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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

Advising 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. **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)
- II. **Investigation of Creep Behavior of CNT Reinforced Ti6Al4V Under Dynamic Loads**
TOPCU İ., ÇETİNER B. N., GÜLLÜOĞLU A. N., Gulsoy O.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.42, no.1, pp.70-80, 2020 (SCI-Expanded)
- III. **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.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.8, no.6, pp.5233-5245, 2019 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.101, pp.292-305, 2019 (SCI-Expanded)
- VII. **Influence of Zr addition on the corrosion behavior of biomedical PIM Ti-16Nb alloy in SBF**
Yilmaz E., Gokce A., Findik F., GÜLSOY H. Ö.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.110, no.4, pp.379-381, 2019 (SCI-Expanded)
- VIII. **Biomedical porous Ti-16Nb-10Zr-(0-15)Ta alloys**
Yilmaz E., Gokce A., Findik F., GÜLSOY H. Ö.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.110, no.4, pp.375-378, 2019 (SCI-Expanded)
- IX. **Microstructure-property relationships of 420 stainless steel fabricated for by laser-powder bed fusion**
Nath S. D., Irrinki H., Gupta G., Kearns M., Gulsoy O., Atre S.
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- X. **Investigation of wear behavior of Ti-6Al-4V/CNT composites reinforced with carbon nanotubes**
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- XI. **Mechanical properties and electrochemical behavior of porous Ti-Nb biomaterials**
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- XII. **Assessment of Ti-16Nb-xZr alloys produced via PIM for implant applications**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.134, no.1, pp.7-14, 2018 (SCI-Expanded)
- XIII. **Powder Metallurgy Processing of Ti-Nb Based Biomedical Alloys**
Yilmaz E., Gokce A., Findik F., Gulsoy H. O.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.278-280, 2018 (SCI-Expanded)
- XIV. **Characterization of biomedical Ti-16Nb-(0-4)Sn alloys produced by Powder Injection Molding**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
VACUUM, vol.142, pp.164-174, 2017 (SCI-Expanded)
- XV. **Ni-718 superalloy foam processed by powder space-holder technique: Microstructural and**

mechanical characterization

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KOVOVE MATERIALY-METALLIC MATERIALS, vol.55, no.4, pp.273-278, 2017 (SCI-Expanded)

- XVI. **Production of porous Ti5Al2.5Fe alloy via pressureless spark plasma sintering**
Yamanoglu R., Gulsoy N., Olevsky E. A., Gulsoy H. O.
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- XVII. **Powder injection molding of Stellite 6 powder: Sintering, microstructural and mechanical properties**
GÜLSOY H. Ö., ÖZGÜN Ö., Bilketay S.
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- XVIII. **Effect of Zr, Nb and Ti addition on injection molded 316L stainless steel for bio-applications: Mechanical, electrochemical and biocompatibility properties**
Gülsoy H. Ö., Pazarlioglu S. S., Gülsoy N., Gundede B., Mutlu Ö.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.51, pp.215-224, 2015 (SCI-Expanded)
- XIX. **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)
- XX. **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.
POWDER METALLURGY, vol.58, no.1, pp.30-35, 2015 (SCI-Expanded)
- XXI. **Particle morphology influence on mechanical and biocompatibility properties of injection molded Ti alloy powder**
GÜLSOY H. Ö., GÜLSOY N., Calisici R.
BIO-MEDICAL MATERIALS AND ENGINEERING, vol.24, no.5, pp.1861-1873, 2014 (SCI-Expanded)
- XXII. **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)
- XXIII. **Microstructural and mechanical characterization of injection molded 718 superalloy powders**
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- XXIV. **Injection molding of nickel based 625 superalloy: Sintering, heat treatment, microstructure and mechanical properties**
ÖZGÜN Ö., GÜLSOY H. Ö., YILMAZ R., FINDIK F.
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- XXV. **Microstructure and mechanical properties of injection moulded Nimonic-90 superalloy parts**
Ozgun O., Gulsoy H. O., Findik F., Yilmaz R.
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- XXVI. **Injection Molding of Mechanical Alloyed Ti-Fe-Zr Powder**
GÜLSOY H. Ö., Gunay V., Baykara T., German R. M.
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- XXVII. **Effect of boron addition on injection molded 316L stainless steel: Mechanical, corrosion properties and in vitro bioactivity**
Bayraktaroglu E., GÜLSOY H. Ö., GÜLSOY N., Er O., KILIÇ H.
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Engin G., Aydemir B., GÜLSOY H. Ö.
RARE METALS, vol.30, no.6, pp.565-571, 2011 (SCI-Expanded)
- XXIX. **Sintering parameters and mechanical properties of injection moulded aluminium powder**

