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Education Information

Doctorate, Marmara University, Faculty of Technical Education, Metal Education, Turkey 1998 - 2003

Postgraduate, Marmara University, Faculty of Technical Education, Metal Education, Turkey 1994 - 1996

Undergraduate, Marmara University, Faculty of Technical Education, Metal Education, Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Marmara University, Faculty of Technology, Metallurgical and Materials Engineering, 2016 - Continues

Associate Professor, Marmara University, Faculty of Technical Education, Metal Education, 2011 - Continues

Associate Professor, Marmara University, Faculty of Technical Education, Metal Education, 1994 - Continues

Academic and Administrative Experience

Marmara University, Faculty of Technology, 2016 - 2017

Marmara University, Faculty of Technology, Metallurgical and Materials Engineering, 2014 - 2017

Supervised Theses

GÜLSOY H. Ö., Ti-Nb ESASLI ALAŞIMLARIN İMPLANT UYGULAMALARI İÇİN GÖZENEKLİ ÜRETİM VE BİYOAKTİF KAPLAMA İLE ÖZELLİKLERİNİN GELİŞTİRİLMESİ, Doctorate, E.YILMAZ(Student), 2019

GÜLSOY H. Ö., Nikel esaslı süperalaşım malzemelerin toz enjeksiyon kalıplama yöntemi ile üretilmesi ve karakterizasyonu, Doctorate, Ö.ÖZGÜN(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Boriding of Ti-xNb alloys: Influence of Nb on the features of boride layer**
SORUŞBAY B., Kaba M., Siyahcan F., GÜLSOY H. Ö., Somer M. S., Muhaffel F., Çimenoğlu H.
International Journal of Refractory Metals and Hard Materials, vol.125, 2024 (SCI-Expanded)
- II. **The Effect of Aging Heat Treatments on Room and High-Temperature Wear Performance of the Inconel 718™ Manufactured by Laser Powder Bed Fusion**
NEVCANOĞLU A., Aydemir B., GÜLSOY H. Ö.
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- III. **Effects of layer thickness in laser-powder bed fusion of 420 stainless steel**
Nath S. D., Gupta G., Kearns M., Gulsoy O., Atre S.
RAPID PROTOTYPING JOURNAL, vol.26, no.7, pp.1197-1208, 2020 (SCI-Expanded)
- IV. **Investigation of Creep Behavior of CNT Reinforced Ti6Al4V Under Dynamic Loads**
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- V. **Experimentation and analysis of powder injection molded Ti10Nb10Zr alloy: a promising candidate for electrochemical and biomedical application**
Yemisci I., MUTLU Ö., GÜLSOY N., Kunal K., Atre S., GÜLSOY H. Ö.
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- VI. **Microstructures, properties, and applications of laser sintered 17-4PH stainless steel**
Irrinki H., Nath S. D., Alhofors M., Stitzel J., Gulsoy O., Atre S. V.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.102, no.9, pp.5679-5690, 2019 (SCI-Expanded)
- VII. **Effects of Nb and Mo on the microstructure and properties of 420 stainless steel processed by laser-powder bed fusion**
Nath S. D., Clinning E., Gupta G., Wuelfrath-Poirier V., L'Espérance G., Gulsoy O., Kearns M., Atre S. V.
Additive Manufacturing, vol.28, pp.682-691, 2019 (SCI-Expanded)
- VIII. **Novel hydroxyapatite/graphene oxide/collagen bioactive composite coating on Ti16Nb alloys by electrodeposition**
Yilmaz E., Cakiroglu B., Gokce A., Findik F., GÜLSOY H. Ö., GÜLSOY N., MUTLU Ö., Ozacar M.
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- IX. **Influence of Zr addition on the corrosion behavior of biomedical PIM Ti-16Nb alloy in SBF**
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- X. **Biomedical porous Ti-16Nb-10Zr-(0-15)Ta alloys**
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- XI. **Microstructure-property relationships of 420 stainless steel fabricated for by laser-powder bed fusion**
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- XII. **Investigation of wear behavior of Ti-6Al-4V/CNT composites reinforced with carbon nanotubes**
