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Uluslararası Araştırmacı ID'leri

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Eğitim Bilgileri

- I. Doktora, Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Met.Ve Malzeme Müh.Böl., Türkiye 2014 - 2019
- II. Yüksek Lisans, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, Türkiye 2012 - 2014
- III. Lisans, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, Türkiye 2007 - 2012

Yabancı Diller

- I. İngilizce, C1 İleri

Yaptığı Tezler

- I. Yüksek Lisans, Gaz Nitrürlenerek Sertleştirilmiş 31CrMoV9 Çeliğinde İndentasyon Yöntemiyle Kalıntı Gerilme Ve Sertlik Değişimlerinin İncelenmesi, İstanbul Teknik Üniversitesi, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2014

Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Kompozitler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

- I. Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Met.Ve Malzeme Müh.Böl., 2013 - Devam Ediyor

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- I. Birol B., Gecü R., Toz metalurjisinde BorKarbür (B4C) takviyeli çift fazlı(dupleks) paslanmaz çelik matrisli kompozit üretim araştırması ve karakterizasyonu, Yüksek Lisans, S.ÖRÜCÜ(Öğrenci), 2023

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- I. **Enhancing wear and corrosion resistance of TiO₂-Al₂O₃ hybrid coatings by the development of TiO₂-Al₂O₃ bilayer film coatings**
Eraslan F. S., GECÜ R.
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- II. **Effects of Ti addition and wall thickness on microstructure, hardness, and wear properties of spheroidal graphite cast irons**
Kaymak K., Tazegül Y., Keyvanklı A. B., GECÜ R.
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- III. **Microstructural, hardness, and wear properties of Mg₂Si-reinforced Al matrix in-situ composites produced by low superheat casting**
Ozkan T., Tutuk I., ACAR S., GECÜ R., GÜLER K. A.
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- IV. **Enhancing wear resistance of R220 rail steels by quenching and partitioning (Q&P) treatment**
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- V. **Chemical composition optimization of Al₂O₃-TiO₂ composite coatings for enhanced wear and corrosion resistance**
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- VI. **Wear and corrosion behavior of vanadium-alloyed nodular cast irons fabricated by sand-casting**
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- VII. **Influence of layer number and sintering temperature on microstructural, tribological, and corrosion behavior of Al₂O₃-TiO₂ multilayer coatings**
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- VIII. **Influence of vanadium content and cooling rate on the characteristics of vanadium-alloyed spheroidal graphite cast irons**
Kandemir A. S., GECÜ R.
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- IX. **Combined effects of cryogenic treatment and tempering on microstructural and tribological features of AISI H13 steel**
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- X. **Improving wear and corrosion protection of AISI 304 stainless steel by Al₂O₃-TiO₂ hybrid coating via sol-gel process**
Gecü R., Birol B., Özcan M.
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- XI. **Microstructure, Mechanical, and Wear Properties of Al-Alloyed Austempered Ductile Irons**
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- XII. **Volume fraction effect of stainless steel on microstructure, interface, corrosion and wear behavior of stainless steel / aluminum bimetal composites**
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- XIII. **Surface characteristics of plasma electrolytic oxidation coatings on Cp-Ti and hot-dip aluminised Cp-Ti**
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- XIV. **Microstructural, mechanical and tribological characterization of aluminum-alloyed ductile cast irons based on aluminum content**