- Acar L., Gulsoy H. O.
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- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **Sintered foams from precipitation hardened stainless steel powder**
Gulsoy H. O., German R. M.
POWDER METALLURGY, vol.51, no.4, pp.350-353, 2008 (SCI-Expanded)
- XXXIV. **Mechanical Properties of Polymers Filled with Iron Powder**
Tasdemir M., GÜLSOY H. Ö.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS, vol.57, no.3, pp.258-265, 2008 (SCI-Expanded)

Articles Published in Other Journals

- 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. **Eklemlerli 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.
NANOMATERIALSCIENCE 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. **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)
- VII. **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)
- 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 UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, 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., bilketay 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. **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)
- XV. **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 & Book Chapters

- I. **Powder binder formulation and compound manufacture in metal injection molding (MIM)**
ENNETI R., ONBATTUVELLI V., GÜLSOY H. Ö., kate k, atre s.
in: Handbook of Metal Injection Molding - 2nd Edition - Elsevier, Donald Heaney, Editor, elsevier, NA, pp.5-70, 2018
- II. **METALOGRAFİ BİLİMİ NOBEL ANKARA**
SALMAN S., GÜLSOY H. Ö.
NOBEL, 2014
- III. **Metalografi Bilimi**
GÜLSOY H. Ö., SALMAN S.
Nobel yayın evi, 2004

Refereed Congress / Symposium Publications in Proceedings

- 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. **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.
2. uluslararası türk dünyası mühendislik ve fen bilimleri kongresi, 7 - 10 November 2019

