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Education Information

- I. Doctorate, RMIT University, Aerospace Mechanical and Manufacturing Engineering, Material Science, Australia 2006 - 2009
- II. Doctorate, Gazi University, Institute of Natural Science, Department of Chemical Engineering, Turkey 2000 - 2003
- III. Post Graduate, Gazi University, Institute of Natural Sciences, Department of Chemical Engineering, Turkey 1995 - 1997
- IV. Under Graduate, Gazi University, Faculty of Engineering, Department of Chemical Engineering, Turkey 1991 - 1995

Foreign Languages

- I. English, C1 Advanced
- II. German, B1 Intermediate

Certificates, Courses and Trainings

- I. Education Management and Planning, RESEARCH COMMERCIALIZATION, CURTIN UNIVERSITY, 2008
- II. Education Management and Planning, LEADERSHIP AND COMMUNICATION, CURTIN UNIVERSITY, 2006
- III. Education Management and Planning, RESEARCH METHODS COURSE, RMIT UNIVERSITY, 2005
- IV. Education Management and Planning, PROJECT MANAGEMENT, CURTIN UNIVERSITY, 2005
- V. Foreign Language, ENGLISH, KANGAN BATMAN TAFE, 2004
- VI. Education Management and Planning, METAL PLATING, HENKEL, 1998

Dissertations

- I. Doctorate, Optimization of Petaloid Base Dimensions and Process Operating Conditions to Minimize Environmental Stress Cracking in Injection Stretch Blow Moulded PET Bottles, RMIT University, Aerospace Mechanical and Manufacturing Engineering, Manufacturing Engineering, 2009
- II. Post Graduate, Investigation of the Telluric Effects Arising along the Cathodically Protected Natural Gas Pipeline between Karadeniz Ereğli and Duzce, Gazi University, Institute of Natural Sciences, Chemical Engineering, 1997

Research Areas

Geological Engineering, Mineralogy-petrography, Mineralogy and Crystallography, Chemical Engineering and Technology, Process and Reactor Design, Process Design, Basic Operations and Thermodynamics, Heat Transfer, Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Mechanical Properties, Corrosion and Corrosion Protection, Composites, Cement and Concrete, Polymeric Materials, Plating, Engineering and Technology

Academic Titles / Tasks

- I. Associate Professor, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği , 2015 - Continues
- II. Assistant Professor, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği , 2011 - 2015
- III. Assistant Professor, Bartın University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, 2009 - 2011
- IV. Research Assistant, University of Sydney, Department Of Aerospace Mechanical And Manufacturing Engineering, Manufacturing Engineering, 2006 - 2009

Courses

- I. KATODİK KORUMA, Post Graduate, 2019 - 2020
- II. MALZEME TERMODİNAMİĞİ-II, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
- III. AMBALAJ VE MALZEME BİLGİSİ, Under Graduate, 2020 - 2021
- IV. SCIENTIFIC RESEARCH METHODS AND PUBLICATION ETHICS, Post Graduate, 2020 - 2021
- V. MALZEME SEÇİM VE TASARIMI, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
- VI. KOROZYON, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021
- VII. MALZEME TERMODİNAMİĞİ-I, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020
- VIII. BİLGİSAYAR PROGRAMLAMA, Under Graduate, 2018 - 2019
- IX. POLİMER KİMYASI, Doctorate, 2018 - 2019
- X. ÇÖZELTİ TERMODİNAMİĞİ, Under Graduate, 2016 - 2017
- XI. GELENEKSEL SERAMİKLER, Under Graduate, 2013 - 2014, 2014 - 2015, 2015 - 2016
- XII. TASINIM, Under Graduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015
- XIII. ELEKTROKİMYA, Doctorate, 2015 - 2016
- XIV. MALZEME BİLİMİ VE TEKNOLOJİSİ, Under Graduate, 2014 - 2015
- XV. POLİMER BİLİMİ VE TEKNOLOJİSİ, Doctorate, 2013 - 2014
- XVI. UYGULAMALI TERMODİNAMİK, Doctorate, 2014 - 2015
- XVII. POLİMER ÜRETİM SÜREÇLERİ, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015
- XVIII. GENEL KİMYA-II, Under Graduate, 2012 - 2013
- XIX. KATI HALE GİRİŞ, Under Graduate, 2012 - 2013

