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Education Information

Doctorate, Selcuk University, Fen Bilimleri, Makina, Turkey 1999 - 2005

Postgraduate, Selcuk University, Institute Of Science, Turkey 1996 - 1999

Undergraduate, Selcuk University, Faculty Of Engineering, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Mechanical Engineering, Construction and Manufacturing, Machine Design, Plastic Forming Methods, Metallurgical and Materials Engineering, Material science and engineering, Corrosion and Corrosion Protection, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, 2011 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, 2005 - 2011

Assistant Professor, Ataturk University, Mühendislik Fakültesi, 1995 - 2005

Academic and Administrative Experience

Head of Department, Bayburt University, 2015 - 2016

Dean, Bayburt University, 2013 - 2016

Dean, Erzurum Technical University, 2011 - 2012

Vice Rector, Erzurum Technical University, 2011 - 2012

Director of Vocational School, Bayburt University, 2009 - 2010

Deputy Head of Department, Ataturk University, 2001 - 2003

Deputy Head of Department, Ataturk University, 1998 - 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Processing of Ti/(HA+ZrO₂) biocomposite and 50% porous hybrid scaffolds with low Young's modulus by powder metallurgy: Comparing of structural, mechanical, and corrosion properties**
Topuz M., DİKİCİ B., GAVGALI M., Kaseem M.
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- II. **Titanium-based composite scaffolds reinforced with hydroxyapatite-zirconia: Production, mechanical and in-vitro characterization**
Topuz M., DİKİCİ B., GAVGALI M.
Journal of the Mechanical Behavior of Biomedical Materials, vol.118, 2021 (SCI-Expanded)
- III. **Determination of mechanical properties of polymer matrix composites reinforced with electrospinning N66, PAN, PVA and PVC nanofibers: A comparative study**
USLU E., GAVGALI M., ERDAL M. O., YAZMAN Ş., GEMİ L.
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- IV. **Al-5Cu/B4Cp composites: The combined effect of artificially aging (T6) and particle volume fractions on the corrosion behaviour**
Tozkoparan B., DİKİCİ B., Topuz M., Bedir F., GAVGALI M.
Advanced Powder Technology, vol.31, no.7, pp.2833-2842, 2020 (SCI-Expanded)
- V. **The effect of high TiC particle content on the tensile cracking and corrosion behavior of Al-5Cu matrix composites**
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- VI. **A novel perspective for Lactobacillus reuteri: Nanoencapsulation to obtain functional fish fillets**
Ceylan Z., USLU E., Ispirli H., Meral R., GAVGALI M., YILMAZ M. T., DERTLİ E.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.115, 2019 (SCI-Expanded)
- VII. **Microstructure and mechanical properties of a novel TiNi particulate reinforced AZ91 metal matrix composite**
Kelen F., GAVGALI M., Aydoğmuş T.
MATERIALS LETTERS, vol.233, pp.12-15, 2018 (SCI-Expanded)
- VIII. **The effect of sintering time on synthesis of in situ submicron alpha-Al₂O₃ particles by the exothermic reactions of CuO particles in molten pure Al**
Dikici B., GAVGALI M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.551, pp.101-107, 2013 (SCI-Expanded)
- IX. **The effect of arc current on the corrosion behaviour of coated NiTi alloy on AISI304 by plasma transferred arc process**
Dikici B., Ozel S., GAVGALI M., Somunkiran I.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.48, no.5, pp.563-567, 2012 (SCI-Expanded)
- X. **Synthesis of in situ TiC nanoparticles in liquid aluminum: the effect of sintering temperature**
Dikici B., GAVGALI M., Bedir F.
JOURNAL OF COMPOSITE MATERIALS, vol.45, no.8, pp.895-900, 2011 (SCI-Expanded)
- XI. **The Effect of Electroless Ni Coating of SiC Particles on the Corrosion Behavior of A356 Based Squeeze Cast Composite**
Dikici B., Tekmen C., GAVGALI M., Cocen U.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.57, no.1, pp.11-20, 2011 (SCI-Expanded)
- XII. **The effect of coating thickness on corrosion resistance of hydroxyapatite coated Ti6Al4V and 316L SS implants**
Aksakal B., GAVGALI M., Dikici B.
Journal of Materials Engineering and Performance, vol.19, no.6, pp.894-899, 2010 (SCI-Expanded)
- XIII. **Wear behavior of plasma sprayed composite coatings with in situ formed Al₂O₃**
MİNDİVAN H., TEKMEŇ Ç., Dikici B., TSUNEKAWA Y., GAVGALI M.
MATERIALS & DESIGN, vol.30, no.10, pp.4516-4520, 2009 (SCI-Expanded)
- XIV. **Detrimental effect of particle sol-gel coating on the corrosion behavior of A380-SiC composite**

