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Education Information

Doctorate, Gazi University, Fen Bilimleri Ens., Turkey 1990 - 1996

Postgraduate, Marmara University, Fen Bilimleri Ens., Makine Eğt., Turkey 1986 - 1988

Undergraduate, Gazi University, Teknik Eğitim Fak., Makine Eğt., Turkey 1984 - 1984

Dissertations

Doctorate, Metal ve Seramik Tozlarının İzostatik Preslenmesi, Gazi University, Makine , Makine, 1996

Postgraduate, Endüstriyel Lasaer Uygulamaları , Marmara University, Makine , İmalat, 1988

Research Areas

Mechanical Engineering, Construction and Manufacturing, Material, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 1996 - Continues

Advising Theses

Ekicibil A., Ekşi A. K., Investigation of physical and mechanical properties of 316L and 410 stainless steels manufactured by powder metallurgy method, Doctorate, A.NUR(Student), 2019

Ekşi A. K., The transformation of power generation from gear system to the hydraulic system at rotary kiln, Postgraduate, S.ÜNAL(Student), 2019

Ekşi A. K., Investigating the structural and physical properties for al-7000 series prepared on different temperatures and pressures, Postgraduate, A.NUR(Student), 2014

Ekşi A. K., The influence of sintering and shot peening processes on alumix 431 powder materials, Postgraduate, O.İYNEN(Student), 2009

Ekşi A. K., Development of a nurbs based adaptive slicing procedure for fused deposition modeling in rapid prototyping applications, Doctorate, D.ALİ(Student), 2008

Ekşi A. K., Mechanical properties of different aluminum alloys joined by friction stir welding, Postgraduate,

M.DİLEK(Student), 2006

Ekşi A. K., Sintering of cold isostatically pressed metal powders, Postgraduate, A.HAKAN(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pressure effect on the structural, magnetic and thermophysical properties of X12Cr13 martensitic stainless steel prepared by powder metallurgy method**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
MATERIALS TODAY COMMUNICATIONS, vol.33, pp.104924-104935, 2022 (SCI-Expanded)
- II. **Real 3D turning simulation of materials with cylindrical shapes using ABAQUS/Explicit**
İYNEN O., EKŞİ A. K., AKYILDIZ H. K., ÖZDEMİR M.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.43, no.8, 2021 (SCI-Expanded)
- III. **Fe Addition Influence on the Mechanical and Thermophysical Behaviours of PM Alumix 431 Allo**
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- IV. **Experimental and numerical investigation of cutting forces during turning of cylindrical AISI 4340 steel specimens**
İYNEN O., EKŞİ A. K., ÖZDEMİR M., AKYILDIZ H. K.
MATERIALS TESTING, vol.63, no.5, pp.402-410, 2021 (SCI-Expanded)
- V. **Effect of pressure on the magnetic and structural properties of X2CrNiMo17-12-2 austenitic stainless steel prepared by powder metallurgy method**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1198, 2019 (SCI-Expanded)
- VI. **Effect of temperature and pressure on mechanical, surface and electrochemical properties of Al-1.5Cu-5.5Zn-2.5Mg (Alumix-431)**
ACAR A. N., MUTLU R. N., EKŞİ A. K., EKİCİBİL A., Yazici B.
ANTI-CORROSION METHODS AND MATERIALS, vol.65, no.6, pp.558-571, 2018 (SCI-Expanded)
- VII. **Experimental and numerical studies of metallic powders subjected to cold isostatic pressing**
EKŞİ A. K., Laman M., BİRCAN D. A., Demir A.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.102, no.5, pp.572-578, 2011 (SCI-Expanded)
- VIII. **The effects of sintering and shot peening processes on the fatigue strength**
İYNEN O., EKŞİ A. K., BİRCAN D. A., DİLEK M.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.41, no.4, pp.202-212, 2010 (SCI-Expanded)
- IX. **Effect Of Shot Peening Process On Alumix 431 Powder Materials**
İynen O., EKŞİ A. K., BİRCAN D. A.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.25, no.1, pp.83-93, 2010 (SCI-Expanded)
- X. **Alumix 431 Tozunun (Al7xxx) Soğuk ve Sıcak Preslenmesi Üzerine Bir Çalışma**
EKŞİ A. K., BİRCAN D. A., Sonsino C.
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- XI. **Investigation of mechanical properties before and after sintering of cold isostatically pressed metallic powders**
Ekşi A. K.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.44, no.4, pp.191-198, 2006 (SCI-Expanded)
- XII. **Tensile and fatigue properties of cold and warm compacted Alumix 431 alloy**
Ekşi A. K., VELTL G., PETZOLDT F., LIPP K., SONSINO C.
POWDER METALLURGY, vol.47, no.1, pp.60-64, 2004 (SCI-Expanded)
- XIII. **Experimental and numerical studies of metal powders pressed by uniaxial floating die: Case copper and bronze**