Topcu I., Güllüoğlu A. N., Bilici M. K., Gülsoy H. Ö.
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- XIII. **Mechanical properties and electrochemical behavior of porous Ti-Nb biomaterials**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö., İYİBİLGİN O.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.87, pp.59-67, 2018 (SCI-Expanded)
- XIV. **Assessment of Ti-16Nb-xZr alloys produced via PIM for implant applications**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
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- XV. **Powder Metallurgy Processing of Ti-Nb Based Biomedical Alloys**
Yilmaz E., Gokce A., Findik F., Gulsoy H. O.
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- XVI. **Characterization of biomedical Ti-16Nb-(0-4)Sn alloys produced by Powder Injection Molding**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
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- XVII. **Ni-718 superalloy foam processed by powder space-holder technique: Microstructural and mechanical characterization**
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KOVVOVE MATERIALY-METALLIC MATERIALS, vol.55, no.4, pp.273-278, 2017 (SCI-Expanded)
- XVIII. **Production of porous Ti5Al2.5Fe alloy via pressureless spark plasma sintering**
Yamanoglu R., Gulsoy N., Olevsky E. A., Gulsoy H. O.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.680, pp.654-658, 2016 (SCI-Expanded)
- XIX. **Powder injection molding of Stellite 6 powder: Sintering, microstructural and mechanical properties**
GÜLSOY H. Ö., ÖZGÜN Ö., Bilketay S.
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- XX. **Effect of Zr, Nb and Ti addition on injection molded 316L stainless steel for bio-applications: Mechanical, electrochemical and biocompatibility properties**
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- XXI. **The effect of aging treatment on the fracture toughness and impact strength of injection molded Ni-625 superalloy parts**
ÖZGÜN Ö., YILMAZ R., GÜLSOY H. Ö., FINDIK F.
MATERIALS CHARACTERIZATION, vol.108, pp.8-15, 2015 (SCI-Expanded)
- XXII. **Influence of TiC, TiN and TiC(N) additions on sintering and mechanical properties of injection moulded titanium based metal matrix composites**
Gulsoy H. O., Gunay V., Baykara T.
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- XXIII. **Particle morphology influence on mechanical and biocompatibility properties of injection molded Ti alloy powder**
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BIO-MEDICAL MATERIALS AND ENGINEERING, vol.24, no.5, pp.1861-1873, 2014 (SCI-Expanded)
- XXIV. **Ni-625 Superalloy Foam Processed by Powder Space-Holder Technique**
Unver I., GÜLSOY H. Ö., Aydemir B.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.22, no.12, pp.3735-3741, 2013 (SCI-Expanded)
- XXV. **Microstructural and mechanical characterization of injection molded 718 superalloy powders**
ÖZGÜN Ö., GÜLSOY H. Ö., YILMAZ R., FINDIK F.
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- XXVI. **Injection molding of nickel based 625 superalloy: Sintering, heat treatment, microstructure and mechanical properties**
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- XXVII. **Microstructure and mechanical properties of injection moulded Nimonic-90 superalloy parts**
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- XXVIII. **Injection Molding of Mechanical Alloyed Ti-Fe-Zr Powder**
GÜLSOY H. Ö., Gunay V., Baykara T., German R. M.
MATERIALS TRANSACTIONS, vol.53, no.6, pp.1100-1105, 2012 (SCI-Expanded)
- XXIX. **Effect of boron addition on injection molded 316L stainless steel: Mechanical, corrosion properties**

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Bayraktaroglu E., GÜLSOY H. Ö., GÜLSOY N., Er O., KILIÇ H.

BIO-MEDICAL MATERIALS AND ENGINEERING, vol.22, no.6, pp.333-349, 2012 (SCI-Expanded)

