



## Farshid Ahmadi

Assistant Professor

College: Faculty of Mechanical Engineering

Department: Mechanical Engineering - Manufacturing and Production

Dr. Farshid Ahmadi is a Faculty Member in the Department of Mechanical Engineering, University of Kashan. He is also an Engineering and Research Consultant. Dr. Ahmadi's research is multi-disciplinary and revolves around Metal forming, Ultrasonic assisted manufacturing, FEM, Bio-Mechanics and Nano structured materials.

He received his PhD in Mechanical Engineering from Isfahan University of Technology (with the highest honor), as the first Ph.D. graduate of the department .

He has received numerous academic award, including 3<sup>th</sup> person among 7850 people in Mechanical Engineering Master Degree entering Exam award and Fellowship of National Elite Foundation.

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenure Track	Full Time	(not set)

### Papers in Conferences

- فرشید احمدی، بررسی المان محدود میزان و توزیع تنش های اعمال شده به پا در حین ایستادن، ششمین کنفرانس ملی مهندسی مکانیک و هوا فضا، ۱- تهران، ۲۰۲۱، ۲۲۰۹
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- Ahmadi F., Rabiei, D., The effect of overweight during meniscus rupture of the knee on the spread of osteoarthritis by the finite element method, بیست و هفتمین همایش سالانه بین-المللی مهندسی مکانیک، ISME ۲۰۱۹, tehran, ۲۰۱۹ ۵ ۲.

6. Estekei H, Ahmadi F., Investigating the effect of strain rate and initial billet temperature on the force required for tube extrusion of austenitic stainless steels 316L using Abacus software. 5th International conference on Applied Research in Electrical, Mechanical and Mechatronics Engineering, ۱۷ ۲ ۲۰۱۹، تهران.
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3. حسین وثوق، فرشید احمدی، سعید گلابی، Dynamic instability region analysis of reinforced-CNTs truncated conical shells using mixed DQ-Bolotin method, Structural Engineering and Mechanics, Vol. 87, pp. 129, 2023 07 25, SCOPUS, JCR.
4. فرشید احمدی، امیر عبدالهی، سعید زمانی، Experimental Study of Shearing Dimensional Parameters in the Sheet Metal Blanking Process of StW24 Steel with a Thickness of 12 mm, Journal of Modern Processes in Manufacturing and Production (MPMP Journal), Vol. 12, pp. 5, 2023 07 01.
5. فرشید احمدی، هادی منصوری، الیاس صرامی فروشانی، Investigation of Effective Parameters on the Surface Temperature Gradient under Equal Channel Angular Pressing Process of AA2017, Journal of Modern Processes in Manufacturing and Production (MPMP Journal), Vol. 11, pp. 5, 2022 09 22.
6. امیرحسین نشاسته گیرکاشی، فرشید احمدی، The Effect of ECAP Die Helix Angle on the Microstructure Homogeneity of the Processed Samples by FEM Method, Journal of Modern Processes in Manufacturing and Production (MPMP Journal), Vol. 10, pp. 27, 2021 08 30.
7. فرشید احمدی، حسن بیراملو، پوریا یزدی، Effect of abrasive particle morphology along with other influencing parameters in magnetic abrasive finishing process, Mechanics & Industry, 2021 03 08, SCOPUS, JCR.
8. مهدی رضایی، محمود فرزین، محمد رضا نیرومند، فرشید احمدی، Ultrasonic bone cutting: Experimental investigation and statistical analyses of cutting forces, SCI IRAN, 2021 01 13, SCOPUS, ISC, JCR.
9. مهدی عباسی، فرشید احمدی، محمود فرزین، Production of Ultrafine-Grained Titanium with Suitable Properties for Dental Implant Applications by RS-ECAP Process, MET MATER INT, 2020 07 11, SCOPUS, JCR.
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12. Mousavi, E., Meratian, M., Ahmadi, Investigation of mechanical properties and fracture surfaces of 5086 Al-based alloy processed by equal channel angular pressing in different routes, Journal of Advanced Materials and Processing, 2018 11 20.
13. R Shahrokh, A Ghaei, M Farzin, F Ahmadi, Experimental and numerical investigation of ultrasonically assisted micro-ring compression test, The International Journal of Advanced Manufacturing Technology, 2018.
14. Mousavi, E., Ahmadi, F, Cavaliere, P, Effect of lead on the crack propagation and the mechanical properties of Brass processed by ECAP at different temperatures, Materials Science & Engineering A, 2018.
15. Ahmadi, F., Shahsavari, M., Evolution of texture and grain size during equal channel angular extrusion of pure copper and 6012 aluminum, Journal of Modern Processes in Manufacturing and Production, 2016.

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20. Ahmadi, F., Foode, P., and Farzin, M., Prediction of Hot Radial Forging Force by Using RS Methodology and ANN, Journal of Mechanics & Industry Research, 2013.