

Web: <https://avesis.yildiz.edu.tr/gecur>

Education Information

- Doctorate, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Metallurgical and Materials Engineering, Turkey 2014 - 2019
- Post Graduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, Turkey 2012 - 2014
- Under Graduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, Turkey 2007 - 2012

Foreign Languages

- English, C1 Advanced

Dissertations

- Post Graduate, Gaz Nitrürlenerek Sertleştirilmiş 31CrMoV9 Çeliğinde İndentasyon Yöntemiyle Kalıntı Gerilme Ve Sertlik Değişimlerinin İncelenmesi, İstanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2014

Research Areas

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

Academic Titles / Tasks

- Research Assistant, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Metalurji Ve Malzeme Mühendisliği, 2013 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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.
WEAR, vol.446, no.203183, 2020 (Journal Indexed in SCI)
- **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.
INTERNATIONAL JOURNAL OF METALCASTING, vol.13, pp.641-652, 2019 (Journal Indexed in SCI)
- **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.

SURFACE & COATINGS TECHNOLOGY, vol.368, pp.15-24, 2019 (Journal Indexed in SCI)

- **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
Ozer G., GECÜ R., KARAASLAN A.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.50, pp.761-768, 2019 (Journal Indexed in SCI)
- **A Comparative Study on Titanium-Reinforced Aluminium Matrix Composites Produced by Melt Infiltration Casting and Squeeze Infiltration**
GECÜ R., KARAASLAN A.
INTERNATIONAL JOURNAL OF METALCASTING, vol.13, pp.311-319, 2019 (Journal Indexed in SCI)
- **Microstructural and Tribological Characterization of Stainless Steel-Reinforced Aluminum Matrix Bimetal Composites Produced at Various Mold Burnout Temperatures**
GECÜ R., KARAASLAN A.
TRIBOLOGY TRANSACTIONS, vol.62, pp.249-261, 2019 (Journal Indexed in SCI)
- **Volume Fraction Dependent Wear Behavior of Titanium-Reinforced Aluminum Matrix Composites Manufactured by Melt Infiltration Casting**
GECÜ R., KARAASLAN A.
JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol.141, 2019 (Journal Indexed in SCI)
- **Preform-Based Production of Al₂O₃-Reinforced Aluminium Matrix Composites by Using Various Modification Techniques**
ÖZTÜRK K., GECÜ R., KARAASLAN A.
Metals and Materials International, 2019 (Journal Indexed in SCI)
- **A Study on Al/Cu Bimetal Production by Lost Foam Casting**
ACAR S., GECÜ R., KISASÖZ A., GÜLER K. A. , KARAASLAN A.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.55, pp.728-740, 2018 (Journal Indexed in SCI)
- **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.
Transactions of Nonferrous Metals Society of China (English Edition), vol.28, pp.385-392, 2018 (Journal Indexed in SCI)
- **Relationship Between Nanoindentation and Wear Properties of Stainless Steel-Reinforced Aluminium Matrix Composite**
GECÜ R., KARAASLAN A.
TRIBOLOGY LETTERS, vol.65, 2017 (Journal Indexed in SCI)
- **Influence of preform preheating on dry sliding wear behavior of 304 stainless steel reinforced A356 aluminum matrix composite produced by melt infiltration casting**
GECÜ R., ATAPEK Ş. H. , KARAASLAN A.
TRIBOLOGY INTERNATIONAL, vol.115, pp.608-618, 2017 (Journal Indexed in SCI)
- **Investigation of spherisation in microstructures of aluminium casting alloys for thixoforging process**
GÜLER K. A. , GECÜ R., KISASÖZ A., KARAASLAN A.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.58, pp.489-494, 2017 (Journal Indexed in SCI)
- **A Comparative Study on the Microstructure Evaluation of Thixoforged A356 and A380 Aluminium Alloys**
GÜLER K. A. , GECÜ R., KISASÖZ A., KARAASLAN A.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.54, pp.163-177, 2017 (Journal Indexed in SCI)

Articles Published in Other Journals

-
- **Determination of Temperature Gradient in TIG Welding of Duplex Stainless Steel**
KISASÖZ A., GECÜ R., KARAASLAN A.
El-Cezeri Journal of Science and Engineering, vol.4, no.3, pp.593-597, 2017 (National Refreed University Journal)

- **Bimetal ve Geleneksel Olarak Üretilen Alüminyum Esaslı Metal-Metal Kompozitlerin Mekanik Özellikleri**
Gecü R.
Metalurji, pp.26-30, 2016 (National Non-Refereed Journal)

