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Education Information

Doctorate, Sakarya University, Fen

Bilimleri Enst., Metal Eğitimi, Turkey

2005 - 2010

Postgraduate, Sakarya University,

Fen Bilimleri Enst., Metal Eğitimi,

Turkey 2002 - 2005

Undergraduate, Sakarya University,

Faculty Of Technical Education, Metal

Öğretmenliği, Turkey 1998 - 2002

Associate Degree, Kocaeli University,

Kocaeli Meslek Yüksekokulu,

Endüstriye Elektronik, Turkey 1995 -

1997

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Joining and Cutting, Composites, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2023 - Continues

Associate Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2018 - 2023

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2013 - 2018

Assistant Professor, Duzce University, Gumusova Vocational School, 2011 - 2013

Academic and Administrative Experience

Fakülte Kurulu Üyesi, Yıldız Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2020 - 2023
Farabi Program Institutional Coordinator, Yıldız Technical University, 2013 - 2017
Coordinator of Faculty Training Program, Yıldız Technical University, 2013 - 2017
Deputy Head of Department, Yıldız Technical University, 2013 - 2016
Düzce Üniversitesi, 2011 - 2012

Advising Theses

Savaş Ö., Gemi ve Deniz Yapılarında Kaynak Uygulamaları Sonucunda İstenmeyen Şekil Değişimlerinin ve Artık Gerilmelerin Önlenmesine Yönelik Çalışmalar, Postgraduate, S.CİRTLİK(Student), 2022
Savaş Ö., Titanyum di-borid ile fonksiyonel olarak derecelendirilmiş alüminyum ana yapılı kompozitlerin aşınma davranışlarının Taguchi yaklaşımıyla incelenmesi, Postgraduate, H.KILIÇ(Student), 2022
Savaş Ö., ALÜMİNYUM DİBORİD TAKVİYELİ ALÜMİNYUM MATRİSLİ KOMPOZİTLERİN ABRAZİF AŞINMA DAVRANIŞLARININ İNCELENMESİ, Postgraduate, E.İNCİ(Student), 2020
Savaş Ö., Alüminyum esası titanyum diborür takviyeli fonksiyonel derecelendirilmiş kompozitlerin üretimi ve aşınma özelliklerinin incelenmesi, Postgraduate, Ö.FARUK(Student), 2019
Savaş Ö., Alüminyum esası titanyum tri-alüminit takviyeli kompozitlerin savurma döküm yöntemiyle üretimi ve aşınma özelliklerinin incelenmesi, Postgraduate, M.SONER(Student), 2018
Savaş Ö., Deniz taştlarında kullanılan farklı yağların segman-silindir çifti yüzeylerindeki tribolojik özelliklerine etki eden parametrelerin incelenmesi, Postgraduate, Z.AYDIN(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Corrosion Behaviour of Al/(TiB₂ + -Al₃Ti)-Based Functional Grade Metal Matrix Composite by Sedimentation Method**
Kocaman E., Aydin H., YILĞIT K., Çalışkan F., SAVAŞ Ö.
Transactions of the Indian Institute of Metals, 2024 (SCI-Expanded)
- II. **Prediction and optimization of tribological behavior of AlB₂/Al composite according to Taguchi analysis approach**
Savaş Ö., Inci E.
MATERIALS LETTERS, vol.322, no.0, pp.1-4, 2022 (SCI-Expanded)
- III. **Fabrication and characterization of TiB₂-reinforced functionally graded aluminum matrix material**
Savaş Ö.
Industrial Lubrication and Tribology, vol.72, pp.1147-1152, 2020 (SCI-Expanded)
- IV. **Production and properties of functionally graded hybrid composites containing Al₃Ti and TiB₂**
Savaş Ö.
International Journal of Materials Research, vol.111, pp.726-732, 2020 (SCI-Expanded)
- V. **Application of Taguchi's method to evaluate abrasive wear behavior of functionally graded aluminum based composite**
Savaş Ö.
MATERIALS TODAY COMMUNICATIONS, vol.23, 2020 (SCI-Expanded)
- VI. **Investigation of Production and Abrasive Wear Behavior of Functionally Graded TiB₂/Al and TiB₂/Al-4Cu Composites**
Savaş Ö.
Transactions of the Indian Institute of Metals, vol.73, pp.543-553, 2020 (SCI-Expanded)
- VII. **The production and properties of Al₃Ti reinforced functionally graded aluminum matrix composites produced by the centrifugal casting method**
Savaş Ö.
MATERIALS RESEARCH EXPRESS, vol.6, no.12, 2019 (SCI-Expanded)

