

Curriculum Vitae



NAME & SURNAME: Seyed Reza Alavi Zaree

DATE OF BIRTH: 22/09/1976



ADDRESS, SUBURB, STATE, POSTAL CODE: Department of Materials Science and Engineering, Faculty of Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Khouzestan, Iran, 6135783151



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PROFESSIONAL PROFILE:

Assistant Professor of Materials Science and Engineering in Shahid Chamran University (SCU) of Ahvaz.

EDUCATION BACKGROUND:

Ph.D.: Materials Science and Engineering (2009), TUWIEN, Vienna, Austria.

Thesis title:

“Characterization of hot extruded steel particulate composites”

M.Sc.: Materials Science and Engineering(2001), Iran university of Science & Technology, Tehran, Iran.

Dissertation title:

“The experimental and numerical studies of the induction hardening of AISI 1045 steel”.

B.S.: Materials Science and Engineering-Industrial Metallurgy (1999), Tehran University, Iran

Project title:

“Effect of heat treatment time and temperature on the work hardening and microstructure of

MP35N alloy, Tehran”.

TEACHING AND TRAINING EXPERIENCE:

Undergraduate Courses:

- Physical Chemistry of materials
- Composite materials
- Transport phenomena in materials science
- Solidification Lab.
- Non-Ferrous extraction of metals
- Metals casting

Graduate Courses:

- Seminar in materials science
- Composites
- Special issues in extraction of metals

INTERESTS AND RESEARCH FIELDS:

- Composite materials
- Biodegradable Composites
- Welding
- Additive manufacturing

RESEARCH ACTIVITIES:

PUBLICATIONS:

<https://scholar.google.com/citations?hl=en&user=tdEXaykAAAAJ>

1. M. Karlsohn, S. Weber, S. R. AlaviZaree, S. Muller, W. Theisen, W. Reimers and A. R. Pyzalla, Manufacturing, microstructure and wear resistance of novel hot extruded Fe based metal matrix composites, Powder Metallurgy, 51(1), 2008, 31-37.
2. Jula, Dehmolae, Alavi Zaree, Statistical Approach to the Corrosion Behavior of Dissimilar Welds of A387-Gr91/AISI316 Steels with PCGTAW Process, Journal of Advanced Materials and Processing, 5(1), 2017, 3-12.
3. Joodaki, Alavi Zaree, Gheisari, Eskandari, Effect of Annealing Treatments on the Microstructure and Texture Development in API 5L X60 Microalloyed Pipeline Steel, Journal of Materials Engineering and Performance, 26(5), 2017, 2003-2013.
4. Yeganeh, Eskandari, Alavi Zaree, A Comparison Between Corrosion Behaviors of Fine-Grained and Coarse-Grained Structures of High-Mn Steel in NaCl Solution, Journal of Materials Engineering and Performance, 26(6), 2017, :2484–2490.
5. Morakabian Esfahani, Hajjari, Farzadi, Alavi Zaree, Prediction of the contact time through modeling of heat transfer and fluid flow in compound casting process of Al/Mg

- light metals, *Journal of Materials Research*, 32(11), 2135-2142, 2017.
6. Farzadi A, Morakabiyani Esfahani M, Alavi Zaree S R, Theoretical and experimental investigation of gas metal arc weld pool in commercially pure aluminum: Effect of welding current on geometry, *Journal of Central South University*, 24: 2556–2564, 2017.
 7. M. Morakabiyani Esfahani, A. Farzadi, , and S. R. Alavi Zaree, Effect of Welding Speed on Gas Metal Arc Weld Pool in Commercially Pure Aluminum: Theoretically and Experimentally, 59(1), 82–92, 2018.
 8. Amra, Dehmlaei, Alavi Zaree, On the Dissimilar Metal Welding of 1.4742 Ferritic to 310S Austenitic Stainless Steels Utilizing Different Filler Metals, *Metallography, Microstructure, and Analysis* 8 (5), 623-64, 2019.
 9. Dezfuli, R Dehmlaei, Alavi Zaree, Microstructural Aspects of 304 Stainless Steel Weld Joints with the Simultaneous Application of Electromagnetic Vibration, *Metallography, Microstructure, and Analysis* 8 (2), 226-232, 2019.
 10. Tanhaei, Gheisari, Alavi Zaree, Effect of cold rolling on the microstructural, magnetic, mechanical, and corrosion properties of AISI 316L austenitic stainless steel, *International Journal of Minerals, Metallurgy, and Materials*, 6(25), 630–640, 2018.
 11. Jula, Dehmlae, Alavi Zaree, The comparative evaluation of AISI 316/A387-Gr.91 steels dissimilar weld metal produced by CCGTAW and PCGTAW processes, *Journal of Manufacturing Processes*, 36, 272-280, 2018.
 12. Amra, Alavi Zaree, Dehmlaei, Dissimilar Welding Between 1.4742 Ferritic and 310S Austenitic Stainless Steels: Assessment of Oxidation Behaviour, *Metals and Materials International*, First Online: 16 October 2019.
 13. Jula, Dehmlaei, Alavi Zaree, Optimization of Pulsed Current Gas Tungsten Arc Welding Process Parameters To Attain Maximum Weld Metal Toughness Of AISI316/a387 Gr.91 Weld Joints With Taguchi Method, *Journal of Welding Science and Technology of Iran*, 2 (2), 2016) (in Persian).
 14. Ghadam dezfuli, a., & ALAVI ZAREE, S., & DEHMOLAEI, R. (2018). Improvement of mechanical properties and hot cracking susceptibility of 304 stainless steel weld joints with the simultaneous electromagnetic vibration application. *JOURNAL OF NEW MATERIALS*, 9(1 (33)), 137-148, (in Persian). <https://www.sid.ir/en/journal/ViewPaper.aspx?id=647068>.
 15. M.H.Shaeri Karimi, M.Yeganeh, S.R. Alavi Zaree, M.Eskandari, Corrosion behavior of 316L stainless steel manufactured by laser powder bed fusion (L-PBF) in an alkaline solution, *Optics & Laser Technology*, 138, 65, 2021.
 16. Tabeahmadi, M., Dehmlaei, R., Alavi Zaree, S. (2020). Optimization of Advanced Square Wave AC-GTAW Parameters to Improve Localized Corrosion Resistance of AA6082-T651 Aluminum Welds. *Journal of Advanced Materials and Processing*, 8(2), 20-31, 2020.
 17. Khorasani, M., Zaree, S.R., Kamaei, P. et al. Addition of Silver to an Mg–Al–Zn Alloy Treated by Conventional and Chilled Solidification: A Microstructural Approach. *Phys. Metals Metallogr.* 121, 1393–1399 (2020). <https://doi.org/10.1134/S0031918X20130074>.
 18. Yeganeh, M., Khosravi-Bigdeli, I., Eskandari, M. et al. Corrosion Inhibition of L-Methionine Amino Acid as a Green Corrosion Inhibitor for Stainless Steel in the H₂SO₄ Solution. *J. of Materi Eng and Perform* 29, 3983–3994 (2020). <https://doi.org/10.1007/s11665-020-04890-y>.

CONFERENCE PRESENTATIONS:

<https://rms.scu.ac.ir/Public/Faculty/CVTeacher.aspx?PersonID=1384124/15&CultureID=1>

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PROFESSIONAL MEMBERSHIPS:

IRTC 17- Head of mirror committee for steel (ISO-TC17) in Iran
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LANGUAGES:

PERSIAN: Native

ENGLISH: Intermediate

GERMAN: Elementary
