



## Sasan Yazdani

Professor

College: Faculty of Material Engineering

### Publications

#### Articles Published in Journals Covered by SCI, SCI-Expanded, SSCI and AHCI

1. S. Yazdania, S. Tekeli, T. Yilmaz, M.N. Adanir, Influence of Annealing Heat Treatment on the Microstructure and Mechanical Properties of Multilayer 316L-TiC Composite Fabricated by Selective Laser Melting, *Journal of Materials Engineering and Performance*, Accepted for publication, 1-15 (2024)
2. S. Yazdani, S. Tekeli, H. Rabieifar, U. Taşci, E. Akbarzadeh, Evolution of Microstructure and mechanical properties in multi-layer 316L-TiC composite fabricated by selective laser melting additive manufacturing, *Journal of central South University*, Accepted for publication, 1-18 (2024)
3. P. Farshbaf, N.P. Ahmadi, S. Yazdani, Self-healing vanadate-doped NiAl-layered double hydroxide (LDH) coatings synthesized for active corrosion protection of 2024 aluminum alloy, *Mater. Today Commun.*, 108795 (2024)  
<https://doi.org/10.1016/j.mtcomm.2024.108795>
4. M. Yaghoubi, N.P. Ahmadi, S. Yazdani, Fabrication of robust superhydrophobic zinc-coated steel with anti-corrosion and self-cleaning behavior through a simple nickel galvanic replacement reaction, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **686**, 133341 (2024)  
<https://doi.org/10.1016/j.colsurfa.2024.133341>
5. M.N. Yoozbashi, R. Zolfaghari, S. Yazdani, S. Tekeli, Other Aspects of the Impact Fracture Toughness-Microstructure Relationship in Nano-bainitic Steels, *J. Mater. Eng. Perform*, 1-9 (2024)
6. M. Hosseinzadeh Khanmiri, M. Charchi Aghdam, H. Mousalou, B. Avishan, S. Yazdani, Mechanical Properties of Step-Austempered Nanostructured Bainitic Steel with Modified Chemical Composition at Low and High Strain Rates, *J. Mater.*, **75**(9), 3911-3923 (2023) 10.1007/s11837-023-06005-z
7. B. Avishan, R. Karimkhani Shamloo, E. Akbarzadeh Chiniforoush, S. Yazdani, Ultrafine Carbide-Free Bainite in High-Carbon Steel After Continuous Annealing with Different Cooling Rates, *J. Mater. Eng. Perform*, **32**(11), 4922-4931 (2023) 10.1007/s11665-022-07446-4
8. B. Avishan, P. Talebi, S. Tekeli, S. Yazdani, Producing Nanobainite on Carburized

Surface of a Low-Carbon Low-Alloy Steel, *J. Mater. Eng. Perform*, **32**(1), 211-220 (2023) 10.1007/s11665-022-07096-6