Advising Theses

- I. Demirel B., Boratlı Antibakteriyel Sırların Hazırlanması ve Karakterizasyonu, Doctorate, E.ÇİTAK(Student), Continues
- II. Demirel B., Tanecik Takviyeli Polimer Matrisli Kompozit Malzemelerin Fiziksel ve Mekanik Özelliklerinin Modellenmesi Ve Sonlu Elemanlar Yöntemi İle Doğrulanması, Doctorate, F.YILDIRIM(Student), Continues
- III. Demirel B., NH₃ Duyarlı Yarı iletken Metal Oksit Gaz Sensörü Geliştirme, Doctorate, B.PALANCIGİLLER(Student), Continues
- IV. Demirel B., İletkenlerin İzolasyonunda kullanılan Halojen İçermeyen, Alev Geciktiricili Polimer Matrisli Kompozit Malzeme Üretimi, Post Graduate, S.YILDIRIM(Student), Continues
- V. Demirel B., Çinko Borat Katkılı PET'in Isısal Bozunma Davranışının İncelenmesi, Post Graduate, M.ÖZTÜRK(Student), Continues

- VI. Demirel B., Mikro Elektronik Devrelerde Kurşunsuz Lehim Alaşımının Isıl ve Elektriksel Özelliklerinin Araştırılması, Doctorate, P.ATA(Student), Continues
- VII. Demirel B., Foton-Aktif Monomer İçerisinde Disperse Edilmiş Seramik, Metal Tozlarının Kullanımı İle 3D Baskısı İçin Dijital Işın Destekli (DLP) Eklemeli Üretim Tekniğinin Geliştirilmesi, Doctorate, M.SHEHADA(Student), Continues
- VIII. Demirel B., NiMnGa Esaslı Şekil Hafızalı Alaşımın Üretimi ve Ekstrüzyon Kontrol Parametrelerinin İncelenmesi, Doctorate, S.DAL(Student), 2021
- IX. Demirel B., Elyaf Takviyeli Kompozit Sert Poliüretan Köpüklerin Mekanik Özelliklerinin İyileştirilmesi, Post Graduate, H.ASLANTAŞ(Student), 2020
- X. Demirel B., Tufal Katkılı PE Matrisli Kompozitlerin Tribolojik ve Mekanik Özelliklerinin İncelenmesi, Post Graduate, G.BAYRAKTAR(Student), 2020
- XI. Demirel B., Modifiye edilmiş hidroksiapatitin ışıma ve termal özelliklerinin incelenmesi, Post Graduate, E.SABAN(Student), 2019
- XII. Demirel B., Termal Bariyer Kaplamaların Elektro Biriktirme Yöntemleriyle Üretimi ve Karakterizasyonu, Doctorate, K.OĞUZ(Student), 2018
- XIII. Demirel B., PET Şişelerde Performans Artırılması Amacıyla Gerdirme Şişirme Kalıplama Proses Parametrelerinin Optimizasyonu, Post Graduate, İ.ADEVİYE(Student), 2017
- XIV. Demirel B., Nano SiO₂ ve Aerojel Katkılı Süper Isıl Yalıtım Özelliğine Sahip Beton Blok Üretimi, Post Graduate, İ.AL(Student), 2017
- XV. Demirel B., Si katkılı Mg₂B₂O₅ sentezi ve PET (polietilen tereftalat) malzemesinin özellikleri üzerine etkisinin incelenmesi, Post Graduate, E.AKTÜRK(Student), 2017
- XVI. Demirel B., Expanded polistiren sert köpük (EPS) malzemesinin kiremit olarak kullanılabilirliğinin incelenmesi, Post Graduate, N.ATAY(Student), 2011