- VIII. Comparative Analysis of Ship Lighting Systems in Terms of Economic, Environmental and Material Performance
YİĞİT K., KÖKKÜLÜNK G., SAVAŞ Ö.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.189-191, 2018 (SCI-Expanded)
- IX. Effects of Fuel Contamination to Marine Lubricant on Friction Behaviors between Piston Ring and Cylinder Liner
Aydin Z., Savaş Ö., Parlak A., Keskin İ., Ünlügençoglu K.
ACTA PHYSICA POLONICA A, vol.129, no.4, pp.617-620, 2016 (SCI-Expanded)
- X. Corrosion Behavior of in-Situ AlB₂/Al-Cu Metal Matrix Composite
Elçiçek H., Savaş Ö., Aydin Z., Özdemir O., Kayikci R.
ACTA PHYSICA POLONICA A, vol.129, pp.661-664, 2016 (SCI-Expanded)
- XI. Production of functionally graded SiC/Al-Cu-Mg composite by centrifugal casting
Savaş Ö., Kayikci R., Ficici F., Colak M., Deniz G., Varol F.
Science and Engineering of Composite Materials, vol.23, no.2, pp.155-159, 2016 (SCI-Expanded)
- XII. Fabrication and properties of functionally graded Al/AlB₂ composites
Kayikci R., Savaş Ö.
JOURNAL OF COMPOSITE MATERIALS, vol.49, pp.2029-2037, 2015 (SCI-Expanded)
- XIII. Application of Taguchi Method to Investigate the Effect of Nucleus Diameter on Mechanical Properties of Automotive Sheets in Electrical Resistance Spot Welding
SAVAŞ Ö.
ACTA PHYSICA POLONICA A, vol.127, no.4, pp.921-924, 2015 (SCI-Expanded)
- XIV. Effect of some welding parameters on nugget size in electrical resistance spot welding
Savas O.
STEEL AND COMPOSITE STRUCTURES, vol.18, no.2, pp.345-355, 2015 (SCI-Expanded)
- XV. Fabrication and properties of in-situ Al/AlB₂ composite reinforced with high aspect ratio borides
Kayikci R., Savaş Ö.
Steel and Composite Structures, vol.19, pp.777-787, 2015 (SCI-Expanded)
- XVI. Experimental optimization in turning of in-situ AlB₂ reinforced AlMg₃ matrix composites produced by centrifugal casting method
Koksal S., Ficici F., Kayikci R., Savaş Ö.
JOURNAL OF COMPOSITE MATERIALS, vol.48, pp.1801-1812, 2014 (SCI-Expanded)
- XVII. Investigation of Mechanical and Dry Sliding Wear Behaviours of AlB₂/PE Polymer Matrix Composites
SAVAŞ Ö., Ficici F., Kayikci R., Koksal S.
ACTA PHYSICA POLONICA A, vol.125, no.2, pp.388-390, 2014 (SCI-Expanded)
- XVIII. The Effect of Reinforcement Ratio on the Wear Behaviour of AlB₂ Flake Reinforced Metal Matrix Composites
Kayikci R., Savaş Ö., Koksal S., Demir A.
ACTA PHYSICA POLONICA A, vol.125, pp.590-592, 2014 (SCI-Expanded)
- XIX. The Effects of Different Fuels on Wear between Piston Ring and Cylinder
Cesur E., Ayhan V., Parlak A., SAVAŞ Ö., AYDIN Z.
ADVANCES IN MECHANICAL ENGINEERING, 2014 (SCI-Expanded)
- XX. A Taguchi optimisation for production of Al-B master alloys using boron oxide
Savaş Ö., Kayikci R.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.580, pp.232-238, 2013 (SCI-Expanded)
- XXI. Production and wear properties of metal matrix composites reinforced with boride particles
Savaş Ö., Kayikci R.
MATERIALS & DESIGN, vol.51, pp.641-647, 2013 (SCI-Expanded)
- XXII. Experimental optimization of dry sliding wear behavior of in situ AlB₂/Al composite based on Taguchi's method
Koksal S., Ficici F., Kayikci R., Savas O.
MATERIALS & DESIGN, vol.42, pp.124-130, 2012 (SCI-Expanded)
- XXIII. APPLICATION OF TAGUCHI METHOD TO INVESTIGATE THE EFFECT OF SOME FACTORS ON IN-SITU FORMED FLAKE STRUCTURES OF AL/ALB(2) COMPOSITE