- Dikici B., Tekmen C., Yigit O., GAVGALI M., Cocen U.
CORROSION SCIENCE, vol.51, no.3, pp.469-476, 2009 (SCI-Expanded)
- XV. **Corrosion characteristics of Al-Cu/B₄C (T6) MMCs and their microstructure evaluation**
Dikici B., Bedir F., GAVGALI M., Kiyak T.
KOVVOVE MATERIALY-METALLIC MATERIALS, vol.47, no.5, pp.317-323, 2009 (SCI-Expanded)
- XVI. **Corrosion susceptibilities of Al-Cu/TiC MMCs fabricated by conventional hot pressing**
GAVGALI M., Dikici B., Bedir F.
Indian Journal of Engineering and Materials Sciences, vol.14, no.4, pp.303-308, 2007 (SCI-Expanded)
- XVII. **Corrosion behavior of an artificially aged (T6) Al-Si-Mg-based metal matrix composite**
Dikici B., Gavgali M., TEKMEŒ Ç.
JOURNAL OF COMPOSITE MATERIALS, vol.40, no.14, pp.1259-1269, 2006 (SCI-Expanded)
- XVIII. **The effect of SiCp reinforcement on the corrosion behaviour of Al based metal matrix composites**
GAVGALI M., DİKİCİ B., TEKMEŒ Ç.
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GAVGALI M., DİKİCİ B., Tekmen C.
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- XXI. **The effect of the microstructural difference between surface and center on the hot workability of AA 6063 homogenized ingot**
TOTİK Y., GAVGALI M., SADELER R., Kaymaz I.
JOURNAL OF ADVANCED MATERIALS, vol.36, no.4, pp.53-59, 2004 (SCI-Expanded)
- XXII. **Improvements of fatigue behaviour in 2014 Al alloy by solution heat treating and age-hardening**
SADELER R., TOTİK Y., GAVGALI M., Kaymaz I.
MATERIALS & DESIGN, vol.25, no.5, pp.439-445, 2004 (SCI-Expanded)
- XXIII. **The effect of homogenisation treatment on cold deformations of AA 2014 and AA 6063 alloys**
TOTİK Y., SADELER R., Kaymaz I., GAVGALI M.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.147, no.1, pp.60-64, 2004 (SCI-Expanded)
- XXIV. **The effects of artificial aging on wear properties of AA 6063 alloy**
GAVGALI M., Totik Y., SADELER R.
MATERIALS LETTERS, vol.57, pp.3713-3721, 2003 (SCI-Expanded)
- XXV. **The effect of homogenization treatment on the hot workability between the surface and the center of AA 2014 ingots**
Totik Y., GAVGALI M.
MATERIALS CHARACTERIZATION, vol.49, no.3, pp.261-268, 2002 (SCI-Expanded)
- XXVI. **The investigation of hot workability of AA 6063/SiC composites with different SiC particulate volume fraction**
TOTİK Y., SADELER R., GAVGALI M., Kaymaz I.
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- XXVII. **Corrosion behavior of 90%Cu-10%Ni alloy at different rotation speeds**
GAVGALI M., Kaymaz I., TOTİK Y., SADELER R.
CORROSION REVIEWS, vol.20, pp.403-414, 2002 (SCI-Expanded)
- XXVIII. **An investigation of the relationship between heat treatment and microstructure in (TiAlV)N and (TiAl)N ceramic films**
Totik Y., Efeoglu I., Gavgali M., Sadeler R.
MATERIALS CHARACTERIZATION, vol.47, no.1, pp.55-60, 2001 (SCI-Expanded)
- XXIX. **Effects of Various Homogenization Treatments on the Hot Workability of Ingot Aluminium Alloy AA2014**
GAVGALI M., AKSAKAL B.

