



Amirkabir University of Technology  
(Tehran Polytechnic)



**MOSTAFA KETABCHI**

**Professor**  
**Department of Materials and Metallurgical**  
**Engineering**  
**Manufacturing Processes Specialty**

Email:  
[ketabchi@aut.ac.ir](mailto:ketabchi@aut.ac.ir)

Phone:

h-index (Scopus):  
**23**

Citations (Scopus):  
**1451**

**Supervised MSc Theses**

#	Thesis title	By	Date
1	Investigation of superplasticity behavior of Ti-6Al-4V alloy after hot ECAP process	Asgar Jafarbeygi & Mostafa Ketabchi	January 2022
2	Evolution of phase transformation, microstructure and mechanical properties in high-entropy alloys processed by high-pressure torsion	Payam Edalati & Mostafa Ketabchi	June 2021
3	Investigation of stretch flangeability of ferritic-bainitic steel sheets and comparison with stretch flangeability of dual phase ,HSLA and mild steel sheets	Ali Abbasi Kasbi & Mostafa Ketabchi	December 2019
4	Investigating The Effect of Cooling Rate and Finish Rolling Temperature Parameters on Mechanical and Metallurgical Properties of API X70 Pipeline Steels	Nemat Amirjani & Mostafa Ketabchi	October 2019
5	Investigation of effect of accumulative roll bonding (ARB) process on mechanical and metallurgical properties of Magnesium AZ31 sheet	Amir Mansour Saraf Mehraban & Mostafa Ketabchi	July 2019
6	Invistigation of mechanical and metallurgical properties of cupper AZ31-magnesium composite sheet produced by the ARB process	Khaled Jangjoo & Mostafa Ketabchi	February 2019
7	Effect of Cold Rolling process on mechanical and metallurgical properties of IF steel	Omid Asgari & Mostafa Ketabchi	February 2018
8	The effect of IN738 base Ni superalloy TLP joint on Thermal fatigue properties	Tohid Hemadi & Mostafa Ketabchi	June 2017

9	study of metallurgical and mechanical properties of Ti-6Al-4V alloy processed by ECAP	Reza Mortezaei & Mostafa Ketabchi	November 2016
10	Expandable tubular design and analysis in oil well	Sina Shahriari Moghadam & Mostafa Ketabchi	June 2016
11	Production of hybrid composite AL/Cu by accumulative roll bonding	Parisa Yaghinali & Mostafa Ketabchi	April 2016
12	Determination of Johnson- cook plasticity model parameters for nickel-base superalloy Inconel 718	Hamed Kesheh Farahani & Mostafa Ketabchi	January 2016
13	Analysis of L-section extrusion flow pattern using finite element method	Hamidreza Talabeigi & Mostafa Ketabchi	January 2016
14	The relation of the microstructure and mechanical properties of aluminum 6061 friction stir processed	Mohammad Pourriahi & Mostafa Ketabchi	February 2015
15	Investigatin on microstructural and mechanical properties of Cu-particles reinforced aluminum matrix composite produced through friction stir processing (FSP	Rasool Nasiri & Mostafa Ketabchi	October 2014
16	Investigation of Strain-Induced Martensite Phase Transformation on the Wear Behaviour of Co-25Cr-6Mo-0.3C Alloy	Mahdi Goudarzi & Mostafa Ketabchi	January 2014
17	Study of mechanical properties of AA2024 in submerged friction stir processing	Hooman Gharibzade & Mostafa Ketabchi	January 2014
18	Investigation of HCP2/HCP1 Aspect Ratio on In Vitro Corrosion Behavior of Co-Cr-Mo Alloy	Yasna Koochakzadeh & Mostafa Ketabchi	December 2013
19	The achievement of nanostructure in microalloy steel by accumulative roll bonding	Aliakbar Tohidi & Mostafa Ketabchi	October 2012
20	obtaining nanostructured Cu-Al based shape memory alloy by severe plastic deformation	Ahmad Ostovarymoghadam & Mostafa Ketabchi	October 2012
21	Stainless steel-aluminum alloy semisolid joining	Hashem Heshmati Shahbolaghi & Mostafa Ketabchi	June 2012
22	The effect of Nanometer-sized carbides on Mechanical and Metallurgical Properties of Microalloyed steels	Melika Farnoudi & Mostafa Ketabchi	February 2012
23	Determination of forming limit diagram for tailor welded blank (IF) sheet according damage model and compare with experiential results	Behruz Bagheri Vanani & Mostafa Ketabchi	October 2011
24	bbaa	Asiyeh Habibi & Mostafa Ketabchi	February 2011
25	Using	Zahra Hasani Jebeli & Mostafa Ketabchi	November 2010
26	ba	Hossein Mohammadi & Mostafa Ketabchi	October 2010
27	study of reduction of Area and heat treatment on the microstructure and mechanical properties of covar alloy	Mohammad Koochak & Mostafa Ketabchi	January 2010
28	Investigation of warm behavior of 4130X alloy	Seyed Vahid Sajadi & Mostafa Ketabchi	January 2010
29	Simulation of wrinkling in deep drawing process of ST14 sheet	Mohammad Amin Shafaat Gharamaleki & Mostafa Ketabchi	December 2009