Articles Published in Other Journals

- I. **SWAGING/DIAMETER REDUCTION APPLICATIONS IN ALUMINUM ALLOY PIPE MATERIALS**
TAŞ M., EKŞİ A. K.
KSÜ Mühendislik Bilimleri Dergisi, vol.27, no.3, pp.929-937, 2024 (Peer-Reviewed Journal)
- II. **Structural and Surface Properties of Glass Powder Coated Cr Steels**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The International Journal of Materials and Engineering Technology, vol.4, no.2, pp.109-116, 2021 (Peer-Reviewed Journal)
- III. **Pressure Influence on the Thermophysical Properties of 316L Austenitic Stainless Steels Manufactured By Powder Metallurgy Method**
Acar A. N., Ekşi A. K., Ekicibil A.
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.35, no.1, pp.241-249, 2020 (Peer-Reviewed Journal)
- IV. **THERMOPHYSICAL BEHAVIOURS OF P/M DISTALLOY AE ALLOYS AT TEMPERATURE RANGE OF 0-600 OC**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
The International journal of Materials and Engineerin Technology, vol.2, no.2, pp.64-69, 2019 (Peer-Reviewed Journal)
- V. **The Physical Properties Of Aluminium-7xxx Series Alloys Produced By Powder Metallurgy Method**
Acar A. N., Ekşi A. K., Ekicibil A.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.21, pp.341-350, 2018 (ESCI)
- VI. **Alüminyum Alaşımının Frezelenmesi İşleminde Kesme Parametrelerinin Yüzey Pürüzlülüğüne Etkisinin İncelenmesi**
KÜLEKÇİ M. K., EŞME U., EKŞİ A. K., KOÇOĞLU Z., YILMAZ N. F.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.32, no.2, pp.153-160, 2017 (Peer-Reviewed Journal)
- VII. **En Aw 5754 (Almg3) Alüminyum Alaşımının Frezelenmesi İşleminde Kesme Parametrelerinin Yüzey Pürüzlülüğüne Etkisinin İncelenmesi**
KÜLEKÇİ M. K., EŞME U., EKŞİ A. K., ZÜLFÜ K., YILMAZ N. F.
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- VIII. **Investigation of CuNO3 as Diesel Fuel Additives**
KESKİN A., YAŞAR A., EKŞİ A. K.
International Journal of Natural and Engineering Sciences, vol.11, no.1, pp.34-39, 2017 (Peer-Reviewed Journal)
- IX. **Development of the Customized Implant System Using CAD/CAM/CAE Tools**
BİRCAN D. A., Dede D., EKŞİ A. K.
Advances in Materials and Processing Technologies, no.2, pp.57-65, 2016 (Scopus)
- X. **Some Transport Properties of Alumix-431 Materials by Prepared P/M Method**
EKŞİ A. K., ACAR A. N., EKİCİBİL A.
Manufacturing Science and Technology, vol.3, no.5, pp.253-258, 2015 (Peer-Reviewed Journal)
- XI. **Tomografi Verisinden Elde Edilen Alt Çeneye Uygun İmplant-Abutment Tasarımı ve Analizi**
BİRCAN D. A., Dede D., EKŞİ A. K.
CAD/CAM/CAE Dünyası, vol.33, pp.42-47, 2013 (Peer-Reviewed Journal)
- XII. **IGES Based Direct and Adaptive Slicing of CAD Models For RP Applications**
BİRCAN D. A., EKŞİ A. K.
Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, vol.3, pp.10-19, 2008 (Peer-Reviewed Journal)

