Ali Hasanabadi

Ph.D,
Assistant professor,
Mechanical Engineering Department,
University of Birjand

Address: Mechanical Engineering Department, University of Birjand, Mailbox Number 97175/615, Birjand, Iran.

Email: hasanabadi@birjand.ac.ir , ali.hasanabadi@gmail.com

Education:

Oct. 2011-Sep. 2016 — **Doctor of Philosophy (Ph.D.)**, University of Tehran, Tehran, Iran.

Dissertation Title: Microstructure design for optimization and achievement of predetermined properties in heterogeneous materials (Application to solid oxide fuel cell anode and cathode)

Supervisors: Prof. Karen Abrinia & Dr. Majid Baniassadi

Oct. 2004-Sep. 2007 — **Master of Science (M.Sc.)**, University of Tehran, Tehran, Iran.

Oct. 2000-Sep. 2004 — **Bachelor of Science (B.Sc.),** Amirkabir University of Technology, Tehran, Iran.

Research Interest:

Mechanics of Materials: Random Heterogeneous and Porous Media
Computer Aided Design & Manufacturing

Teaching Experience:

Oct. 2011-Present

M.Sc. Courses:
Advanced Computer Aided Design & Manufacturing, Continuum Mechanics.

B. Sc. Courses:
Material Science and Engineering, Computer Aided Design & Manufacturing, Manufacturing Methods, Technical Drawing

Publications (Journal):

1. **A. Hasanabadi**, M. Baniassadi, K. Abrinia, M. Safdari, and H. Garmestani, "Optimal combining of microstructures using statistical correlation functions," *International Journal of Solids and Structures*, vol. 160, pp. 177-186, 2019/03/15/ 2019.
2. A. Sheidaei, M. Kazempour, **A. Hasanabadi**, F. Nosouhi, M. Pithioux, M. Baniassadi, *et al.*, "Influence of bone microstructure distribution on developed mechanical energy for bone remodeling using a statistical reconstruction method," *Mathematics and Mechanics of Solids*, vol. 0, p. 1081286519828418, 2019.
3. Hossein Izadi, Majid Baniassadi, Fateme Hormozzade, Fayyaz Nosouhi Dehnavi, **Ali Hasanabadi**, Hossein Memarian, *et al.*, "Effect of 2D image resolution on 3D stochastic reconstruction and developing petrophysical trend," *Transport in Porous Media*, vol. 125, pp. 41-58, 2018.
4. H. Izadi, M. Baniassadi, **A. Hasanabadi**, B. Mehrgini, H. Memarian, H. Soltanian-Zadeh, *et al.*, "Application of full set of two point correlation functions from a pair of 2D cut sections for 3D porous media reconstruction," *Journal of Petroleum Science and Engineering*, vol. 149, pp. 789-800, 2017/01/20/ 2017.
5. **A. Hasanabadi**, M. Baniassadi, K. Abrinia, M. Safdari, and H. Garmestani, "3D microstructural reconstruction of heterogeneous materials from 2D cross sections: A modified phase-recovery algorithm," *Computational Materials Science*, vol. 111, pp. 107-115, 1// 2016.
6. **A. Hasanabadi**, M. Baniassadi, K. Abrinia, M. Safdari, and H. Garmestani, "Efficient three-phase reconstruction of heterogeneous material from 2D cross-sections via phase-recovery algorithm," *Journal of microscopy*, vol. 0, pp. 1-10, 2016.
7. **A. Hasanabadi**, M. Baniassadi, K. Abrinia, M. Baghani, and M. Mazrouei Sebdani, "Evaluation of solid oxide fuel cell anode based on active triple phase boundary length and tortuosity," *Energy Equipment and Systems*, vol. 4, pp. 11-19, 2016.
8. **A. Hasanabadi**, M. Baniassadi, K. Abrinia, M. Safdari, and H. Garmestani, "Optimization of solid oxide fuel cell cathodes using two-point correlation functions," *Computational Materials Science*, vol. 123, pp. 268-276, 2016/10/01/ 2016.