- Savaş Ö., Kayıkçı R., Köksal S.
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- XXIV. **Investigation of unlubricated sliding wear behaviours of in-situ AlB₂/Al metal matrix composite**
Ficici F., Koksal S., Kayikci R., Savas Ö.
Advanced Composites Letters, vol.20, pp.109-116, 2011 (SCI-Expanded)
- XXV. **Application of Taguchi's methods to investigate some factors affecting microporosity formation in A360 aluminium alloy casting**
SAVAŞ Ö., KAYIKCI R.
MATERIALS & DESIGN, vol.28, no.7, pp.2224-2228, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Kam Profillerinin Değme Analizi ve Elastohidrodinamik Yağ Filmi Kalınlığı**
KESKİN ÖNER İ., SAVAŞ Ö.
Sakarya University of Applied Sciences, vol.3, no.2, pp.57-66, 2023 (Peer-Reviewed Journal)
- II. **ABRASIVE WEAR BEHAVIOR OF FUNCTIONALLY GRADED AIB₂/AI COMPOSITE**
Savaş Ö., Keskin Öner İ.
Mersin University, vol.5, no.2, pp.45-52, 2023 (Peer-Reviewed Journal)
- III. **Sac levhaların lastik tampon yardımıyla form verilmesi ve proses parametrelerinin Taguchi yaklaşımı ile optimizasyonunu**
KILIÇ S., ÖNEN S. K., ASLANDAĞ A., KOCA S., SAVAŞ Ö.
Journal of Marine and Engineering Technology (JOINMET), vol.2, no.2, pp.68-77, 2022 (Peer-Reviewed Journal)
- IV. **Abrasive Wear Behavior of Centrifugally Cast Al Alloy Composites with TiB₂ Reinforcement**
Savaş Ö., Kılıç H.
TRIBOLOGY IN INDUSTRY, vol.0, no.0, pp.1-9, 2022 (Scopus)
- V. **Savurma Döküm Yöntemi ile Üretilmiş AlB₂/Al Kompozit Malzemelerin Aşınma Davranışlarının İncelenmesi**
Keskin Öner İ., Savaş Ö.
Journal of Marine and Engineering Technology (JOINMET), vol.2, no.1, pp.40-49, 2022 (Peer-Reviewed Journal)
- VI. **PRODUCIBILITY OF FUNCTIONALLY GRADED AIB₂/AI COMPOSITE MATERIAL**
Savaş Ö., Karataş C.
Journal of Marine Technology and Environment, vol.1, no.1, pp.73-83, 2022 (Peer-Reviewed Journal)
- VII. **Kaynak Uygulamaları Sonucunda Gemi Saclarında Meydana Gelen Distorsyon ve Çarpılmaların Önlenmesine Yönerek Çalışmalar**
Savaş Ö., Çıraklı S.
European Journal of Science and Technology, no.33, pp.251-257, 2022 (Peer-Reviewed Journal)
- VIII. **An Experimental Study on Investigation of Abrasive Properties of AlB₂ Borid Reinforced Aluminium Matrix Composites**
İNCİ E., SAVAŞ Ö.
European Journal of Science and Technology, vol.19, pp.873-880, 2020 (Peer-Reviewed Journal)
- IX. **Fonksiyonel Derecelendirilmiş TiB₂/Al Kompozitlerin Üretimi Üzerine Bir Çalışma**
Savaş Ö., Demirok Ö. F.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.3, pp.1829-1839, 2020 (Peer-Reviewed Journal)
- X. **Fonksiyonel Derecelendirilmiş Fleyk-Al₃Ti/Al Kompozitlerin Üretimi ve Özelliklerinin Araştırılması**
Savaş Ö., Başer M. S.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Fen Bilimleri Dergisi, vol.36, no.1, pp.129-137, 2020 (Peer-Reviewed Journal)
- XI. **Alüminyum Ana Yapı Fonksiyonel Derecelendirilmiş Al₃Ti Takviyeli Kompozitlerin Abrasif Aşınma Davranışlarının Taguchi Yaklaşımı ile İncelenmesi**
Savaş Ö., Başer S.
Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.2, no.2, pp.193-200, 2019 (Peer-Reviewed Journal)
- XII. **Fonksiyonel Derecelendirilmiş TiB₂/Al Kompozitlerin Abrasif Aşınma Davranışları Üzerine Deneysel Bir Çalışma**
Savaş Ö., Demirok Ö. F.
European Journal of Science and Technology, vol.17, pp.972-981, 2019 (Peer-Reviewed Journal)