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

- I. **Synthesis of Gd+3 doped hydroxyapatite ceramics: optical, thermal and electrical properties**
Demirel B., Saban E., Yaraş A., Akkurt F.
JOURNAL OF ASIAN CERAMIC SOCIETIES, vol.1, no.1, pp.1, 2021 (Journal Indexed in SCI)
- II. **Chemical, Thermal, Mechanical Properties and UV Transmittance of Novel Nano Hydroxyapatite/PET Milk Bottles**
Demirel B., İnaner N. B. , Gezer D. U. , Daver F., Yaraş A., Akkurt F.
Polymer Engineering And Science, vol.1, no.1, pp.1, 2021 (Journal Indexed in SCI)
- III. **Mechanical and tribological properties of waste iron scale reinforced polypropylene composite**
Erdoğan A., Gök M. S. , Kurşuncu B., Demirel B.
Industrial Lubrication And Tribology, vol.73, no.2, pp.388-395, 2021 (Journal Indexed in SCI Expanded)
- IV. **Thermal conversion behavior of paper mill sludge: characterization, kinetic, and thermodynamic analyses**
Yaras A., DEMİREL B., AKKURT F., Arslanoglu H.
Biomass Conversion and Biorefinery, 2021 (Journal Indexed in SCI)
- V. **Investigation of mechanical and tribological properties of different grain size iron scale reinforced polymer composite**
Kursuncu B., Erdogan A., Gok M. S. , DEMİREL B.
POLYMERS & POLYMER COMPOSITES, 2020 (Journal Indexed in SCI)
- VI. **Investigation of mechanical and thermal properties of nano SiO₂/hydrophobic silica aerogel co-doped concrete with thermal insulation properties**
Al Zaidi I. K. , Demirel B., Atiş C. D. , Akkurt F.
STRUCTURAL CONCRETE, vol.21, no.3, pp.1123-1133, 2020 (Journal Indexed in SCI)
- VII. **The effects of homogenization time on the crystal structure and hardness of NiMnGaMo alloy**
Dal S., DEMİREL B., ESKİL M.

Engineering Science and Technology, an International Journal, 2020 (Journal Indexed in SCI Expanded)

- VIII. **Effect of different storage methods on thermal and mechanical properties of mortar containing aerogel, fly ash and nano-silica**
Al Zaidi A. K. A. , DEMİREL B., ATİŞ C. D.
CONSTRUCTION AND BUILDING MATERIALS, vol.199, pp.501-507, 2019 (Journal Indexed in SCI)
- IX. **An Oxidation Study of NiCoCrAl Coatings Produced by Electrolytic co-Deposition Method**
Oskay K. O. , DEMİREL B.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.186-188, 2018 (Journal Indexed in SCI)
- X. **Optimization of Electrophoretic Deposition of YSZ**
Oskay K. O. , DEMİREL B.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.182-185, 2018 (Journal Indexed in SCI)
- XI. **Optimisation of mould surface temperature and bottle residence time in mould for the carbonated soft drink PET containers**
DEMİREL B.
POLYMER TESTING, vol.60, pp.220-228, 2017 (Journal Indexed in SCI)
- XII. **Effect of shot peening on the oxidation behavior of thermal barrier coatings**
Karaoglanli A. C. , Döleker K. M. , Demirel B., Türk A., Varol R.
APPLIED SURFACE SCIENCE, vol.354, pp.314-322, 2015 (Journal Indexed in SCI)
- XIII. **The Investigation and Growth Kinetics of TiC Coatings on AISI D3 Steel Produced by Thermo-Reactive Diffusion Technique**
Kurt B., SINOPLU O., Carboga C., DEMİREL B.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.51, no.2, pp.95-106, 2014 (Journal Indexed in SCI)
- XIV. **Characterization and Kinetics of VC Coatings on AISI D3 Steel Performed by Thermo-Reactive Diffusion Technique**
Kurt B., Onder E., Carboga C., DEMİREL B.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.51, no.1, pp.32-44, 2014 (Journal Indexed in SCI)
- XV. **Experimental study of preform reheat temperature in two-stage injection stretch blow molding**
DEMİREL B., Daver F.
POLYMER ENGINEERING AND SCIENCE, vol.53, no.4, pp.868-873, 2013 (Journal Indexed in SCI)
- XVI. **Optimization of the composite brick composed of expanded polystyrene and pumice blocks**
Demirel B.
CONSTRUCTION AND BUILDING MATERIALS, vol.40, pp.306-313, 2013 (Journal Indexed in SCI)
- XVII. **Investigation of the telluric effects arising along the cathodically protected natural gas pipeline between Karadeniz Ereğli and Duzce**
DEMİREL B., Yalcin H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, no.3, pp.758-765, 2013 (Journal Indexed in SCI)
- XVIII. **Growth Kinetics of CrC Coating Layers on AISI D3 Obtained by Thermo-Reactive Diffusion Technique**
Kurt B., Onder E., Carboga C., Demirel B., Karagoz M.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.50, no.11, pp.754-766, 2013 (Journal Indexed in SCI)
- XIX. **Effects of preform deformation behavior on the properties of the poly(ethylene terephthalate) bottles**
DEMİREL B., Daver F.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.126, no.4, pp.1300-1306, 2012 (Journal Indexed in SCI)
- XX. **A simulation study of the effect of preform cooling time in injection stretch blow molding**
Daver F., DEMİREL B.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.212, no.11, pp.2400-2405, 2012 (Journal Indexed in SCI)
- XXI. **An integrative simulation approach to weight reduction in Polyethylene terephthalate) bottles**

