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Kişisel Bilgiler

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Yönetilen Tezler

- YILDIRIM R. O., Hypervelocity jet interaction with lightweight flyer plates, Doktora, T.DENİZ(Öğrenci), 2022
- YILDIRIM R. O., Design of a frangible composite cover for missile launch tube, Yüksek Lisans, O.AKKAŞ(Öğrenci), 2018
- Dal H., Yıldırım R. O., Dynamic fracture of explosive bolt, Yüksek Lisans, B.GÖKÇE(Öğrenci), 2018
- YILDIRIM R. O., Investigation of layered-spaced and oblique mild steel targets against 7.62 mm AP projectile, Yüksek Lisans, M.ÇAKIR(Öğrenci), 2017
- YILDIRIM R. O., Investigation of dynamic behavior of aluminum alloy armor materials, Doktora, M.MACAR(Öğrenci), 2014
- YILDIRIM R. O., INVESTIGATION ON PARAMETERS AFFECTING FORMATION AND PENETRATION OF EXPLOSIVELY FORMED PENETRATOR (EFP), Doktora, Ç.GÖRKEM(Öğrenci), 2012
- YILDIRIM R. O., Germanyum üzerindeki yağmur erozyonunun sonlu elemanlar yöntemi kullanılarak incelenmesi, Yüksek Lisans, H.Anıl(Öğrenci), 2011
- YILDIRIM R. O., Sertleştirilmiş çelik plakların balistik penetrasyonu, Yüksek Lisans, T.Deniz(Öğrenci), 2011
- YILDIRIM R. O., ST-37 çeliğinin eğik çarpma koşullarında delinmesinin sayısal ve deneysel yöntemlerle incelenmesi, Yüksek Lisans, G.Öztürk(Öğrenci), 2010
- ÖGEL B., YILDIRIM R. O., Effect of aging on the mechanical properties of boron carbide particle reinforced aluminum metal matrix composites, Doktora, M.SERDAR(Öğrenci), 2007
- YILDIRIM R. O., Mechanical energy absorbtion using tube inversion., Doktora, A.Mürteza(Öğrenci), 1996

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Effect of material properties on interaction of ceramic and glass flyer plates with hypervelocity jet**
Deniz T., YILDIRIM R. O.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, cilt.19, sa.4, ss.2259-2275, 2022 (SCI-Expanded)
- II. **The ballistic performance of SiC-AA7075 functionally graded composite produced by powder metallurgy**
ÜBEYLİ M., BALCI E., Sarıkan B., ÖZTAŞ M. O., CAMUŞCU N., YILDIRIM R. O., KELEŞ Ö.
MATERIALS & DESIGN, cilt.56, ss.31-36, 2014 (SCI-Expanded)
- III. **On the ballistic performance of the AA7075 based functionally graded material with boron carbide reinforcement**
Balci E., Sarıkan B., ÜBEYLİ M., CAMUŞCU N., YILDIRIM R. O.
KOVVOVE MATERIALY-METALLIC MATERIALS, cilt.51, sa.4, ss.257-262, 2013 (SCI-Expanded)
- IV. **Investigation on the ballistic performance of a dual phase steel against 7.62 mm AP projectile**
Ubeyli M., DEMİR T., Deniz H., YILDIRIM R. O., KELEŞ Ö.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.527, ss.2036-2044, 2010 (SCI-Expanded)
- V. **Effect of Hardness on the Ballistic Impact Behavior of High-Strength Steels Against 7.62-mm Armor Piercing Projectiles**

- DEMİR T., Ubeyli M., YILDIRIM R. O.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, cilt.18, sa.2, ss.145-153, 2009 (SCI-Expanded)
- VI. **Response of Alumina/4340 Steel Laminated Composites against the Impact of 7.62 mm Armor Piercing Projectiles**
DEMİR T., Ubeyli M., YILDIRIM R. O., Karakas M. S.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, cilt.16, sa.2, ss.89-98, 2009 (SCI-Expanded)
- VII. **Effect of heat treatment on the formation of adiabatic shear bands in high strength steels impacted by AP projectiles**
Ubeyli M., DEMİR T., YILDIRIM R. O., Aycan M. F.
KOVOVE MATERIALY-METALLIC MATERIALS, cilt.47, sa.6, ss.409-413, 2009 (SCI-Expanded)
- VIII. **Investigation on the ballistic impact behavior of various alloys against 7.62 mm armor piercing projectile**
DEMİR T., Ubeyli M., YILDIRIM R. O.
MATERIALS & DESIGN, cilt.29, sa.10, ss.2009-2016, 2008 (SCI-Expanded)
- IX. **Investigation on the ballistic behavior of Al(2)O(3)/Al2O24 laminated composites**
Ubeyli M., YILDIRIM R. O., ÖGEL B.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, cilt.196, ss.356-364, 2008 (SCI-Expanded)
- X. **On the comparison of the ballistic performance of steel and laminated composite armors**
Ubeyli M., Yildirim R. O., Ogel B.
MATERIALS & DESIGN, cilt.28, sa.4, ss.1257-1262, 2007 (SCI-Expanded)
- XI. **On the drop-weight testing of alumina/aluminum laminated composites**
Ubeyli M., Yildirim R., Ogel B.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, cilt.30, ss.673-686, 2005 (SCI-Expanded)
- XII. **LONGITUDINAL ELASTIC-WAVE PROPAGATION AND ENERGY FLUX AT A DISCONTINUITY OF 2 DISSIMILAR SEMIINFINITE CIRCULAR RODS**
YILDIRIM R.
JSME INTERNATIONAL JOURNAL SERIES A-MECHANICS AND MATERIAL ENGINEERING, cilt.37, sa.4, ss.495-501, 1994 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **BALLISTIC PENETRATION OF HARDENED STEEL PLATES**
Deniz T., YILDIRIM R. O.
27th International Symposium on Ballistics (ISB), Freiburg, Almanya, 22 - 26 Nisan 2013, ss.1390-1401
- II. **DETRIMENTAL EFFECTS OF FLEXIBLE LINEAR SHAPED CHARGE (FLSC) TO NEARBY PLATES DUE TO VARYING BACKSPACE DISTANCE**
Bingol C. G., Yildirim R. O.
26th International Symposium on Ballistics, Florida, Amerika Birleşik Devletleri, 12 - 16 Eylül 2011, ss.1553-1564
- III. **Investigation of the effect of thickness and radius of curvature on explosively formed penetrator (efp) formation**
Bingol C., YILDIRIM R. O.
25th International Symposium on Ballistics, ISB 2010, Beijing, Çin, 16 - 22 Mayıs 2010, ss.821-828
- IV. **Analytical solution and experimental verification of shaped charge jet penetration**
Gozubuyuk S., Yildirim R. O.
8th Biennial Conference on Engineering Systems Design and Analysis, Turin, İtalya, 4 - 07 Temmuz 2006, ss.419-425

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Akademi Dışı Deneyim

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