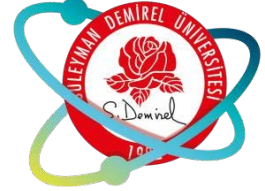




SÜLEYMAN DEMİREL
ÜNİVERSİTESİ
JEOFİZİK MÜHENDİSLİĞİ
FAALİYET RAPORU



YIL: 2021

GENEL BİLGİLER

BİRİM ADI

JEOFİZİK MÜHENDİSLİĞİ

FAALİYETLERE İLİŞKİN BİLGİ VE
DEĞERLENDİRMELER

BİRİM TARAFINDAN SUNULAN
HİZMETLER

YIL İÇİNDE ARAŞTIRMA
BİRİMLERİ
TARAFINDAN
GERÇEKLEŞTİRİLEN
ETKİNLİKLER

YIL İÇİNDE
GERÇEKLEŞTİRİLEN
FAALİYETLER

BİRİM TARAFINDAN YÜRÜTÜLEN
FAALİYETLERİN YEREL –
BÖLGESEL VE
ULUSAL HEDEFLERLE İLİŞKİSİ

BİRİM TARAFINDAN YÜRÜTÜLEN
TOPLUMSAL KATKIYA YÖNELİK
ÇALIŞMALAR

YIL İÇİNDE BİRİM TARAFINDAN
YÜRÜTÜLEN ARAŞTIRMA
PROJELERİ

FAALİYETLERE İLİŞKİN
BİLGİ VE
DEĞERLENDİRMELER

ORTAK ARAŞTIRMA YAPILAN
BİRİMLER

BİRİM TARAFINDAN YÜRÜTÜLEN
ULUSLARARASI İŞBİRLİĞİ
ÇALIŞMALARINI

Andhra University (Andhra Pradesh, INDIA) ile Uluslararası Jüri İşbirliği kapsamında Doktora Tez İnceleme ve Raporlama faaliyetleri

ÜNİVERSİTE
LABORATUVARLARINDA
AR-GE İNOVASYON VE ÜRÜN
GELİŞTİRME KAPSAMINDA
SUNULAN
HİZMET SAYISI

ÜNİVERSİTE
LABORATUVARLARINDA
AR-GE İNOVASYON VE ÜRÜN
GELİŞTİRME KAPSAMINDA
SUNULAN HİZMETLERDEN
ELDE EDİLEN GELİR

İNDEKSLERE GİREN
HAKEMLİ DERGİLERDE
YAPILAN YAYIN SAYISI

8 adet Yayın, 2 adet Uluslar Arası Kitap ve Kitap Bölümü

- Ahmed M. Eldosouky, Luan Thanh Pham, Reda A. Y. El-Qassas, Zakaria Hamimi, Erdinc Oksum, 2021. The Geology of the Arabian-Nubian Shield: Bölüm Adı:Lithospheric Structure of the Arabian– Nubian Shield Using Satellite Potential Field Data. Pages 139-151. ISBN: 978-3-030-72995-0

