

## Assoc. Prof. Orhan ÇAKIR

### Personal Information

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### Education Information

Doctorate, Cranfield University, School Of Industrial Manufacturing Sciences, Advanced Manufacturing Technologies, United Kingdom 1991 - 1995

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Makina Mühendisliği Bölümü, Turkey 1988 - 1990

Undergraduate, Yildiz Technical University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, Turkey 1984 - 1988

### Research Areas

Mechanical Engineering, Construction and Manufacturing, Non-traditional manufacturing methods, Machining Methods, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Machine, 2013 - Continues

### Academic and Administrative Experience

Vice Dean, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - 2021

Erasmus Coordinator, Yildiz Technical University, Makine Mühendisliği Bölümü, 2013 - 2018

### Courses

TAKIM TEZGAHLARI, Undergraduate, 2016 - 2017, 2015 - 2016

FABRİKA ORGANİZASYON VE YÖNETİMİ, Undergraduate, 2016 - 2017

İMAL USULLERİ I, Undergraduate, 2016 - 2017

İMAL USULLERİ II, Undergraduate, 2016 - 2017

GELENEKSEL OLMAYAN İMALAT YÖNTEMLERİ, Postgraduate, 2016 - 2017

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Experimental study on turning machine with permanent magnetic cutting tool**  
Kaplan S., ÇAKIR O., ALTAN E.  
OPEN CHEMISTRY, vol.20, no.1, pp.1196-1201, 2022 (SCI-Expanded)
- II. **Etchants for Chemical Machining of Aluminium and Its Alloys**  
Çakır O.  
ACTA PHYSICA POLONICA A, vol.135, no.4, pp.586-587, 2019 (SCI-Expanded)
- III. **Chemical Machining of St37 Rod Using Etchant Substance FeCl<sub>3</sub>**  
Çakır O.  
ACTA PHYSICA POLONICA A, vol.135, no.4, pp.583-585, 2019 (SCI-Expanded)
- IV. **The dependence of tool overhang on surface quality and tool wear in the turning process**  
Kiyak M., Kaner B., Şahin İ., Aldemir B., Cakir O.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.51, pp.431-438, 2010 (SCI-Expanded)
- V. **Chemical etching of aluminium**  
Cakir O.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.199, pp.337-340, 2008 (SCI-Expanded)
- VI. **Investigation of mechanical and machinability properties of SiC particle reinforced Al-MMC**  
Ozben T., Kilickap E., Cakir O.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.198, pp.220-225, 2008 (SCI-Expanded)
- VII. **Examination of machining parameters on surface roughness in EDM of tool steel**  
Kiyak M., ÇAKIR O.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.191, pp.141-144, 2007 (SCI-Expanded)
- VIII. **Surface integrity of finished turned Ti-6Al-4V alloy with PCD tools using conventional and high pressure coolant supplies**  
Ezugwu E. O., Bonney J., Da Silva R. B., Cakir O.  
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.47, no.6, pp.884-891, 2007 (SCI-Expanded)
- IX. **Copper etching with cupric chloride and regeneration of waste etchant**  
ÇAKIR O.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.175, pp.63-68, 2006 (SCI-Expanded)
- X. **Study of tool wear and surface roughness in machining of homogenised SiC-p reinforced aluminium metal matrix composite**  
KILIÇKAP E., Cakir O., AKSOY M., İNAN A.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.164, pp.862-867, 2005 (SCI-Expanded)
- XI. **Chemical etching of Cu-ETP copper**  
ÇAKIR O., TEMEL H., Kiyak M.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.162, pp.275-279, 2005 (SCI-Expanded)
- XII. **Comparison of gases applications to wet and dry cuttings in turning**  
ÇAKIR O., Kiyak M., ALTAN E.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.153, pp.35-41, 2004 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Abrasive water-jet applications in 6 mm flat glass cuttings**  
İbrahim Avcı H., ÇAKIR O.  
Materials Today: Proceedings, vol.80, pp.104-109, 2023 (Scopus)
- II. **Examination of surface roughness values of 6061-T6 aluminum material after machining and after anodizing process**  
Karakoç E., ÇAKIR O.  
Materials Today: Proceedings, vol.80, pp.32-39, 2023 (Scopus)
- III. **EFFECTS OF PROCESS PARAMETERS IN PLASMA ARC CUTTING ON STAINLESS STEELS AND**

## **STRUCTURAL STEEL**

Erbilen M., Çakır O.

