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Education Information

Post Doctorate, OTH Regensburg, Fakultät Maschinenbau, TÜBİTAK - DFG Avrupa Bilimsel Değişim Burs Programı, Germany 2007 - 2008

Doctorate, OTH Regensburg, Fakultät Maschinenbau, TÜBİTAK Yurtdışı - Yurtdışı Bütünleştirilmiş Doktora Burs Programı, Germany 2004 - 2006

Doctorate, Pamukkale University, Institute Of Science, Makine Mühendisliği Anabilim Dalı, Turkey 2002 - 2006

Postgraduate, Pamukkale University, Institute Of Science, Makine Mühendisliği Anabilim Dalı, Turkey 1999 - 2002

Undergraduate, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

German, B2 Upper Intermediate

Dissertations

Doctorate, Oksit dispersiyon sertleştirilmesi yapılmış NiCr8020 (2.4869) nikel esaslı süper alaşımın termomekanik yorulma davranışının belirlenmesi, Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2006

Postgraduate, Plastik malzeme türleri ve bunların fiziksel özelliklerinin belirlenmesi için kullanılan deney ve yöntemler, Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2002

Research Areas

Mechanical Engineering, Construction and Manufacturing, Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Non-traditional manufacturing methods

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering, 2018 - Continues
Associate Professor, Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering, 2012 - 2018
Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering, 2010 - 2012
Assistant Professor, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2008 - 2010
Research Assistant PhD, Pamukkale University, Faculty Of Engineering, Makine Mühendisliği, 2006 - 2008
Research Assistant, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2000 - 2006

Supervised Theses

Kovan V., Eklemeli imalatla üretilen maraging çeliğinin aşınma davranışına ısı işlemin etkisinin incelenmesi, Postgraduate, M.EMİRZEOĞLU(Student), 2024
Kovan V., SAVUNMA SANAYİ İÇİN BİR ORNİTHOPTER MEKANİZMASI TASARIM VE İMALATI, Postgraduate, S.BÜYÜKKAYA(Student), 2023
Kovan V., Sıkı geçme bağlantılarında çentik etkisinin sayısal olarak incelenmesi, Postgraduate, N.AŞKIN(Student), 2023
Kovan V., Düşük erime sıcaklığına sahip metal alaşımları için üç boyutlu yazıcı tasarımı ve imalatı, Postgraduate, M.KEMAL(Student), 2022
Kovan V., Yüksek sıcaklık uygulamaları için oksit dispersiyon sertleştirmeli alüminyum matrisli nano kompozitlerin üretimi, Postgraduate, F.Erdoğan(Student), 2017
Kovan V., Engelli hastalarının yürüyüş rehabilitasyonu için dış iskelet tasarımı, Postgraduate, E.Yılmaz(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Operational wear behaviour of 3D-printed lightweight metal gears: EDS and oil analysis comparison**
Tezel T., Schultheiss U., Hornberger H., Kovan V.
MATERIALPRUEFUNG/MATERIALS TESTING, vol.1, no.1, pp.1, 2024 (SCI-Expanded)
- II. **Improving surface and dimensional quality with an additive manufacturing-based hybrid technique**
Mertkan İ. A., Tezel T., Kovan V.
International Journal of Advanced Manufacturing Technology, vol.128, no.5-6, pp.1957-1963, 2023 (SCI-Expanded)
- III. **Three-dimensional printability of bismuth alloys with low melting temperatures**
Gülseren M. K., KOVAN V., TEZEL T.
Journal of Manufacturing Processes, vol.92, pp.238-246, 2023 (SCI-Expanded)
- IV. **Investigation into impact properties of adhesively bonded 3D printed polymers**
Özenç M., TEZEL T., KOVAN V.
International Journal of Adhesion and Adhesives, vol.118, 2022 (SCI-Expanded)
- V. **Heat treatment effect on fatigue behavior of 3D-printed maraging steels**
TEZEL T., KOVAN V.
RAPID PROTOTYPING JOURNAL, vol.28, no.1, pp.175-184, 2022 (SCI-Expanded)
- VI. **Determination of optimum production parameters for 3D printers based on nozzle diameter**
TEZEL T., KOVAN V.
RAPID PROTOTYPING JOURNAL, vol.28, no.1, pp.185-194, 2022 (SCI-Expanded)
- VII. **Impact properties of 3D-printed engineering polymers**
TEZEL T., Ozenc M., KOVAN V.
MATERIALS TODAY COMMUNICATIONS, vol.26, 2021 (SCI-Expanded)
- VIII. **Failure analysis of 3D-printed steel gears**
TEZEL T., TOPAL E. S., KOVAN V.
ENGINEERING FAILURE ANALYSIS, vol.110, 2020 (SCI-Expanded)