- XIII. Taguchi Yaklaşımı ile içten yanmalı motorlarda segman-silindir gömleği arasındaki sürtünme katsayısının deneysel olarak incelenmesi
 SAVAŞ Ö., ELÇİÇEK H., AYDIN Z.
 JOURNAL OF ETA MARITIME SCIENCE, vol.6, no.1, pp.17-25, 2018 (Peer-Reviewed Journal)
- XIV. Experimental Investigation of Friction Coefficient Between Piston Ring-Cylinder Liner of Internal Combustion Engines with Taguchi Method
 Savaş Ö., Elçiçek H., Aydın Z.
 Journal of ETA Maritime Science, vol.6, pp.17-25, 2018 (Peer-Reviewed Journal)
- XV. Investigation of the Effects of Wear Between Piston Ring and Cylinder Liner of Internal Combustion Engines in case of Mixing of Fuel Oil into Lubricating Oil
 Savaş Ö.
 Journal of ETA Maritime Science, vol.5, pp.112-119, 2017 (Peer-Reviewed Journal)
- XVI. Production of Functionally Graded AlB2/Al-4Mg Composite by Centrifugal Casting
 Savaş Ö., Kayıkçı R., Fıçıci F., Köksal S.
 Periodicals of Engineering and Natural Sciences (PEN), vol.1, pp.38-43, 2013 (Peer-Reviewed Journal)
- XVII. Alüminyum Silisyum Alaşımlarının Dökümünde Mikro Porozite Probleminin İncelenmesi
 SAVAŞ Ö., KAYIKCI R., Cüceloğlu E.
 Metal Dünyası, vol.0, pp.119-123, 2005 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Producibility of Functionally Graded AlB2/Al Composite Material
 SAVAŞ Ö., Karataş C.
 Global Maritime Conference (GMC'21), İstanbul, Turkey, 17 - 18 November 2021
- II. Production of TiB2/Al Composite Material for Ship Machinery Parts
 Kılıç H., Başer M. S., SAVAŞ Ö.
 Global Maritime Conference (GMC'21), İstanbul, Turkey, 17 - 18 November 2021
- III. Investigation of Wear Behavior of Al3Ti-reinforced Aluminum Matrix Composites
 Savaş Ö., Yıldız E. T. Y.
 Global Maritime Conference (GMC'21), 18 - 19 November 2021, pp.57
- IV. In-situ Al3Ti Takviyeli Al-5 Si Esaslı Kompozitlerin Üretim ve Özellikleri
 SAVAŞ Ö., KESKİN İ.
 2nd International Congress on Engineering and Architecture, Muğla, Turkey, 22 - 24 April 2019, pp.747-757
- V. Alüminyum Matrisli AlB2 Takviyeli Kompozitlerin Aşınma Davranışlarının İncelenmesi
 KESKİN İ., SAVAŞ Ö.
 2nd International Congress on Engineering and Architecture, Muğla, Turkey, 22 - 24 April 2019, pp.1814-1824
- VI. Examination of Depression and Anxiety Levels of Maritime Students from Yıldız Teknik University before and after their Longterm Internships
 SAVAŞ Ö., Çakır B., Yılmaz İ.
 3rd International Naval Architecture and Maritime Symposium, 24 - 25 April 2018
- VII. INVESTIGATION OF AGGRESSIVE WEAR PROPERTIES OF TiB2/Al FUNCTIONAL GRADED COMPOSITES
 SAVAŞ Ö., Demirok Ö., Başer S.
 THIRD INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2017, 19 - 21 December 2017, pp.599-603
- VIII. PRODUCTION AND PROPERTIES OF FUNCTIONALLY GRADED Al₃Ti/Al COMPOSITE BY CENTRIFUGAL CASTING
 SAVAŞ Ö., Başer S., Demirok Ö.
 THIRD INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING: ICAME 2017, 19 - 21 December 2017, pp.592-598
- IX. THE EFFECT OF NUGGET SIZES ON MECHANICAL PROPERTIES IN RESISTANCE SPOT WELDING OF TRIPSTEEL SHEETS USED IN AUTOMOTIVE INDUSTRY
 FERİK E., VAROL F., SAVAŞ Ö., ÖZSARAÇ U., ASLANLAR S.
 SECOND INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, İstanbul, Turkey, 13 - 15 September