Articles Published in Other Journals

- I. **Toz Metalürjisi Yöntemi İle Üretilmiş Magnezyum Matrisli Kompozitlerin Korozyon Duyarlılıkları**
KELEN F., AYDOĞMUŞ T., GAVGALI M., DİKİCİ B.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.3, pp.914-920, 2019 (Peer-Reviewed Journal)
- II. **A review on the hydrogels used in 3D bio-printing**
TOPUZ M., DİKİCİ B., GAVGALI M., YILMAZER H.
International Journal of 3D Printing Technologies and Digital Industry, vol.2, pp.68-75, 2018 (Peer-Reviewed Journal)
- III. **Comparison of Al - Metal Matrix Composites Produced by In Situ Hot Press Method**
ÖNAL M., GAVGALI M.
Journal of Scientific and Engineering Research, vol.4, no.6, pp.89-91, 2017 (Peer-Reviewed Journal)
- IV. **Comparison of Al-Metal Matrix Composites Produced By In Situ Hot Press Method**
ÖNAL M., GAVGALI M.
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- V. **Comparison of Al - Metal Matrix Composites Produced by In Situ Hot Press Method**
ÖNAL M., GAVGALI M.
Journal of Scientific and Engineering Research, vol.4, no.6, pp.89-91, 2017 (Peer-Reviewed Journal)
- VI. **Production of Metal Matrix Composites by In situ Techniques**
ÖNAL M., GAVGALI M.
Journal of Scientific and Engineering Research, vol.4, no.2, pp.78-82, 2017 (Peer-Reviewed Journal)
- VII. **Production of Metal Matrix Composites by In situ Techniques**
ÖNAL M., GAVGALI M.
Journal of Scientific and Engineering Research, vol.4, no.2, pp.78-82, 2017 (Peer-Reviewed Journal)
- VIII. **Prediction of corrosion behaviour of particulate reinforced metal matrix composites by adaptive neuro-fuzzy inference system (ANFIS)**
TUNTAŞ R., DİKİCİ B., GAVGALI M.
Korozyon, vol.22, pp.43-46, 2016 (Peer-Reviewed Journal)
- IX. **Synthesis of Ceramic Particles Al₂O₃ and TiB₂ in Aluminum Matrix**
ÖNAL M., GAVGALI M.
Iğdır Üni. Fen Bilimleri Enst. Der., vol.6, pp.75-82, 2016 (Peer-Reviewed Journal)
- X. **Prediction Corrosion Behaviour of Particulated Metal Matrix composite by Adaptive Neuro Fuzzy Inference System ANFIS**
TUNTAŞ R., DİKİCİ B., GAVGALI M.
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- XI. **IN SITU ALÜMİNYUM METAL MATRİSLİ KOMPOZİTLER ve SICAK PRESLEME ile ÜRETİMLERİ**
ÖNAL M., GAVGALI M.
Ordu Üniversitesi, Bilim ve Teknoloji Dergisi, vol.5, pp.63-73, 2015 (Peer-Reviewed Journal)
- XII. **%40 TiC ve SiC partikül katkılı metal matrisli kompozitlerin potansiyodinamik ve EIS analizleri**
DİKİCİ B., BEDİR F., ALTUN H., GAVGALI M.
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- XIII. **40 TiC ve SiC partikül katkılı metal matrisli kompozitlerin potansiyodinamik ve EIS analizleri**
DİKİCİ B., BEDİR F., ALTUN H., GAVGALI M.
Mühendis ve Makina (Engineer the Machinery Magazine), 2009 (Peer-Reviewed Journal)
- XIV. **SEM observations on the porosity activities during corrosion of Al-Si-Mg/SiCp metal matrix composites**
DİKİCİ B., KIYAK T., TEKMEÇİ Ç., GAVGALI M.