- IX. **Characterising the wear behaviour of DMLS-manufactured gears under certain operating conditions**
 TEZEL T., TOPAL E. S., KOVAN V.
 WEAR, vol.440, 2019 (SCI-Expanded)
- X. **The effect of molybdenum on titanium's castability in dental prosthesis applications: A numerical analysis**
 KOVAN V., TEZEL T., TOPAL E. S.
 PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.233, no.10, pp.1966-1971, 2019 (SCI-Expanded)
- XI. **Effects of the printing parameters on short-term creep behaviors of three-dimensional printed polymers**
 TEZEL T., KOVAN V., TOPAL E. S.
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, no.21, 2019 (SCI-Expanded)
- XII. **Designing and Manufacturing of Polymer-Foam Hybrid Materials Using Fused Deposition Modeling**
 TEZEL T., KOVAN V., ÇAMURLU H. E., TOPAL E. S.
 ADVANCED ENGINEERING MATERIALS, vol.21, no.6, 2019 (SCI-Expanded)
- XIII. **Numerical and experimental analysis of a 3D printed Savonius rotor with built-in extension plate**
 Altan B., KOVAN V., Altan G.
 WIND AND STRUCTURES, vol.27, no.1, pp.1-9, 2018 (SCI-Expanded)
- XIV. **Elasto-Plastic Separation Frequency Analysis of Interference Fitted Joints in Lightweight Materials**
 KOVAN V.
 INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.15, no.4, 2018 (SCI-Expanded)
- XV. **Effect of layer thickness and print orientation on strength of 3D printed and adhesively bonded single lap joints**
 KOVAN V., Altan G., TOPAL E. S.
 JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.31, no.5, pp.2197-2201, 2017 (SCI-Expanded)
- XVI. **Investigation of 3D printed Savonius rotor performance**
 Altan B., Altan G., KOVAN V.
 RENEWABLE ENERGY, vol.99, pp.584-591, 2016 (SCI-Expanded)
- XVII. **Flexural behavior of 3D printed honeycomb sandwich structures with waste filler material**
 Altan G., KOVAN V.
 MATERIALS TESTING, vol.58, no.10, pp.833-838, 2016 (SCI-Expanded)
- XVIII. **Separation frequency analysis of interference fitted hollow shaft-hub connections by finite element method**
 Kovan V.
 ADVANCES IN ENGINEERING SOFTWARE, vol.42, no.9, pp.644-648, 2011 (SCI-Expanded)
- XIX. **The development of a new mandibular osteosynthesis plate: an application of the Ashby approach**
 Kovan V.
 PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.225, no.H2, pp.199-205, 2011 (SCI-Expanded)
- XX. **An assessment of impact strength of the mandible**
 Kovan V.
 JOURNAL OF BIOMECHANICS, vol.41, no.16, pp.3488-3491, 2008 (SCI-Expanded)
- XXI. **Thermal-mechanical fatigue behaviour and life prediction of oxide dispersion strengthened nickel-based superalloy PM1000**
 Kovan V., HAMMER J., MAI R., Yuksel M.
 MATERIALS CHARACTERIZATION, vol.59, no.11, pp.1600-1606, 2008 (SCI-Expanded)
- XXII. **Microstructures and mechanical properties of friction stir welded dissimilar copper/brass joints**
 Meran C., Kovan V.
 MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.39, no.8, pp.521-530, 2008 (SCI-Expanded)
- XXIII. **Modelling by artificial neural network of high temperature fatigue life of oxide dispersion strengthened nickel-based superalloy PM 1000**

