014.07.256
19. *Melby Chacko and Jagannath Nayak*, “Aging behaviour of 6061 Al-15 Vol % SiC composite in T4 and T6 treatments”, *International Journal of Chemical, Nuclear, Metallurgical & Materials Engineering*, 8 No 3 (2014), 195-198.
20. *S. Shetty, J. Nayak and A. N. Shetty*, “Electrochemical investigation on the corrosion behaviour of Mg-Al-Zn-Mn (GA9) alloy in sodium chloride medium”, *Journal for Electrochemistry and Plating Technology*, 1 (2014), 1-17.
21. *Reena Kumari P. D, Jagannath Nayak and A. Nityananda Shetty*, “Corrosion inhibition of aluminum type 6061 Al-15 vol. pct. SiC(p) composite in 0.5 M sodium hydroxide solution by 4-amino-5-phenyl-4H-1,2,4-triazole-3-thiol”, *Anti-Corrosion Methods and Materials*, 61(4), (2014) 241-249.
22. *N. K. Udayashankar, S. Rajasekaran and Jagannath Nayak*, “The effect of protective coatings on the oxidation behaviour of 6061 Al/SiC composite at high temperatures”, *Advanced Materials Research*, 383 (2012) 3949-3953.
23. *T. Poornima, Jagannath Nayak*, and *A. Nityananda Shetty*, "Effect of diacetyl monoxime thiosemicarbazone on the corrosion of aged 18 Ni 250 Grade Maraging Steel in sulphuric acid solution”, *Journal of Metallurgy*, 2012 (2012) doi:10.1155/2012/723687, Article ID 723687.
24. *T. Poornima, Jagannath Nayak and A. Nityananda Shetty*, “3,4-Dimethoxy benzaldehyde thiosemicarbazone as Corrosion Inhibitor for Annealed 18Ni 250 Grade Maraging Steel in 0.5 M Sulfuric Acid”, *Res. Rev. Electrochem.* 3(1) (2012) 1-11.

25. T. Poornima, **J. Nayak** and A. N. Shetty, "Corrosion inhibition of the annealed 18 Ni 250 grade maraging steel in 0.67 M phosphoric acid by 3,4-Dimethoxy benzaldehyde thiosemicarbazone", *Chemical Sciences Journal*, Vol. 2012: CSJ-69.
26. B. S. Sanatkumar, **Jagannath Nayak** and A. Nityananda Shetty, "Influence of 2-(4-chlorophenyl)-2-oxoethyl benzoate on the hydrogen evolution and corrosion inhibition of 18 Ni 250 grade weld aged maraging steel in 1.0 M sulfuric acid medium." *Int. J. Hydrogen Energy*, 37 (2012), 9431-9442.
27. B. S. Sanatkumar, **Jagannath Nayak** and A. Nityananda Shetty, "The corrosion inhibition of maraging steel under weld aged condition by 1(2E)-1-(4 - aminophenyl)-3-(2-thienyl) prop-2-en-1-one in 1.5 M hydrochloric acid medium." *J. Coat. Technol. Res.*, 9 (2012), 483-493.
28. B. S. Sanatkumar, **Jagannath Nayak** and A. Nityananda Shetty, "Corrosion behaviour of 18% Ni M 250 grade maraging steel under weld aged condition in sulfuric acid medium." *Chem. Eng. Commun.*, 199 (2012), 1610-1625.
29. Sanatkumar, B. S., **Nayak, J.** and Shetty. A. N. "Investigation of adsorption and corrosion inhibitive effect of 1(2E)-1-(4 amino phenyl)-3-(2-thienyl) prop-2-en-1-one on corrosion of weld aged maraging steel in 0.5 M sulfuric acid media." *J. Electrochem Soc. India*, **60** (2012), 153-161.
30. B. S. Sanatkumar, **J. Nayak** and A. N. Shetty, "Corrosion behaviour of 18% Ni M250 grade maraging steel under weld aged condition in hydrochloric acid medium." *Chemical Sciences Journal*, Volume 2011, CSJ-37
31. T. Poornima, **Jagannath Nayak** and A. Nityananda Shetty "Effect of 4-(N,N- diethylamino) benzaldehyde thiosemicarbazone on the corrosion of aged 18 Ni 250 grade maraging steel in phosphoric acid solution", *Corrosion Science*, **53** (2011), 3688-3696.