Materials Science: An Indian Journal, 2007 (Peer-Reviewed Journal)

- XV. **The effect of cold-worked ratio on corrosion behavior of T8 tempered Al-Si-Mg/SiCp metal matrix composites**
Dikici B., Tekmen C., GAVGALI M., Tsunekawa Y.
ICCM International Conferences on Composite Materials, 2007 (Scopus)
- XVI. **İyon nitrürleme işleminin AISI 5140 çeliğinin burulma özellikleri üzerine etkisi**
GAVGALI M., ÇELİK A., ALSARAN A., TOTİK Y.
Mühendis ve Makina, vol.43, no.507, pp.45-49, 2002 (Peer-Reviewed Journal)
- XVII. **İyon Nitrürleme İşleminin AISI 5140 Çeliğinin Burulma Özelliklerine Etkisi Üzerine Bir Çalışma**
GAVGALI M., ÇELİK A., ALSARAN A., TOTİK Y.
Mühendis ve Makina, vol.43, no.507, pp.45-49, 2002 (Peer-Reviewed Journal)
- XVIII. **Hot worability of 5052 alüminium alloys**
GAVGALI M., TOTİK Y.
j. of The Mechanical Behaviour of Materials, vol.12, pp.187-195, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **İş Makinaları**
GAVGALI M.
in: Makine ve Teçhizat, Kadir Bilen, Editor, ATAAÖF, Erzurum, pp.1-24, 2017
- II. **Taşıma Tekniği**
GAVGALI M.
in: Makine Teçhizat, Kadir Bilen, Editor, ATAAOF, Erzurum, pp.1-22, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Al-5Cu/B4Cp Hot-Pressed Composites: The Effect of Particle Volume Fraction on Microstructure and Corrosion Behavior**
DİKİCİ B., TOZKOPARAN B., TOPUZ M., BEDİR F., GAVGALI M.
X International Symposium on Materials (MATERIAIS 2019), Lizbon, Portugal, 14 - 17 April 2019, pp.129
- II. **SICAK PRESLEME YÖNTEMİ İLE ÜRETİLMİŞ AZ91/TiNi KOMPOZİTLERİNİN MİKROYAPISI**
AYDOĞMUŞ T., KELEN F., GAVGALI M.
1st INTERNATIONAL SYMPOSIUM ON LIGHT ALLOYS AND COMPOSITE MATERIALS (ISLAC'xx18), Karabük, Turkey, 22 - 24 March 2018, pp.290-291
- III. **TiNi İLE TAKVİYE EDİLMİŞ Mg MATRİSLİ KOMPOZİTLERİN SICAK PRESLEME YÖNTEMİ İLE ÜRETİLMESİ**
KELEN F., AYDOĞMUŞ T., GAVGALI M.
1st INTERNATIONAL SYMPOSIUM ON LIGHT ALLOYS AND COMPOSITE MATERIALS (ISLAC'xx18), 22 - 24 March 2018, pp.288-289
- IV. **Production of Aluminum Composites Containing TiB2 and Al2O3 Particles**
ÖNAL M., GAVGALI M.
4th International Conference on Natural and Engineering Science, Muğla, Turkey, 9 - 12 October 2018, pp.44
- V. **TiNi İLE TAKVİYE EDİLMİŞ AZ91D MATRİSLİ KOMPOZİTLERİN KOROZYON DAVRANIŞI**
KELEN F., AYDOĞMUŞ T., GAVGALI M., DİKİCİ B.
15th INTERNATIONAL CORROSION SYMPOSIUM (KORSEM'xx18), 26 - 28 September 2018
- VI. **Mg/NiTi METAL MATRİSLİ KOMPOZİTLERİN KOROZYON DUYARLILIKLARI**
KELEN F., AYDOĞMUŞ T., GAVGALI M., DİKİCİ B.
15th INTERNATIONAL CORROSION SYMPOSIUM (KORSEM'xx18), 26 - 28 September 2018
- VII. **Mg/NiTi metal matrisli kompozitlerin korozyon duyarlılıkları**