	<ul style="list-style-type: none"> • Öksüm, E. , Dolmaz, M. N. , Demir, M. & Pham, L. (2021). Zımpara taşı içeren cevher alanına ait manyetik verilerin sınır analizi yöntemleri ile değerlendirilmesi: Muğla, Türkiye örneği. Mühendislik Bilimleri ve Tasarım Dergisi , 9 (1) , 319-329 . https://doi.org/10.21923/jesd.796074 • Yılmaz, S. & Yıldırım, E. (2021). EMİRDAĞ-KARAAĞAÇ yeraltı suyu potansiyelinin elektrik öz direnç yöntemleri ile araştırılması . Mühendislik Bilimleri ve Tasarım Dergisi , 9 (4) , 1267-1275 . https://doi.org/10.21923/jesd.929474 • Yılmaz, S., Okyar, M. & Gurbuz, M. Electrical resistivity imaging for investigation of seepage paths in the Yukari Gökdere Dam, Isparta, Turkey. Bull Eng Geol Environ 80, 115–125 (2021). https://doi.org/10.1007/s10064-020-01952-2 • Erbek Kıran, E. & Dolmaz, M. N. (2021). Ağaören/Aksaray Bölgesindeki Jeolojik Yapıların Jeofizik (Manyetik) Yorumu . Avrupa Bilim ve Teknoloji Dergisi , Ejosat Özel Sayı 2021 (ICAENS) , 1039-1043. https://doi.org/10.31590/ejosat.1012554 • Erbek Kıran, E. (2021). Investigation of the structural trends through aeromagnetic data for the Central Anatolian Crystalline Complex (Kırşehir Block), Turkey . Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi , 8 (15) , 498-507 . https://doi.org/10.54365/adyumbd.997085 • Şakir Şahin. Afet ve Acil Durumlarda İnsan Sağlığı ve Güvenliği. Nobel Akademik Yayıncılık, ISBN: 9786254172724 • Uyanık, O. , Ekin, N. & Çoşkun, O. (2021). Zemin ve Deprem Parametrelerinden İvme Azalımı İlişkisi . Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi , 23 (68) , 575-593 . https://doi.org/10.21205/deufmd.2021236820
WOS' DA İNDEKLENEN YAYIN SAYISI	<p>20 adet WOS Yayın</p> <ul style="list-style-type: none"> • Oksum E, 2021. Grav3CH_inv: A GUI-based MATLAB code for estimating the 3-D basement depth structure of sedimentary basins with vertical and horizontal density variation: COMPUTERS & GEOSCIENCES, Volume155, Article Number104856, https://doi.org/10.1016/j.cageo.2021.104856 • Pham LT , Oksum E, Vu MD, Vo QT, Khuong DLV, Eldosouky AM, 2021. An improved approach for detecting ridge locations to interpret the potential field data for more accurate structural mapping: A case study from Vredefort dome area (South Africa): JOURNAL OF AFRICAN EARTH SCIENCES 175, 104099 https://doi.org/10.1016/j.jafrearsci.2020.104099 • Pham, LT ; Kafadar, O; Oksum, E; Eldosouky, AM. 2021. An improved approach for detecting the locations of the maxima in interpreting potential field data: ARABIAN JOURNAL OF GEOSCIENCES, Volume14, Issue 1, Article Number 43 https://doi.org/10.1007/s12517-020-06399-z • Pham, L.T., Oksum, E., Do, T.D. et al., 2021. On the performance of phase-based filters for enhancing lateral boundaries of magnetic and gravity sources: a case study of the Seattle uplift. Arab J Geosci 14, 129, https://doi.org/10.1007/s12517-021-06511-x • Oksum, E; Le, DV; Vu, MD; Nguyen, THT; Pham, LT, 2021. A novel approach based on the fast sigmoid function for interpretation of potential field data. BOLLETTINO DI GEOFISICA TEORICA ED APPLICATA. https://doi.org/10.4430/bgta0348 • Pham L. , Oksum E. , Do T. D. , Vu M. D. Comparison of

different approaches of computing the tilt angle of the total horizontal gradient and tilt angle of the analytic signal amplitude for detecting source edges. Bull.Min.Res.Exp.. 2021; 165(165): 53-

