

CURRICULUM VITAE



Personal Data

Name Mir Nariman
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Educational Background (Last One First)

Certificate Degree	Field of Specialization	Name of Institution	Date Received
Ph.D.	Materials Engineering	Sahand University of Technology, Tabriz, Iran	2011
M.Sc.	Material Characterization and Selection	Sahand University of Technology, Tabriz, Iran	2006
B.Sc.	Metallurgical Engineering	Sahand University of Technology, Tabriz, Iran	2004
Title of Ph.D. Thesis Investigation on the Effect of Cobalt Substitution by Modification of Manganese and Chromium on Microstructure and Mechanical Properties of Nanostructured, Low-Temperature Bainitic Steels			
Title of M.Sc. Thesis The Influence of Heat Treatment and Surface Treatment on Fatigue Behaviour of SAE 1045			

Teaching Experiences (Last One First)

Title of Course	Level	Date		Name of Institution
		From	To	
Engineering and Materials Science	B.Sc.	2011	Continue	University of Applied Science and Technology
Principles of Metal Forming	B.Sc.	2011	Continue	University of Applied Science and Technology
Advanced Analysis of Engineering Materials	B.Sc.	2011	Continue	University of Applied Science and Technology
Phase Transformations	B.Sc.	2011	Continue	University of Applied Science and Technology
Analysis and Characterization of Materials	M.Sc.	2012	2015	University of Applied Science and Technology

Academic Positions (Last One First)

Title of Position	Field of Specialization	Date		Name of Institution
		From	To	
Assitant Professor	Materials Engineering	2011	Continue	University of Applied Science and Technology, Tabriz, Iran

Administrative Positions (Last One First)

Job Title	Date		Name of Institution
	From	To	
President of University of Applied Science and Technology of Province of Zanjan of Iran	2022	Continue	University of Applied Science and Technology, Province of Zanjan, Iran
Vice Chancellor for Education, Research and Technology	2011	2022	University of Applied Science and Technology, Provinace of East Azarbaijan, Iran
Chief of Reserch and Develoment Section	2004	2009	Iran Tractor Foundry Company, Tabriz, Iran
Chief of Quality Control Section	2003	2004	Amirnia Company, Tabriz, Iran

Master and Doctorate Thesis Supervision

No	Full Name of Student	Level	Title of Thesis
1	Nader Vahedi	M.Sc.	The Effects of Tempering Treatment on Wear Strength of Carburized 16MnCr5 Steel used in High Speed Spindles of Machine Tools
2	Ali Almasi	M.Sc.	The Effects of Surface Heat Treatments on Wear Strength of 16MnCr5 Steel used in High Speed Spindles of Machine Tools
3	Babak Mahmodpoor	M.Sc.	The Effects of Carbonitriding Treatment on Fatigue Behavior of 16MnCr5 Steel used in High Speed Spindles of Machine Tools
4	Abbas Rezazadeh	M.Sc.	The Effects of Empirical Carbonitriding Treatment on Fatigue Behavior of 16MnCr5 Steel used in High Speed Spindles of Machine Tools
5	Sajjad Kahani	M.Sc.	The Effects of Tempering Treatment on Fatigue Behavior of Carburized 16MnCr5 Steel used in High Speed Spindles of Machine Tools
6	Bahar Ali Roohani	M.Sc.	The Effects of Tempering Treatment on Impact Toughness of Carburized 16MnCr5 Steel used in High Speed Spindles of Machine Tools

Master and Doctorate Thesis Advisor

No	Full Name of Student	Level	Title of Thesis
1	Ramazan Zolfaghari	M.Sc.	Evaluation on the Effects of Heat Treatment Parameters on Impact Toughness Behavior of Nanostructured, Low Temperature Bainitic Steels
2	Tarlan Hajilo	M.Sc.	An Investigation on Microstructure Variation during Plastic Deformation in Nanostructured, Low Temperature Bainitic Steels
3	Emad Ghanbari	M.Sc.	The Effects of Cast Structure Modification on Fracture Toughness of Nanostructured, Low Temperature Bainitic Steels
4	Hadi Mahmoudi	M.Sc.	Investigation on the Effects of Continuous Cooling Treatment in Short Temperature Range on Microstructure and Mechanical properties of Nanostructured, Low Temperature Bainitic Steels
5	Fatemeh Farhang Mehr	M. Sc.	The Effects of Tempering Treatment on Tensile Properties of Nanostructured, Bainitic Steels
6	Hamed Vejdani Jahromi	Ph. D.	TIG-FSW Hybrid Welding of High Carbon Nanostructured, Bainitic Steels
7	Sajjad Yans	M. Sc.	Effect of Microstructure on Wear Behavior of Ductile Irons Containing Carbide
8	Milad Soltani	M. Sc.	Variations of Microstructural and Mechanical Properties in Resistance Spot Welding of Low-Carbon Bainitic Steels