32. P. D Reena Kumari, **Jagannath Nayak** and A. Nityananda Shetty "3-Ethyl-4-amino-5- mercapto-1, 2, 4-triazole as corrosion inhibitor for 6061-alloy in sodium hydroxide solution." *Portugaliae Electrochimica Acta*, **29** (2011), 445-462.
33. Reena Kumari, P. D, **Jagannath Nayak** and A. Nityananda Shetty "Corrosion behavior of 6061/Al-15 vol. pct. SiC_(p) composite and its base alloy in sodium hydroxide solution." *Arabian Journal of Chemistry*. DOI: 10.1016/j.arabjc.2011.12.003 (2011).
34. Reena Kumari, P. D, **Jagannath Nayak** and A. Nityananda Shetty, "3-Methyl-4-amino-5-mercapto-1,2,4-triazole as corrosion inhibitor 6061/Al-15 vol% SiC_(p) Composite in 0.5 M Sodium Hydroxide Solution." *Journal of Materials and Environment Science*, **2** (2011), 387-402.
35. P. D Reena Kumari, **Jagannath Nayak** and A. Nityananda Shetty, "3-Ethyl-4-amino-5- mercapto-1,2,4-triazole as corrosion inhibitor for 6061/Al-15 vol% SiC_p composite in Sodium hydroxide solution." *Synthesis reactivity in Inorganic, Metal-Organic and Nano- Metal chemistry*, **41** (2011), 774-784.
36. P. D Reena Kumari, **Jagannath Nayak** and A. Nityananda Shetty, "3-Methyl-4-amino- 5-mercapto-1,2,4-triazole as corrosion inhibitor for 6061 Al alloy in 0.5 M Sodium hydroxide." *Journal of Coatings Technology and Research*. **8** (2011) 685-695.
37. N. K. Udayashankar, S. Rajasekaran and **Jagannath Nayak**, "Effect of heat treatment on pitting corrosion resistance of 6061Al/SiC_p coated by cerium oxide film in 3.5 N NaCl solution", *Journal of Surface Engineering and Applied Electro Chemistry*, **47** (2011) 176-182.
38. Rajasekaran. S, N. K. Udayashankar and **Jagannath Nayak**, "Effect of aging and protective coating on the corrosion behavior of 6061 Al / SiC_p Composite in Chloride Solutions", *Key Engineering Materials*, **462** (2011) 1397-1403.

39. S. Rajasekaran, N. K. Udayashankar and **Jagannath Nayak**, “The effect of aging and the protective coating on the oxidation behavior of 6061Al/SiC Composite at High Temperatures”, *Key Engineering Materials*, **462** (2011), 30-35.
40. Geetha Mable Pinto, **Jagannath Nayak** and A. Nityananda Shetty, “Adsorption and inhibitor action of 4-(N,N-Dimethylamino) benzaldehyde thiosemicarbazone on 6061 Al/SiC composite and its base alloy in sulfuric acid medium”, *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, **41** (2011) 127-140.
41. Geetha Mable Pinto, **Jagannath Nayak** and A. Nityananda Shetty, “Corrosion inhibition of 6061 Al-15 vol. pct. SiC(p) composite and its base alloy in a mixture of sulphuric acid and hydrochloric acid by 4-(N,N-dimethylamino) benzaldehyde Thiosemicarbazone”, *Materials Chemistry and Physics*, **125** (2011) 628-640.
42. T. Poornima, **Jagannath Nayak** and A. Nityananda Shetty, “3,4 Dimethoxy benzaldehyde thiosemicarbazone as corrosion inhibitor for aged 18 Ni 250 grade maraging steel in 0.5 M sulfuric acid”, *J Appl Electrochem*, **41** (2011), 223-233.
43. **J Nayak**, K R Hebbar, “Corrosion Inhibition of T-6 Treated 6061 Al-SiC Composite using Triglycine in Hydrochloric Acid”, *Surface Modification Technologies*, XXIII, Edited by T S Sudershan, U Kamachi Mudali and Baldev Raj.
44. T Poornima, **Nayak Jagannath** and A. Nityananda Shetty, “Studies on corrosion of aged and annealed 18 Ni M250 grade maraging steel in sulphuric medium”, *Portugaliae Electrochimica Acta*, **28** (2010), 173-188.
45. T Poornima, **Jagannath Nayak** and A. Nityananda Shetty, “Corrosion of aged and annealed 18 Ni M250 grade maraging steel in phosphoric acid medium”, *Int. J. Electrochem. Sci.* **5** (2010), 56-71.