- Daver F., DEMİREL B., Sutanto J., Pang C. W.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, 2012 (Journal Indexed in SCI)
- XXII. **A novel UV-emitting phosphor: $\text{Li}_6\text{CaB}_3\text{O}_8.5:\text{Pb}^{2+}$**
PEKGOZLU I., ERDOGMUS E., DEMİREL B., GOK M., KARABULUT H., BASAK A. S.
JOURNAL OF LUMINESCENCE, vol.131, no.11, pp.2290-2293, 2011 (Journal Indexed in SCI)
- XXIII. **The Effects on the Properties of PET Bottles of Changes to Bottle-Base Geometry**
Demirel B., Daver F.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, no.6, pp.3811-3818, 2009 (Journal Indexed in SCI)
- XXIV. **Optimization of Poly(ethylene terephthalate) Bottles Via Numerical Modeling: A Statistical Design of Experiment Approach**
Demirel B., Daver F.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, no.2, pp.1126-1132, 2009 (Journal Indexed in SCI)
- XXV. **Optimization of PET bottle via numerical modelling: A statistical design of experiment approach**
DEMİREL B., Daver F.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, 2009 (Journal Indexed in SCI)
- XXVI. **Effects of the geometrical modification of the petaloid base on the final physical properties of the PET bottles**
DEMİREL B., Daver F.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Confirmation of the experimentally measured cooling time of Polyethylene Terephthalate (PET) melt by ANSYS and FORTRAN**
Demirel B., Danacı M., Akkurt F., Yaraş A.
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, no.1, pp.1, 2021 (National Refereed University Journal)
- II. **Halojen İçermeyen, Alev Geciktirici Polimer Matrisli Kompozit Üretiminde Ekstrüder Çalışmalarının Yanma Üzerine Etkisi**
DEMİREL B., YILDIRIM S.
Nevşehir Bilim ve Teknoloji Dergisi, pp.90-97, 2020 (Other Refereed National Journals)
- III. **Kalsiyum Boratlı Antibakteriyel Sırların Hazırlanması ve Antibakteriyel Özelliklerinin İncelenmesi**
DEMİREL B., ÇITAK E., YUVALI ÇELİK G., AKKURT F.
Nevşehir Bilim ve Teknoloji Dergisi, pp.31-38, 2020 (Other Refereed National Journals)
- IV. **Material selection on countermeasure flares systems by multi criteria decision making methods**
Şenyiğit E., Demirel B.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.4, no.1, pp.1-9, 2020 (Refereed Journals of Other Institutions)
- V. **THE SELECTION OF MATERIAL IN DENTAL IMPLANT WITH ENTROPY BASED SIMPLE ADDITIVE WEIGHTING AND ANALYTIC HIERARCHY PROCESS METHODS**
ŞENYİĞİT E., DEMİREL B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.36, no.3, pp.731-740, 2018 (Journal Indexed in ESCI)
- VI. **OPTIMIZING THE COMPOSITION OF ELECTROPLATED NiCrAl COMPOSITE COATING**
OSKAY K. O. , DEMİREL B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.36, no.3, pp.795-802, 2018 (Journal Indexed in ESCI)
- VII. **DETERMINATION OF THE MATERIAL FOR THE CARBONATED SOFT DRINK PACKAGING WITH MULTI-CRITERIA DECISION MAKING METHODS**
ŞENYİĞİT E., DEMİREL B.

VIII. **Crystallization behavior of PET materials**

Demirel B., Yaras A., Elcicek H.