- XXX. **Injection molding of micro-porous titanium alloy with space holder technique**
Engin G., Aydemir B., GÜLSOY H. Ö.
RARE METALS, vol.30, no.6, pp.565-571, 2011 (SCI-Expanded)
- XXXI. **Injection moulding of 316L stainless steels reinforced with nanosize alumina particles**
Gulsoy H. O., Baykara T., Ozbek S.
POWDER METALLURGY, vol.54, no.3, pp.360-365, 2011 (SCI-Expanded)
- XXXII. **Sintering parameters and mechanical properties of injection moulded aluminium powder**
Acar L., Gulsoy H. O.
POWDER METALLURGY, vol.54, no.3, pp.427-431, 2011 (SCI-Expanded)
- XXXIII. **Processing and mechanical properties of B4C reinforced Al matrix composites**
Topcu I., Gulsoy H. O., Kadioglu N., Gulluoglu A. N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.482, pp.516-521, 2009 (SCI-Expanded)
- XXXIV. **Effect of sintering parameters on mechanical properties of injection moulded Ti-6Al-4V alloys**
Ergul E., GÜLSOY H. Ö., Gunay V.
POWDER METALLURGY, vol.52, no.1, pp.65-71, 2009 (SCI-Expanded)
- XXXV. **Sintered foams from precipitation hardened stainless steel powder**
Gulsoy H. O., German R. M.
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- XXXVI. **Mechanical Properties of Polymers Filled with Iron Powder**
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- I. **Klasik Tasarım Teknikleri İle Tasarlanmış Robot Kol Sonu Takımının Üretken Tasarım Yazılımı İle Yeniden Tasarlanması**
BULDUK H. H., Yıldırım M. T., Çokatar S., Güner O. S., TOPTAŞ E., GÜLSOY H. Ö.
KMÜ Mühendislik ve Doğa Bilimleri Dergisi, vol.4, no.2, pp.103-116, 2022 (Peer-Reviewed Journal)
- II. **Ekleme İmalat Teknolojilerinin Tıbbi Ekipmanların Üretiminde Kullanımı**
BOZKURT Y., GÜLSOY H. Ö., KARAYEL E.
El-Cezeri Fen ve Mühendislik Dergisi, vol.8, no.8, pp.962-980, 2021 (Scopus)
- III. **Influence of Niobium additions on sintering behaviors and mechanical properties of injection molded 420 stainless steel powder**
yakut I., GÜLSOY H. Ö.
NANOMATERIALSSCIENCE ENGINEERING, vol.1, no.1, pp.34-41, 2019 (Peer-Reviewed Journal)
- IV. **Evaluation of Multi-Walled CNT Particulate Reinforced Ti6Al4V Alloy Based Composites Creep Behavior of Materials Under Static Loads**
Topcu I., GÜLSOY H. Ö., GÜLLÜOĞLU A. N.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.1, pp.286-298, 2019 (ESCI)
- V. **Effects of powder characteristics and processing conditions on the corrosion performance of 17-4 PH stainless steel fabricated by laser-powder bed fusion**
Harish I., Harper T., Badwe S., Stitzel J., Gupta G., GÜLSOY H. Ö., Atre s.
Progress in Additive Manufacturing, vol.3, pp.39-49, 2018 (Scopus)
- VI. **Production of Boron Carbide Based Sandblast Nozzle By Using Low Pressure Powder Injection Molding Method and Modeling of Production Parameters via Artificial Neural Networks**
Hartomacioğlu S., Gülsoy H. Ö., Onat A.
Mathematical Modeling, vol.1, no.1, pp.40-47, 2017 (Peer-Reviewed Journal)