MACHINES. TECHNOLOGIES. MATERIALS, vol.13, no.1, pp.23-25, 2019 (Peer-Reviewed Journal)

- IV. **Study of surface quality in dry and wet external cylindrical grinding**  
KIYAK M., Çakır O.  
International Journal of Computational Materials Science and Surface Engineering, vol.3, no.1, pp.12-23, 2009 (Scopus)
- V. **Study of Etch Rate and Surface Roughness in Chemical Etching of Stainless Steel**  
ÇAKIR O.  
Key Engineering Materials, pp.837-842, 2008 (Scopus)
- VI. **Review of Etchants for Copper and Its Alloys in Wet Etching Processes**  
ÇAKIR O.  
Key Engineering Materials, pp.460-465, 2008 (Scopus)
- VII. **Selection of Cutting Fluids in Machining Processes**  
ÇAKIR O., YARDİMEDEN A., ÖZBEN T., KILIÇKAP E.  
Journal of Achievements in Materials and Manufacturing Engineering, no.2, pp.99-102, 2007 (Scopus)
- VIII. **Chemical machining**  
Çakır O., Yardımeden A., Özben T.  
Archives of Materials Science and Engineering, vol.28, no.8, pp.499-502, 2007 (Scopus)
- IX. **ELEKTROKİMYASAL İŞLEME YÖNTEMİ**  
ÇAKIR O., ALTAN E.  
METAL MAKİNA, no.56, pp.40-46, 1994 (Peer-Reviewed Journal)
- X. **FOTOKİMYASAL İŞLEME YÖNTEMİ**  
ÇAKIR O., ALTAN E.  
METAL MAKİNA, no.51, pp.66-74, 1993 (Peer-Reviewed Journal)
- XI. **COPPER ETCHING ECONOMICS**  
ÇAKIR O., ALLEN D.  
PHOTOCHEMICAL MACHINING INSTITUTE JOURNAL (PCMI), no.52, pp.4-7, 1993 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **ALIŞILAGELMEDİK TALAŞLI İMALAT VE ISIL ENERJİLİ KESME İŞLEMLERİ**  
ÇAKIR O.  
in: MODERN İMALATIN PRENSİPLERİ, Mustafa YURDAKUL , Yusuf Tansel İÇ, Editor, NOBEL Akademik Yayıncılık, pp.618-644, 2015

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Investigation on Effects of Different Graphite Grades on Electric Discharge Machining of Hybrid Tool Steel**  
Yaman S., ÇAKIR O.  
2nd International Congress on Advances in Mechanical and Systems Engineering, CAMSE 2021, Virtual, Online, 17 - 19 July 2021, pp.833-842
- II. **ABRASIVE WATER-JET APPLICATIONS IN GLASS CUTTING**  
Avcı H. İ., Çakır O.  
11th International Congress on Machining, İstanbul, Turkey, 9 - 11 December 2021, pp.238-244
- III. **EFFECTS OF PROCESS PARAMETERS ON SURFACE ROUGHNESS IN WEDM OF INCONEL 718**  
Ceylan M., Çakır O.  
11th International Congress on Machining, İstanbul, Turkey, 9 - 11 December 2021, pp.253-258

