

## *Curriculum Vitae*

Dr. Nilay N. Khobragade  
34-35, Attadeep, Mamata Lay-Out, Sonegaon, Nagpur-440025, India  
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### ***WORK HISTORY***

January 1999 - Present, Government College of Engineering, Amravati, 444604, India  
*Assistant Professor, Metallurgy Department*

January 1999 – August 1996, Ashok Leyland Limited, India  
*Assistant Engineer, Quality Control, Heat Treatment Shop*

August 1996 – April 1994, Bharat Earth Movers Limited, Bangalore, India  
*Management Trainee, Quality Control and Sale of Spare parts*

### ***EDUCATION***

Bachelor of Engineering in Metallurgical Engineering from Regional Engineering College, Tiruchirapalli, India

Master of Technology in Ferro-alloy Technology and Alloy Steel Making from Visvesvaraya National Institute of Technology, Nagpur, India

Doctor of Philosophy in Metallurgical and Materials Engineering from Visvesvaraya National Institute of Technology, Nagpur, India

Ph. D. Thesis Title: Studies on passivity of AISI 304 and Chrome Manganese Austenitic Stainless Steels: Effect of  $Cl^-$ , pH and Inhibitors

Examiner: Prof. K. Natarajan, Emeritus Professor, IISc Bangalore.

### **List of Research Papers Published**

[1] **Paper Presentation at International Conference of IIM and published in Proceedings**

Title: Effect of oxidizer ( $MnO_4^-$ ) addition on passivation of AISI 304 stainless steel in 0.4/ 0.5N  $H_2SO_4$  solution

N.N. Khobragade, A.P.Patil  
62<sup>nd</sup> Annual Technical Meeting of Indian Institute of Metals  
14-16 November 2008, New Delhi

[2] **Paper presented and published in Proceedings of International Symposium at IIT Madras**

Title: Studies on Passivation of AISI 304 stainless steel in 0.4/ 0.5N  $H_2SO_4$  and effect of oxidizer ( $MnO_4^-$ ) addition

N.N. Khobragade, A.P.Patil

International Symposium for Research Scholars on Metallurgy, Materials Science and Engineering-2008  
December 10-12, 2008, IIT Madras, Chennai

**[3] Paper Presented and published in Proceedings at VIT, Vellore**

Title: Effect of chloride ions on the passivity of AISI 304 in 0.1N nitric acid  
N.N. Khobragade, A.P. Patil  
Fifteenth National Convention of Electrochemists  
February 18-19, 2010 at VIT University, Vellore

**[4] Paper Presentation at International Conference at IISc Bangalore**

Title: Effect of Dissolved Oxygen on the Passivity of AISI 304 in 0.1N nitric acid containing chloride ions  
N.N. Khobragade, A.P. Patil  
64<sup>th</sup> Annual Technical Meeting of Indian Institute of Metals  
15-16 November 2010, Indian Institute of Science, Bangalore

**[5] Paper published in International Journal**

Title: Prediction of thermal profile of HAZ during welding using MATLAB  
R.V. Taiwade, A.P. Patil, M.S. Bihade, N.N. Khobragade  
IJAER, Vol. 5, November 11, (2010), pp. 1855-1863  
ISSN 0973-4562

**[6] Paper published in International Journal (SCI)-TIIM- Springer**

Title: Analysis of Electrochemical Current Noise From Metastable Pitting of SS304L in NaCl Solutions  
M. S. Bihade, A. P. Patil, N. N. Khobragade  
Transactions of Indian Institute of Metals, Springer, Published Online 16 January 2013

**[7] Paper published in International Journal (SCI)-TIIM- Springer**

Title: Corrosion Behaviour of Chrome–Manganese Austenitic Stainless Steels and AISI 304 Stainless Steel in Chloride Environment  
N. N. Khobragade, M. I. Khan, A. P. Patil  
Transactions of Indian Institute of Metals, Springer, Published Online 8 October 2013

**[8] Proceedings of International Conference Arranged by IIT- Powai, CORCON 2013**

Title: Electronic Properties of Passive Films formed on AISI 304 SS: Effect of Chloride  
N. N. Khobragade, A. P. Patil  
CORCON 13, NIGIS Sept 30- Oct 3, 2013, New Delhi