- XIII. **The investigation in properties of welded 5xxx series Al Alloys by friction stir welding**
DİLEK M., EKŞİ A. K.
Journal of Science and Engineering, pp.123-132, 2007 (Non Peer-Reviewed Journal)
- XIV. **Data Transfer in Layered Manufacturing**
BİRCAN D. A., EKŞİ A. K.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.22, pp.12-24, 2007 (Peer-Reviewed Journal)
- XV. **5083-O,5186-H111 ve 5083-H111 Alüminyum Alaşımlarının Sürtünme Karıştırma Kaynak Yöntemiyle Birleştirilmesi**
DİLEK M., BİRCAN D. A., EKŞİ A. K.
Ç.Ü. Mühendislik-Mimarlık Fakültesi Dergisi, pp.255-268, 2007 (Non Peer-Reviewed Journal)
- XVI. **Dizel Motorlarda Mısır Yağı Biyodizelinin Yakıt Olarak Kullanımının Motor Performans ve Emisyonuna Etkisi**
KESKİN A., EKŞİ A. K.
C.B.Ü. Fen Bilimleri Dergisi, vol.2, no.1, pp.49-55, 2006 (Peer-Reviewed Journal)
- XVII. **Effects of Powder Hardness and Particle Size on the Densification of Cold Isostatically Pressed Powders**
EKŞİ A. K., Süleyman S.
Turkish J. Eng. Env. Sci., no.26, pp.377-384, 2002 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Influence of Shot Peening on Mechanical Properties of the Alumix 431 PM Alloys**
İynen O., EKŞİ A. K., BİRCAN D. A., DİLEK M.
in: Powder Metallurgy for Automotive, Aluminum Alloys, Hard and Super Hard Materials, Ramakrishnan P. , Editor,
Medtec, Delhi, pp.125-135, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **Surface and Structural Properties of Martensitic Stainless Steel –Glass Powder Composite Materials Prepared by Powder Metallurgy Method**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The 4th International Conference of Materials and Engineering Technology (TICMET'22), İstanbul, Turkey, 8 - 10 September 2022, pp.99-103
- II. **A Review on Aluminium Matrix Composites Manufactured by Powder Metallurgy,**
Pesen E., Ekşi A. K., Acar A. N., Ekicibil A.
The 3rd International Conference of Materials and Engineering Technology (TICMET'21), Gaziantep, Turkey, 5 - 06 November 2021, pp.54-62
- III. **Structural And Surface Properties Of Glass Powder Coated Cr Steels**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The 3rd International Conference of Materials and Engineering Technology (TICMET'21), Gaziantep, Turkey, 5 - 06 November 2021, pp.252
- IV. **Effect of Glass Powder on the Surface and Microstructural Properties of Dual Phase Steels**
Acar A. N., Ekşi A. K., Ekicibil A.
'8th international Conference on Materials Science and Nanotechnology for Next Generation (MSNG2021), Elazığ, Turkey, 14 - 16 July 2021, pp.13-19
- V. **Thermophysical Behaviors of Alumix (431)–Fe Alloy Mixtures Prepared by Powder Metallurgy Method**
Acar A. N., Mutlu R. N., Ekşi A. K., Ekicibil A.
6th international Conference on Materials Science and Nanotechnology for Next Generation (MSNG2019), Niğde,