- IV. **WEDM of K390 Tool Steel**  
Yıldız U., Yaman S., Çakır O.  
Congress on Advances in Mechanical and Systems Engineering (CAMSE) 2021, Jalandhar, India, 17 - 19 July 2021
- V. **Chemical Etching of Al7075 Alloy with NaOH**  
Çakır O.  
Congress on Advances in Mechanical and Systems Engineering (CAMSE) 2021, Jalandhar, India, 17 - 19 July 2021
- VI. **Investigation on Effects of Different Graphite Grades on EDM of Hybrid Tool Steel**  
Yaman S., Çakır O.  
Congress on Advances in Mechanical and Systems Engineering (CAMSE) 2021, Jalandhar, India, 17 - 19 July 2021
- VII. **Comparison of Processing of Special Tool Steels by Electro Erosion Method**  
Yaman S., Çakır O.  
Fourth International Iron and Steel Symposium (UDCS'21), Karabük, Turkey, 1 - 03 April 2021, pp.257-261
- VIII. **Effects of Pulse On/Off Times Parameters on Surface Roughness in Wire Electrical Discharge Machining of Tool Steel**  
Yıldız U., Çakır O.  
Fourth International Iron and Steel Symposium (UDCS'21), Karabük, Turkey, 1 - 03 April 2021, pp.234-237
- IX. **IMPROVING THE RF PERFORMANCE OF CERAMICS USING LASER ASSISTED MACHINING**  
Güngör E., Özbek E., Shukurov S., ÇAKIR O.  
FIFTH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.1767-1772
- X. **BRIEF REVIEW OF ECM BASED HYBRID MANUFACTURING PROCESSES**  
Tetik A., ÇAKIR O.  
FIFTH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.1839-1858
- XI. **INFLUENCES OF EDM PARAMETERS ON MATERIAL REMOVAL RATE AND SURFACE ROUGHNESS**  
Erbul A., ÇAKIR O.  
OF FIFTH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.1734-1742
- XII. **A REVIEW OF ULTRASONIC ASSISTED HYBRID MACHINING: METHODS AND APPLICATIONS**  
Duman E., ÇAKIR O.  
FIFTH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2019, İstanbul, Turkey, 17 - 19 December 2019, pp.1439-1449
- XIII. **Cutting Fluids on Machining and Environmental Issues-A Review**  
Kiyak M., Çakır O., Şahin İ.  
5th International Conference on Computational and Experimental Science and Engineering (ICCES-2018), İstanbul, Turkey, 12 - 16 October 2018, pp.152-159
- XIV. **CHEMICAL MACHINING OF MAGNESIUM AND ITS ALLOYS – A REVIEW**  
ÇAKIR O.  
ICAME 2018, 19 - 21 December 2018, vol.1
- XV. **“THE EFFECT OF HIGH VOLUME AND HIGH SPEED MACHINING ON TOOL LIFE**  
ÇAVDAR K., ÖZSOY M., ÇAKIR O., ORAL A., ÇAKIR M. C.  
ICAME 2018, 7 - 10 December 2018, vol.1, pp.1-6
- XVI. **INFLUENCES OF MACHINING PARAMETERS ON SURFACE ROUGHNESS AND HEAT AFFECTED ZONE IN WIRE ELECTRICAL DISCHARGE MACHINING OF DIE MATERIAL**  
ÇAKIR O., Çelik A., Çelik E.  
9th International Congress on Machining UTIS 2018, 8 - 10 November 2018
- XVII. **CHEMICAL MACHINING OF MAGNESIUM ALLOY WITH HCl AND NaOH**  
Çakır O., Yıldırım C., Zeyneloğlu R., Kurt L.  
9th International Congress on Machining, UTIS 2018, Antalya, Turkey, 8 - 10 November 2018, pp.265-270
- XVIII. **Environmental Progresses in Photochemical Machining**  
ÇAKIR O., KIYAK M., ŞAHİN İ.

5th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2018), Antalya, Turkey, 12 October 2018, pp.526

- XIX. **Chemical Machining of AZ31B Magnesium Alloy**  
ÇAKIR O.  
5th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2018), 12 - 16 October 2018
- XX. **Cutting Fluids in Machining and Environmental Issues -A Review**  
Kıyak M., Çakır O., Şahin İ.  
5 th International Conference on Computational and Eperimental Science and Engineering (ICCESEN-2018), Antalya, Turkey, 12 - 16 October 2018, pp.152-159
- XXI. **STAMPING DIE PRODUCTION WITH WIRE ELECTRODISCHARGE MACHINING OF VANADIS 10 AND K390 TOOL STEEL**  
ÇAKIR O., Çelik A., Çelik E.  
18th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION, 3 - 06 July 2018
- XXII. **Chemical Machining of St37 Rod With FeCl3**  
ÇAKIR O.  
APMAS 2018 8th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS AND EXHIBITION, Muğla, Turkey, 24 April 2018, pp.1-4
- XXIII. **Etchants For Chemical Machining of Aluminum and Its Alloys**  
ÇAKIR O.  
APMAS 2018 8th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS AND EXHIBITION, Muğla, Turkey, 24 April 2018, pp.1-4
- XXIV. **ELECTRICAL DISCHARGE MACHINING OF INCONEL ALLOYS**  
ÇAKIR O., GÜRKAN D.  
Third International Conference on Advances In Mechanical Engineering ICAME 2017, İstanbul, Turkey, 19 December 2017, vol.1, pp.702-708
- XXV. **INFLUENCE OF WIRE ELECTRICAL DISCHARGE MACHINING PARAMETERS ON WHITE LAYER FORMATION**  
ÇAKIR O., ÇELİK A. S.  
Third International Conference on Advances In Mechanical Engineering ICAME 2017, İstanbul, Turkey, 19 December 2017, pp.697-701
- XXVI. **CHEMICAL MACHINING OF STAINLESS STEELS**  
ÇAKIR O.  
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017 – ICAME2017, 19 - 21 December 2017
- XXVII. **ALÜMİNYUM 7075 MALZEMESİNİN NaOH KİMYASAL AŞINDIRICI İLE İŞLENMESİNDE İŞLEME DERİNLİĞİ VE YÜZEY PÜRÜZLÜLÜĞÜNÜN İNCELENMESİ**  
ÇAKIR O.  
8. ULUSLARARASI TALAŞLI İMALAT SEMPOZYUMU, Antalya, Turkey, 2 - 04 November 2017, pp.546-556
- XXVIII. **POM ve PE Polimer Malzemelerin Delinmesinde Yüzey Pürüzlülüğü**  
Çelikyay N. B., UYSAL A., ÇAKIR O.  
8th International Symposium On Machining (UTIS 2017), Antalya, Turkey, 2 - 04 November 2017, pp.219-224
- XXIX. **Internal cooling cutting technology in turning operations**  
ŞAHİN İ., KIYAK M., ÇAKIR O.  
International Conference on Energy and Thermal Engineering, İstanbul, Turkey, 25 April 2017, pp.1-6
- XXX. **TEMPERATURE IMPACT IN CHEMICAL MACHINING**  
ÇAKIR O.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Turkey, 25 - 28 April 2017, pp.628-631
- XXXI. **CHEMICAL MACHINING OF COPPER ZINC ALLOY WITH FeCl3 AND FeCl3 HCl**  
Çakır O.