30	study on effect of cold rolling and heat treatment on physical and mechanical properties of 60Ni-40Cu alloy	Vahid Saadati Omabad & Mostafa Ketabchi	December 2009
31	USING ACCUMULATIVE ROLL BONDING TO ACHIEVE NANO STRUCTURE IN IF STEELS	Saeed Tamimi & Mostafa Ketabchi	February 2008

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Plastic Deformation in Nanocrystalline Materials	Mostafa Ketabchi, Mohsen Arab, Shahab Ranjbarbahadori	Iran (Islamic Republic of)	September 2014	1

## Journal Papers

### Portal Records

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- 2 Payam Edalati, Abbas Mohammadi, Mostafa Ketabchi, Kaveh Edalati, "Ultrahigh hardness in nanostructured dual-phase high-entropy alloy AlCrFeCoNiNb developed by high-pressure torsion", JOURNAL OF ALLOYS AND COMPOUNDS, July 2021 Vol. 884, Num. 161101, Page 1-9, July 2021,
- 3 Mohammad Berahmand, Mostafa Ketabchi, M.Jamshidian, S.Tsurekawa, "Investigation of microstructure evolution and martensite transformation developed in austenitic stainless steel subjected to a plastic strain gradient: A combination study of Mirco-XRD, EBSD, and ECCI techniques", MICRON, January 2021 Vol. 143, Num. 0, Page 1-12, January 2021,
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- 8 Hamid Arabi, Mostafa Ketabchi, "Improved properties of Ti-6Al-4V by combining isothermal equal-channel angular processing and hot-extrusion", MATERIALS SCIENCE AND TECHNOLOGY, July 2019 Vol. 0, Num. 0, Page 1-7, July 2019,
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- 10 Fatemeh Zahra Hassani Jabali, Mostafa Ketabchi, Sh.Zangeneh, S.Bruschi, "Grain Refinement of Co-Cr-Mo-C Through Plastic Deformation Followed by Reversion of Lamellar Eutectoid Structure", JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, January 2019 Vol. 0, Num. 0, Page 0-0, January 2019,

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- 82 Ali Haghiri, Mostafa Ketabchi, Nader Parvin, "The Effect of Annealing Temperature on The Bond Strength and Structure of Interface in Ag/Cu Strips", *Materials & Design*, March 2008 Vol. , Num. , Page 0-0, March 2008,
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## Conference Papers

