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Education Information

Postgraduate, Gumushane University, Turkey 2020 - Continues

Undergraduate, Anadolu University, İktisat Fakültesi, Uluslararası İlişkiler Bölümü, Turkey 2017 - 2020

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Turkey 1999 - 2005

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Turkey 1992 - 1999

Undergraduate, Ankara University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1988 - 1992

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Bayramiç (Çanakkale) ve çevresindeki altın zenginleşmelerinin araştırılması, Ankara University, Fen Bilimleri Enstitüsü, 2007

Postgraduate, Güneyköy ve çevresi (Eşme-Uşak) arsenopirit cevherleşmelerinin maden jeolojisi, Ankara University, Fen Bilimleri Enstitüsü, 1999

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Gumushane University, Faculty Of Engineering And Natural Sciences, Department Of Geological Engineering, 2017 - Continues

Assistant Professor, Gumushane University, Faculty Of Engineering And Natural Sciences, Department Of Geological Engineering, 2010 - 2017

Academic and Administrative Experience

Head of Department, Gumushane University, 2010 - 2016

Head of Department, Gumushane University, 2010 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Trace element accumulation behavior, ability, and propensity of *Taraxacum officinale* FH Wigg (Dandelion)**
VURAL A.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, no.11, pp.16667-16684, 2024 (SCI-Expanded)
- II. **U–Pb zircon dating, Sr–Nd whole-rock and Lu–Hf zircon isotope analyses of the Eocene Arslandede pluton, Eastern Pontides, NE Turkey: Implications for mantle source and magma evolution**
Kaygusuz A., Güloğlu Z. S., Aydınçakır E., Yücel C., VURAL A., Siebel W., Jeong Y.
Geochemistry, 2024 (SCI-Expanded)
- III. **Phytoremediation ability of *Helichrysum arenarium* plant for Au and Ag: case study at Demiroren village (Gumushane, Turkey)**
Vural A., Safari S.
GOLD BULLETIN, vol.55, no.2, pp.129-136, 2022 (SCI-Expanded)
- IV. **Eocene magmatism and associated Fe–Cu mineralization in northeastern Turkey: a case study of the Karadag skarn**
Sipahi F., Saydam Eker C., Akpınar I., Gucer M. A., Vural A., Kaygusuz A., Aydurmus T.
INTERNATIONAL GEOLOGY REVIEW, vol.64, no.11, pp.1530-1555, 2022 (SCI-Expanded)
- V. **Mineralogical and Chemical Characteristics of Clay Areas, Gumushane Region (NE Turkey), and Their Detection Using the Crosta Technique with Landsat 7 and 8 Images**
Vural A., Akpınar I., Sipahi F.
NATURAL RESOURCES RESEARCH, vol.30, no.6, pp.3955-3985, 2021 (SCI-Expanded)
- VI. **Geochronology, petrogenesis and tectonic importance of Eocene I-type magmatism in the Eastern Pontides, NE Turkey**
Vural A., Kaygusuz A.
Arabian Journal of Geosciences, vol.14, no.6, 2021 (SCI-Expanded)
- VII. **Investigation of the relationship between rare earth elements, trace elements, and major oxides in soil geochemistry**
Vural A.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.2, 2020 (SCI-Expanded)
- VIII. **Effect of antimonite mineralization area on heavy metal contents and geochemical fractions of agricultural soils in Gumushane Province, Turkey**
SUNGUR A., Vural A., Gundogdu A., SOYLAK M.
CATENA, vol.184, 2020 (SCI-Expanded)
- IX. **Relationship between the geological environment and element accumulation capacity of *Helichrysum arenarium***
Vural A.
ARABIAN JOURNAL OF GEOSCIENCES, vol.11, no.11, 2018 (SCI-Expanded)
- X. **Late Cretaceous arc igneous activity: the Erikar Monzogranite example**
Sipahi F., Kaygusuz A., Eker C. S., Vural A., Akpınar I.
INTERNATIONAL GEOLOGY REVIEW, vol.60, no.3, pp.382-400, 2018 (SCI-Expanded)
- XI. **Remote Sensing Technique for Capturing and Exploration of Mineral Deposit Sites in Gumushane Metallogenic Province, NE Turkey**
Vural A., Corumluoglu O., Asri I.
JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA, vol.90, no.5, pp.628-633, 2017 (SCI-Expanded)