Turkey, 16 - 18 October 2019, pp.70-74

- VI. **Specific Heat Capacity Behaviours of P/M Distaloy AE Alloy Compacts**
Acar A. N., Ekşi A. K., Ekicibil A.
International Conference on Condensed Matter and Materials Science-2019 (ICMMS-19), Adana, Turkey, 14 - 19 October 2019, pp.7-13
- VII. **Corrosion Properties Of Distaloy AE Alloys Prepared By P M Method In 1M KOH Solution**
Acar A. N., Mutlu R. N., Ekşi A. K., Ekicibil A.
The International Conference of Materials and Engineering Technologies (TICMET'19), Gaziantep, Turkey, 10 - 12 October 2019, pp.743-751
- VIII. **Structural and Physical Properties of Sintered Distaloy AE Alloy Compacts**
Acar A. N., Ekşi A. K., Ekicibil A.
Fourth International Iron and Steel Symposium (UDCS'19 Fourth International Iron and Steel Symposium, Karabük, Turkey, 4 - 06 April 2019, pp.231-233
- IX. **'Magnetization and Electrical Resistivity of Al-7xxx Alloys Manufacturing by Powder Metallurgy Method**
Acar A. N., Ekşi A. K., Ekicibil A.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.291-293
- X. **Hardness, Density and Surface Properties of P/M Alumix-(431)-Fe Alloy Mixtures**
Acar A. N., Mutlu R. N., Ekşi A. K., Ekicibil A.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.288-290
- XI. **Corrosion Properties of Austenitic and Martensitic Stainless Steels Produced by Powder Metallurgy Method"**
Acar A. N., Mutlu R. N., Ekşi A. K., Ekicibil A., Yazıcı B.
XVth International Corrosion Symposium (KORSEM'18), Hatay, Turkey, 26 - 28 September 2018, pp.369-381
- XII. **Pressure Influence on the Thermophysical Properties of the P/M- Fe-Cr Martensitic Stainless Steels**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2020-2024
- XIII. **Evaluation of the Impact Toughnesses of the P/M-X12Cr13 Martensitic Stainless Steels**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.306-309
- XIV. **On the View of the Impact Toughness of P/M- X2CrNiMo17-12-2 Austenitic Stainless Steels?**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
5th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.1-4
- XV. **Investigation of Magnetic Properties of Zamak-2 Alloy Prepared by Powder Metallurgy**
KOCA B., MUTLU R. N., ACAR A. N., EKŞİ A. K., EKİCİBİL A., YAZICI B.
5th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.334-337
- XVI. **On the View of the Thermo-Physical Properties of X2CrNiMo17-12-2 Austenitic Stainless Steels Prepared by P/M Method**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), Elazığ, Turkey, 19 - 21 June 2018, pp.120
- XVII. **Investigation of CuNO₃ as Diesel Fuel Additives**
KESKİN A., YAŞAR A., EKŞİ A. K.
3rd International Congress on Natural and Engineering Sciences, 21 - 25 July 2017
- XVIII. **On the Study of the Structural Properties of Fe-Cr Martensitic Stainless Steels Prepared by Powder**

Metallurgy Method

ACAR A. N., EKŞİ A. K., EKİCİBİL A.

2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1

- XIX. **The Effect of Pressure on the Magnetic Properties of X12Cr13 Martensitic Stainless Steels Prepared by Powder Metallurgy Method**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
International Conference on Condensed Matter and Material Sciences (ICMMS2017), Adana, Turkey, 11 - 15 October 2017, pp.85
- XX. **On the Structural Properties of Martensitic and Austenitic Stainless Steels Prepared by Powder Metallurgy**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.750
- XXI. **The Magnetic Properties of X2CrNiMo17-12-2 Austenitic Stainless Steels Produced by P/M Method**
ACAR A. N., EKŞİ A. K., EKİCİBİL A.
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4th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.276
- XXIII. **Investigation of the Mechanical and Surface Properties of Alumix 431 Alloys Prepared by Powder Metallurgy**
ACAR A. N., MUTLU R. N., EKŞİ A. K., EKİCİBİL A., YAZICI B.
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- XXIV. **Askeri Kara Araçlarında Mayın Koruma Tedbirleri**
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- XXV. **Mayınlı Alan Temizleme Ve Geçit Açma Sistemleri**
Erbil Y., EKŞİ A. K., BİRCAN D. A., Güzel S.
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- XXVI. **The DSC Studies and Thermoelectric Properties of Alumix (431) Alloy prepared by P/M Method**
Acar A. N., Ekşi A. K., Ekicibil A.
2nd International of Advanced and Functional Material Technologies (AFMAT), Antalya, Turkey, 20 - 22 October 2016, pp.11
- XXVII. **Investigation of Alumix (431) Anode for Al-Air Battery Performance**
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- XXVIII. **Corrosion Properties of Cold and Warm Compacted Alumix (431) Alloys**
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- XXIX. **Evaluation of Ni and Mo based additives as a Combustion Catalyst for Diesel Fuel**
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- XXX. **Evaluation of Ni and Mo Based Additives as a Combustion Catalyst for Diesel Fuels**
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2nd International Journal of Natural and Engineering Sciences, Üsküp, Macedonia, 1 - 05 September 2016, pp.27-31