- VII. **Bor İlavesinin Toz Metal D2 Takım Çeliğinin Mikroyapı ve Mekanik Özelliklerine Etkisi**
ÖZGÜN Ö., ERÇETİN A., BALALAN Z., GÜLSOY H. Ö., uzun m.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.29, no.2, pp.87-96, 2017 (Peer-Reviewed Journal)
- VIII. **Water Absorption, Friction and Wear Behaviors of Polypropylene Composites Filled with Hydroxyapatite**
Taşdemir M., Gülsoy H. Ö.
Key Engineering Materials, vol.733, pp.60-64, 2017 (Scopus)
- IX. **Effect of Nb addition on microstructural and mechanical properties of Ti-Nb based alloys produced by powder metallurgy**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.23, no.8, pp.945-948, 2017 (ESCI)
- X. **Effect of Particle Size on Sintering Characteristics and Mechanical Properties of Injection Molded 316L Powder**
GÜLSOY H. Ö., bilketaş s.
Advanced Science, Engineering and Medicine, vol.8, 2016 (Peer-Reviewed Journal)
- XI. **Effect of Subsequent Aging on Wear Behaviour of SiCp Reinforced AA2124 Aluminum Metal Matrix Composite**
Bozkurt Y., Bilici M. K., Salman S., Gülsoy H. Ö.
Journal of Scientific and Engineering Research, vol.3, pp.34-40, 2016 (Peer-Reviewed Journal)
- XII. **Sintering and Mechanical Properties of Titanium Composites Reinforced Nano Sized Al₂O₃ Particles**
Gülsoy H. Ö., Pazarlıoğlu S. S., Özbey S., Mesut Ç., Hanifi A.
International Journal of Materials, Mechanics and Manufacturing, vol.4, pp.111-114, 2016 (Peer-Reviewed Journal)
- XIII. **Effect of Zr Nb and Ti Additions on Injection Molded 316L Stainless Steel Microstructural Mechanical Properties and Corrosion Resistance**
Gülsoy H. Ö., Pazarlıoğlu S. S., Özbey S.
Advanced Materials Research, vol.119, pp.505-509, 2015 (Peer-Reviewed Journal)
- XIV. **NiO YSZ Yitriya ile kararlı hale getirilmiş zirkonya seramiklerin kırılma tokluğuna mikro yapının etkisi**
TEKELİ S., AKTAŞ B., KÜPELİ G., BOZKURT Y., GÜLSOY H. Ö., SALMAN S.
Afyon Kocatepe Üniversitesi Fen Bilimleri Dergisi, pp.61-67, 2009 (Peer-Reviewed Journal)
- XV. **Toz Metalurjisi Ürünü Fe Cu C ve Fe Cu Parçalarının İşlenebilirlik Özelliklerinin Delme Testi ile Belirlenmesi**
SALMAN S., GÜLSOY H. Ö.
Metal Dünyası, vol.1, no.125, pp.91-94, 2003 (Non Peer-Reviewed Journal)
- XVI. **Mekanik Alaşımlama ve Uygulama Alanları**
GÜNDÜZ O., BOZKURT Y., GÜLSOY H. Ö., SALMAN S.
Metal Dünyası, vol.124, no.124, pp.85-88, 2003 (Peer-Reviewed Journal)

Books

- I. **Powder binder formulation and compound manufacture in metal injection molding (MIM)**
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- II. **METALOGRAFİ BİLİMİ NOBEL ANKARA**
SALMAN S., GÜLSOY H. Ö.
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- III. **Metalografi Bilimi**
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Papers Published in Refereed Scientific Meetings

- I. **The Effect of Boron Addition on The Microstructure and Mechanical Properties of HCx Tool Steel**
GÜLSOY H. Ö., NEVCANOĞLU N. Ş., NEVCANOĞLU A.
21. Uluslararası Metalurji ve Malzeme Kongresi (IMMC 22'), İstanbul, Turkey, 06 October 2022, pp.464-469
- II. **Eklemleri İmalat Teknolojileri ve Uygulamaları**
GÜLSOY H. Ö.
2. uluslararası türk dünyası mühendislik ve fen bilimleri kongresi, 7 - 10 November 2019
- III. **Sıcak İzostatik Preslemenin Lazer-Toz Yatak Füzyon Tekniği ile Üretilmiş 17-4PH Paslanmaz Çelikler Üzerine Etkisi**
Deb Nath S., Irrinki H., Alhofors M., Stitzel J., GÜLSOY H. Ö., Atre S.
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- IV. **AISI-420 MARTENZİTİK PASLANMAZ ÇELİKLERİN TOZ ENJENSİYON KALIPLAMA METODU KULLANIKARAK ÜRETİLMESİ VE MİKROYAPI, MEKANİK VE KOROZYON ÖZELLİKLERİNİN İNCELENMESİ**
Gülsoy H. Ö.
imsmatec2019, Nevşehir, Turkey, 21 - 23 June 2019, vol.1, no.1, pp.1-7
- V. **Bonive derived hydroxyapatite-samarium oxide composites for biomedical applications**
PAZARLIOĞLU S. S., demir s., aktaş s., GÜLSOY H. Ö., SALMAN S.
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- VI. **Karbon Nanotüp (CNT) Takviyeli Ti6Al4V bazlı kompozitlerin aşınma davranışlarının incelenmesi**
TOPCU İ., GÜLLÜOĞLU A. N., BİLİCİ M. K., GÜLSOY H. Ö.
II. Savunma Sanayi Sempozyumu, Kırıkkale, Turkey, 6 - 08 April 2017
- VII. **Effect of Sn addition on Microstructure mechanical properties and corrosion behaviour of Ti-Nb based biomedical alloys**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
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- VIII. **Karbon nanotüpler ile (KNT) güçlendirilmiş titanyum (Ti6Al4V) metal matrisli kompozitlerin mekanik davranışlarının incelenmesi**
TOPCU İ., GÜLSOY H. Ö., GÜLLÜOĞLU A. N.
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- IX. **Toz Enjeksiyon Kalıplama Yöntemi ile TiB2 ilaveli B4C Kompozitlerin Üretimi**
HARTOMACIOĞLU S., GÜLSOY H. Ö., SALMAN S.
2. uluslararası savunma sanayi sempozyumu, 6 - 08 April 2017
- X. **yapay sinir ağları yöntemiyle değişik ilaveli B4C kompozitlerin yoğunluklarının tahmin performanslarının incelenmesi**
HARTOMACIOĞLU S., GÜLSOY H. Ö.
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- XI. **“Investigation of Ti6Al4V Powder Wetting behavior reinforced with Carbon Nanotubes**
TOPCU İ., GÜLLÜOĞLU A. N., GÜLSOY H. Ö.
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- XII. **“Investigated Characterization and Mechanical Behavior Of Carbon Nanotubes Reinforced Aluminum Matrix Composite Materials”**
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- XIII. **“DETERMİNATION OF Ti6Al4V POWDER MATRIX TO BE REINFORCED CARBON NANO TUBE (CNT) CHARECTERİSATİON OF POWDERS**
TOPCU İ., GÜLSOY H. Ö., GÜLLÜOĞLU A. N.
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XIV. DEVELOPING OF MECHANICAL BEHAVIOR OF PARTICULATE REINFORCED TITANIUM MATRIX COMPOSITE