- 2017, pp.100-106
- X. INVESTIGATION OF MECHANICAL PROPERTIES OF OVERLAP JOINT FORM IN MIG-BRAZED JOINTS OF DP600 STEEL PLATES USING DIFFERENT ARC VOLTAGE
SAVAŞ Ö., VAROL F., ŞIKŞIK V., ACAR İ., ASLANLAR S.
1th INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Turkey, 25 - 28 April 2017,
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- XI. ANALYZING OF MECHANICAL PROPERTIES OF BUTTJOINT FORM IN MIG-BRAZED JOINTS OF DUAL PHASE STEEL PLATES USING DIFFERENT GAS FLOW RATE
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- XIII. Comparative analysis of ship lighting systems in terms of economic, environmental and material performance
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- XIV. Modelling of Wear on a Cam Profile
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- XV. Oxidation Behaviour of Aluminium Matrix Composites
ELÇİÇEK H., SAVAŞ Ö., KAYIKCI R., AVCI A.
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- XVI. The Effects of Contamination of Heavy Fuel Oil with Cylinder Oil on Wear Characteristic
AYDIN Z., SAVAŞ Ö., ELÇİÇEK H., PARLAK A.
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- XX. Investigation of Membrane Fouling Characterization for the Microfiltration Membrane using Ballast Water Treatment
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- XXII. EFFECT OF SOME WELDING PARAMETERS ON TENSILE PEEL STRENGTH OF AUTOMOTIVE SHEETS IN ELECTRICAL RESISTANCE SPOT WELDING
SAVAŞ Ö., VAROL F., ASLANLAR S.

