



Name & Surname: Seyed Mohamad Lari Baghal

Date of Birth: 23-Aug-1985



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PROFESSIONAL PROFILE:

Assistant Professor, Department of Materials Science and Engineering

EDUCATION BACKGROUND:

Ph.D.: Materials department, Engineering Faculty (2007), Tehran University, Tehran, Iran

Thesis title:

“Electrodeposition of Nano-structured functional graded Ni-Co/SiC coatings and investigation of their wear and corrosion behavior”

M.Sc.: Materials department, Engineering Faculty (2007), Tehran University, Tehran, Iran

Dissertation title:

“Electrodeposition of Ni/Al₂O₃ nano-composite by pulsed current”

B.Sc.: Materials department, Engineering Faculty (2007), Shahid Chamran University of Ahvaz, Ahvaz, Iran

TEACHING AND TRAINING EXPERIENCE:

B.Sc. course:

Thermodynamic II

Corrosion Engineering

Materials Science

M.Sc. course:

Hot Corrosion and oxidation

Thermodynamic of materials

Simulation

Ph.D. course:

Special Topics in Thermodynamic of materials

INTERESTS AND RESEACH FIELDS:

- Surface Engineering
- Corrosion Engineering
- FE Simulation
- Automation in Welding
- Metal 3D printing

RESEARCH ACTIVITIES:

PUBLICATIONS:

1. Role of Cracked Interlayer on Deformation Processing of Al/hard Chrome/Al Laminate, Metals and Materials International, 2020, in press <https://doi.org/10.1007/s12540-020-00768-9>
2. Fabrication of glass/carbon fiber reinforced Al-composites through deformation bonding, Journal of Composite Materials, 0021998319833004
3. Microstructural control and layer continuity in deformation bonding of metallic laminated composites, Materials Science and Engineering: A 738 (2018) 98-110
4. Wear-Resistant Al/SiC-Gr Hybrid Metal Matrix Composite Fabricated by Multiple Annealing and Roll Bonding, Journal of Materials Engineering and Performance 27 (12) (2018) 6676-6689
5. Nanostructured Al/SiC-Graphite composites produced by accumulative roll bonding (ARB): Role of graphite on microstructure, wear and tensile behavior, Journal of Materials Engineering and Performance, 26 (2017) 1908-1919
6. Direct electroplating of nickel on ABS plastic using polyaniline– silver surface composite synthesized using different acids, Journal of Coatings Technology and Research, 2018, pp15.

7. Effect of potassium permanganate on corrosion and wear properties of ceramic coatings manufactured on CP-aluminum by plasma electrolytic oxidation, Surface & Coatings Technology, 2018, pp346.
8. Failure assessment of ASTM A213-T12 superheater boiler tubes in a natural gas liquid plant, Engineering Failure Analysis, 2016.
9. Premature damage of the second stage nozzle guide vanes of a gas turbine made of Inconel 738LC, Engineering Failure analysis, 2019
10. Effect of rejuvenation heat treatment on microstructure and hot corrosion resistance of a service-exposed nickel-based gas turbine blade, MATERIALS RESEARCH EXPRESS, 2020
11. Effect of Sodium Silicate Concentration on Morphology of Ceramic Coatings Produced on Commercially Pure Aluminum Using Plasma Electrolytic Oxidation, Russian Journal of Non-Ferrous Metals

LANGUAGES:

Persian (native)

English (medium)