46. T. Poornima, **Jagannath Nayak** and A. Nityananda Shetty, “Corrosion inhibition of the annealed 18 Ni 250 grade maraging steel in 0.67 M phosphoric acid by diacetylmonoxime thiosemicarbazone”. *J Electrochem Soc India*, 59 (2010) 87 – 97.
47. Geetha Mabel Pinto, **Jagannath Nayak** and A. Nityananda Shetty, “Corrosion Behaviour of 6061Al-15 vol. Pct. SiC Composite and its Base Alloy in a mixture of 1:1 Hydrochloric acid and Sulphuric Acid Medium”, *Int. J. Electrochem. Sci.* **4** (2009), 1452-1468.
48. Geetha Mabel PINTO, **Jagannath Nayak** and A. Nityananda SHETTY, “Corrosion Behaviour of 6061Al-15 vol. Pct. SiC Composite and its Base Alloy in Sulphuric Acid Medium”, *J. Chemistry and Chem. Engg.* ISSN 1934-7375, USA, 3, No. 8 (Aug 2009), 1-11.
49. **J. Nayak**, K. R. Hebbar, “Corrosion inhibition of T-6 treated 6061 Al-SiC(p) composite in hydrochloric acid”, *Trans. Indian. Inst. Met.*, **61** (2008), 221-224.
50. N. K. Udayashankar, S. Rajasekaran, and **Jagannath Nayak**, “Oxidation and corrosion resistance of TiAl₃ Coatings”, *Trans. Indian. Inst. Met.*, **61** (2008), 231.
51. Suma A. Rao, Padmalatha, **J. Nayak** and A. N. Shetty, “Glycyl Glycine as Inhibitor of Corrosion of 6061Al-15Vol.Pct. SiC(p) Composite in Hydrochloric Acid” *Transactions of SAEST*, **41** (2006) 1.
52. Suma A. Rao, Padmalatha, **J. Nayak** and A. N. Shetty, “3-Methyl-4-Amino- 5-Mercapto-1,2,4-Triazole as Inhibitor of Corrosion of 6061 Al-15 Vol. pct. SiC(p) Composite in Hydrochloric Acid” *Journal of Met. & Mater. Sci.*, **47** (2005), 51.
53. J Nayak, K R Udupa and K R Hebbar, “Prediction of Embrittlement during Aging of Nuclear Grade AISI 304 SS TIG Welds”, *Materials Science and Technology*, 21 No. 10 (2005), 1161.
54. J Nayak, K R Udupa and K R Hebbar, “Estimation of Embrittlement during Aging of Nuclear Grade AISI 316 SS TIG Welds”, *Bull. Mat. Sci.*, 27 No. 6 (2004), 511.

Papers Presented/Published in Conferences/Seminars:

1. *J. Nayak, Sastry, T.R. R. Mohan* “Development of TZP using MgO and CeO₂”, 54th Annual session of Indian Ceramic Society, BARC, Bombay, Nov. 1990.
2. *J. Nayak, Sastry, T.R. R. Mohan* “ Stabilization of Tetragonal Phase in Mg-PSZ using CeO₂ additions” 94th annual meeting and exposition of American Ceramic Society, Minneapolis, April 1992.
3. *P. Saravanan, J. Nayak, K R Hebbar & H V Sudhaker Nayak* “Corrosion Behaviour of 18 Ni 250 Grade Maraging steels in Acid Medium (Effect of Temperature and Inhibitors)”, East Asia Pacific Regional Conference CORCON-2002, Nov. 28-30, 2002 at Cidade De Goa.
4. *Dandi G.C, Rajesh, J. Nayak, K.R.Udupa, K.R Hebbar and H.V.S. Nayak*, “Effect of Aging on the Impact Behaviour of Nuclear Grade AISI Stainless Steel TIG Welds”, Second National Conference on “Quality Control in Metallurgical Industries”, Dec. 5-6, 2003, PSG Tech. Coimbatore.
5. *Jagannath Nayak, A.O.Surendranathan, H.V. Sudhaker Nayak, K.R.Hebbar & A.K.Jha* “ Effect of Heat Treatment on the Corrosion Behaviour of 18 Ni 250 Grade Maraging Steel in Sea Water”, National Conference on “Advances in Materials and Their Processing”, Dec 22-23, 2003, BEC, Bagalkot.
6. *Namitha M, Jagannath Nayak & K.R.Hebbar*, “ Tempcore Treatment on Medium Carbon Steel”, National Conference on “Advances in Materials and Their Processing”, Dec 22-23, 2003, BEC, Bagalkot.