Publications

A) Journal Papers

1. S. Yazdani, **M.N. Yoozbashi**, A.R. Ebrahimi, Enhancement of Fatigue Strength of SAE 1045 Steel by Tempering Treatment and Shot peening, *Mater. Sci. forum* 561-565 (2007) 41-44.
2. **M.N. Yoozbashi**, S. Yazdani, Mechanical Properties of Nanostructured, Low Temperature Bainitic Steel Designed Using a Thermodynamic Model, *Mater. Sci. Eng. A* 527 (2010) 3200-3205.
3. **M.N. Yoozbashi**, S. Yazdani, T.S. Wang, The Effects of Chemical Composition Variations on Microstructure and Mechanical Properties of Nanostructured, Low Temperature Bainitic Steels, *International Journal of Iron & Steel Society of Iran* 7(2) (2010) 6-11.
4. **M.N. Yoozbashi**, S. Yazdani, T.S. Wang, Design of a New Nanostructured, High-Si Bainitic Steel with Lower Cost Production. *Mater and Design* 32 (2011) 3248–3253.
5. **M.N. Yoozbashi**, S. Yazdani, Acceleration of Bainitic Transformation in Nanostructured, Low Temperature Bainitic Steels by Using of Thermodynamic Model, *Solid State Phenomena* 172-174 (2011) 214-220.
6. B.R. Shendy, **M.N. Yoozbashi**, B. Avishan, S. Yazdani, An Investigation on Rotating Bending Fatigue Behavior of Nanostructured, Low-Temperature Bainitic Steel, *Journal of Acta Metallurgica Sinica (English Letters)* 27(2) (2014) 233-238.
7. **M.N. Yoozbashi**, S. Yazdani, XRD and TEM study of bainitic ferrite plate thickness in nanostructured, carbide free bainitic steels, *Materials Chemistry and Physics, Materials Chemistry and Physics* 160 (2015) 148-154.
8. **M.N. Yoozbashi**, N. Vahedi, A. Almasi, The effects of Tempering Temperature on Wear Behavior of AISI 5115 Steel Used in Spindles of Machine Tools (In Persian), *Journal of Mechanical Engineering of University of Tabriz* 47(3) (2017), 297-305.
9. **M.N. Yoozbashi**, T. Hajilou, E. Akbarzadeh Chiniforush, S. Yazdani, Mechanical Stability of Retained Austenite in the Nanostructured, Carbide Free Bainitic Steels during Tensile Testing and Cold Rolling Process, *International Journal of Iron & Steel Society of Iran* 14 (2017) 27-32.
10. **M.N. Yoozbashi**, A. Almasi, The Effect of Various Surface Heat Treatments on Wear Behavior of 16MnCr5 Steel used in Spindles Axis of Machine Tools (In Persian), *Journal of Mechanical Engineering of University of Tabriz* 48(1) (2018), 351-357.
11. **M.N. Yoozbashi**, S. Yazdani, Effects of Pretreatment Prior to Electroless Ni-P Plating on Fatigue Behavior of SAE 1045 Steel, *International Journal of Iron & Steel Society of Iran* 16(1) (2019) 9-13.
12. **M.N. Yoozbashi**, Fatigue Behavior Optimization of the 16MnCr5 Steel Used in Machine Tool Spindle via Different Surface Treatments, *International Journal of Iron & Steel Society of Iran* 16(2) (2019) 9-15.
13. **M.N. Yoozbashi**, Study of substitution of carburized 16MnCr5 used in sub-axis of machine tool spindle by carbonitrided steel, *Int. J. Materials Engineering Innovation* 14(1) (2023) 79-93.
14. **M.N. Yoozbashi**, R. Zolfaghari, S. Yazdani, S. Tekeli, Other Aspects of the Impact Fracture Toughness-Microstructure Relationship in Nano-Bainitic Steels, *Journal of Materials Engineering and Performance*, 1-9, 2024, <https://doi.org/10.1007/s11665-023-08971-6>.