7th INTERNATIONAL SYMPOSIUM ON MACHINING, İstanbul, Turkey, 3 - 05 November 2016, pp.452-459

- XXXII. **HEATING TECHNIQUES IN HOT MACHINING**  
ÇAKIR O., ŞAHİN İ.  
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE ICAS 2016, İstanbul, Turkey, 31 July - 02 September 2016, pp.238-246
- XXXIII. **APPLICATION OF WIPER INSERT IN CUTTING TOOL TECHNOLOGY**  
KIYAK M., ŞAHİN İ., ÇAKIR O.  
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE ICAS 2016, İstanbul, Turkey, 31 August - 02 September 2016, pp.60-65
- XXXIV. **MACHINING OF HADFIELD STEEL : AN OVERVIEW**  
Çakır O.  
2nd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 13 - 15 May 2016, pp.227-232
- XXXV. **ENVIRONMENTAL IMPROVEMENTS IN PHOTOCHEMICAL MACHINING**  
ÇAKIR O.  
2nd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 01 May 2016, pp.542-547
- XXXVI. **CHEMICAL MACHINING OF CZ128 COPPER ALLOY**  
ÇAKIR O.  
2nd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 01 May 2016, pp.404-407
- XXXVII. **304 VE 430 PASLANMAZ ÇELİKLERİN KİMYASAL İŞLENMESİ**  
Çakır O., Emiroğlu U.  
6. Ulusal Talaşlı İmalat Sempozyumu (UTİS 2015), İstanbul, Turkey, 3 - 05 November 2016, pp.158-167
- XXXVIII. **SİLİNDİRİK PARÇALARIN KİMYASAL İŞLENMESİ**  
ÇAKIR O.  
01 October 2014
- XXXIX. **Yüksek Manganlı Çeliğin Kesici Ağzı Yuvarlatılmış Sert Metal Takımlar ile Ortogonal Tornalanmasında Takım Ömrü**  
Kiyak M., UYSAL A., ÇAKIR O., ALTAN E.  
3. Ulusal Talaşlı İmalat Sempozyumu, Turkey, 4 - 05 October 2012, vol.1, pp.496-502
- XL. **Frezeleme İşleminde Kesme ve İlerleme Hızlarının Yüzey Pürüzlülüğü Üzerine Etkilerinin İncelenmesi**  
Kiyak M., UYSAL A., ÇAKIR O.  
The 15th International Conference on Machine Design and Production, 19 - 22 June 2012, vol.3, pp.1173-1181
- XLI. **Talaşlı İşlemede Gazların Kullanımı**  
ÇAKIR O., KIYAK M., ALTAN E.  
13. Uluslararası Makine Tasarım ve İmalat Kongresi (UMTİK2008), İstanbul, Turkey, 3 - 05 September 2008, pp.1-12
- XLII. **Freze Takımı ile Silindirik Tornalama**  
KIYAK M., ÇAKIR O., ALTAN E.  
13.Uluslararası Makine Tasarım ve İmalat Kongresi (UMTİK 2008), İstanbul, Turkey, 3 - 05 September 2008, pp.1-12
- XLIII. **"%5 SiC-p metal matriksli kompozitin soğuk talaşlı işlenmesi**  
KILIÇKAP E., ÇAKIR O., İNAN A.  
01 October 2004
- XLIV. **Evaluation of tool path equation parameters for spur gear and development of CNC program for CNC milling machines**  
ÖZEL C., ÇAKIR O.  
01 May 2004, pp.315-322
- XLV. **Photochemical machining of copper and copper alloys**  
ÇAKIR O.  
01 May 2004, pp.60-64
- XLVI. **Investigation of tool wear and surface roughness in turning of metal matrix composites**

