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Advising Theses

- YILDIRIM R. O., Hypervelocity jet interaction with lightweight flyer plates, Doctorate, T.DENİZ(Student), 2022
- YILDIRIM R. O., Design of a frangible composite cover for missile launch tube, Postgraduate, O.AKKAŞ(Student), 2018
- Dal H., Yıldırım R. O., Dynamic fracture of explosive bolt, Postgraduate, B.GÖKÇE(Student), 2018
- YILDIRIM R. O., Investigation of layered-spaced and oblique mild steel targets against 7.62 mm AP projectile, Postgraduate, M.ÇAKIR(Student), 2017
- YILDIRIM R. O., Investigation of dynamic behavior of aluminum alloy armor materials /, Doctorate, M.MACAR(Student), 2014
- YILDIRIM R. O., INVESTIGATION ON PARAMETERS AFFECTING FORMATION AND PENETRATION OF EXPLOSIVELY FORMED PENETRATOR (EFP), Doctorate, Ç.GÖRKEM(Student), 2012
- YILDIRIM R. O., Investigation of rain erosion on germanium by using finite element method, Postgraduate, H.Anıl(Student), 2011
- YILDIRIM R. O., Ballistic penetration of hardened steel plates, Postgraduate, T.Deniz(Student), 2011
- YILDIRIM R. O., Numerical and experimental investigation of perforation of st-37 steel plates by oblique impact, Postgraduate, G.Öztürk(Student), 2010
- ÖGEL B., YILDIRIM R. O., Effect of aging on the mechanical properties of boron carbide particle reinforced aluminum metal matrix composites, Doctorate, M.SERDAR(Student), 2007
- YILDIRIM R. O., Mechanical energy absorbtion using tube inversion., Doctorate, A.Mürteza(Student), 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.19, no.4, pp.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, vol.56, pp.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.
KOVOLVE MATERIALY-METALLIC MATERIALS, vol.51, no.4, pp.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, vol.527, pp.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, vol.18, no.2, pp.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, vol.16, no.2, pp.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.
KOVOLVE MATERIALY-METALLIC MATERIALS, vol.47, no.6, pp.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, vol.29, no.10, pp.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, vol.196, pp.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, vol.28, no.4, pp.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, vol.30, pp.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, vol.37, no.4, pp.495-501, 1994 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **BALLISTIC PENETRATION OF HARDENED STEEL PLATES**
Deniz T., YILDIRIM R. O.
27th International Symposium on Ballistics (ISB), Freiburg, Germany, 22 - 26 April 2013, pp.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, United States Of America, 12 - 16 September 2011, pp.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, China, 16 - 22 May 2010, pp.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, Italy, 4 - 07 July 2006, pp.419-425

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Publication: 18

Citation (WoS): 303

Citation (Scopus): 231

H-Index (WoS): 7

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Non Academic Experience

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