B) Papers Presented in National and International Conferences

1. **M.N. Yoozbashi**, S. Yazdani, A.R. Ebrahimi, The Effects of Pre-coating Treatment on Fatigue behaviour of SAE 1045 (In Persian), *Proc. of the 7th Conf. of Surface Engineering and Heat Treatment*, 16-17 May 2006, Esfahan, Iran, 1503-1510.
2. **M.N. Yoozbashi**, A.R. Ebrahimi, S. Yazdani, The Effects of Tempering Temperature on Fatigue Behaviour of SAE 1045 (In Persian), *Proc. of the 10th Conf. Iranian Metallurgical Engineers Society*, 16-17 Nov 2006, Mashhad, Iran.
3. **M.N. Yoozbashi**, S. Yazdani, A.R. Ebrahimi, The Effects of Shot Peening Treatment on Fatigue Behaviour of SAE 1045 (In Persian), *Proc. of the 11th Conf. of Iranian Metallurgical Engineers Society and 19th Conf. of Iranian Casting Society*, 23-24 Oct 2007, Esfahan, Iran.
4. S. Yazdani, **M.N. Yoozbashi**, A.R. Ebrahimi, Enhancement of Fatigue Strength of SAE 1045 by Tempering Treatment and Shot Peening, *The Six Pacific Rim International Conf. on ... (PRICM 6)*, 5-9 Nov 2007, ICC Jeju Korea.
5. **M.N. Yoozbashi**, S. Yazdani, Acceleration of Bainitic Transformation in Nanostructured, Low Temperature Bainitic Steels by Using of Thermodynamic Model, *Solid-Solid Phase Transformation in Inorganic Materials (PTM 2010)*, 6-11 June, 2010, Avignon, France.

6. **M.N. Yoozbashi**, S. Yazdani, T.S. Wang, The Effects of Isothermal Treatment Parameters on Microstructure and Mechanical Properties of Nanostructured, High Carbon Bainitic Steels, International Conference on the Advancement of Materials and Nanotechnology 2010 (ICAMN II-2010), Selangor, Malaysia.
7. R. Zolfaghari, S. Yazdani, **M.N. Yoozbashi**, Investigation on the Microstructure and Impact Toughness of Nanostructured, Low Temperature Bainitic Steels (In Persian), Proc. of the 4th Conf. of Iranian Metallurgical Engineers Society and Iranian Casting Society, 15-16 Nov. 2010, Tehran, Iran.
8. **M.N. Yoozbashi**, S. Yazdani, The effects of Isothermal Treatment Parameters on Microstructure and Mechanical Properties of nanostructured bainitic steels (In Persian), Proc. of the 5th Joint Congress of Iranian Metallurgical Engineering Society & Iranian Foundryman's Society, 25-26 Oct. 2011, Esfahan, Iran.
9. E. Omidvar, **M.N. Yoozbashi**, Abolfazl Karimi, S. Yazdani, Investigation on the Austempering Transformation in high Silicon Nanostructured, Bainitic steel (In Persian), Proc. of the 90 Steel Symposium, Institute of Iron & Steel Society of Iran and Folad Mobareke Company, 28-29 Feb. 2012, Esfahan, Iran.
10. A. Almasi, **M.N. Yoozbashi**, N. Vahedi, Comparison of the Wear Behavior of Carburized and Carbonitrided 16MnCr5 Steel used in Machine Tool Spindle (In Persian), 1st Iran Congress on Industrial Applications of Advanced Materials and Manufacturing, 24-26 May 2017, Tehran, Iran.
11. **M.N. Yoozbashi**, N. Vahedi, A. Almasi, The Effect of the Tempering Temperature on the Wear Behavior of Carburized 5115 Steel in Accordance with the Manufacturing Process of the Machine Tool Spindle in the Industry (In Persian), 1st Iran Congress on Industrial Applications of Advanced Materials and Manufacturing, 24-26 May 2017, Tehran, Iran.
12. A. Almasi, **M.N. Yoozbashi**, N. Vahedi, Wear Behavior Comparison between Carburized and Nitrided 16MnCr5 Steel used in the Spindle of Machine Tools (In Persian), The International Conference on Materials Engineering and Metallurgy (iMAT2017), 28-29 Oct. 2017, Tehran, Iran.
13. **M.N. Yoozbashi**, B. Mahmoodpoor, A. Rezazadeh, The Effects of Carburizing Treatment on the Rotating Bending Fatigue Behavior of 16MnCr5 Steel used in Spindle Machine Tools (In Persian), The International Conference on Materials Engineering and Metallurgy (iMAT2017), 28-29 Oct. 2017, Tehran, Iran.
14. **M.N. Yoozbashi**, N. Vahedi, A. Almasi, The Effects of Tempering Temperature without Quenching Stage on the Wear Behavior of 5115 Steel used in Spindle Machine Tools (In Persian), The International Conference on Materials Engineering and Metallurgy (iMAT2017), 28-29 Oct. 2017, Tehran, Iran.
15. **M.N. Yoozbashi**, The Effects of the Tempering Temperature after a Single Stage Quenching Treatment on the Wear Behavior of the 1.7131 Steel used in the Machine Tool Spindle (In Persian), Proc. of the 96 Steel Symposium, 27-28 Feb. 2018, Kish, Iran.
16. **M.N. Yoozbashi**, An Investigation on the Effects of Carburizing and Carbonitriding on Fatigue Behavior of 16MnCr5 Steel Used in Machine Tool Spindle (In Persian), The International Conference on Materials Engineering and Metallurgy (iMAT2018), 9-10 Oct. 2018, Tehran, Iran.
17. **M.N. Yoozbashi**, The Effects of Tempering Temperature on Fatigue Behavior of SAE 5115 Steel Used in Machine Tool Spindle (In Persian), The International Conference on Materials Engineering and Metallurgy (iMAT2018), 9-10 Oct. 2018, Tehran, Iran.
18. A. Almasi, **M.N. Yoozbashi**, Wear Behavior Comparison of 16MnCr5 Steel Used in Machine Tool Spindle in Carburized and Nitrocarburized Conditions (In Persian), The International Conference on Materials Engineering and Metallurgy (iMAT2018), 9-10 Oct. 2018, Tehran, Iran.
19. A. Almasi, **M.N. Yoozbashi**, Wear Behavior Comparison of 16MnCr5 Steel Used in Machine Tool Spindle in Carburized and Carburizing after Nitriding Conditions (In Persian), 8th International Conference on Materials Engineering and Metallurgy (iMAT2019), 7-8 Oct. 2019, Tehran, Iran.
20. **M.N. Yoozbashi**, Possibility of using of Carbonitrided 16MnCr5 steel in machine tool spindle from the perspective of fatigue behavior (In Persian), 9th International Conference on Materials Engineering and Metallurgy (iMAT2020), 10-11 Nov. 2020, Tehran, Iran.
21. A. Almasi, **M.N. Yoozbashi**, S.V. Fardin, A.H. Bagi, Comparison of Abrasion Behavior of Nitrogenized Steel 7131 with Nitrocarbonation Method for use in Machine Spindle (In Persian), 5th International Conference on Mechanical Engineering, Materials and Metallurgy, 16 Jun. 2021, Tehran, Iran.
22. **M.N. Yoozbashi**, Investigation of Substitution of Carburizing Heat Treatment by Carburizing after Nitriding Empirical Treatment in Sub-Axis of Machine Tool Spindle (In Persian), 10th International Conference on Materials Engineering and Metallurgy (iMAT2021), 15-16 Nov. 2021, Tehran, Iran.
23. H.V. Jahromi, A.R. Ebrahimi, E.R. Nodeh, **M.N. Yoozbashi**, Welding High-Strength Nanostructured Bainitic Steel and Investigating the Effect of the FSP Process on the Quality of the Weld (In Persian), 10th International Conference on Materials Engineering and Metallurgy (iMAT2021), 15-16 Nov. 2021, Tehran, Iran.