- XII. **Formation of the Egrikar (Gumushane) Fe-Cu skarn type mineralization in NE Turkey: U-Pb zircon age, lithogeochemistry, mineral chemistry, fluid inclusion, and O-H-C-S isotopic compositions**
Sipahi F., Akpınar I., Eker C. S., Kaygusuz A., Vural A., Yılmaz M.
JOURNAL OF GEOCHEMICAL EXPLORATION, vol.182, pp.32-52, 2017 (SCI-Expanded)
- XIII. **Gold and Silver Content of Plant *Helichrysum Arenarium*, Popularly Known as the Golden Flower, Growing in Gumushane, NE Turkey**
Vural A.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.978-980, 2017 (SCI-Expanded)
- XIV. **K-Ar Dating for Determining the Age of Mineralization as Alteration Product: A Case Study of Antimony Mineralization Vein Type in Granitic Rocks of Gumushane Area, Turkey**
Vural A.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.792-795, 2017 (SCI-Expanded)
- XV. **Environmental impact of Gumushane City, Turkey, waste area in terms of heavy metal pollution**
Vural A., Gundogdu A., Akpınar I., Baltacı C.
NATURAL HAZARDS, vol.88, no.2, pp.867-890, 2017 (SCI-Expanded)
- XVI. **Assessment of Sessile Oak (*Quercus petraea* L.) Leaf as Bioindicator for Exploration Geochemistry**
Vural A.
ACTA PHYSICA POLONICA A, vol.130, no.1, pp.191-193, 2016 (SCI-Expanded)
- XVII. **Investigation of pozzolanic activity of volcanic rocks from the northeast of the Black Sea**
Cullu M., Bolat H., Vural A., Tuncer E.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.23, no.3, pp.315-323, 2016 (SCI-Expanded)
- XVIII. **Determination of Kula basalts (geosite) in Turkey using remote sensing techniques**
Corumluoglu O., Vural A., Asri I.
ARABIAN JOURNAL OF GEOSCIENCES, vol.8, no.11, pp.10105-10117, 2015 (SCI-Expanded)
- XIX. **Contamination assessment of heavy metals associated with an alteration area: Demiroren Gumushane, NE Turkey**
Vural A.
JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA, vol.86, no.2, pp.215-222, 2015 (SCI-Expanded)
- XX. **Biogeochemical characteristics of *Rosa canina* grown in hydrothermally contaminated soils of the Gumushane Province, Northeast Turkey**
Vural A.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, no.8, 2015 (SCI-Expanded)
- XXI. **Assessment of metal pollution associated with an alteration area: Old Gumushane, NE Black Sea**
Vural A.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, no.5, pp.3219-3228, 2015 (SCI-Expanded)
- XXII. **Assessment of Heavy Metal Accumulation in the Roadside Soil and Plants of *Robinia pseudoacacia*, in Gumushane, Northeastern Turkey**
Vural A.
EKOLOJİ, vol.22, no.89, pp.1-10, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Geochemical evaluation of the genetic relationship of Kısacık (Ayvacık, Çanakkale/Türkiye) epithermal gold mineralization using trace and rare earth elements**
VURAL A.
Turkish Journal of Analytical Chemistry (Online), vol.5, no.2, pp.124-136, 2023 (Peer-Reviewed Journal)
- II. **Investigation of the Natural and Artificial Radioactivity Levels in the Demirkaynak (Koza) Gold Mine Area (Gumushane, Türkiye) from the Perspectives of Environmental Geochemistry and Medical Geology**
VURAL A., KAYA A.