62. <https://doi.org/10.19111/bulletinofmre.746858>

- Şahin Ş. , Öksüm E. The relation of seismic velocity and attenuation pattern in the East Anatolian fault zone with earthquake occurrence: Example of January 24, 2020 Sivrice earthquake. Bull.Min.Res.Exp.. 2021; 165(165): 141-161. <https://doi.org/10.19111/bulletinofmre.824032>
- Pham, L. ., Oksum, E. ., & Dolmaz, M. . (2021). GRV_D_inv: A graphical user interface for 3D forward and inverse modeling of gravity data. Geofizicheskiy Zhurnal, 43(1), 181–193. <https://doi.org/10.24028/gzh.0203-3100.v43i1.2021.225546>
- Erbek Kiran, E., Ates, A. & Dolmaz, M.N. Upper crustal structure of the Marmara region, northwest Turkey from aeromagnetic anomalies: western segment of the North Anatolian Fault. Mar Geophys Res 42, 29 (2021). <https://doi.org/10.1007/s11001-021-09450-0>
- Funda Bilim, Attila Aydemir, Abdullah Ateş, M. Nuri Dolmaz, Sinan Koşaroğlu, Ezgi Erbek. Crustal thickness in the Black Sea and surrounding region, estimated from the gravity data Mar. Pet. Geol., 123 (2021), Article 104735, 10.1016/j.marpetgeo.2020.104735. <https://doi.org/10.1016/j.marpetgeo.2020.104735>
- Erbek, E. 2021. An investigation on the structures and the basement depth estimation in the western Anatolia, Turkey using aeromagnetic data. Geosciences Journal 25(6). <https://doi.org/10.1007/s12303-021-0001-y>
- Balkaya, Ç., Kaftan, I. Inverse modelling via differential search algorithm for interpreting magnetic anomalies caused by 2D dyke-shaped bodies. J Earth Syst Sci 130, 135 (2021). <https://doi.org/10.1007/s12040-021-01614-1>
- Ekinci, Y.L., Balkaya, Ç. & Göktürkler, G. Backtracking Search Optimization: A Novel Global Optimization Algorithm for the Inversion of Gravity Anomalies. Pure Appl. Geophys. 178, 4507–4527 (2021). <https://doi.org/10.1007/s00024-021-02855-3>
- Karabulut, S., Cengiz, M., Balkaya, Ç., & Aysal, N. (2021). Spatio-temporal variation of seawater intrusion (SWI) inferred from geophysical methods as an ecological indicator; a case study from Dikili, NW İzmir, Turkey. Journal of Applied Geophysics, 189, 104318. <https://doi.org/10.1016/j.jappgeo.2021.104318>
- Balkaya et al., 2021 Ç. Balkaya, Y.L. Ekinci, O. Çakmak, M. Blömer, J. Arnkens, M.A. Kaya A challenging archaeo-geophysical exploration through GPR and ERT surveys on the Keber Tepe, City Hill of Doliche, Commagene (Gaziantep, SE Turkey) J. Appl. Geophys., 186 (2021), p. 104272, <https://doi.org/10.1016/j.jappgeo.2021.104272>
- Yunus Levent Ekinci, Çağlayan Balkaya, Gökhan Göktürkler, Şenol Özyalın, Gravity data inversion for the basement relief delineation through global optimization: a case study from the Aegean Graben System, western Anatolia, Turkey, Geophysical Journal International, Volume 224, Issue 2, February 2021, Pages 923–944, <https://doi.org/10.1093/gji/ggaa492>
- Ekin N, Uyanık O, 2021. Anisotropy of reinforced concrete from geophysical methods. Science of Sintering, Volume 53, Issue 3, Pages: 323-345, <https://doi.org/10.2298/SOS2103323E>

	<ul style="list-style-type: none"> Ekin N, 2021. Relationship between amplitude anisotropy and compressive strength of reinforced concrete depending on curing conditions. Indian Journal of Engineering and Materials Sciences, Vol 28, No 3. 286-299. https://doi.org/ Ekin N, 2021. Concrete anisotropy estimated from ultrasonic signal amplitudes. Materials Testing. Materials Testing, vol. 63, no. 12, 2021, pp. 1164-1173. https://doi.org/10.1515/mt-2021-0053 Ekin, N., Uyanik, O. Comparison of Static and Dynamic Elastic Moduli in Concrete: Effects of Compressive Strength, Curing Conditions and Reinforcement. Iran J Sci Technol Trans Civ Eng 45, 2327–2343 (2021). https://doi.org/10.1007/s40996-020-00513-7
İNDEKSLERDE YER ALAN SÜLEYMAN DEMİREL ÜNİVERSİTESİ ADRESLİ YAYIN SAYISI	28 adet (2021 yılı için)
ALINAN ÖDÜLLER	Ödülün adı ve niteliği verilmelidir

BİRİM TARAFINDAN BAŞVURULAN PATENT / FAYDALI MODEL / MARKA BAŞVURU SAYISI	
SEMPOZYUMA/KONGREYE/KON FERANSA SUNULAN BİLDİRİ SAYISI	1 Adet Bildiri <ul style="list-style-type: none"> Isparta Bölgesinin (GB Anadolu, Türkiye) Yeraltı yapılarının Havadan Manyetik Verilerle İncelenmesi. 1st International Conference on Applied Engineering and Natural Sciences. Tam metin Bildiri/Sözlü Sunum. Ezgi Erbek, 2021.