Refereed Congress / Symposium Publications in Proceedings

- **Prevention of Hot Crack Formation in 304 Stainless Steel Reinforced AA7075 Aluminium Matrix Bimetal Composites**
Gecü R., Karaaslan A.
9th International Aluminium Symposium, İstanbul, Turkey, 10 - 11 Ekim 2019, pp.34-38
- **A Study on the Effects of Solution Heat Treatment Time on Eutectic Silicon Morphology for A380 Alloy**
ACAR S., GECÜ R., KISASÖZ A., GÜLER K. A. , KARAASLAN A.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 Ekim 2018, pp.304-306
- **Sliding Wear Characteristics of AISI 2205 Duplex Stainless Steel Cooled in Various Environments after Solution Treatment**
GECÜ R., KISASÖZ A., KARAASLAN A.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 Ekim 2018, pp.837-840
- **The impact of volume fraction of commercially pure titanium reinforcement on aluminium matrix bimetal composite properties**
GENÇER K., GECÜ R., KARAASLAN A.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 Ekim 2018, pp.148-151
- **TRIBOLOGICAL CHARACTERIZATION OF 304 STAINLESS STEEL REINFORCED AA7075 ALUMINIUM MATRIX COMPOSITE PRODUCED BY MELT INFILTRATION CASTING**
GECÜ R., KARAASLAN A.
2nd International Conference on Tribology, İstanbul, Turkey, 18 Nisan 2018, pp.36-41
- **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, Hungary, 07 Mart 2018, pp.163-169
- **Investigation of the Effects of Solution Heat Treatment Time on the Eutectic Silicon for A356 Alloy**
ACAR S., GECÜ R., KISASÖZ A., GÜLER K. A. , KARAASLAN A.
2. International Conference on Engineering Technology and Innovation (ICETI), Budapeşte, Hungary, 07 Mart 2018, pp.268-272
- **Dry Sliding Wear Properties of AA7075 Aluminium Matrix Hybrid Composites**
GECÜ R., ACAR S., KISASÖZ A., GÜLER K. A. , KARAASLAN A.
2. International Conference on Engineering Technology and Innovation (ICETI), Budapeşte, Hungary, 07 Mart 2018, pp.295-300
- **Aging of A356 Aluminum Billets Produced by Semi-Solid Metal Processing**
GECÜ R., ACAR S., KISASÖZ A., GÜLER K. A. , KARAASLAN A.
3rd International Iron & Steel Symposium, Karabük, Turkey, 03 Nisan 2017, pp.267-270
- **Production of CP-Ti Reinforced A356 Aluminum Composite by Vacuum-Assisted Investment Casting**
GECÜ R., KARAASLAN A.
International Conference on Engineering Technology and Innovation, Saraybosna, Bosnia And Herzegovina, 22 Mart 2017, pp.210-214
- **Microstructural Evaluation of T6-Treated A380 Alloy Manufactured by Semi-Solid Metal Casting**
GECÜ R., ACAR S., KISASÖZ A., GÜLER K. A. , KARAASLAN A.
International Conference on Engineering Technology and Innovation, Sarajevo, Bosnia And Herzegovina, 22 Mart 2017, pp.284-288
- **The Effect of Intermetallic Phases on Corrosion Behaviour of Duplex Stainless Steels**
ZORBA A. P. , ÖZYILMAZ A. Ö. , GECÜ R., KISASÖZ A., KARAASLAN A.
18th International Metallurgy & Materials Congress, İstanbul, Turkey, 29 Eylül 2016, pp.836-839

- **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, Turkey, 29 Eylül 2016, pp.501-503
- **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, Turkey, 29 Eylül 2016, pp.114-117
- **Alçı Kalıba Döküm Yöntemi İle Üretilen Aa7075-A413 Bimetal Parçanın Özellikleri**
YÜKSEL Ç., Kocabaş M., Gecü R., Erzi E., Dışpınar D., Güler K. A. , Kısasöz A., Keleşoğlu E., Karaaslan A.
KompEGE, vol.1

Supported Projects

- KARAASLAN A., GECÜ R., Project Supported by Higher Education Institutions, Metal Metal Kompozitlerin Metal Talaşlarıyla Üretimi ve Karakterizasyonu, 2017 - 2019
- KISASÖZ A., ACAR S., GECÜ R., KARAASLAN A., GÜLER K. A. , Project Supported by Higher Education Institutions, Isıya Dayanıklı 2.4879 Alaşımının Yüksek Sıcaklık Uygulamalarındaki Özellik Değişimlerinin Belirlenmesi, 2017 - 2019
- KARAASLAN A., ACAR S., GECÜ R., KISASÖZ A., GÜLER K. A. , Project Supported by Higher Education Institutions, Geri Dönüştürülebilir Metal Takviyeler Kullanılarak Üretilen Alüminyum Matrisli Metal-Metal Kompozitlerin Aşınma Özelliklerinin Belirlenmesi, 2017 - 2019
- KARAASLAN A., ACAR S., KISASÖZ A., GECÜ R., GÜLER K. A. , Project Supported by Higher Education Institutions, Çift Fazlı Paslanmaz Çelikte Ferrit-Östenit Faz Dengesinin 475 °C Kırılma Üzerindeki Etkisinin İncelenmesi, 2017 - 2019

Scientific Refereeing

- TRIBOLOGY INTERNATIONAL, SCI Journal, March 2020
- INTERNATIONAL JOURNAL OF METALCASTING, SCI Journal, February 2019
- MATERIALS EXPRESS, SCI Journal, August 2018
- INTERNATIONAL JOURNAL OF METALCASTING, SCI Journal, June 2018
- TRIBOLOGY LETTERS, SCI Journal, September 2017

Citations

- Total Citations (WOS): 36
- h-index (WOS): 4