

Curriculum Vitae (August 2021)

First name: Masood
Last name: Fakouri Hasanabadi
Website: www.mfakouri.ir/en

Education

- **Ph.D.** in Material Sci. & Eng. (2018)
Sharif University of Technology
- **M.Sc.** in Material Sci. & Eng. – Welding (2013)
Sharif University of Technology
- **B.Sc.** in Material Sci. & Eng. (2011)
Ferdowsi University of Mashhad

Areas of interest

- Material Joining
- Modeling and Simulation
- Additive Manufacturing
- Machine Learning Application in Material Sci. & Eng.

Selected Work Experience

- Postdoc, Sharif University of Technology (2020-21)
- Researcher, Niroo Research Institute (2018-20)
- Researcher, Forschungszentrum Jülich (2016-17)

Teaching

- Welding Metallurgy/Technology
- Brazing & Soldering
- Adhesives
- Solidification
- Mechanical Properties & Fracture Mechanics
- Nondestructive Tests & Welding Inspection
- Heat Treatment
- Materials Analysis Techniques
- Technical Presentation
- Research Methods in Material Sci. & Eng.

Selected Awards & Grants

- Best Ph.D. Thesis Award
5th Conference on Hydrogen and Fuel Cells, Tehran
- Postdoctoral Fellowship
Iran's National Elites Foundation
- Dr. Ashtiani Award for Future Faculty Members
Iran's National Elites Foundation
- Admission without Entrance Exam (M.Sc. & Ph.D.)
Sharif University of Technology
- Ranked First among 71 Students in the B.Sc. Level
Ferdowsi University of Mashhad

Summary of Publications

Peer-Reviewed Articles: 12
Conference Papers: 4
Book: 1
Citations: 94
h-index: 5
g-index: 9

تحصیلات و سوابق کاری - پژوهشی (مرداد ۱۴۰۰)

نام: مسعود
نام خانوادگی: فکوری حسن آبادی
تارنما: www.mfakouri.ir

تحصیلات

- دکتری مهندسی و علم مواد، دانشگاه صنعتی شریف (۱۳۹۷)
- کارشناسی ارشد مواد - جوشکاری، دانشگاه صنعتی شریف (۱۳۹۲)
- کارشناسی مهندسی و علم مواد، دانشگاه فردوسی مشهد (۱۳۹۰)

حوزه‌های کاری و علایق

- اتصال مواد
- مدل‌سازی و شبیه‌سازی
- ساخت فز آینده
- کاربرد یادگیری ماشین در مهندسی و علم مواد

بخشی از تجارب کاری

- پسادکتری، دانشگاه صنعتی شریف (۱۴۰۰-۱۳۹۹)
- پژوهشگر، پژوهشگاه نیرو (۱۳۹۸-۱۳۹۶)
- پژوهشگر، مرکز تحقیقاتی یولیش آلمان (۱۳۹۶-۱۳۹۵)

تدریس

- متالورژی/فناوری جوشکاری
- لحیم کاری
- چسب‌ها
- انجماد فلزات و آلیاژها
- خواص مکانیکی مواد و مکانیک شکست
- آزمون‌های غیرمخرب و بازرسی جوش
- عملیات حرارتی
- روش‌های شناسایی و آنالیز مواد
- انتقال مطالب علمی و فنی
- روش‌های تحقیق در مهندسی و علم مواد

بخشی از افتخارات

- جایزه رساله برتر در پنجمین کنفرانس هیدروژن و پیل سوختی
- کمک‌هزینه پسادکتری جایزه شهید دکتر چمران
- جایزه دکتر کاظمی آشتیانی برای جذب در مؤسسات علمی
- پذیرش بدون آزمون در مقاطع کارشناسی ارشد و دکتری
- رتبه اول دوره کارشناسی دانشگاه فردوسی مشهد

خلاصه‌ای از انتشارات

مقالات ISI: ۱۱
مقالات علمی-پژوهشی: ۱
مقالات در همایش‌ها: ۴
کتاب: ۱
تعداد استناد: ۹۴
شاخص h: ۵
شاخص g: ۹