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- 1 Nemat Amirjani, Mostafa Ketabchi, M.Eskandari, Mohammad Hizombor, "The Fractography of API 5LX70 Linepipe Steel Plates Following Conducting the Tensile Test", 10th International Conference On Materials and Metallurgical Engineering, November 2021
- 2 Sajad Amir Khanlou, Mostafa Ketabchi, Nader Parvin, Fernando Carreno, "Continuous Dynamic Recovery in Pure Aluminum Deformed to High Strain by Accumulative Press Bonding", 3rd Pan American Materials Congress, February 2017
- 3 Sajjad Amir Khanlou, Mohammad Ebrahim Bajgholi, Mostafa Ketabchi, Nader Parvin, "Accumulative press bonding: a novel process for manufacturing Al/ZnO metal matrix nanocomposites", فصلنامه علمی پژوهشی فرآیندهای نوین در مهندسی مواد, January 2016
- 4 Sajjad Amir Khanlou, Mostafa Ketabchi, Nader Parvin, Fernando Carreno, "Mechanical properties of ultra-fine grained metal matrix nanocomposite prepared by accumulative press bonding (APB) process", 3rd International Engineering Materials and Metallurgy conference, November 2014
- 5 Sajjad Amir Khanlou, Mostafa Ketabchi, Nader Parvin, "Combination of stir casting and accumulative roll bonding processes: a way for fabrication of nanostructured aluminum/alumina composite", 3rd International Engineering Materials and Metallurgy conference, November 2014
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- 8 Ali Kalaki, Mostafa Ketabchi, Hashem Heshmati Shahbolaghi, Vahid Rad, "Optimum Temperature Detection in Aluminum Semi Solid Furnace Brazing Of Stainless Steel Type 304", *Steel Symposium 91*, February 2013
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- 10 Ahmad Ostovarymoghadam, Mostafa Ketabchi, "Fabrication of Cu-Al-Ni-Mn and Cu-Al-Mn shape memory alloys: casting, solidification and thermomechanical treatment ", The First International and The Sixth Joint Conference of Iranian Metallurgical Engineering Society and Iranian Foundrymen Society, November 2012
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- 12 Asiyeh Habibi, Mostafa Ketabchi, Mohammad Eskandarzadeh, "microstructure and properties of pure copper processed by equal channel angular rolling process ", 3rd international conference on ultrafine grained and nanostructured materials, November 2011
- 13 Asiyeh Habibi, Mostafa Ketabchi, "fatigue behavior of pure copper after equal channel angular rolling ", 5th National Conference of Metals and Materials Forming, October 2011
- 14 Malek Naderi, Mostafa Ketabchi, Mahmoud Abbaci, Wolfgang Bleck, "Analysis of microstructural and mechanical properties of different boron and non-boron alloyed steels after being hot stamped ", 11th International Conference on the mechanical behaviour of materials, June 2011
- 15 Shahab Aldin Zangeneh, Mostafa Ketabchi, "The Influence of Heat Treatment on the Microstructure and Wear Behavior of Co-Cr-Mo-C Cast Alloy ", Advanced in applied physics and materials science congress, May 2011
- 16 Zahra Hasani Jebeli, Mostafa Ketabchi, "Controlling the temperature of Equal Channel Angular Rolling process to obtain nano-grain structure in AZ31 magnesium alloy ", Advances in applied physics and materials science congress (APMAS 2011), May 2011
- 17 Asiyeh Habibi, Mostafa Ketabchi, "Obtaining Nano structured Pure Copper With High-strength and High-conductivity by Equal Channel Angular Rolling Process ", 1st National Conference on Nano Science & Nano Technology, February 2011
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- 19 Mostafa Ketabchi, Mahmoud Abbaci, "Determining optimum values of laser welding parameters for a TWB using Taguchi method " , , November 2009
- 20 Mohammad Amin Shafaat Gharamaleki, Mostafa Ketabchi, "Effect of process pressure on mechanical properties of semisolid extruded 7075 aluminum rods " , , April 2009
- 21 Mahmoud Abbaci, Mohammad Abbasi, Mostafa Ketabchi, "Comoarison of M K and MMFC criteria in investigation of formability of a steel sheet " , , March 2009
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- 23 Saeed Tamimi, Mostafa Ketabchi, Nader Parvin, "Mechanical properties of ultra fine grained aluminum and iron produced by accumulative roll bonding method ", Annual Conference and Exhibition of American Society of Materials, Metals and Minerals, March 2008
- 24 Saeed Tamimi, Mostafa Ketabchi, Nader Parvin, "Investigation of micro structure and mechanical properties of IF steel - Al 1100 and Copper after accumulative roll bonding ", Third Students National Congress on Nano Technology, February 2008
- 25 Saeed Tamimi, Mostafa Ketabchi, Nader Parvin, "Ultrafine Grained Aluminum and Iron Produced by Accumulative Roll Bonding Method " , , December 2007
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- 27 Saeed Tamimi, Mostafa Ketabchi, Nader Parvin, "Micro-structural studies of ultra fine grained IF steel produced by Accumulative Roll Bonding ", 2nd International congress (8th national conference) of Iranian Manufacturing Society, November 2007
- 28 Saeed Tamimi, Mostafa Ketabchi, Nader Parvin, "Development of UFG structure in Al 1100 and IF Steel by Accumulative Roll Bonding process ", 2nd International congress of Iranian Manufacturing Engineering Society, November 2007