C) Research Activities

No	Title of Project	Place of work	Supervisor	Advisor	Date	
					From	To
1	Fatigue Behavior of Cast Parts Produced by Lost Foam Method	Iran Tractor Foundry Company, Tabriz, Iran	-	✓	2006	2008
2	Improvement of Surface Roughness of Cast Parts Produced by Lost Foam Method	Iran Tractor Foundry Company, Tabriz, Iran	-	✓	2008	2010
3	The Production of Tractor Crankshaft from Austempered Ductile Iron (ADI)	Iran Tractor Foundry Company, Tabriz, Iran	-	✓	2008	2010
4	Compilation of technical knowledge and prototyping of high speed spindles	Tabriz Machinery Company, Tabriz, Iran	✓	-	2015	2018

D) Activities in Scientific Societies

- 2024 10TH ADVANCES IN MACHINERY, MATERIALS SCIENCE AND ENGINEERING APPLICATIONS as the **Scientific Member**, <http://www.mmseconf.com/Committee.html>.

E) Research Interests

1. Physical Metallurgy and Phase Transformation
2. Microstructure and Mechanical Properties of Ferrous Alloys
3. Fatigue Behavior of Ferrous Alloys
4. Steel Design and Production

Awards, Honorary Degrees, Medals and Positions

1. Ranking 3rd Student Among 30 B. Sc. Graduates of Sahand University of Technology, Scoring of GPA of 14.95 out of 20.
2. Ranking 3rd Student Among 7 M. Sc. Graduates of Sahand University of Technology, Scoring of GPA of 17.86 out of 20.
3. Ranking 1st Student Among 14, Ph. D. Endurance Examination, Sahand University of Technology, 2005.
4. Superior Researcher Award of the East Azerbaijan Province in 2012.
5. The Top Faculty Member of the University of Applied Science and Technology of I.R. Iran in 2021.

Foreign Language(s) Proficiency

Language	Degree of Proficiency											
	Writing				Reading				Speaking			
	Native	Good	Fair	Poor	Native	Good	Fair	Poor	Native	Good	Fair	Poor
Turkish	✓				✓				✓			
Farsi	✓				✓				✓			
English		✓				✓				✓		