

دکتر صادق پورعلی

استادیار

دانشکده: مهندسی مواد

گروه: متالورژی



Research Interests

Energy materials.

Wet corrosion and coatings.

Application of nanomaterials in mitigation of alloys corrosion.

Corrosion of non ferrous metals.

Workshops

SEM, XRD, Thin films, HSE, NDT (VT & PT), Cathodic protection systems for pipelines and storage tanks, MD simulation by NAMD, Polymeric nanocomposites

Teaching experiences

Corrosion and Materials Protection (BSc)

English for Materials Science Students (BSc)

Corrosion Lab (BSc)

Crystallography (BSc)

Principle of Surface Engineering (BSc)

Management and Economy of Engineering (BSc)

Mechanical Aspects of Corrosion (MSc)

Corrosion Inhibitors (MSs)

Anodic and Cathodic Protection (MSc)

Special Topics in Corrosion (PhD)

Educations

2016-2017 Researcher at LKO, FAU, Bavaria, Germany.

2013-2018 Ferdowsi University of Mashhad (FUM), Mashhad, Iran.

Ph.D. of Materials Engineering – Corrosion and Materials Protection.

2011-2013 University of Tehran, Tehran, Iran.

M. Sc. of Materials Engineering – Corrosion and Materials Protection.

2007-2011 Ferdowsi University of Mashhad (FUM), Mashhad, Iran.

Awards

Awarded Iran's National Elites Foundation 2023

Awarded ministry of science of Iran for taking the guest researcher position at FAU, Germany, 2016-2017.

Awarded FOE (Faculty of Engineering) for the top researcher, FUM (2018).

Awarded FOE (Faculty of Engineering) for high GPA in Materials and Metallurgical Engineering Department, FUM (2013-2018).

Awarded FOE (Faculty of Engineering) for high GPA in Materials and Metallurgical Engineering Department, FUM (2007-2011).

Publications

Published in international journals

Please have a look at:

<https://scholar.google.com/citations?user=v9fCQWAAAAAJ&hl=en>

Conference Papers

1. Sadegh Pour-Ali, Changiz Dehghanian, A Study on Epoxy Coating Containing Nano Powder of Polyaniline for Enhancement of Corrosion Protection (Oral Presentation), 3rd International Congress on Automotive Paint & Coatings, Dec. 17-18, 2012, Amir Kabir University, Tehran, Iran.

2. Sadegh Pour-Ali, Changiz Dehghanian, Inhibition of Mild Steel Corrosion by Epoxy Coatings Containing Nano Powders of Polyaniline with Synergistic Effect of ZnO Nano Particles in 3.5% NaCl Solution (Poster), 3rd International Congress on Automotive Paint & Coatings, Dec. 17-18, 2012, Amir Kabir University, Tehran, Iran.

3. Sadegh Pour-Ali, Masood Fakouri, Mehrdad Kashefi, Investigation of Precipitation Hardening of LM22 by Nondestructive Methods (Eddy Current and Conductivity) (Poster), Proceedings of Iran International Aluminum Conference, May 15-16, 2012, Arak, Iran.

4. Sadegh Pour-Ali, Changiz Dehghanian, Corrosion Behavior of 304 Stainless Steel and Epoxy/Polyaniline-Camphorsulfonate Coated Mild Steel; A Comparative Study, International Conference of Corrosion (Poster), May 2013, Tehran, Iran.

5. Sadegh Pour-Ali, Changiz Dehghanian, Chloride-Induced Corrosion Behavior of Steel Reinforcements in Concrete Samples Containing Epoxy Yarn (Oral Presentation), International Conference of Corrosion, May 2013, Tehran, Iran.

6. Continued ...

Books

1. Translation of "**Introduction to the High-Temperature Oxidation of Metals**" Book Written by N. Birks, G.H. Meier and F.S. Pettit into Persian.

2. Translation of "**Introduction to Corrosion Science**" Book Written by E. Maccafferty into Persian.

سوابق تحصیلی			
مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی		مهندسی مواد - متالورژی صنعتی	فردوسی مشهد
کارشناسی ارشد		مهندسی مواد - خوردگی و حفاظت از مواد	تهران
دکتری		مهندسی مواد - خوردگی و حفاظت از مواد	فردوسی مشهد
دوره های تخصصی		رویپینگی و اکسیداسیون فولادهای زنگ نزن	FAU Erlangen-Nürnberg

سوابق اجرایی

مدیر گروه گرایش خوردگی و حفاظت از مواد (1399 - 1403)

مسئول تحصیلات تکمیلی دانشکده مهندسی مواد (1400 - 1403)