BAÜ Fen Bil. Enst. Dergisi, vol.13, no.1, pp.26-35, 2011 (National Refreed University Journal)

Books & Book Chapters

I. **KRİSTALLOGRAFİ**

Demirel B.

Ekin Yayınevi, Bursa, 2019

II. **KATI HALE GİRİŞ**

GOYMEN G., DEMİREL B.

Gazi Kitapevi Yayınları, Ankara, 2013

Refereed Congress / Symposium Publications in Proceedings

I. **BWM-TOPSIS ÇOK KRİTERLİ KARAR VERME YÖNTEMİ İLE SAVUNMA SANAYİ İÇİN TANK PALETİ TASARIMINDA EN İYİ MALZEMENİN SEÇİMİ**

Şenyiğit E., Demirel B., Gökkuş Ö.

30 Ağustos Bilimsel Araştırmalar Kongresi, Adana, Turkey, 28 - 30 August 2020

II. **BWM-SAW YÖNTEMİ İLE SAVUNMA SANAYİSİNDE TANK ZIRHLARI İÇİN KULLANILACAK EN İYİ MALZEMENİN SEÇİMİ**

ŞENYİĞİT E., DEMİREL B., GÖKKUŞ Ö.

30 Ağustos Bilimsel Araştırmalar Kongresi, 28 - 30 August 2020

III. **ASKERİ AMAÇLI TRENLERDE KUPLÖR MERKEZLEME PİMİ TASARIMINDA EN İYİ MALZEMENİN SEÇİMİ**

Şenyiğit E., Yurtgülü N., Demirel B., Gökkuş Ö.

3. ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Adana, Turkey, 19 - 20 June 2020, vol.1, no.1, pp.1-6

IV. **PREPARATION OF ANTIBACTERIAL GLAZES WITH CALCIUM BORATE AND INVESTIGATION OF IT'S ANTIBACTERIAL PROPERTIES**

ÇITAK E., DEMİREL B., YUVALI ÇELİK G., AKKURT F.

4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC 2019), 18 - 20 October 2019

V. **VARIATION OF ORDER PARAMETER WITH TEMPERATURE FOR LIQUID CRYSTALS DOPED WITH DYE AND NANOPARTICLE**

AKKURT F., DEMİREL B.

4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC 2019), 18 - 20 October 2019

VI. **EFFECT OF EXTRUDER STUDIES ON COMBUSTION IN THE PRODUCTION OF HALOGEN-FREE, FLAME RETARDANT POLYMER MATRIX COMPOSITE PRODUCTION**

YILDIRIM S., DEMİREL B.

4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC 2019), 18 - 20 October 2019

VII. **CURRENT-VOLTAGE CHARACTERISTIC OF FULLERENE DOPED LIQUID CRYSTALS**

AKKURT F., DEMİREL B.