- III. **Eklemler İmalat Teknolojileri ve Uygulamaları**
GÜLSOY H. Ö.
2. uluslararası türk dünyası mühendislik ve fen bilimleri kongresi, 7 - 10 November 2019
- IV. **Laser - powder bed fusion of bronze: microstructural, mechanical and elektrochemical properties'xx'xx**
TOP M. N., GÜLSOY H. Ö.
Twenty-first Annual ConferenceYUCOMAT 2019Eleventh WorldRound Table Conferenceon Sintering - Science of Sintering Its Future: Fifty Years Later, 2 - 06 September 2019
- V. **Powder injection molding of B4C-CrB2 composite based sandblast nozzles**
HARTOMACIOĞLU S., GÜLSOY H. Ö.
AM-PM 2019, 23 - 26 June 2019
- VI. **Bronz Parçaların Seçici Lazer Ergitme (SLM) Metodu ile Üretilmesi: Mikroyapı ve Mekanik Özellikler**
TOP M. N., GÜLSOY H. Ö.
IMSMATEC-2019, 21 - 23 June 2019
- VII. **Bronz Parçaların Seçici Lazer Ergitme (SLM) Metodu ile Üretilmesi: Mikroyapı ve Mekanik Özellikler**
TOP M. N., GÜLSOY H. Ö.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia / TURKEY (IMSMATEC 2019), 21 - 23 June 2019
- VIII. **AISI-420 MARTENZİTİK PASLANMAZ ÇELİKLERİN TOZ ENJENSİYON KALIPLAMA METODU KULLANIKARAK ÜRETİLMESİ VE MİKROYAPI, MEKANİK VE KOROZYON ÖZELLİKLERİNİN İNCELENMESİ**
Gülsoy H. Ö.
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- IX. **SÜRTÜNME KARIŞTIRMA NOKTA KAYNAĞI PROSES PARAMETRELERİNİN MİKROYAPI VE MEKANİK ÖZELLİKLERİ ÜZERİNDE ETKİSİ**
Kırman M., BOZKURT Y., GÜLSOY H. Ö., AKÇAKALE N.
ZEUGMA 2. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Gaziantep, Turkey, 18 - 20 January 2019, vol.3, pp.2027-2042
- X. **Influence of Ta addition on the microstructures and mechanical properties of biomedicalTi16Nb10Zr alloy**
YILMAZ E., GÜLSOY H. Ö.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), 22 - 23 November 2018
- XI. **Hydroxyapatite coating on Ti16Nb alloy by electrochemical deposition**
YILMAZ E., GÜLSOY H. Ö., FINDIK F.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), 22 - 23 November 2018
- XII. **Lazer-Toz Yatak Füzyon Tekniği ile Üretilmiş AISI-420 Paslanmaz Çeliklerin Mikroyapı ve Mekanik Özellikleri**
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- XIII. **Lazer-Toz Yatak Füzyon Tekniği ile Üretilmiş 17-4PH Paslanmaz Çeliklerin İncelenmesi**
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- XIV. **Effects of Hot Isostatic Pressing on the Mechanical Properties and Microstructures of 17-4 PH Stainless Steel Processed by Laser-Powder Bed Fusion**
irrinki h., dep nath s., atre s., GÜLSOY H. Ö., Ahlfors M., Stitzel J.
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- XV. **Investigation of the Corrosion Behavior of 420 Stainless Steel Processed by Laser-Powder Bed Fusion**
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İRRINKİ H., deb nath s., atre s., GÜLSOY H. Ö.
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- XVII. **The Role of Powder Attributes in Laser-Powder Bed Fusion of 420 Stainless Steel**
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- XVIII. **Effect of Sintering Conditions on Mechanical Properties of Injection Molded Ti10Nb10Zr Alloy for Bio-applications**
ışıl y., GÜLSOY N., GÜLSOY H. Ö.
Biomat2018, 12 - 16 March 2018
- XIX. **Influence of Zr addition on the corrosion behavior of biomedical PIM Ti-16Nb-(0, 5, 10) Zr alloys in SBF**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
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- XX. **Biomedical Porous Ti-16Nb-10Zr-(0-15) Ta Alloys**
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- XXI. **modelling of production parameters of B4C ZrO2 composites via artificial neural networks method**
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- XXII. **Application of a hybrid model : fractional experimental design artificial neural network grey relational analysis method on optimization of process parameters of powder metallurgy**
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- XXIII. **The Effect of Copper Addition On Mechanical and Corrosion Properties of AA 1055 Aluminium Alloys**
imamoglu k., ÖZBEY S., SALMAN S., GÜLSOY H. Ö.
IATS 2017, 19 - 22 October 2017
- XXIV. **Electrochemical Corrosion Behavior of Ti and Ti-16Nb Alloy for Implant Applications**
YILMAZ E., GÖKÇE A., FINDIK F., GÜLSOY H. Ö.
IATS 2017, 19 - 22 October 2017
- XXV. **investigation of rheological properties of cobalt based superalloy powder PIM feedstock**
gayretli e., GÜLSOY H. Ö.
ICMTM2017, 24 - 25 October 2017
- XXVI. **Production of boron carbide based sandblasting nozzle by using low pressure powder injection molding method and modeling of production parameters via artificial neural network**
HARTOMACIOĞLU S., GÜLSOY H. Ö., ONAT A.
International scientific congress machines, technologies, materials, Varna, Bulgaria, 13 - 16 September 2017
- XXVII. **Production of boron carbide based sandblasting nozzle by using low pressure powder injection molding method and modelling of production parameters via artificial neural network**
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- XXVIII. **DEVELOPMENT OF ti16NBxzR ALLOY FOR İMPLANT APPLİCATIONS**
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4. CENTRAL AND EASTERN EUROPEAN CONFERENCE ON THERMAL ANALYSIS AND CALORİMETER, 28 - 31 August 2017
- XXIX. **Electrochemical Behavior of injection Molded Gas and Water Atomized 17-4PH Stainless Steel Powder**
ÖZBEY S., AKDAĞ E., KALIN G., GÜLSOY H. Ö.
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- XXX. **Bonive derived hydroxyapatite-samarium oxide composites for biomedical applications**

PAZARLIOĞLU S. S., demir s., aktaş s., GÜLSOY H. Ö., SALMAN S.

POWDERMET2017, 13 - 16 June 2017

- XXXI. **Injection molding of Micro-Porous Ti10Nb10Zr Alloy**
aktaş s., durumlu s., özgül c., PAZARLIOĞLU S. S., ÖZBEY S., GÜLSOY H. Ö.
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- XXXII. **Karbon Nanotüp (CNT) Takviyeli Ti6Al4V bazlı kompozitlerinaşınma davranışlarının incelenmesi**
TOPCU İ., GÜLLÜOĞLU A. N., BİLİCİ M. K., GÜLSOY H. Ö.
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