- Journal of Engineering Research and Applied Science, vol.12, no.2, pp.2401-2413, 2023 (Peer-Reviewed Journal)
- III. **Assessment of Karamustafa Gold-Bearing Zn-Pb Mine (Gümüşhane, Türkiye) Area in Terms of Natural and Artificial Radioactivity**
VURAL A., KAYA A.
Göbeklitepe Sağlık Bilimleri Dergisi, vol.6, no.14, pp.39-52, 2023 (Peer-Reviewed Journal)
- IV. **On the Usage of Boron Mines as Digital Money/Investment Tool**
VURAL A.
Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences, vol.10, no.31, pp.19-36, 2023 (Peer-Reviewed Journal)
- V. **Jeotektonik Süreçler, Deprem Ve Maden Yatakları: Kuzey Anadolu Fay Zonu**
VURAL A., KIRAT G.
Mus Alparslan Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.91-98, 2023 (Peer-Reviewed Journal)
- VI. **Yeraltı Yapılarının Sismik Hasar Görebilirliği ve İyileştirme Stratejileri: Kahramanmaraş Tünelleri Üzerine Bir Örnek Çalışma**
KÜLEKÇİ G., VURAL A.
International Journal of Advanced Natural Sciences and Engineering Researches, vol.7, no.10, pp.12-17, 2023 (Peer-Reviewed Journal)
- VII. **On the elemental contents of aspen (Populus tremula L.) leaves grown in the mineralization area**
VURAL A.
Journal of Geography and Cartography (EnPress Publisher), vol.6, no.1, pp.2192, 2023 (Peer-Reviewed Journal)
- VIII. **An evaluation of elemental enrichment in rocks: In the case of Kısacık and its neighborhood (Ayvacık, Çanakkale/Türkiye)**
VURAL A.
Journal of Geography and Cartography, vol.6, no.1, pp.1850, 2023 (Peer-Reviewed Journal)
- IX. **Avliyana Cevherleşme/Alterasyon Sahasının Kütle Değişim Özellikleri ve Asit Maden Drenaj Potansiyelinin Araştırılması**
VURAL A.
Icontech International Journal of Surveys, Engineering, Technology, vol.6, no.4, pp.1-23, 2022 (Peer-Reviewed Journal)
- X. **Hidrotermal Alterasyona Bağlı Element Kirliliği: Canca (Gümüşhane-Türkiye)**
VURAL A.
Journal of Investigations on Engineering and Technology, vol.5, no.2, pp.87-103, 2022 (Peer-Reviewed Journal)
- XI. **Isıl İşleme Maruz Kalmış Bazı Maden Cürufurlarının Puzzolanik Özelliklerinin Araştırılması**
KÜLEKÇİ G., VURAL A., AKSÜT Y. S.
Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences, vol.9, no.25, pp.71-87, 2022 (Peer-Reviewed Journal)
- XII. **Yenilenebilir ve Nükleer Enerji Kaynaklarının Retrospektif Değerlendirilmesi**
VURAL A., URAL M. N., ÇİFTÇİ A.
Journal of Investigations on Engineering and Technology, vol.5, no.2, pp.115-134, 2022 (Peer-Reviewed Journal)
- XIII. **Heavy Metal Pollution from Listvenitization: In Case of Alakeçi (Bayramiç-Çanakkale/West Türkiye)**
VURAL A.
Turkish Journal of Analytical Chemistry (Online), vol.4, no.2, pp.94-102, 2022 (Peer-Reviewed Journal)
- XIV. **Evaluation of Gümüştuğ Antimonite (Torul, Gümüşhane/Türkiye) Mineralization with Soil Geochemistry and Multivariate Geostatistical Studies**
VURAL A., ÇİÇEK B.
JOURNAL OF ENGINEERING RESEARCH AND APPLIED SCIENCE, vol.11, no.2, pp.2222, 2022 (Peer-Reviewed Journal)
- XV. **Analysis of Energy Raw Material Coal, Industrialization and Industrial Revolution Phenomena with N-gram**
VURAL A., URAL M. N., ÇİFTÇİ A.
Journal of Investigations on Engineering & Technology, vol.5, no.1, pp.1-20, 2022 (Peer-Reviewed Journal)