4. International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC 2019), 18 - 20

October 2019

- VIII. **THE SELECTION OF MATERIAL TO USE IN BALLISTIC VEST DESIGN**
DEMİREL B., ŞENYİĞİT E., KARAKAYA C., ÖZTÜRK Ö., U MAY B., ENGÜR M.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/TURKEY (IMSMATEC'19), 21 - 23 June 2019
- IX. **EFFECTS OF HEAT TREATMENT ON MICROSTRUCTURE AND MICROHARDNESS OF NiMnGaMo SHAPE MEMORY ALLOY**
DAL S., DEMİREL B., ESKİL M.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/TURKEY (IMSMATEC'19), 21 - 23 June 2019
- X. **THE SELECTION OF MATERIAL TO USE IN DENTAL DENTAL PROSTHESIS DESIGN**
DEMİREL B., ŞENYİĞİT E., DEMİRKOL N., NERGİZ K., KILIÇ O. C. , AKKURT F.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/TURKEY (IMSMATEC'19), 21 - 23 June 2019
- XI. **INVESTIGATION OF MECHANICAL PROPERTIES OF PARTICULATE REINFORCED POLYMER MATRIX COMPOSITES BY FINITE ELEMENT METHOD**
Demirel B., Yıldırım F.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia/TURKEY (IMSMATEC'19), Nevşehir, Turkey, 21 - 23 June 2019
- XII. **BEST MATERIAL SELECTION FOR NOVEL AIRPLANE BATTERY BOX**
Demirel B., Şenyiğit E., Akkurt F.
The International Conference on Material Science, Mechanical and Automotive Engineers and Technology in Cappadocia/NEVŞEHİR (IMSMATEC'19), Nevşehir, Turkey, 21 - 23 June 2019
- XIII. **INVESTIGATION OF BEST MATERIAL FOR BRAKE DISCS WITH MULTI CRITERIA DECISION MAKING METHODS**
Demirel B., Şenyiğit E., Akkurt F.
The International Conference on Material Science, Mechanical and Automotive Engineers and Technology in Cappadocia/NEVŞEHİR (IMSMATEC'19), Nevşehir, Turkey, 21 - 23 June 2019
- XIV. **Investigation of Ballistic Behaviours of Kevlar and Boron Fiberon Helmet Design by Ansys**
DEMİREL B., ŞENYİĞİT E., ÖZTÜRK A. C. , İNANER N. B. , ŞAHİN S. S. , AKKURT F.
International Symposium on Boron, 17 - 19 April 2019
- XV. **KEVLAR VE BOR ELYAF MALZEMELERİNİN KASK MODELLEMESİ İLE BALİSTİK DAVRANIŞLARININ ANSYS PROGRAMI İLE İNCELENMESİ**
Demirel B., Şenyiğit E., Öztürk A. C. , Burhan N., Şahin S. S. , Akkurt F.
Uluslararası Bor Sempozyumu (BORON2019), Nevşehir, Turkey, 17 - 19 April 2019, vol.1, no.1, pp.210-216
- XVI. **SHAPE MEMORY ALLOYS PRODUCTION METHODS**
DEMİREL B., KURT B., BAYRAKTAR G.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 10 - 12 April 2018
- XVII. **BEST MATERIAL SELECTION FOR CHAFF/FLARE LUNCH SYSTEM**
Demirel B., Şenyiğit E., Bekırcan O., Ozkan S., Baktır S.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 10 - 12 April 2018
- XVIII. **Mechanical Properties of Fiber Reinforced Composite Rigid Polyurethane Foam Materials**
ASLANTAŞ H., DEMİREL B.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 10 - 12 April 2018
- XIX. **THE SELECTION OF THE BEST MATERIAL FOR PLANE WING PIN**
ŞENYİĞİT E., DEMİREL B., CENGİZ U., OZDEMİR O., HACIPASAOĞLU F.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 10 - 12 April 2018

- XX. **IMPROVING BRAKING PERFORMANCE BY USING COMPOSITE MATERIALS THAT HAVE CERAMIC MATRICES AND COOLING THIS BRAKING PARTS WITH A TURBINE COOLING SYSTEM**
DEMİREL B., ŞENYİĞİT E., AYDIN G., DEMİR S., SEFERTAS O.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 10 - 12 April 2018
- XXI. **COMPARISON OF INDIVIDUAL BEHAVIORS OF HFFR AND PVC SHEET MATERIALS**
KARLITEPE CETINKAYA M., GUREK M., DOGAN N., DEMİREL B.
The International Conference on Material Science and Technology in Cappadocia(IMSTEC 2018), 17 September - 19 April 2018
- XXII. **SELECTION OF MATERIALS FOR BATTLE SHIP'S PROPELLER DESIGN**
Demirel B., Şenyiğit E., Akar M., Basol S., Karabulut M. A.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in ÇEŞME, Nevşehir, Turkey, 10 - 12 April 2018
- XXIII. **INVESTIGATION OF THERMAL, ELECTRICAL AND MECHANICAL PROPERTIES OF LEAD FREE SOLDER ALLOYS**
ESENER P. A. , DEMİREL B., AKKURT F.
The International Conference on Material Science and Technology in Cappadocia(IMSTEC 2018), 17 September - 19 April 2018
- XXIV. **BEST MATERIAL SELECTION FOR HELMET DESIGN**
DEMİREL B., ŞENYİĞİT E., TUFAN M., AKKURT F.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, 10 April 2018
- XXV. **MODELING AND SIMULATION OF PARTICULATE REINFORCED POLYMER MATRIX COMPOSITES**
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- XXXII. The Arabian Journal for Science and Engineering, SCI Journal, May 2015
- XXXIII. Materials Chemistry and Physics, SCI Journal, April 2015
- XXXIV. Project Supported by Higher Education Institutions, February 2015
- XXXV. Project Supported by Higher Education Institutions, January 2015
- XXXVI. Mühendislik ve Teknoloji Bilimleri Dergisi, National Scientific Refreed Journal, December 2014
- XXXVII. Project Supported by Higher Education Institutions, November 2014
- XXXVIII. Polymer Engineering & Science, SCI Journal, May 2014
- XXXIX. Materials Chemistry and Physics, SCI Journal, April 2014
- XL. The Arabian Journal for Science and Engineering, SCI Journal, March 2014
- XLI. Journal of Applied Polymer Science, SCI Journal, February 2014
- XLII. Project Supported by Higher Education Institutions, October 2013
- XLIII. Journal of Chemical Engineering and Materials Science, Other Indexed Journal, October 2012
- XLIV. TUBITAK Project, November 2011
- XLV. Journal of Applied Polymer Science, SCI Journal, April 2009
- XLVI. Journal of Applied Polymer Science, SCI Journal, March 2009

