

## Razieh Khoshhal

Assistant professor



### Contact Information

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### Educations

- H.S. National Organization for Development of Exceptional Talents (NODET) high school (Farzanegan), 2001
- B.S. Sharif University of Technology, Tehran Iran, 2005
- M.S. Iran University of Science and Technology, Tehran Iran, 2008
- Ph.D. Iran University of Science and Technology, Tehran Iran, 2014

### Research Interests

- Powder Metallurgy
- Hydro Metallurgy
- Thermodynamic
- Extractive Metallurgy
- Metals Recovery
- Materials Processing

### Recent Publications and Patents

- [1] **R. Khoshhal**, "The Effect of Raw Material Ratio on the Formation Mechanism of Fe-TiC/Al<sub>2</sub>O<sub>3</sub> Composite," *Advanced Ceramics Progress*, vol. 3, pp. 25-30, 2017.
- [2] **R. Khoshhal**, "Investigation of oxidation behavior of synthesized Fe<sub>2</sub>Al<sub>5</sub> and FeAl," *Metal Powder Report*, vol. 74, pp. 30-34, 2019/01/01/ 2019.

- [3] **R. Khoshhal** and A. Hosseinzadeh, "Investigation of the mechanism of Fe<sub>2</sub>Al<sub>5</sub> powder into FeAl powder transformation," *Metal Powder Report*, vol. 74, pp. 25-29, 2019/01/01/ 2019.
- [4] **R. Khoshhal**, "Effect of TiAl<sub>3</sub> Coating Thickness and Morphology, Formed Using the Immersion of Titanium Sheets in Molten Aluminum, on Titanium Oxidation Behavior," *Metals and Materials International*, vol. 25, pp. 449-455, 2019/03/01 2019.
- [5] **R. Khoshhal** and A. Hosseinzadeh, "Effects of Raw Material Molar Ratio and Addition of Mg on Titanium Aluminide–Alumina Composite Formation Mechanism," *Powder Metallurgy and Metal Ceramics*, vol. 58, pp. 104-112, 2019/06/01 2019.
- [6] **R. Khoshhal** and A. Hossein zadeh, *The formation mechanism of iron aluminide phases in Fe-Al system with different raw materials ratio*. *AUT Journal of Mechanical Engineering*, 2019:
- [7] **R. Khoshhal**, *Hojjat mirzaei ghasabeh and A. Hossein zadeh, The synthesis of a pure FeAl with a density greater than 95% of the theoretical density by optimizing the effective factors. AUT Journal of Mechanical Engineering, 2020:*

## Conferences

## Grants and Fellowships

- Grant for Sabbatical leave at “institute for metallurgy” in “Clausthal University of technology” (Germany)

## Professional Memberships and Affiliations

- Technical and research manager of South Khorasan Science and Technology Park (2006)
- Internal Director of Iran Aluminum Research Center (2011-2014)
- Member of Iranian Mining Engineering Organization (From 2006)

## Awards, Honours and activities

- First-Class Honour in PhD course
- First-Class Honour in Master course

- پژوهشگر برتر دانشکده مهندسی مکانیک و مواد (سال 97)
- کسب امتیاز مقاله برتر در کنفرانس بین المللی آلومینیوم (IIAC 2016)
- راهیابی به مرحله نهایی کشوری المپیاد شیمی در سال 1379

- دریافت عنوان "طرح خلاقانه" برای سه طرح پیشنهادی در نمایشگاه دستاوردهای پژوهشی سال 96
- برگزاری اولین جشنواره تجلیل از مبتکرین و مخترعین استان خراسان جنوبی (1385)
- عضو شورای فناوری استان خراسان جنوبی در سال 1385
- عضویت در نظام مهندسی معدن از سال 1389
- دبیر "حلقه صالحین" دانشگاه صنعتی بیرجند در سالهای 94-96
- مدیر گروه مهندسی مواد دانشگاه صنعتی بیرجند (سالهای 94-96)
- عضو شورای دانشگاه صنعتی بیرجند (سال 94-97)
- عضو شورای آموزشی دانشگاه صنعتی بیرجند (از 94/7 تا 95/3)
- رئیس مرکز بهداشت، درمان و مشاوره دانشگاه صنعتی بیرجند (سالهای 97-99)
- معاون پژوهشی دانشکده مهندسی مکانیک و مواد (از سال 98 تا کنون)

## Teaching Experience

- Materials Thermodynamic
- Strength of Materials
- The Principle of Metal Production
- Extractive Metallurgy
- Powder Metallurgy
- Technical English for Materials Students
- Materials Science
- Chemistry Physics
- Metal Production Methods
- Heat Treatment
- Crystallography