- 29 Ali Haghiri, Mostafa Ketabchi, Nader Parvin, "The effect of diffusion annealing on microstructure and bond strength in Cu-Ag bimetallic strips ", Third metal forming conference, May 2006
- 30 Ali Haghiri, Mostafa Ketabchi, Nader Parvin, "The effect of interface composition, on hardness and electrical resistance of rolled Cu-Al strips ", Third metal forming conference, May 2006
- 31 Sahar Mehrabi, Nader Parvin, Mostafa Ketabchi, Aboozar Mapar, "Rolling ability of Ag-20Ni sintered alloy compacts ", Ninth Iranian metallurgical engineers society, November 2005
- 32 Ali Haghiri, Mostafa Ketabchi, Nader Parvin, Mortaza Zare, "The effect of diffusion annealing temperature on the microstructure and microhardness of interface in copper - silver bimetallic strips ", , March 2005
- 33 Mostafa Ketabchi, K Ikeda, T. Murakami, "Three Dimensional analysis of metal flow pattern in extrusion of non \_ symmetrical sections Based on upper Bound theoream ", , September 1998
- 34 Mostafa Ketabchi, T. Murakami, "Of Non \_ Symmetrical Sections Bosed on Upper Bound Theoream ", , June 1998
- 35 Mostafa Ketabchi, K Ikeda, T. Murakami, "Three plmensional analysis of metal flow in extrusion of non-symmetrical section based on upper board theoream ", , June 1998

## Taught Courses

#	Course title	Description	Headlines	Date
1	Materials Forming & Powder Lab	Experimental Tests of differnt Metal Forming Processes such as: Compression Forging Extrusion Rolling Deep Drawing , etc		Spring 2022
2	Materials Forming & Powder Lab	Experimental Tests of differnt Metal Forming Processes such as: Compression Forging Extrusion Rolling Deep Drawing , etc		Spring 2022
3	Design of Materials Production Processes	Analysis of Effective Parameters on New Production Processes Design such as: Foil Rolling. TWB. HydroForming. SPD,Thixoforming, etc		Spring 2022
4	Principles of Materials Forming	Introdution and Analysis of Metal Forming Processes		Fall 2021
5	Materials Forming & Powder Lab	Experimental Tests of differnt Metal Forming Processes such as: Compression Forging Extrusion Rolling Deep Drawing , etc		Fall 2021
6	Materials Forming & Powder Lab	Experimental Tests of differnt Metal Forming Processes such as: Compression Forging Extrusion Rolling Deep Drawing , etc		Fall 2021
7	Design of Materials Production Processes	Analysis of Effective Parameters on New Production Processes Design such as: Foil Rolling. TWB. HydroForming. SPD,Thixoforming, etc		Spring 2021
8	Principles of Materials Forming	Introdution and Analysis of Metal Forming Processes		Spring 2021
9	Sheet Metal Forming	.Analysis of sheet metal forming process. Forming Limit Diagram analysis. Effct of different parameters in sheet forming and problems in design of sheet metal forming		Spring 2021