- XVI. **The Heavy Metals and Minor Elements Effects of Mineralization and Alteration Areas with Buried Ore Deposits Potential on the Surface Waters**
VURAL A., GÜNDOĞDU A., SAKA F., BULUT V. N., SOYLAK M., ALEMDAĞ S.
Journal of Investigations on Engineering & Technology, vol.5, no.1, pp.21-33, 2022 (Peer-Reviewed Journal)
- XVII. **Geochemical investigation of the potability of surface water in Çit River and related creeks in Avliyana Basin (Gümüşhane, NE Turkey)**
VURAL A., GÜNDOĞDU A., SAKA F., BULUT V. N., SOYLAK M.
Turkish Journal of Analytical Chemistry (Online), vol.4, no.1, pp.44-51, 2022 (Peer-Reviewed Journal)
- XVIII. **The Risk of Exposure to Natural Radiations Induced Hydrothermal Alteration Sites: Case of Canca Site (Gümüşhane, Türkiye)**
VURAL A.
Göbeklitepe International Journal of Medical Sciences, vol.5, no.7, pp.14-22, 2022 (Peer-Reviewed Journal)
- XIX. **Assessment of Excavability Classification in A Limestone Quarry: A Case Study from Bayburt, Türkiye**
KÜLEKÇİ G., VURAL A., Aliyazıcıoğlu Ş.
IRANIAN JOURNAL OF EARTH SCIENCES, vol.14, no.4, pp.241-251, 2022 (ESCI)
- XX. **Assessment of excavability classification in a Limestone Quarry: A case study from Bayburt, Turkey**
Külekçi G., Vural A., Aliyazıcıoğlu Ş.
Iranian Journal of Earth Sciences, vol.14, no.4, pp.241-251, 2022 (ESCI)
- XXI. **Zenginleştirilmiş Jeoturizm Güzergahı:Gümüşhane-Bahçecik Köyü (Enriched Geotourism Route: Gümüşhane-Bahçecik Village)**
VURAL A., KÜLEKÇİ G.
Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences, vol.8, no.19, pp.1-23, 2021 (Peer-Reviewed Journal)
- XXII. **Petrological characteristics of late Cretaceous volcanic rocks of Demirören (Gümüşhane, NE Turkey) region**
VURAL A., KAYGUSUZ A., AKPINAR İ.
Journal of Engineering Research and Applied Science, vol.10, no.2, pp.1828-1842, 2021 (Peer-Reviewed Journal)
- XXIII. **Arzular-Yitirmez-Dölek (Gümüşhane) Maden/Alterasyon Sahalarındaki Doğal (226Ra, 232Th ve 40K) ve Yapay (137Cs) Radyoaktivitelerine ait İlk Değerlendirmeler (Initial Evaluations of Natural (226Ra, 232Th and 40K) and Artificial (137Cs) Radio Isotope Activities in Arzular-Yitirmez-Dölek (Gümüşhane) Mineralization/Alteration Fields)**
VURAL A., KAYA A.
Euroasia Journal of Mathematics Engineering Natural and Medical Sciences, vol.8, no.18, pp.105-120, 2021 (Peer-Reviewed Journal)
- XXIV. **Eskiköy Maden Sahasının (Gümüşhane, Türkiye) Doğal (226Ra, 232Th ve 40K) ve Yapay (137Cs) Radyoaktivite Bulgularına Ait İlk Değerlendirmeler (Initial Evaluations of Natural (226Ra, 232Th and 40K) and Artificial (137Cs) Radioactivity of Eskiköy Mineralization Area (Gümüşhane, Türkiye)**
VURAL A., KAYA A.
Euroasia Journal of Mathematics Engineering Natural and Medical Sciences, vol.8, no.18, pp.133-150, 2021 (Peer-Reviewed Journal)
- XXV. **Petrological characteristics of Eocene volcanic rocks around Demirören (Gümüşhane, NE Turkey)**
VURAL A., KAYGUSUZ A., AKPINAR İ., SİPAHİ F.
Journal of Engineering Research and Applied Science, vol.10, no.1, pp.1703-1716, 2021 (Peer-Reviewed Journal)
- XXVI. **An Analysis of Some Concepts Related to Environmental Issues and Development by N-Gram**
VURAL A., ÇİFTÇİ A.
Euroasia Journal of Social Sciences and Humanities, vol.8, no.2, pp.18-28, 2021 (Peer-Reviewed Journal)
- XXVII. **Analysis of Raw Material Supply-Demand Relationship Using N-Gram: Chrome Mine Example**
VURAL A., ÇİFTÇİ A.
Euroasia Journal of Social Sciences and Humanities, vol.8, pp.1-9, 2021 (Peer-Reviewed Journal)
- XXVIII. **Kıymetli Taşlar ve Sömürgecilik: Dijital Veri Materyallerinin Analizi Örneğiyle (Precious Stones and Colonialism: Example of Analysis of Digital Data Materials)**

VURAL A., URAL M. N., ÇİFTÇİ A.

Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences, vol.7, no.13, pp.122-134, 2020
(Peer-Reviewed Journal)

XXIX. Conceptual Analysis of the Change in the Historical Process in Thermal Tourism

URAL M. N., VURAL A., ÇİFTÇİ A.

Journal of International Health Sciences and Management, vol.6, no.12, pp.67-73, 2020 (Peer-Reviewed Journal)

XXX. Demirören/Gümüşhane-Türkiye Kuvars Porfiri Kayacı ve İlişkili Skarn-Metasomatizmanın Jeokimyasal Özellikleri (Geochemical Properties of Demirören/Gümüşhane Quartz Porphyry Rock and Related Skarn- Metasomatism)

VURAL A.

Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences, vol.7, no.13, pp.97-121, 2020
(Peer-Reviewed Journal)

XXXI. High-Fluoride Risk and Toxicity in Surface Waters in Gümüşhane-Gökdere Valley Drainage Network (NE Turkey)

VURAL A., GÜNDOĞDU A.

Journal of Engineering Research and Applied Science, vol.9, no.1, pp.1323-1334, 2020 (Peer-Reviewed Journal)

XXXII. Baz metallerin dünya siyasi tarihindeki önemli olaylarla bağlantısının retrospektif literatür taraması yöntemi ile araştırılması (Investigation of the connection of base metals with important events in world political history by retrospective literature screening method)

ÇİFTÇİ A., URAL M. N., VURAL A.

Journal of Social Sciences Studies, vol.6, no.60, pp.1453-1461, 2020 (Peer-Reviewed Journal)

XXXIII. Değerli Metallerin Sosyal / Siyasal / Ekonomik Olaylarla İlişkinin N- gram Yöntemi İle Değerlendirilmesi [Evaluation of the Relationship between Precious Metals and Social / Political / Economic Events by n-gram Method]

VURAL A., URAL M. N., ÇİFTÇİ A.

Social Mentality and Researcher Thinkers Journal, vol.6, no.29, pp.247-257, 2020 (Peer-Reviewed Journal)

XXXIV. Soil geochemistry study of the listvenite area of ayvacik (Çanakkale, Turkey)

Vural A., Aydal D.

Caspian Journal of Environmental Sciences, vol.18, no.3, pp.205-215, 2020 (Scopus)

XXXV. Zenginleştirilmiş Jeoturizm Güzergahlarına Dair Farkındalık Oluşturulması: Eski Gümüşhane-Dörtkonak Güzergahı

VURAL A.

Gümüşhane Üniversitesi Sosyal Bilimler Enstitüsü Elektronik Dergisi, vol.10, pp.250-274, 2019 (Peer-Reviewed Journal)

XXXVI. Evaluation of Soil Geochemistry Data of Canca Area (gümüşhane, Turkey) by Means of Inverse Distance Weighting (idw) and Kriging Methods-preliminary Findings

VURAL A.

Maden Tetkik ve Arama Dergisi, vol.158, no.1, 2019 (ESCI)

XXXVII. Evaluation of soil geochemistry data of Canca Area (Gumushane, Turkey) by means of inverse distance weighting (Idw) and kriging methods-preliminary findings

Vural A.

BULLETIN OF THE MINERAL RESEARCH AND EXPLORATION, vol.158, pp.195-216, 2019 (ESCI)

XXXVIII. Exploring Gördes Zeolite Sites by Feature Oriented Principle Component Analysis of LANDSAT Images

VURAL A., ÇORUMLUOĞLU Ö., ASRİ İ.

CASPIAN JOURNAL OF ENVIRONMENTAL SCIENCES, vol.14, no.14, pp.285-298, 2016 (Peer-Reviewed Journal)

XXXIX. Trace/heavy metal accumulation in soil and in the shoots of acacia tree, Gümüşhane-Turkey

Vural A.

Bulletin of the Mineral Research and Exploration, vol.148, pp.85-106, 2014 (Scopus)

XL. Eski Gümüşhane Kırkpavli Alterasyon Sahasında Toprak Jeokimyası Çalışması Gümüşhane Türkiye

VURAL A., Erdoğan M.

GÜFBED/GUSTIJ, vol.4, no.1, pp.1-15, 2014 (Peer-Reviewed Journal)

- XLI. **Toprak ve Akasya Ağacı Sürgünlerindeki İz/Ağır Element Dağılımı, Gümüşhane-Türkiye**
VURAL A.

Maden Tetkik ve Arama Dergisi, vol.148, pp.85-106, 2014 (Peer-Reviewed Journal)

- XLII. **Gümüşhane Şehir Merkezinden Geçen Karayolunda Ağır Metal Kirliliğine Ait İlk Bulgular**
VURAL A., Şahin E.

