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Research Interests

❖ **Processing and Investigating Advanced Materials**

- Smart Materials and Shape Memory Alloys
- Nanotechnology and Nano Materials
Light and sturdy construction of Metal Nano-materials by using extreme deforms for example used in the aerospace industry
- Properties and Mechanics of Composites
Polymer-based (PMC) and Carbon-based Composites
- Metal and Polymer Foam
Manufacture, Characterization and Application of Metal and Polymer Foam and Nano-composites Foam

❖ **Mechanical Properties and Behavior**

- Cracking in high performance metal alloys
Due to fatigue, stress corrosion, hydrogen embrittlement and elevated temperature
- Adversely affects the performance of structures
Especially in Aerospace, Transportation Infrastructure, Military, Power Generation and Petrochemical Technologies. These problems result in important economic losses and performance limitations.
- Failure analysis and microstructural evaluation

❖ **Corrosion and Coating**



- Influence of Nano-particles on microstructures and properties of composites by Electroplating
- Electrochemical and chemical conditions inside localized corrosion sites in various alloy systems

❖ **Experimental Researches in Materials durability in extreme environment**

Materials durability in extreme environments for energy, power, and propulsion applications

🏠 **Language Skills**

- ❖ **Persian** (Native)
- ❖ **English** (Fluent)
- ❖ **French** (Intermediate)
- ❖ **German** (Intermediate)
- ❖ **Arabic** (Intermediate)

🏠 **Technical Skills**

- ❖ **Computer Software**
 - Operating system
Windows, Android, Linux
 - Design Automation and Simulation Tools:
ABAQUS; ANSYS
 - Technical software:
Key to Steel; X'pert
 - Algorithm Development Tools:
C++ ; C# ; MATLAB, CD Auto run Programing.
 - Utilities:
Adobe Photoshop; Microsoft Office; Prow show.



❖ **Familiar with the following standards:**

API 579 - API 1104

ASME SECTION VIII – ASME SECTION V – ASME B31.3

ISO 14001 – OHSAS 18001,

AWS

Research and Projects

❖ **Corrosion & Coating:**

May. 2012 Influence of Ni and Cr particles on microstructures and properties of stainless steel substrate by Electroplating

❖ **Materials Analysis:**

May 2012 Investigation of Atom Probe field ion Microscopy (APFIM) as a way of materials analysis.



❖ **Non-Destructive Testing Laboratory:**

Jan. 2012 Investigation of Remote Ultrasonic Testing services.

❖ **Welding Metallurgy:**

Dec. 2011 Investigation of Metallurgical Structure of the “Heat Affected Zone” (HAZ) after the GMAW Welding Process by SEM Microscopy



Professional Certificates

- **Mar. - Jun. 2012** Successfully completed Visual Testing and Radiographic Testing Interpretation - Welding Inspection (VT-RTi) full course to conform to the requirement of Level II Certification in accordance with the Employers written practice, held according to SNT-TC-1A of the American Society for Non-destructive Testing (ASNT) and passed its examinations.¹
- **Feb. 2012** Successfully completed a training course on the subject of “HSE Management Systems (Internal Audit) and ISO 14000 and OHSAS 18001” and its examination, held according to the TÜV Rheinland® academy.
- **Jan. 2012** Successfully completed a comprehensive program in the field of Professional ABAQUS/CAE after 20 hours training (10 lectures, 8 workshops, and 6 demonstrations), in Fanavaran Bartar Educational institute, by Eng. M. Jahedi².

Activities:

- **April 2014** One of the main executive cared of "*4th international festival of Inventors, Initiators, Innovators*" (4IFI), Iran, Shiraz, I. A.U.
- **Oct. 2013** The exhibitor of Fars Province Nanotechnology Promoting Committee in “*IRAN NANO 2012, International Nanotechnology Festival*”, Tehran int. permanent Fairground
- **March. 13-16, 2013** - Executive Secretary of “The 2nd Educational Conference on Nanotechnology (SNEC 2013)”, Shiraz University, Shiraz, Iran³.
- **Oct. 2012** – The exhibitor of Shiraz Nanotechnology Promoting Committee in “*IRAN NANO 2012, International Nanotechnology Festival*”, Tehran int. permanent Fairground, Tehran, Iran
- **May. 16-17, 2012** - Executive Secretary of “The 1st Educational Conference on Nanotechnology”, Shahid Bahonar University of Shiraz, Faculty of Engineering, Shiraz, Iran
- **Sep. 2010 - Oct. 2012** - The active member of Materials Science and Metallurgical Engineering Students Association in Shiraz University, Iran, Shiraz.

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³ info@sneec.ir

- **June 2012 – Now** - The member of Iranian Institute of Welding & Non-destructive Testing, membership¹ No: 4913617
- **May. 2012** One of the main executive cared of "*2nd Non Ionizing Radiation Safety Conference*" (SAIRSC), Iran, Shiraz, Shiraz University.²
- **Apr. 2012 – May. 2013** The member of Iranian Foundry men’s Society. Membership No: 91-3765.
- **Jul. 2012** Teaching the “The definition of Nanotechnology” at Jahrom Allameh Institute. Iran, Jahrom.
- **Dec. 2011** Materials Science and Metallurgical Engineering department’s representative in “Research Week exhibition”, Iran Shiraz.
- **Sep. 2011** One of the fifteen main members of executive cadre of 10th National Congress of Materials and Metallurgical Engineering (9/7-9/2011) held in Shiraz University. I was active member in Industrial Relations committee, also I was active in Website and Public Relations committees and Graphics such as Posters , Banner design & editing of the final Video Clip of the congress, Iran, Shiraz.

! Ref: Department of Materials Science & Engineering, Shiraz University
javadpor@shirazu.ac.ir (Head of the Congress)

- **Sep. 2011** Attended the PKS training center covering in “*WPS ASME Sec II*” , Iran, Shiraz.
- **Jun. 2011** Attended the PKS training center covering in “ *Welding Inspection Seminar* ” held in Engineering school of Shiraz University, Iran, Shiraz.
- **Jul. 2011** Teaching Physics 1 of High School in Jahrom Allameh Institute, Iran, Jahrom.
- **Aug. 2010- Aug. 2012** Materials Science and Metallurgical Engineering department’s representative in ‘Shiraz University Open Day’ exhibition, Iran, Shiraz.
- **Jan. 2010** Win the prize of best photo in photography competition at Shiraz University on the subject of "Nature Death, Human life"
- **Aug. 2008** Advisor and consultant of High school students to find the best field regarding their University education, Up to now.

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