- Kovan V., HAMMER J., MAI R., Yuksel M.
MATERIALS AT HIGH TEMPERATURES, vol.25, no.2, pp.81-88, 2008 (SCI-Expanded)
- XXIV. **Torque strength of bolted connections with locked anaerobic adhesive**
Sekercioglu T., Kovan V.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.222, no.L1, pp.83-89, 2008 (SCI-Expanded)
- XXV. **Prediction of static shear force and fatigue life of adhesive joints by artificial neural network**
Sekercioglu T., Kovan V.
KOVOVE MATERIALY-METALLIC MATERIALS, vol.46, no.1, pp.51-57, 2008 (SCI-Expanded)
- XXVI. **Friction stir welding of AISI 304 austenitic stainless steel**
MERAN C., Kovan V., ALPTEKIN A.
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.38, no.10, pp.829-835, 2007 (SCI-Expanded)
- XXVII. **Pitting failure of truck spiral bevel gear**
SEKERCIOGLU T., Kovan V.
ENGINEERING FAILURE ANALYSIS, vol.14, no.4, pp.614-619, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Hibrit İmalat: Eklemeli İmalat İle Talaşlı İmalat Yöntemlerinin Birlikte Kullanılabilirliğinin İncelenmesi**
TEZEL T., TOPAL E. S., KOVAN V.
International Journal of 3D Printing Technologies and Digital Industry, vol.2, no.3, pp.60-65, 2018 (Peer-Reviewed Journal)
- II. **Effect of Printing Parameters on Mechanical Properties of 3D Printed PLA/Carbon Fibre Composites**
KOVAN V., TEZEL T., ÇAMURLU H. E., TOPAL E. S.
Materials Science Non-Equilibrium Phase Transformations, vol.4, no.4, pp.126-128, 2018 (Peer-Reviewed Journal)
- III. **Printing Parameters Effect on Surface Characteristics of 3D Printed PLA Materials**
KOVAN V., TEZEL T., TOPAL E. S., ÇAMURLU H. E.
Machines Technologies Materials, vol.12, no.7, pp.256-269, 2018 (Peer-Reviewed Journal)
- IV. **Alaşımız ıslah çeliklerinin derinliğine sertleşme kabiliyetlerinin modellenmesi**
Meran C., KOVAN V.
Metalürji Malzeme, vol.2, pp.110-113, 2005 (Peer-Reviewed Journal)
- V. **Otomotiv Endüstrisinde Kullanılan Yapıştırıcılar**
Şekercioglu T., KOVAN V., Ülker Ç.
MakinaTek, vol.90, pp.132-136, 2005 (Peer-Reviewed Journal)
- VI. **Makine Elemanlarında Seramik Malzemelerin Kullanımı**
Şekercioglu T., KOVAN V.
Metal Dünyası, vol.141, pp.102-106, 2005 (Peer-Reviewed Journal)
- VII. **Yapıştırma Bağlantılarında Yapışma Teorileri ve Yüzey Enerjilerinin İncelenmesi**
KOVAN V., Şekercioglu T.
Yüzey İşlemler, vol.42, pp.22-26, 2005 (Peer-Reviewed Journal)
- VIII. **Elektro Kimyasal Korozyona Dayanıklı Nikel Esaslı Yüksek Performans Alaşımları**
KOVAN V., Meran C., Yüksel M.
Yüzey İşlemler, vol.41, pp.56-64, 2004 (Peer-Reviewed Journal)
- IX. **Genel Yapı Çelikleri Nereye Gidiyor?**
KOVAN V., Yüksel M., Meran C.
Metal Dünyası, vol.134, pp.120-125, 2004 (Peer-Reviewed Journal)
- X. **Vakum Kaplama Tekniklerine Genel Bir Bakış**
KOVAN V., Meran C., Yüksel M.
Makine Market, vol.80, pp.120-125, 2004 (Peer-Reviewed Journal)

XI. Nikel Esaslı Süper Alaşımlar

Meran C., KOVAN V.

Makine Market, vol.76, pp.112-116, 2004 (Peer-Reviewed Journal)

Books

- I. **Plastik Malzemelerin Kaynağı ve Kaynağa Uygun Tasarım Prensipleri**
TEZEL T., KOVAN V.
in: Teoriden Uygulamaya İleri Malzeme ve Üretim Yöntemleri, , Editor, Bidge Yayınları, pp.416-441, 2024
- II. **Fonksiyonel Dereceli Eklemeli İmalat Teknolojilerinin Gelişimi ve Mühendislik Uygulamaları**
TEZEL T., KOVAN V.
in: Makine Mühendisliğinde İleri Araştırmalar, , Editor, Yaz Yayınları, pp.255-277, 2024
- III. **Korozif Ortamlar İçin Makine Elemanlarının Tasarım Prensipleri**
TEZEL T., KOVAN V.
in: Makine Mühendisliğinde İleri Araştırmalar, , Editor, Yaz Yayınları, pp.235-255, 2024
- IV. **Plastik Parçaların Üretiminde Tasarım İlkeleri ve Uygulamaları**
TEZEL T., KOVAN V.
in: Savunma Sanayisinde ve Endsütride İleri Üretim Teknikleri, , Editor, Bidge Yayınları, pp.197-224, 2024
- V. **Metallerin Sert Lehimlenmesi Ve Lehime Uygun Tasarım Prensipleri**
KOVAN V., TEZEL T.
in: Mühendislik Alanında Akademik Araştırma ve Derlemeler II, , Editor, Platanus Publishing, Ankara, pp.35-46, 2023
- VI. **Çelikler İçin Isıl İşleme Uygun Tasarımın Temel Prensipleri**
KOVAN V., TEZEL T.
in: Mühendislik Alanında Akademik Araştırma ve Derlemeler II, , Editor, Platanus Publishing, Ankara, pp.25-34, 2023
- VII. **Poligon Mil-Göbek Bağlantıları: Geometri, Hesap Ve Tasarımı**
KOVAN V., TEZEL T.
in: Malzeme Teknolojisi Ve Tasarım Bilimlerine Yeni Yaklaşımlar, , Editor, Güven Plus Grup A.Ş. Yayınları, pp.318-336, 2021
- VIII. **Biyomedikal Uygulamaları İçin Biyoçözünür Magnezyum Alaşımlarının Eklemeli İmalatla Üretimi**
TEZEL T., KOVAN V.
in: Malzeme Teknolojisi Ve Tasarım Bilimlerine Yeni Yaklaşımlar, , Editor, Güven Plus Grup AŞ, pp.102-127, 2021