- KELEN F., AYDOĞMUŞ T., GAVGALI M., DİKİCİ B.
XVth International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018, pp.19
- VIII. **Mg/NiTi metal matrisli kompozitlerin korozyon duyarlılıkları**
KELEN F., AYDOĞMUŞ T., GAVGALI M., DİKİCİ B.
XVth International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018, pp.19
- IX. **TiNi İLE TAKVİYE EDİLMİŞ MAGNEZYUM MATRİSLİ KOMPOZİTLERİN YÜKSEK SICAKLIK MEKANİK ÖZELLİKLERİ**
KELEN F., AYDOĞMUŞ T., GAVGALI M.
3. INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE AND TECHNOLOGY IN CAPPADOCIA (IMSTEC 2018), 17 - 19 September 2018
- X. **TOZ METALÜRJİSİ YÖNTEMİ İLE ÜRETİLMİŞ TiNi/AZ91D KOMPOZİTLERİNİN ODA SICAKLIĞI VE YÜKSEK SICAKLIK MUKAVEMETLERİ**
AYDOĞMUŞ T., KELEN F., GAVGALI M.
3. INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE AND TECHNOLOGY IN CAPPADOCIA (IMSTEC 2018), 17 - 19 September 2018
- XI. **Renewed Furnace Design for Increasing Heating Rate in Aluminum Matrix Composite Production**
ÖNAL M., GAVGALI M.
International Symposium on Innovative Approaches in Scientific Studie, Antalya, Turkey, 11 - 13 April 2018, pp.189
- XII. **Effect of Cooling Rate Applied to Aluminum Composites on Hardness and Wear Resistance**
ÖNAL M., GAVGALI M.
International Symposium on Innovative Approaches in Scientific Studies, Antalya, Turkey, 11 - 13 April 2018, pp.475
- XIII. **A Review on The Hydrogels Used in 3D Bioprinting**
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- XIV. **TiNi ŞEKİL BELLEKLİ ALAŞIMLARLA TAKVİYE EDİLMİŞ MAGNEZYUM BAZLI KOMPOZİTLERDE FAZ DÖNÜŞÜMLERİ**
KELEN F., AYDOĞMUŞ T., GAVGALI M.
THE INTERNATİNONAL CONFERENCE ON MATERIALS SCİENCE, MECHANİCAL AND AUTOMOTİVE ENİNEERİNGS AND TECHNOLOGY IN ÇEŞME/İZMİR (IMSMATEC'18), 10 - 12 April 2018
- XV. **Alüminyum Kompozit Malzemelerin Otomobil Parçalarında Kullanımı**
ÖNAL M., GAVGALI M.
International Vocational Science Symposium, Antalya, Turkey, 18 - 20 October 2017, pp.105
- XVI. **Determination of Epoxy Resin's Mechanical Properties Reinforced with Nanofibers Obtained from PVP Polymer by Electrospinning Method**
USLU E., GAVGALI M., ERDAL M. O., YAZMAN Ş.
II. International Conference on Advanced Engineering Technologies - ICADET 2017, Bayburt, Turkey, 21 - 23 September 2017, pp.1442
- XVII. **The effect of corrosion on the microstructure of the Al-5Cu matrix composites reinforced with TiC particles**
DİKİCİ B., BEDİR F., GAVGALI M.
European Congress and Exhibition on Advanced Materials and Processes (EUROMAT2017), Thessaloniki, Greece, 17 - 22 September 2017
- XVIII. **Al-Cu Metal Matrisli Kompozitlerin Korozyon Davranışı Üzerine B4C Partikül Hacim Oranı ve Yaşlandırma İşleminin Birleşik Etkisi**
TOZKOPARAN B., DİKİCİ B., BEDİR F., TOPUZ M., GAVGALI M.
2.Uluslararası Savunma Sanayi Sempozyumu, Kırıkkale, Turkey, 6 - 08 April 2017, pp.237-244
- XIX. **Production of Aluminum Metal Matrix Composites with Al₂O₃ and TiC**
ÖNAL M., GAVGALI M.
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(ICCESEN-2016), Antalya, Turkey, 19 - 24 October 2016, pp.478
- XXI. **Synthesis of and Al₂O₃ and TiB₂ Ceramic Particles in Aluminum Matrix**