Tasks In Event Organizations

- I. Demirel B., International Conference on Material Science and Technology in Cappadocia-IMSTEC2020, Scientific Congress, Nevşehir, Turkey, Kasım 2020
- II. Demirel B., International Conference on Material Science and Technology in Cappadocia-IMSTEC2019, Scientific Congress, Nevşehir, Turkey, Ekim 2019
- III. Demirel B., The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'19), Scientific Congress, Nevşehir, Turkey, Haziran 2019
- IV. Demirel B., International Conference on Material Science and Technology in Cappadocia-IMSTEC2018, Scientific Congress, Nevşehir, Turkey, Eylül 2018
- V. Demirel B., The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'18), Scientific Congress, İzmir, Turkey, Nisan 2018
- VI. Demirel B., International Conference on Material Science and Technology in Cappadocia -IMSTEC2017, Scientific Congress, Nevşehir, Turkey, Ekim 2017
- VII. Demirel B., International Conference on Material Science and Technology in Cappadocia-IMSTEC2016, Scientific Congress, Nevşehir, Turkey, Nisan 2016

Mobility Activity

- I. Erasmus Programme, Lecturing, West Pomeranian University of Technology, Poland, 2013 - 2013

Edit Congress and Symposium Activities

- I. International Conference on Material Science and Technology in Cappadocia-2017, Attendee, Nevşehir, Turkey, 2017
- II. International Conference on Material Science and Technology in Cappadocia-2016, Attendee, Nevşehir, Turkey, 2016
- III. Bilim, Sanayi ve Teknoloji Bakanlığı-Teknogirişim Sermayesi Desteği Programı, Attendee, ANKARA, Turkey, 2015
- IV. Bilim, Sanayi ve Teknoloji Bakanlığı Ar-Ge Merkezi Başvurusu Hakemlik Görevi, Attendee, İZMİR, Turkey, 2014
- V. The International Advances in Applied Physics and Materials Science Congress-Exhibition, Attendee, Muğla, Turkey,

2014

- VI. TÜBİTAK-TEYDEB PRODIS Hakemliği, Attendee, IZMIR, Turkey, 2013
- VII. TÜBİTAK-TEYDEB PRODIS Hakemliği, Attendee, İstanbul, Turkey, 2012
- VIII. TUBITAK MAG - MÜHENDİSLİK ARAŞTIRMA DESTEK GRUBU Panel Üyeliği, Attendee, ANKARA, Turkey, 2012

Scholarships

- I. HECS Free Australian Higher Education Scholarship, University, 2005 - Continues

Coaching Duties

Refereeing Duties

Non Academic Experience

- I. Public Corporation, HAZİNE MÜSTEŞARLIĞI DARPHANE VE DAMGA MATBAASI GENEL MÜDÜRLÜĞÜ, KIYMETLİ MADENLER KALİTE KONTROL LAB.
- II. Business Establishment Private, PROJE VE UYGULAMA
- III. Other Public Institution, KKK. ORD. DON. IV KADEME K.LIĞI, METAL KAPLAMA/FOSFAT KAPLAMA
- IV. Business Establishment Private, KORTEK MÜH. MÜŞ. LTD. ŞTİ., PROJE VE UYGULAMA