Papers Published in Refereed Scientific Meetings

- I. **Paslanmaz Çelik İmplantların Ergiyik Biriktirme Teknolojisi İle Üretimi Ve İkincil İşlemlerle Biyouyumluluğunun Geliştirilmesi**
TEZEL T., KOVAN V.
International Conference On Health, Engineering, Architecture And Mathematics, İstanbul, Turkey, 1 - 03 December 2024, pp.214-221
- II. **Stereolitografi Üretim Parametrelerinin Parça Boyut ve Yüzey Kalitesine Etkisi**
TEZEL T., KOVAN V.
International Conference On Health, Engineering, Architecture And Mathematics, İstanbul, Turkey, 1 - 03 December 2024, pp.223-229
- III. **Biyo-Çözünür Magnezyum İmplantların Üretim Süreçleri Ve Yüzey Modifikasyonlarının İyileştirilmesi**
TEZEL T., KOVAN V.
8. International Marmara Scientific Research and Innovation Congress, İstanbul, Turkey, 27 - 28 October 2024, pp.396-405

- IV. **Makine Öğrenimi İle Mekanik Tasarım Ve Üretimde Verimlilik Ve Yenilik**
TEZEL T., KOVAN V.
8. International Marmara Scientific Research and Innovation Congress, İstanbul, Turkey, 27 - 28 October 2024, pp.386-395
- V. **Stereolitografi İle Üretilen Polimerik Malzemelerde Bakır Kaplamanın Yüzey Kalitesine Etkisi**
TEZEL T., KOVAN V., Bulut Ş. M.
8. International Marmara Scientific Research and Innovation Congress, İstanbul, Turkey, 27 - 28 October 2024, pp.406-414
- VI. **Savunma Sanayi İçin Bir Ornithopter Mekanizması Tasarım Ve İmalatı**
Büyükkaya S., KOVAN V., TEZEL T.
International Conference On Health, Engineering And Applied Sciences, Belgrade, Serbia, 17 - 20 October 2024, pp.240-245
- VII. **Isı Transferi Performansının Artırılması İçin Alüminyum Alaşımli Isı Alıcılarında Topoloji Optimizasyonu**
Tekavit G., TEZEL T., KOVAN V.
International Conference On Health, Engineering And Applied Sciences, Belgrade, Serbia, 17 - 20 October 2024, pp.218-224
- VIII. **Lityum Bataryalı Hibrit Araçlarda Enerji Yönetimi Literatür Taraması Ve Güncel gelişmeler**
Arıkan N. A., TEZEL T., KOVAN V.
International Conference On Health, Engineering And Applied Sciences, Belgrade, Serbia, 17 - 20 October 2024, pp.211-217
- IX. **Topoloji Optimizasyonu İle Eklemeli İmalat Süreçlerinin Geliştirilmesi**
Tekavit G., TEZEL T., KOVAN V.
International Conference On Health, Engineering And Applied Sciences, Belgrade, Serbia, 17 - 20 October 2024, pp.225-231
- X. **Tel Elektro Erozyon Yöntemi İle Şekil Hafızalı Alaşımların İşlenmesi**
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- XI. **İnsansız Hava Araçları Ve Biyomimetik Uygulamaları**
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- XII. **Ergiyik Biriktirme Tekniği Esaslı Abs/Pc Poliblend İmalatında Boyutsal Hassasiyetin İncelenmesi**
TEZEL T., KOVAN V.
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- XIII. **Üç Boyutlu Çikolata Yazıcı Teknolojisi**
TEZEL T., KOVAN V.
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- XIV. **Modern İmalat Yöntemlerine Uygun Tasarım İlkeleri**
Tezel T., Kovan V.
Ege 2nd International Congress on Innovation Technologies & Engineering, İzmir, Turkey, 12 June 2023, pp.421-425
- XV. **Doğal Lif Takviyeli Kompozit Filament İmalatı**
Tezel T., Kovan V.
Ege 2nd International Congress on Innovation Technologies & Engineering, İzmir, Turkey, 12 June 2023, pp.416-420
- XVI. **Otomobil Pistonlarının Eklemeli İmalatta Kullanılabilirliğinin Nümerik Analizi**
Tekavit G., Tezel T., Kovan V.
Ege 2nd International Congress on Innovation Technologies & Engineering, İzmir, Turkey, 12 June 2023, pp.426-431
- XVII. **Ornithopter Teknolojilerinin Gelişimi**