7. *J. Nayak, K. R. Udupa, K R Hebbar and H. V. Sudhaker Nayak*, “Development of an Empirical Relation to Predict Embrittlement During Aging of Nuclear Grade AISI 304 SS TIG welds”, Proceedings of National Workshop on “Remaining Life Assessment of Power components” held at CPRI, Bangalore during Feb. 12-13, 2004.
8. *J. Nayak, K R Hebbar and H. V. Sudhaker Nayak*, “Effect of heat treatment on the corrosion behaviour of 18Ni M250 grade maraging steel in acid medium”, Proceedings of Seminar on “Perspectives in minerals, metals and materials” at Dept. of metallurgy, Indian Institute of Science, Bangalore, July 22-23, 2004.
9. *J. Nayak, K. R. Udupa, K R Hebbar and H. V. Sudhaker Nayak*, “Prediction of embrittlement during aging of nuclear grade AISI 316 stainless steel TIG welds”, Proceedings of Seminar on Perspectives in minerals, metals and materials at Dept. of metallurgy, Indian Institute of Science, Bangalore, July 22-23, 2004.
10. *J. Nayak, K. R. Udupa, K R Hebbar and H. V. Sudhaker Nayak*, “Prediction of embrittlement during aging of nuclear grade AISI 316 stainless steel TIG welds”, Proceedings of Seminar on Perspectives in Minerals, Metals and Materials, Indian Institute of Science, Bangalore, July 22-23, 2004.

11. *J. Nayak, K.R.Hebbar and H.V. S. Nayak* “corrosion behaviour of maraging steel welds in acid media” National seminar on “Recent Advances in Electrochemical and Surface Sciences for Industry and Society” , 3-4th Dec 2004, Kuvempu University, Shimoga.
12. *J. Nayak, A. O. Surendranathan, K. R. Hebbar & H. V. S. Nayak*, “Effect of Material Condition on the corrosion Behaviour of Maraging Steels in Alkaline Media”, Proceedings of International Seminar on Perspectives in Metals and Materials Research, I. I. Sc. Bangalore, 28-29 July 2005.
13. *Suma Rao, Padmalatha, J. Nayak, A. N. Shetty, K. R. Hebbar & H. V. S. Nayak*, “Corrosion Inhibition of Al-SiC Composites in Hydrochloric Acid”, Proceedings of International Seminar on Perspectives in Metals and Materials Research, I. I. Sc. Bangalore, 28-29 July 2005.
14. *T Selvi, J Nayak, K R Hebbar and H V S Nayak* “Effect of Aging on Corrosion Inhibition of Al6061-SiC_(p) Composites in HCl”, National Conference on Corrosion and Corrosion Control, METCORR-2005, NITK Surathkal, Oct. 28-29, 2005.
15. *Suma A Rao, Padmalatha, J Nayak, A N Shetty and K R Hebbar* “Corrosion Behaviour Of 6061Al-15 Vol Pct. SiC_(p) in Hydrochloric Acid” (Study of Inhibitive Effect of Allyl Thiourea), National Conference on Corrosion and Corrosion Control, METCORR-2005, NITK , Surathkal, Oct. 28-29, 2005.
16. *Avinash Balakrishnan, A.K.Jha, K.Sreekumar, Saroja Kanchan, Jagannath Nayak, A.O.Surendranathan and K.R.Hebbr*, , “Corrosion Behaviour of 18 Ni 250 grade Maraging Steel in Neutral and Alkaline Media” , NMD-ATM 2005, 14-16 Nov. 2005, IIT Madras, Chennai
17. *Sunil Pai, J. Nayak, K. R. Hebbar, H. V.S. Nayak* “Effect of Aging on Corrosion Behaviour Of 6061Al- SiC_(p) Composites in Hydrochloric Acid”, NMD-ATM 2005, 14-16 Nov. 2005, IIT Madras, Chennai.
18. *Rajan, J Nayak, KR Hebbar and V V Bhanuprasad*, “Effect of Reinforcement size and volume fraction on corrosion behaviour of Al 2124 -SiC_(p) Composites in hydrochloric acid” ,5th National conference MICMEP-2006, Feb.10-12, 2006, Baroda.
19. *J. Nayak and K. R. Hebbar*, “Corrosion Behaviour of Al alloy -SiC_(p) Composites” National Seminar on Advances in Nano, Metal and Ceramic Composites, Feb. 23-24, 2006, RRL Trivandrum.
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