- KILIÇKAP E., ÇAKIR O., İNAN A.  
01 May 2004, pp.55-59
- XLVII. **The influences of voltage, current and wire feed rate on surface roughness in the WEDM of AISI 8620 steel**  
ÖZEK C., KILIÇKAP E., ÇAKIR O.  
01 May 2004, pp.136-140
- XLVIII. **Cutting Fluids**  
Çakır O.  
3. GAP ve Sanayi Kongresi, Şanlıurfa, Turkey, 18 - 19 October 2003, pp.427-436
- XLIX. **CVD ve PVD kaplama yöntemlerinin kesici takımlara uygulanması**  
KIYAK M., ÇAKIR O., ALTAN E.  
II. Makina Tasarım Ve İmalat Teknolojileri Kongresi (MATİT 2003), Konya, Turkey, 26 September 2003, pp.115-124
- L. **Titanyum ve alaşımlarının talaşlı şekillendirilmesi**  
ÇAKIR O., KIYAK M., ALTAN E.  
II. Makina Tasarım Ve İmalat Teknolojileri Kongresi (MATİT 2003), Konya, Turkey, 26 September 2003, pp.21-30
- LI. **"%5 SiC-p metal matriksli kompozitin tornalanmasında takım aşınması ve yüzey pürüzlülüğünün incelenmesi**  
KILIÇKAP E., ÇAKIR O., İNAN A.  
01 September 2003, pp.137
- LII. **Su Jeti ile İşleme**  
ÇAKIR O., KIYAK M., ALTAN E.  
Balıkesir Üniversitesi, IV. Mühendislik-Mimarlık Sempozyumu, Balıkesir, Turkey, 11 - 13 September 2002, pp.141-149
- LIII. **Yüksek hızlı talaşlı şekillendirme**  
ALTAN E., KIYAK M., ÇAKIR O.  
4. Balıkesir Mühendislik-Mimarlık Sempozyumu, Balıkesir, Turkey, 11 September 2002, pp.151-163
- LIV. **Dış silindirik taşlamada işlem parametrelerinin yüzey pürüzlülüğüne etkisi**  
KIYAK M., ÇAKIR O., ALTAN E.  
01 September 2002, pp.203-212
- LV. **Cryogenic machining: A review**  
ÇAKIR O., KIYAK M., ALTAN E.  
the Fourth GAP Engineering Congress, (4.GAP Mühendislik Kongresi), Şanlıurfa, Turkey, 06 June 2002, vol.1, pp.277-284
- LVI. **Metal matriksli kompozit malzemelerin talaşlı şekillendirilmesinde kullanılan kesici takımlar**  
KIYAK M., ÇAKIR O., ALTAN E.  
the Fourth GAP Engineering Congress, (4.GAP Mühendislik Kongresi), Şanlıurfa, Turkey, 06 June 2002, vol.1, pp.242-248
- LVII. **Metallerin talaşlı şekillendirilmesinde yığılma ağız oluşumu ve yüzey pürüzlülüğüne etkisi**  
ALTAN E., ÇAKIR O., KIYAK M.  
01 June 2002, vol.1, pp.349-355
- LVIII. **Metal matriksli kompozitlerin işlenebilirliği**  
ALTAN E., KIYAK M., ÇAKIR O.  
01 May 2002, pp.341-348
- LIX. **Kimyasal işleme yöntemi**  
Çakır O.  
II. Makina Malzemesi ve İmalat Teknolojisi Sempozyumu, Manisa, Turkey, 7 - 09 November 2001, pp.813
- LX. **Mikro işleme teknolojisi**  
ÇAKIR O.  
Makina Tasarım Ve İmalat Teknolojileri Kongresi (MATİT 2001), Konya, Turkey, 02 November 2001, pp.287-294
- LXI. **Metallerin soğuk talaşlı işlenmesi**