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- XV. **Microstructure, wear and corrosion characteristics of multiple-reinforced (SiC-B4C-Al₂O₃) Al matrix composites produced by liquid metal infiltration**
Öztürk K., Gecü R., Karaaslan A.
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- XVI. **Casting temperature dependent wear and corrosion behavior of 304 stainless steel reinforced A356 aluminium matrix bimetal composites fabricated by vacuum-assisted melt infiltration casting**
Gecü R., Karaaslan A.
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- XVII. **Sliding Wear of the Ti-Reinforced Al Matrix Bi-metal Composite: A Potential Replacement to Conventional SiC-Reinforced Composites for Automotive Application**
GECÜ R., KARAASLAN A.
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- XVIII. **Improving wear resistance of 304 stainless steel reinforced AA7075 aluminum matrix composite by micro-arc oxidation**
GECÜ R., Yurekturk Y., Tekoglu E., Muhaffel F., KARAASLAN A.
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- XIX. **The effect of retrogression and re-aging treatment on mechanical and tribological features of AA7075 aluminium alloy**
Einfluss der Retrogressions- und Reaging-Behandlung auf die mechanischen und tribologischen Eigenschaften der Aluminiumlegierung AA7075
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- XX. **A Comparative Study on Titanium-Reinforced Aluminium Matrix Composites Produced by Melt Infiltration Casting and Squeeze Infiltration**
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- XXI. **Microstructural and Tribological Characterization of Stainless Steel-Reinforced Aluminum Matrix Bimetal Composites Produced at Various Mold Burnout Temperatures**
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- XXII. **Volume Fraction Dependent Wear Behavior of Titanium-Reinforced Aluminum Matrix Composites Manufactured by Melt Infiltration Casting**
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- XXIII. **Preform-Based Production of Al₂O₃-Reinforced Aluminium Matrix Composites by Using Various Modification Techniques**
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- XXIV. **A Study on Al/Cu Bimetal Production by Lost Foam Casting**
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- XXV. **Influence of T6 heat treatment on A356 and A380 aluminium alloys manufactured by thixoforging combined with low superheat casting**
GECÜ R., ACAR S., KISASÖZ A., ALTUG GULER K. A., KARAASLAN A.
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- XXVI. **Relationship Between Nanoindentation and Wear Properties of Stainless Steel-Reinforced Aluminium Matrix Composite**
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GECÜ R., ATAPEK Ş. H., KARAASLAN A.
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- XXVIII. **Investigation of spherisation in microstructures of aluminium casting alloys for thixoforging process**
GÜLER K. A., GECÜ R., KISASÖZ A., KARAASLAN A.
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- XXIX. **A Comparative Study on the Microstructure Evaluation of Thixoforged A356 and A380 Aluminium Alloys**
GÜLER K. A., GECÜ R., KISASÖZ A., KARAASLAN A.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Determination of Temperature Gradient in TIG Welding of Duplex Stainless Steel**
KISASÖZ A., GECÜ R., KARAASLAN A.
El-Cezerî Journal of Science and Engineering, cilt.4, ss.593-597, 2017 (Scopus)
- II. **Bimetal ve Geleneksel Olarak Üretilen Alüminyum Esaslı Metal-Metal Kompozitlerin Mekanik Özellikleri**
Gecü R.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Investigation And Characterization Of Duplex Stainless Steel Production By Mechanical Alloying Method**
Örücü S., Birol B., Gecü R.
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- II. **Influence of Heat Treatment of 1.4462 and 1.4501 Duplex Stainless Steels on Microstructure and Wear Resistance**
YALÇINER G., GECÜ R., KISASÖZ A., KARAASLAN A.
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- III. **Prevention of Hot Crack Formation in 304 Stainless Steel Reinforced AA7075 Aluminium Matrix Bimetal Composites**
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- IV. **A Study on the Effects of Solution Heat Treatment Time on Eutectic Silicon Morphology for A380 Alloy**
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- V. **Sliding Wear Characteristics of AISI 2205 Duplex Stainless Steel Cooled in Various Environments after Solution Treatment**
GECÜ R., KISASÖZ A., KARAASLAN A.
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- VI. **The impact of volume fraction of commercially pure titanium reinforcement on aluminium matrix bimetal composite properties**
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- VII. **TRIBOLOGICAL CHARACTERIZATION OF 304 STAINLESS STEEL REINFORCED AA7075 ALUMINIUM MATRIX COMPOSITE PRODUCED BY MELT INFILTRATION CASTING**
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- IX. **Dry Sliding Wear Properties of AA7075 Aluminium Matrix Hybrid Composites**
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- X. **The Effect of Preform Preheating on Microstructural and Mechanical Features of 80% CP-Ti Reinforced A356 Matrix Composite**
GECÜ R., KARAASLAN A.
International Conference on Engineering Technology and Innovation (ICETI), Budapeşte, Macaristan, 07 Mart 2018, ss.163-169
- XI. **Aging of A356 Aluminum Billets Produced by Semi-Solid Metal Processing**
GECÜ R., ACAR S., KISASÖZ A., GÜLER K. A., KARAASLAN A.
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- XII. **Production of CP-Ti Reinforced A356 Aluminum Composite by Vacuum-Assisted Investment Casting**
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- XIII. **Microstructural Evaluation of T6-Treated A380 Alloy Manufactured by Semi-Solid Metal Casting**
GECÜ R., ACAR S., KISASÖZ A., GÜLER K. A., KARAASLAN A.
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- XIV. **Manufacturing and Aging of 7075 Based Metal-Metal Composites by Using Sawdusts as Reinforcements**
GECÜ R., KISASÖZ A., GÜLER K. A., KARAASLAN A.
18th International Metallurgy & Materials Congress, İstanbul, Türkiye, 29 Eylül 2016, ss.114-117
- XV. **An Investigation of the Effect of Solution Heat Treatment on 475 °C Embrittlement in 1.4462 Duplex Stainless Steels**
GECÜ R., KISASÖZ A., KARAASLAN A.
18th International Metallurgy & Materials Congress, İstanbul, Türkiye, 29 Eylül 2016, ss.501-503
- XVI. **The Effect of Intermetallic Phases on Corrosion Behaviour of Duplex Stainless Steels**
ZORBA A. P., ÖZYILMAZ A. Ö., GECÜ R., KISASÖZ A., KARAASLAN A.
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Desteklenen Projeler