9. A. Firouzi, S. Yazdani, R. Tavangar, B. Shakerifard, F. Khan Md, Fracture Toughness Evaluation of Powder Metallurgical ASP2030 High-Speed Steels Using Flexural Specimens and Finite Element Method, *Strength Mater.*, **54**(6), 1064-1081 (2022) 10.1007/s11223-023-00482-y
10. A. Firouzi, S. Yazdani, R. Tavangar, B. Shakerifard, F.K. Mohammad, Austempering of PM HSS ASP2030 for improved fracture toughness, *Metallurgical Research & Technology*, **119**(2), 211, (2022) 10.1051/metal/2022025
11. S.A. Sajjadi, N.P. Ahmadi, S. Yazdani, Corrosion behavior of sol-gel coated amorphous alumina at different calcination temperatures, *Surface & Coatings Technology*, **405**, 126546, (2021) 10.1016/j.surfcoat.2020.126546
12. E. Entezari, H. Mousalou, S. Yazdani, J.L. Gonzalez-Velazquez, J.A. Szpunar, The Evaluation of Quenching Temperature Effect on Microstructural and Mechanical Properties of Advanced High Strength Low Carbon Steel After Quenching Partitioning Treatment, 4th International Conference on Structural Integrity (ICSI), Aug 30-Sep 02, 2021 (Electr Network), Elsevier Science Bv, 2022, pp 145-152 10.1016/j.prostr.2022.01.070
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14. P. Ashtari, N.P. Ahmadi, S. Yazdani, Isothermal oxidation kinetics of laser clad NiCoCrAl/WC + La<sub>2</sub>O<sub>3</sub> hybrid composite coatings at 700 degrees C, *Kov. Mater.-Met. Mater.*, **59**(4), 269-278 (2021) (in English) 10.4149/km20214269
15. H. Mousalou, S. Yazdani, N.P. Ahmadi, B. Avishan, Nanostructured Carbide-Free Bainite Formation in Low Carbon Steel, *Acta Metallurgica Sinica-English Letters*, **33**(12), 1635-1644 (2020) 10.1007/s40195-020-01091-3
16. B. Avishan, S. Golchin, S. Yazdani, Elongation improvement in nano bainite steel obtained from plastically deformed primary austenite, *Philosophical Magazine*, **100**(17), 2244-2261 (2020) 10.1080/14786435.2020.1764654
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20. B. Abedini, N.P. Ahmadi, S. Yazdani, L. Magagnin, Structure and corrosion behavior of Zn-Ni-Mn/Zn-Ni layered alloy coatings electrodeposited under various potential regimes, *Surface & Coatings Technology*, **372**, 260-267 (2019) 10.1016/j.surfcoat.2019.05.051
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23. E.A. Chiniforush, S. Yazdani, V. Nadiran, The influence of chill thickness and austempering temperature on dry sliding wear behaviour of a Cu-Ni carbidic austempered ductile iron (CADI), *Kov. Mater.-Met. Mater.*, **56**(4), 213-221 (2018) (in English) 10.4149/km\_2018\_4\_213
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25. B. Bostani, N.P. Ahmadi, S. Yazdani, R. Arghavanian, Synthesis and Characterization of Functionally Gradient Ni-ZrO<sub>2</sub> Composite Coating, *Protection of Metals and Physical Chemistry of Surfaces*, **54**(2), 222-229 (2018) 10.1134/s2070205118020156
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28. R.T. Mousavian, R.A. Khosroshahi, S. Yazdani, D. Brabazon, Manufacturing of cast A356 matrix composite reinforced with nano- to micrometer-sized SiC particles, *Rare Metals*, **36**(1), 46-54 (2017) 10.1007/s12598-015-0689-9
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71. P. Ashtari, N. Parvini Ahmadi, S. Yazdani, Wear behavior of laser clad Ni based-WC-La<sub>2</sub>O<sub>3</sub> hybrid composite coating on H13-Steel at elevated and ambient temperatures, *International Journal of Iron & Steel Society of Iran*, **18**(1), 83-97 (2021)
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77. A. Arefi, H. Sabet, S. Yazdani, The effect of silicon content and austempering time on DBTT of ADI, *Advanced Processes in Materials*, **4**(3 (14)), 45-52 (2010)
78. S. Yazdani, R. Elliott, Mo Alloyed austempered Ductile Iron, Thermomechanical processing and mechanical properties of hypereutectoid steels and cast irons, D.R. Lesuer, C.K. Syn, O.D. Sherby Eds., 1997 (1997 TMS-ASM Materials Week in Indianapolis, Indiana, September 14-18, 1997), TMS, p 267
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## Education

Degree	Graduated in	Major	University
BSc	1989	Materials Engineering	Isfahan University of Technology
MSc	1993	Materials Engineering	Sharif University of Technology
Ph.D	1998	Metallurgical and Materials Engineering	The University of Manchester

## Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Materials Engineering	Professor of Materials Science and Engineering	Tenured	Full Time	39