TOPCU İ., GÜLLÜOĞLU A. N., GÜLSOY H. Ö.

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XVI. Microstructural Evolution and Mechanical Properties of type Ti10Nb10Zr Alloy Produced by Metal Injection Molding

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WORLDPM2016, 9 - 13 October 2016

XVII. Sintering Dissolution Process For Manufacturing Ni Based Superalloy Foams

TİMAÇ G., GÜLSOY H. Ö.

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XVIII. Powder Injection Molded of Ti10Nb10Zr Alloy for Bio applications Electrochemical Properties and Biocompatibility

yemişci İ., GÜLSOY H. Ö., MUTLU Ö., GÜLSOY N.

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XIX. Sürtünme Karıştırma Kaynak Tekniği ile Birleştirilen AA2124 SiC 25p Kompozit Malzemenin Yaşlandırma Sertleşmesi Davranışının İncelenmesi

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XX. BOR İLAVESİNİN D2 TAKIM ÇELİĞİNİN MİKROYAPI VE MEKANİK ÖZELLİKLERİNE ETKİSİ

ÖZGÜN Ö., UZUN M., BALALAN Z., GÜLSOY H. Ö., ERÇETİN A.

IMSTEC2016, 6 - 08 April 2016

XXI. Effect of Different Additions on Sintering Behavior of Injection Molded B4C Powder

Hartomacioglu s., GÜLSOY H. Ö., bilketay s.

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XXII. Effect of Different Additions on Sintering Behaviour of Injection Molded B4C Powder

HARTOMACIOĞLU S., GÜLSOY H. Ö., Bilketay S.

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XXIII. Effect of Particle Size on Sintering Characteristics and Mechanical Properties of Injection Molded 316L Powder

GÜLSOY H. Ö., sezer b.

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XXIV. IN 718 SUPERALLOY FOAM PROCESSED BY POWDER SPACE HOLDER TECHNIQUE MICROSTRUCTURAL AND MECHANICAL CHARACTERIZATION

gökhan t., GÜLSOY H. Ö.

The International Porous and Powder Materials Symposium and Exhibition, İzmir, Turkey, 15 - 18 September 2015

XXV. Enhancing the corrosion resistance and biocompatibility of injection molded 316L stainless steel for Bio applications

PAZARLIOĞLU S. S., BÜŞRA G., MUTLU Ö., GÜLSOY N., GÜLSOY H. Ö.

16th International Scientific Congress, CNIC 2015, 22 - 24 June 2015

XXVI. Sintering and mechanical properties of Titanium composites reinforced Nano Al2O3 Particles

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