Büyükkaya S., Kovan V., Tezel T.

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XVIII. Talaşlı İmalatta Nanoparçacık Takviyeli Kesme Sıvılarının Kullanımı

Tekavit G., TEZEL T., KOVAN V.

BilTek-VII International Symposium On Current Developments In Science, Technology And Social Science, Ankara, Turkey, 26 May 2023, pp.1130-1137

XIX. Otomobil Pistonunda Sonlu Elemanlar Yöntemi İle Hasar Analizi

Tekavit G., TEZEL T., KOVAN V.

Biltek-VII International Symposium On Current Developments In Science, Technology And Social Science, Ankara, Turkey, 26 May 2023, pp.1138-1147

XX. Eklemeli İmalat İçin Biyobozunur Malzeme Geliştirilmesi

Sogay A., TEZEL T., KOVAN V.

BilTek-VII International Symposium On Current Developments In Science, Technology And Social Science, Ankara, Turkey, 26 May 2023, pp.989-998

XXI. Eklemeli İmalatta Uluslararası Kuruluşlar Tarafından Yürütülen Standardizasyon Faaliyetleri

TEZEL T., KOVAN V.

Ege 7th International Conference on Applied Sciences, İzmir, Turkey, 24 December 2022, pp.884-890

XXII. Seçici Lazer Ergitme Yönteminde Üretim Kısıtlamalarına Uygun Tasarım Kriterleri

TEZEL T., KOVAN V.

Ege 7th International Conference on Applied Sciences, İzmir, Turkey, 24 December 2022, pp.878-883

XXIII. Konik Disk Yayların Analitik ve Nümerik Gerilme Analizi

TEZEL T., KOVAN V.

Ankara International Congress On Scientific Research-VII, Ankara, Turkey, 02 December 2022, pp.1073-1080

XXIV. 4D Üretimin Biyomedikal Uygulamaları

TEZEL T., KOVAN V.

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XXV. Eklemeli İmalat İçin Tasarım İlkeleri

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XXVI. Eklemeli İmalatta İş Güvenliği

TEZEL T., KOVAN V.

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XXVII. Post-Production Copper Coating Applications with Additive Manufacturing

Bulut Ş. M., TEZEL T., KOVAN V.

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XXIX. Failure Analysis of a Diesel Vehicle Piston

Emirzeoğlu M., TEZEL T., KOVAN V.

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XXX. Biomimetic Soft Materials and Soft Robots Produced By Additive Manufacturing

Emirzeoğlu M., TEZEL T., KOVAN V.

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XXXI. Eklemeli İmalat Kullanılarak Hibrit Malzeme Tasarımı

Tezel T., Kovan V.

8. Uluslararası Mühendislik Mimarlık Ve Tasarım Kongresi, İstanbul, Turkey, 06 December 2021, pp.76-83

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KOVAN V., TEZEL T.

8. Uluslararası Mühendislik Mimarlık Ve Tasarım Kongresi, İstanbul, Turkey, 06 December 2021

XXXIII. **Bicycle Disc Brake Rotor Topological Optimization**

Karamahmutoğlu T., TEZEL T., KOVAN V.

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Tatlısu N., KOVAN V., TEZEL T.

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Gülseren M. K., KOVAN V., TEZEL T.

V. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 14 August 2021, pp.357-363

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Gülseren M. K., KOVAN V., TEZEL T.

V. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 14 August 2021, pp.464-467

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Arıkan N. A., KOVAN V., TEZEL T.

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Gülseren M. K., Kovan V., Tezel T.

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XL. **The Benefits of Additive Manufacturing in The Covid-19 Pandemia Process**

Gülseren M. K., TEZEL T., KOVAN V.

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XLI. **Additive Manufacturing in Automotive Industry**

Gülseren M. K., TEZEL T., KOVAN V.

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XLII. **An Overview of Hybrid Manufacturing of Plastics**

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