- 2ND INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 10 - 13 May 2016
- XXIII. **INVESTIGATION OF MECHANICAL PROPERTIES OF BUTT JOINT FORM IN MIG BRAZED JOINTS OF DP600 THIN ZINC COATED STEEL PLATES USING DIFFERENT BRAZING GAP**
SAVAŞ Ö., VAROL F., ASLANLAR S.
- 2ND INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 10 - 13 May 2016
- XXIV. **DETERMINATION OF OPTIMAL WELDING METHOD USED IN ALUMINUM FRAME MANUFACTURING PROCESS WITH FUZZY ANALYTICAL NETWORK PROCESS APPROACH**
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- XXV. **Corrosion Behaviors of AlB₂ Al Metal Matrix Composites**
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- 5th International Advances in Applied Physics and Materials Science Congress & Exhibition (APMAS2015), 16 - 19 April 2015
- XXVI. **An Experimental Investigation On Influence Of Different Lubricants On Tribological Behaviour Of Cylinder Liner And Piston Ring Pair**
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- 5th International Advances in Applied Physics and Materials Science Congress & Exhibition (APMAS2015), 16 - 18 April 2015
- XXVII. **EXPERIMENTAL OPTIMIZATION OF PROCESS PARAMETERS ON RESISTANCE SPOT WELDING SHEAR STRENGTH BASED ON TAGUCHI METHOD ALL IN ONE CONFERENCES**
SAVAŞ Ö., VAROL F., ASLANLAR S.
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- XXVIII. **AIB₂ Al Cu Kompozit Malzemelerin Abrasif Aşınma Davranışlarının İncelenmesi**
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- XXX. **Experimental Optimization of Machinability Parameters of Polyphthalamide PPA Matrix Composite Material with 30 Glass Fiber Reinforced**
FIÇICI F., SAVAŞ Ö., AYPARÇASI Z.
- 7th International Advanced Technologies Symposium (IATS'13), 29 October - 01 November 2013, pp.1
- XXXI. **Savurma Döküm Tekniğiyle Fonksiyonel Derecelendirilmiş SiC Takviyeli Alüminyum Matris Kompozit Üretilimi Ve Özelliklerinin İncelenmesi**
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- 14th International Materials Symposium (IMSP 2012), 10 - 12 October 2012, pp.1136-1144
- XXXII. **Alüminyum Anayapılı AIB₂ Borür Takviyeli Kompozitlerin Döküm Yöntemi İle Üretiminin İncelenmesi**
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- XXXIII. **SiC Takviyeli Polimer Matrisli Kompozitlerin Üretimi Ve Özelliklerinin İncelenmesi**
SAVAŞ Ö., ÇOLAK M., KAYIKCI R., FIÇICI F.
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- XXXIV. **Bor Oksit İlavesi ile AIB₂ Al Kompozitlerin Üretiminin İncelenmesi**
KAYIKCI R., SAVAŞ Ö., KURTULUŞ O.
- 5th International Advanced Technologies Symposium (İATS-09), 13 - 15 May 2009, pp.1011-1015
- XXXV. **Boroksit İlavesi İle Sentezlenen Borür Takviyeli Alüminyum Matrisli Döküm Kompozit Üretiminin İncelenmesi**
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- 2nd National Boron Workshop, Turkey, 17 - 18 April 2008, pp.405-412
- XXXVI. **AIB₂ Takviyeli Alüminyum Metal Matrisli Kompozitlerin Üretilebilirliği Ve Döküm Sıcaklığının Takviye Fazı Üzerine Etkisinin İncelenmesi**
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- XXXVIII. **Alüminyum Alaşımının Dökümünde Mikro Gözenekliliği Etkileyen Faktörlerin İncelenmes**
SAVAŞ Ö., KAYIKCI R.
12. Uluslararası Metalurji-Malzeme Kongresi, (2005), 28 September - 02 October 2005
- XXXIX. **Investigation of Abrasive Wear Behavior of AlB₂/Al-Cu Composite Materials**
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Non Academic Experience

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