- XXXI. **Sürtünme Karıştırma Esaslı İşleme Yöntemleri**
ÖCALIR Ş., Külekçi M. K., EŞME U., EKŞİ A. K.
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- XXXII. **Some Transport Properties of Alumix 431 Materials by Prepared P M Method**
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- XXXIII. **A study of Physical and Thermoelectric Properties of Alumix Materials Produced PM Method**
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- XXXIV. **A Study of Physical and Thermoelectric Properties of Alumix(431) Materials Produced P/M Method**
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- XXXV. **Review: Searching of Thermoelectric Properties of of Al and Al Derivated Alloys Produced P/M Methods**
ACAR A. N., EKŞİ A. K.
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- XXXVI. **Design and Analysis of the Customized Implant System Using CAD/CAM/CAE Tools**
BİRCAN D. A., Dede D., EKŞİ A. K.
3rd International Symposium on Innovative Technologies in Engineering and Science, ISITES2015, Valencia, Spain, 3 - 05 June 2015, pp.34-42
- XXXVII. **The Fatigue Properties of the Machine Elements Produced By Powder Metallurgy**
Ünal S., Ekşi A. K., Acar A. N., Dede D.
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- XXXVIII. **Manufacturing of Dental Implants Using Powder Metallurgy (P/M) Process**
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- XXXIX. **Construction of 3d Finite Element Model of Human Mandible for Biomechanical Analysis**
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- XL. **The Effect of sintering and Nitriding Processes on Distaloy AE Powder Materials**
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- XLI. **Spall Liner: From Fiber to Protection**
Erbil Y., EKŞİ A. K., BİRCAN D. A.
6th International Advanced Technologies Symposium (IATS?11, Elazığ, Turkey, 16 - 18 May 2011, pp.146-156
- XLII. **Materials Used in Ballistic Protection**
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- XLIII. **Sürtünme Karıştırma Kaynak Yöntemi ile Birleştirilen 5083-0 ve 5186-H111 Alüminyum Alaşımı Bağlantılarının Mekanik ve Mikroyapı Özelliklerinin İncelenmesi**
DİLEK M., BİRCAN D. A., EKŞİ A. K., İynen O.
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- XLIV. **Design and Investigation of Improvement of Fatigue Properties of the Machine Elements Produced by Powder Metallurgy**
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5th International Advanced Technologies Symposium (IATS?09), Karabük, Turkey, 13 - 15 May 2009, pp.978-983
- XLV. **Experimental and Numerical Studies of Metal Powders Pressed By Cold Isocratic Pressing Unit Case**

Aluminum and Iron

EKŞİ A. K., BİRCAN D. A.

5. International Powder Metallurgy Conference, Ankara, Turkey, 8 - 12 October 2008, pp.168-176

XLVI. Soğuk ve Sıcak Preslenen Alüminyum Alaşımlarının (Al7xxx) Mekanik Özellikleri

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XLVII. The Investigation in Properties of Welded Dissimilar Al Alloys by Friction Stir Welding

DİLEK M., EKŞİ A. K., BİRCAN D. A.

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XLVIII. Comparison and investigation of mechanical properties of bronze and copper powders compressed by computer controlled uniaxial die and cold isostatic pressing methods

EKŞİ A. K., SÜLEYMAN S.

3th. International Powder Metallurgy Conference, 5 - 08 September 2002

XLIX. Metal ve seramik tozlarının bilgisayar kontrollü tek eksenli kalıpta preslenmesi

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Metrics

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Non Academic Experience

TSE