- ÇAKIR O., KILIÇKAP E.  
Makina Tasarım Ve İmalat Teknolojileri Kongresi (MATİT 2001), Konya, Turkey, 02 November 2001, pp.279-286
- LXII. **C103 oksijensiz bakırın fotokimyasal işlenmesi**  
ÇAKIR O.  
1. Makina Mühendisliği Kongresi, İstanbul, Turkey, 04 June 1197, pp.464-468
- LXIII. **The effects of concentration, temperature and HCl additions on the photochemical machining of brass**  
ALLEN D. M., ÇAKIR O.  
7 th International Machine Design and Production Conference, Ankara, Turkey, 11 September 1996, pp.191-199
- LXIV. **Environmental aspects of regeneration waste metal etchants**  
ÇAKIR O., GÜNDOĞAN M.  
1st Trabzon International Energy and Environment Symposium, (TIEES-96), Trabzon, Turkey, 29 July 1996, pp.1143-1148
- LXV. **Total quality management philosophy in the environmental management**  
GÜNDOĞAN M., ÇAKIR O.  
1st Trabzon International Energy and Environment Symposium, (TIEES-96), Trabzon, Turkey, 29 July 1996, pp.1149-1154
- LXVI. **Photochemical machining of brass with cupric chloride etchant and a technique for the partial recovery of dissolved zinc**  
ALLEN D. M., ÇAKIR O., WHITE H. A.  
01 November 1995, pp.305-315
- LXVII. **The effects of positive and negative rake angles on the tool life and surface roughness in the hot and conventional of high manganese steel**  
Çakır O., Altan E.  
Materials Issues in Machining-II and The Physics of Machining Processes-II, , Michigan, United States Of America, 2 - 06 November 1994, pp.105-111
- LXVIII. **Photochemical machining of copper alloys using cupric chloride etchant**  
Allen D., Çakır O.  
6 th International Machine Design and Production Conference, Ankara, Turkey, 21 September 1994, pp.357-365
- LXIX. **Sertleştirilmiş yalın karbonlu çeliğin fotokimyasal işlenmesi**  
Çakır O., Altan E.  
5. Ulusal Makina Tasarımı ve İmalat Kongresi, Ankara, Turkey, 16 September 1992, pp.607-615
- LXX. **Yüksek manganlı çeliklerin sıcak talaşlı işlenmesinde takım geometrisinin takım ömrüne etkisi**  
Altan E., Çakır O.  
4. Ulusal Makina Tasarımı ve İmalat Kongresi, Ankara, Turkey, 19 September 1990, pp.333-340
- LXXI. **Geleneksel olmayan imalat yöntemlerinin metal matriksli kompozitlere uygulanması**  
Çakır O., Kıyak M., Altan E.  
11. Uluslararası Malzeme Konferansı, İstanbul, Turkey, 5 - 08 June 2002, pp.1-6
- LXXII. **Comparison of FeCl<sub>3</sub> and CuCl<sub>2</sub> in the photochemical machining of brass**  
Allen D. M., Çakır O.  
ESDA 2002 (6th Biennial Conference on Engineering Systems Design and Analysis), İstanbul, Turkey, 8 - 11 July 2002, pp.1-7
- LXXIII. **Talaşlı imalat yöntemlerinin metal matriksli kompozitlere uygulanması**  
Kıyak M., Çakır O., Altan E.  
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## Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, B-PLAS, Turkey, January 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, AKA OTOMOTİV SAN. VE TİC. A.Ş., Turkey, July 2018

## Scientific Consultations

TÜBİTAK, Project Consultancy, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey, 2016 - 2018

## Tasks In Event Organizations

Çakır O., 9. Uluslararası Talaşlı İmalat Sempozyumu, Scientific Congress, Antalya, Turkey, Kasım 2018

Çakır O., 8th INTERNATIONAL SYMPOSIUM ON MACHINING, Scientific Congress, Antalya, Turkey, Kasım 2017

Çakır O., 7. Uluslararası Talaşlı İmalat Sempozyumu (UTİS 2016), Scientific Congress, İstanbul, Turkey, Kasım 2016

Çakır O., 6. Ulusal Taşalı İmalat Sempozyumu, Scientific Congress, İstanbul, Turkey, Kasım 2015

Çakır O., 5. Ulusal Talaşlı İmalat Sempozyumu, Scientific Congress, Bursa, Turkey, Ekim 2014

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## Metrics

Publication: 107

Citation (WoS): 871

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