ÖNAL M., GAVGALI M.
International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), Antalya, Turkey, 19 - 24 October 2016, pp.462
- XXII. **Prediction of Corrosion Behaviour of Particulate Reinforced Metal Matrix Composites by Adaptive Neuro Fuzzy Inference System ANFIS**
TUNTAŞ R., DİKİCİ B., GAVGALI M.
XIV. International Corrosion Symposium (KORSEM'16), Bayburt, Turkey, 5 - 07 October 2016, pp.521-525
- XXIII. **The Investigation Of Corrosion Behavior Of Az91 Magnesium Coated With Micro Arc Oxidation Mao Method**
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- XXIV. **MAGNEZYUM VE ALAŞIMLARININ YÜKSEK SICAKLIK DAYANIMLARINI GELİŞTİRMEDEŞEKİL BELLEKLİ MALZEMELERİN KULLANIMI**
KELEN F., AYDOĞMUŞ T., GAVGALI M.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'16), April 6-8, 2016, Nevşehir, Turkey, 6 - 08 April 2016, pp.538-543
- XXV. **IN SITU ALÜMİNYUM MATRİSLİ KOMPOZİTLERİN FARKLI PARAMETRELERLE ÜRETİMİ**
ÖNAL M., GAVGALI M.
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- XXVI. **YÜKSEK TAKVİYE ORANINA SAHİP Al Cu B₄C METAL MATRİSLİ KOMPOZİTLERİN ÜRETİMİ VE KOROZYON DAVRANIŞI**
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MÜHENDİSLİKTE YENİ TEKNOLOJİLER 15, Bayburt, Turkey, 22 - 24 October 2015, pp.50
- XXVII. **Production of Metal Matrix Composites by In situ Techniques**
ÖNAL M., GAVGALI M.
2nd Global Conference on Materials Sciences, Nicosia, 15 - 17 October 2015
- XXVIII. **Deney Parametrelerinin Alüminyum Metal Matrisli Kompozitlerin Üretimi Üzerine Etkileri**
ÖNAL M., GAVGALI M.
IMCOFE'15 : International Multidisciplinary Congress of Eurasia, ÜSKÜP, 1 - 05 September 2015, pp.256-261
- XXIX. **Production, characterization, and mechanical behavior of Al based metal matrix composites incorporating TiC particles**
DİKİCİ B., BEDİR F., GAVGALI M.
17th International Conference on the Strength of Materials (ICSMA-17), Brno, Czech Republic, 9 - 14 August 2015, pp.43
- XXX. **Production characterization and mechanical behavior of Al based metal matrix composites incorporating TiC particles**
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- XXXI. **In-Situ Al/TiC Nanocomposites: The Effect of Sintering Temperature on the Corrosion Behavior**
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- XXXII. **In-Situ Al/TiC Nanocomposites: The Effect of Sintering Temperature on the Corrosion Behavior**
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- XXXIII. **The effect of sintering time on the corrosion behavior of in-situ Al-Cu/Al₂O₃ nanocomposites**
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The 10th National Conference on Nanoscience and Nanotechnology (NanoTR-10), İstanbul, Turkey, 17 - 21 June 2014, pp.43
- XXXV. **What Are the Harmful Effects of Corrosion?**
DİKİCİ B., GAVGALI M.
International Environmental Sciences Symposium of Van (IESSV14), Van, Turkey, 4 - 07 June 2014, pp.43
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Metrics

Publication: 131

Citation (WoS): 422

Citation (Scopus): 537

H-Index (WoS): 14

H-Index (Scopus): 14