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 3th 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

1. فرشید احمدی،بررسی المان محدود میزان و توزیع تنش های اعمال شده به پا در حین ایستادن،ششمین کنفرانس ملی مهندسی مکانیک و هوافضا،۱ - تهران،۲۰۲۱ ۰۹ ۲۲ .
2. فرشید احمدی ,Optimization of Pipe induction bending process by FEM ,4th International congress of Electrical, computer and Mechanical engineering ,1 - 10 07 2020, تهران .
3. فرشید احمدی ,Optimization of Pipe induction bending process by FEM ,4th International congress of Electrical, computer and Mechanical engineering ,1 - 10 07 2020, تهران .
4. Beiramlou H., Ahmadi F,،Improving the surface properties of biomaterials used in orthopedic implants using magnetic abrasive finishing،The ۲۷th Annual (International) Conference of Mechanical Engineering, ISME ۲۰۱۹،tehran،۲۰۱۹ ۵ ۲.
5. . 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 ایران، ISME۲۰۱۹،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 ۳۱۶L using Abacus software،۵th International conference on Applied Research in Electrical, Mechanical and Mechatronics Engineering،۱۷ ۲ ۲۰۱۹،تهران.
7. ۴۵،۴۵،۲۰۱۸،۴۵،۲۰۱۸ شماره صفحات.

Papers in Journals

1. و بررسی میکروساختار و (CEE) فرشید احمدی,علیرضا فروغی،طراحی و ساخت قالب اکستروژن انبساطی متناوب استحکام آلومینیوم ۱۰۵۰ تحت این فرایند،نشریه مهندسی ساخت و تولید،مجلد ۱۱،شماره صفحات ۱۵/۰۷/۱۴۰۳،۴۲.ISC.
2. علی ایزی,محمد هنرپیشه,فرشید احمدی,Non-Uniform Simple Shear Extrusion (NUSSE) Technique as a novel sever plastic deformation technique,Journal of Ultrafine Grained and Nanostructured Materials (JUFGNSM),Vol. 57,pp. 9,2024 06 18,SCOPUS ,ISC.
3. علی ایزی,فرشید احمدی,محمد هنرپیشه,The deformation behavior of aluminum alloy in a novel severe plastic deformation process known as combined SSE-FE process,Manufacturing Letters,Vol. 40,pp. 104,2024 04 02,SCOPUS ,ISI-Listed.
4. علی ایزی,فرشید احمدی,محمد هنرپیشه,The deformation behavior of aluminum alloy in a novel severe plastic deformation process known as combined SSE-FE process,Manufacturing Letters,Vol. 40,pp. 104,2024 04 02,SCOPUS ,ISI-Listed.
5. پارسا انصاری,رضا کاظمی قوهکی,فرشید احمدی,Investigation of the effect of ultrasonic vibration on the performance of the friction drilling by FEM simulation,Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering,2024 04 01,SCOPUS ,JCR.
6. 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.
7. 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.
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9. 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.
10. 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.
11. 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.
12. 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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14. Farshid Ahmadi, Rouhollah Mohammadi,FEM investigation of drilling conditions on heat generation during teeth implantation,Journal of Computational and Applied Research in Mechanical Engineering (JCARME),2019 10 12,SCOPUS ,ISC.
15. 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.

16. 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.
17. 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.
18. 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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21. Ahmadi, F., Farzin, M,Investigation of a new route for equal channel angular pressing process using three-dimensional finite element method,Journal of Engineering Manufacture,2014.
22. 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.
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