12. **M. Fakouri Hasanabadi**, A. H. Kokabi, M. A. Faghihi-Sani, H. Abdoli, J. Malzbender, and S. M. Gross-Barsnick, "Advanced analysis of flexural test results of sealant for solid oxide cells," *International Journal of Applied Ceramic Technology*, Accepted for publication, **2021**.
11. Shaik Abrar Ahmed, **M. Fakouri Hasanabadi**, Varun Kumar A, "Joining of Ceramic to Metal by Friction Welding Process: A Review," *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2021**.
10. **M. Fakouri Hasanabadi**, J. Malzbender, S. M. Groß-Barsnick, H. Abdoli, A. H. Kokabi and M. A. Faghihi-Sani, "Micro-scale evolution of mechanical properties of glass-ceramic sealant for solid oxide fuel/electrolysis cells," *Ceramics International*, vol. 47, no. 3, pp. 3884–3891, Feb. **2021**.
9. H. Mousa Mirabad, A. Nemati, M.A. Faghihi-Sani, **M. Fakouri Hasanabadi** and H. Abdoli, "Effect of YSZ sol-gel coating on interaction of Crofer22 APU with sealing glass for solid oxide fuel/electrolysis cell," *Journal of Alloys and Compounds*, vol. 847, p. 156496, Dec. **2020**.
8. Abeer A. Shehab, S.K. Sadrnezhaad, M.J. Torkamany, **M. Fakouri Hasanabadi**, Muhaed Alali, A.K. Mahmoud, Mohammed H. Abass and A.H. Kokabi, "Ring-like laser spot welding of Ti grade2 to AAl3105-O using AlSiMg filler metal," *Optik (Stuttg.)*, vol. 206, p. 163630, Mar. **2020**.
7. **M. Fakouri Hasanabadi**, J. Malzbender, S.M. Groß-Barsnick, H. Abdoli, A.H. Kokabi and M.A. Faghihi-Sani, "Finite element optimization of sample geometry for measuring the torsional shear strength of glass/metal joints," *Ceramics International*, vol. 46, no. 4, pp. 4857–4863, Mar. **2020**.
6. A. A. Shehab, S. K. Sadrnezhaad, A. K. Mahmoud, M. J. Torkamany, A. H. Kokabi, and **M. Fakouri Hasanabadi**, "Pulsed Nd: YAG laser dissimilar welding of Ti / Al 3105 alloys," *Scientia Iranica B*, **2019**.
5. **M. Fakouri Hasanabadi**, A. H. Kokabi, M. A. Faghihi-Sani, S. M. Groß-Barsnick, and J. Malzbender, "Room- and high-temperature torsional shear strength of solid oxide fuel/electrolysis cell sealing material," *Ceramics International*, vol. 45, no. 2, pp. 2219–2225, Feb. **2019**.
4. **M. Fakouri Hasanabadi**, M. A. Faghihi-Sani, A. H. Kokabi, S. M. Groß-Barsnick, and J. Malzbender, "Room- and high-temperature flexural strength of a stable solid oxide fuel/electrolysis cell sealing material," *Ceramics International*, vol. 45, no. 1, pp. 733–739, Jan. **2019**.
3. **M. Fakouri Hasanabadi**, M. A. Faghihi-Sani, A. H. Kokabi, and J. Malzbender, "The analysis of torsional shear strength test of sealants for solid oxide fuel cells," *Ceramics International*, vol. 43, no. 15, pp. 12546–12550, Oct. **2017**.
2. **M. Fakouri Hasanabadi**, A. H. Kokabi, A. Nemati, and S. Zinatlou Ajabshir, "Interactions near the triple-phase boundaries metal/glass/air in planar solid oxide fuel cells," *International Journal of Hydrogen Energy*, vol. 42, no. 8, pp. 5306–5314, Feb. **2017**.
1. **M. Fakouri Hasanabadi**, A. Nemati, and A. H. Kokabi, "Effect of intermediate nickel layer on seal strength and chemical compatibility of glass and ferritic stainless steel in oxidizing environment for solid oxide fuel cells," *International Journal of Hydrogen Energy*, vol. 40, no. 46, pp. 16434–16442, Oct. **2015**.

Book

کتاب

1. **M. Fakouri Hasanabadi**, *Welding and sheet metal working workshop*, Tehran, Iran: Parsian, **2019**. (In Persian)

Conference Papers

مقالات ارائه شده در همایش‌ها

4. **M. Fakouri Hasanabadi**, A. H. Kokabi, M. A. Faghihi-Sani, H. Abdoli, J. Malzbender, and S. M. Groß-Barsnick, "The analysis of flexural test results of sealant for solid oxide cells" in *5th Conference on Hydrogen and Fuel Cells*, **2021**. (In Persian)
3. **M. Fakouri Hasanabadi**, A. H. Kokabi, M.A. Faghihi-Sani, H. Abdoli, "Designing and mechanical properties investigation of multilayer glass-silver nano-composite sealant for solid oxide fuel cells" in *Researchers' Consensus for Applied-Industrial Theses on Nanotechnology*, Tehran, Iran, **2016**. (In Persian)
2. **M. Fakouri Hasanabadi**, A. H. Kokabi, A. Nemati, "Effect of intermediate Ni layer on glass-stainless steel seal," in *The 2nd Regional Conference on Welding Engineering and Inspection*, Mashhad, Iran, **2014**. (In Persian)
1. S. Pournali, **M. Fakouri**, and M. Kashefi, "Investigation of precipitation hardening of LM22 by nondestructive methods," in *Iran International Aluminum Conference*, Arak, Iran, **2012**.