GÜFBED/GUSTIJ, vol.2, no.1, pp.21-35, 2012 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Bor'un (B) Kullanım Alanları ve Çevresel Etkileri**
KIRAT G., VURAL A.
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar, Çoğun, Parlar, Üzmuş, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.180-190, 2023
- II. **1:100.000 Ölçekli Türkiye Jeoloji Haritaları Serisi, Şanlıurfa-M 40 Paftası Serisi**
Usta D., Ateş Ş., Çoban M., Deveci Ö., Ekmekyapar A., Sağlam F., DİNÇ S., VURAL A.
Maden Tetkik ve Arama Genel Müdürlüğü, Ankara, 2018
- III. **Anadolu Madenciliğinde İlk Adımlar**
VURAL A., Kaya S., Başaran N., Songören O. T.
MTA Genel Müdürlüğü Kültür Serisi, Ankara, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **The Distribution of The Keyword "Landsat" in The Web of Science Database by Subject**
URAL M. N., VURAL A.
Cukurova 12th International Scientific Researches Conference, Adana, Turkey, 9 - 12 March 2024
- II. **The Distribution of The Keyword "Ikonos" in The Web of Science Database by Subject**
VURAL A., URAL M. N.
Cukurova 12th International Scientific Researches Conference, Adana, Turkey, 9 - 12 March 2024
- III. **Kahramanmaraş İlindeki Depremler Sonrası Karayolu Tünellerinin Güçlendirilmesi: Yeraltı Boşlukları ve Deprem Etkisi İncelemesi**
KÜLEKÇİ G., VURAL A.
2nd International Conference on Recent Academic Studies, Konya, Turkey, 26 - 28 September 2023, pp.79-82
- IV. **Eosen Yaşlı Torul (Gümüşhane/Türkiye) Volkaniklerinin Element Temel Değerlerinin Arama Jeokimyası Amaçlı Değerlendirilmesi**
KAYGUSUZ A., VURAL A.
3rd International Conference on Innovative Academic Studies., Konya, Turkey, 26 - 20 September 2023, pp.191-199
- V. **Alterasyon-Element Biriktirme İlişkisi: Canca (Gümüşhane/Türkiye) örneği**
VURAL A., KAYGUSUZ A.
3rd International Conference on Innovative Academic Studies., Konya, Turkey, 26 - 28 September 2023, pp.184-190
- VI. **Bozbent Dağı (Mescitli / Torul / Gümüşhane) Adakit Benzeri Porfirlerin Jeolojik ve Petrografik Özellikleri**
KAYGUSUZ A., ŞAHİN K., VURAL A.
2nd International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 04 April 2023, pp.120-127
- VII. **Deprem ve Çevre Sorunları**
SAVCI S., KIRAT G., VURAL A.

- 1st International Conference on Scientific and Innovative Studies, Konya, Turkey, 18 April 2023, pp.144-147
- VIII. **Liveyda İnrüzyonu'nun (Trabzon, KD Türkiye) Jeolojik, Mineralojik ve Petrografik Özellikleri**
KAYGUSUZ A., VURAL A.
- 1st International Conference on Scientific and Innovative Studies, Konya, Turkey, 18 April 2023, pp.171-177
- IX. **Analitik Hiyerarşi Süreci (AHS) Tekniği ve Coğrafi Bilgi Sistemleri (CBS) ile Yeraltı Suyu Potansiyel Alanlarının Belirlenmesi: Demirören –Sarıçiçek Havzası'nda (Gümüşhane) Bir Vaka Çalışması**
CEYLAN M., VURAL A.
- 2nd International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 04 April 2023, pp.713-718
- X. **Geotectonics, Earthquake and Mineral Deposits: The North Anatolian Fault Zone**
VURAL A., KIRAT G.
- Muş Alpaslan Universty International Earthquake Symposium, Muş, Turkey, 24 - 25 March 2023
- XI. **Mineral Deposits in the Eastern Anatolia Fault Zone (Dafz)**
KIRAT G., VURAL A.
- Muş Alpaslan Universty International Earthquake Symposium, Muş, Turkey, 24 - 25 March 2023
- XII. **Damages Caused by Earthquakes to Underground Spaces, Transportation Tunnels and Measures to be Taken, A Sample Study Erkenek and Aşık Mahsuni Şerif Tunnel**
KÜLEKÇİ G., VURAL A.
- Muş Alpaslan Universty International Earthquake Symposium, Muş, Turkey, 24 - 25 March 2023
- XIII. **Gümüşhane katı atık toplama sahası ve yakın çevresinde ağır metal kirliliğine maruz bölgede yetişen civanperçemi (Achillea millefolium L.) bitkisinin element biriktirme kabiliyeti (Gümüşhane, KD Türkiye)**
VURAL A., KAYGUSUZ A.
- 2nd International Conference on Scientific and Academic Research, Konya, Turkey, 14 March 2023
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