**[9] Paper Published in Proceedings of EUROCORR 2014**

Title: Effect of HNO<sub>3</sub> and Cl<sup>-</sup> on Corrosion Behaviour of AISI 304 and Cr-Mn Austenitic Stainless Steels  
N. N. Khobragade, A. P. Patil  
Eurocorr, 8-12 September 2014

**[10] Paper presented and in Proceedings of NACE, CORCON 2014**

Title: Effect of various ratios of nitric acid-chloride on electronic properties of passive films on AISI 304L  
N. N. Khobragade, A. P. Patil  
CORCON 14, NIGIS Nov 12- 15, 2014, Mumbai

**[11] Paper presented and in proceedings of 17 Asian Pacific Corrosion Control Conference, IIT Bombay (17 APCCC)**

Title: Investigation on susceptibility of Cr-Mn austenitic SS and AISI 304 austenitic SS to intergranular corrosion using electrochemical techniques (Paper no. 17080)  
Ankur Bansod, Awanikumar P. Patil, Nilay Khobragade  
17 APCCC, 27-30 January 2016, IIT Bombay, Mumbai, India

**[12] Paper published in Journal (SCI), Journal of Materials Engineering and Performance**

Title: Intergranular Corrosion Behaviour of Low-Nickel and 304 Austenitic Stainless Steels  
Ankur V. Bansod, Awanikumar P. Patil, Abhijeet P. Moon, and Nilay N. Khobragade  
**Journal of Materials Engineering and Performance, ASM, published online: 25 July 2016**

**[13] Paper published in Journal (SCI), Materials Research Express**

Title: Effect of concentration of hyaluronic acid and NaCl on corrosion behavior of 316L austenitic stainless steel  
AV Bansod, NN Khobragade, KV Giradkar, AP Patil  
Material Research Express 4(11), 116508, 10 Nov 2017

**[14] Paper published in Journal approved by UGC**

Title: Studies on passivation of AISI 304 stainless steel in 0.4/0.5N H<sub>2</sub>SO<sub>4</sub> and effect of oxidizer MnO<sub>4</sub><sup>-</sup> addition  
N. N. Khobragade and Dr. A. P. Patil  
International Journal of latest trends in Engineering and Technology  
Vol (9) Issue (2), pp 101-105 November 2017

**[15] Paper published in Journal approved by UGC**

Title: Effect of HNO<sub>3</sub> and Cl on corrosion behavior of Cr-Mn austenitic stainless steels  
Nilay N. Khobragade, Awanikumar P. Patil  
International Journal of latest trends in Engineering and Technology  
Vol (10) Issue (1), pp 113-120 March 2018

**[16] Paper published in Journal (SCI), Materials Research Express**

Title: Effect of concentration and surface roughness on corrosion behaviour Co-Cr-Mo in hyaluronic acid  
Nilay N Khobragade, Ankur V Bansod, , Karansagar V Giradkar, Awanikumar P Patil, Ketan Jagtap, Raju Pawde and Abhijeet Moon  
Material Research Express 5(1), 015403, 24 January Nov 2018

**[17] Paper published in Journal (SCI), Materials Research Express**

Title: Effect of dissolved oxygen on the corrosion behavior of 304 SS in 0.1N nitric acid containing chloride

Nilay N Khobragade, Ankur V Bansod, Awanikumar P Patil  
Material Research Express 5(4), 046526, 18 April 2018

**[18] Paper published in Journal (SCI), International Journal of Materials Research**

Title: Effect of various ratios of nitric acid- chloride on electronic properties of passive films on AISI 304L stainless steel

Nilay N Khobragade, Ankur V Bansod, Awanikumar P Patil and Manish Bihade  
International Journal of Materials Research, Vol 109, Issue 6 (June 2018)

**Summary of Research Papers:**

Journals SCI: 7

Other Journals **approved by UGC**: 3

Papers in Proceedings of National Conference: 1

Papers in Proceedings of International Conference: 7