



## Resume



دانشگاه صنعتی شیراز  
SHIRAZ UNIVERSITY  
OF TECHNOLOGY



First name: Farhad

Last name: Shahriari Nogorani

Academic title: Associate professor

Area of Specialty: Surface engineering and corrosion resistant coatings

Areas of Interest: Gas turbine metallurgy, high temperature coatings

Projects & Research Activities (selected):

1. 2020-2021, Coating of bellows expansion joints used in steel and petrochemical industries, supported by National Elites Foundation, Iran.
2. 2020, Failure analysis and remedies of lashing wire of the last stage blades of 320 MW low pressure steam turbine, ordered by Isfahan Power Plant, Isfahan, Iran.
3. Dec. 2020- now, Thick Ni-Co alloy plating of steel slab continuous casting copper molds, ordered by Hormozgan South Steel Co. (HOSCO), Bandar Abbas, Iran.
4. March 2020-March 2022, Failure analysis and remedies for abnormal deformation and wear of mixing chamber and inner casing components of V94.2 combustion chambers, ordered by Kerman Combined Cycle Power Plant, Iran.
5. June 2020- July 2020, Failure analysis of cracked generator rotor, ordered by Behinkaran Co. for Ramin Power Plant, Ahvaz, Iran.

6. Dec. 2018- Apr. 2019, Failure and fracture analysis of tension bolt of EGT turbine, ordered by Iranian Gas Transmission Co. District 5, Shiraz, Iran.

7. Feb. 2016- Dec. 2017, Technology development of SSA12 coating on SGT-600 gas turbine compressor blades, ordered by Turbotec, Tehran, Iran.

8. Aug. 2015-Nov. 2016, Failure analysis of hot-section expansion joint of styrene monomer unit, ordered by Pars Petrochemical Co., Bushehr, Pars Special Economic Energy Zone, Iran.

9. Aug. 2012- Aug. 2014, Enhancement of oxidation resistance of high temperature components by aluminide coating doped with cerium oxide particles, supported by Iran National Science Foundation, Iran.

## **Selected publication**

1. F. Shahriari, F. Ashrafizadeh, A. Saatchi, "Formation and characterisation of NiAl-Ti coating on nickel-based superalloy B1900", *Surface and Interface Analysis*, Vol. 41, No. 5, pp. 378-383, 2009.

2. F. Shahriari, A. Saatchi, F. Ashrafizadeh, "Crevice Formation on the Surface of the Simple and Ti-modified Aluminide Coatings under a Fused Na<sub>2</sub>SO<sub>4</sub> Salt Film", *Oxidation of Metals*, Vol. 76, Numbers 1-2, pp. 57-65, 2011.

3. A. Azimi, F. Shahriari, F. Ashrafizadeh, M.R. Toroghinezhad, and J. Jamshidi, "The influence of major defects on the properties of continuous galvanized steel sheet", *Advanced Materials Research* Vol. 445, pp 661-666, 2012.

4. A. Azimi, F. Ashrafizadeh, M.R. Toroghinejad, F. Shahriari, "Metallurgical assessment of critical defects in continuous hot dip galvanized steel sheets", *Surface and Coatings Technology*, Volume 206, Issue 21, pp. 4376-4383, 2012.

5. A. Azimi, F. Ashrafizadeh, M.R. Toroghinejad, F. Shahriari, "Metallurgical analysis of pimples and their influence on the properties of hot dip galvanized steel sheet", *Engineering Failure Analysis*, Vol. 26, pp. 81-88, 2012.

6. F. Shahriari Nogorani, F. Ashrafizadeh, A. Saatchi, "Microstructural analysis and growth mechanism of single-step aluminum-titanium diffusion coatings on a nickel-based substrate", *Surface and Coatings Technology*, Vol. 210, pp. 97–102, 2012.
7. A. Azimi, F. Ashrafizadeh, M. R. Toroghinejad and F. Shahriari, "Metallurgical characterisation of wrinkle bands and their influence on properties of galvanised steel sheet", *Ironmaking and Steelmaking*, Vol. 40, No. 8, pp. 630-634, 2013.
8. Samira Mohseni Bababdani, Farhad Shahriari Nogorani, "Overaluminizing of a CoNiCrAlY Coating by Inward and Outward Diffusion Treatments, *Metallurgical and Materials Transactions A*, Vol. 45 A, pp.2116-2122, 2014.
9. Mahdi Safari, Farhad Shahriari Nogorani, Formation mechanism of high activity aluminide coating on Ni-CeO<sub>2</sub> coated Rene 80 alloy, *Surface and Coatings Technology*, Vol. 329, pp. 218–223, 2017.