- I. GECÜ R., Yükseköğretim Kurumları Destekli Proje, Sıfırlı İşlem Görmüş AISI H13 Sıcak İş Takım Çeliklerinde Temperlemenin Mikroyapı ve Aşınma Davranışına Etkisinin İncelenmesi, 2022 - 2023
- II. KARAASLAN A., GECÜ R., Yükseköğretim Kurumları Destekli Proje, Bimetal Kompozitlerin Metal Talaşlarıyla Üretimi ve Karakterizasyonu, 2017 - 2019
- III. KISASÖZ A., ACAR S., GECÜ R., KARAASLAN A., GÜLER K. A., Yükseköğretim Kurumları Destekli Proje, Isıya Dayanıklı 2.4879 Alaşımının Yüksek Sıcaklık Uygulamalarındaki Özellik Değişimlerinin Belirlenmesi, 2017 - 2019
- IV. KARAASLAN A., ACAR S., GECÜ R., KISASÖZ A., GÜLER K. A., Yükseköğretim Kurumları Destekli Proje, Geri

Dönüştürülebilir Metal Takviyeler Kullanılarak Üretilen Alüminyum Matrisli Metal-Metal Kompozitlerin Aşınma Özelliklerinin Belirlenmesi, 2017 - 2019

- V. KARAASLAN A., ACAR S., KISASÖZ A., GECÜ R., GÜLER K. A., Yükseköğretim Kurumları Destekli Proje, Çift Fazlı Paslanmaz Çelikte Ferrit-Östenit Faz Dengesinin 475 °C Kırılgenlığı Üzerindeki Etkisinin İncelenmesi, 2017 - 2019

Bilimsel Hakemlikler

- I. TRIBOLOGY INTERNATIONAL, SCI Kapsamındaki Dergi, Mart 2020
- II. INTERNATIONAL JOURNAL OF METALCASTING, SCI Kapsamındaki Dergi, Şubat 2019
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- IV. INTERNATIONAL JOURNAL OF METALCASTING, SCI Kapsamındaki Dergi, Haziran 2018
- V. TRIBOLOGY LETTERS, SCI Kapsamındaki Dergi, Eylül 2017

Metrikler

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Atıf (Scopus): 280

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Antrenörlük Görevleri

Hakemlik Görevleri
