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Education Information

Doctorate, Dokuz Eylül University, Eğitim Bilimleri Enstitüsü, Biyoloji Öğretmenliği (Dr),
Turkey 2004 - 2011
Undergraduate, Dokuz Eylül University, Buca Eğitim Fakültesi, Matematik Ve Fen Bilimleri
Eğitimi Bölümü, Turkey 1999 - 2004

Dissertations

Doctorate, Yeniden kazanım eğitimiminin (recycling education) ortaöğretim öğrencilerinin bilgi, tutum ve davranışları üzerine etkileri, Dokuz Eylül University, Eğitim Bilimleri Enstitüsü, Biyoloji Öğretmenliği (Dr), 2011

Research Areas

Social Sciences and Humanities, Natural Sciences

Academic Titles / Tasks

Associate Professor, Usak University, EĞİTİM FAKÜLTESİ, Özel Eğitim Bölümü, 2019 - Continues
Associate Professor, Dokuz Eylül University, Buca Eğitim Fakültesi, Özel Eğitim Bölümü, 2015 - 2019
Assistant Professor, Dokuz Eylül University, Buca Eğitim Fakültesi, Özel Eğitim Bölümü, 2014 - 2015
Assistant Professor, Balıkesir University, Necatibey Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2011 - 2014

Academic and Administrative Experience

Usak University, 2020 - Continues
Usak University, 2020 - Continues
Dokuz Eylül University, 2015 - 2017
Dokuz Eylül University, 2015 - 2016

Courses

ÖZEL EĞİTİM, Undergraduate, 2019 - 2020
WEB TASARIMI, Undergraduate, 2019 - 2020
GENETİK, Undergraduate, 2015 - 2016, 2014 - 2015
HAYVAN HİSTOLOJİSİ, Undergraduate, 2015 - 2016
ÖZEL EĞİTİM, Undergraduate, 2015 - 2016, 2014 - 2015
TOPLUMA HİZMET UYGULAMALARI, Undergraduate, 2015 - 2016, 2014 - 2015
ÜSTÜN ZEKALI VE ÜSTÜN YETENEKLİLERİN EĞİTİMİ, Postgraduate, 2015 - 2016, 2014 - 2015
GENEL EKOLOJİ, Undergraduate, 2015 - 2016, 2014 - 2015
BİLİMSEL ARAŞTIRMA YÖNTEMLERİ, Undergraduate, 2014 - 2015
ÖZEL ÖĞRETİM YÖNTEMLERİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
GENETİK, Undergraduate, 2013 - 2014
ÖĞRETİM TEKNOLOJİLERİ VE MATERİYAL GELİŞTİRME, Undergraduate, 2013 - 2014
GENEL EKOLOJİ, Undergraduate, 2013 - 2014
HAYVAN HİSTOLOJİSİ, Undergraduate, 2012 - 2013, 2011 - 2012
HAYVAN ANATOMİSİ, Undergraduate, 2012 - 2013, 2011 - 2012
WEB TASARIMI, Undergraduate, 2012 - 2013, 2011 - 2012
SİTOLOJİ, Undergraduate, 2012 - 2013, 2011 - 2012

Advising Theses

İLKER U., Özel yetenekli öğrencilerin akademik benlik ve öz yeterlilikleri ile bilimsel süreç becerileri arasındaki ilişki., Postgraduate, A.REYHAN(Student), 2023
İLKER U., Özel yetenekli öğrencilerin bilimsel araştırmaya yönelik tutum, epistemolojik inanç ve eleştirel düşünme düzeylerinin belirlenmesi, Postgraduate, E.KIVRAK(Student), 2023
İLKER U., ÖZEL YETENEKLİ ÖĞRENCİLERİN FEN BİLİMLERİ DERSLERİNE YÖNELİK TUTUMLARININ FEN ÖĞRENMEYE YÖNELİK MOTİVASYONLARINA ETKİSİNİN İNCELENMESİ, Postgraduate, H.ALINTAŞ(Student), 2023
İLKER U., Özel Yetenekli Öğrencilerin Fen Bilgisi Öğretimi Özyeterlik İnanç Düzeyleri, Motivasyonları ve Öğrenme Stilleri Arasındaki İlişkinin Değerlendirilmesi, Postgraduate, G.ÇAĞIN(Student), 2022
İLKER U., Fen bilimleri dersinde probleme dayalı öğrenme yöntemi kullanımının üstün yetenekli öğrencilerin akademik başarıları, sorgulayıcı öğrenme beceri algıları ve fene yönelik tutumları üzerindeki etkileri, Postgraduate, S.BALIM(Student), 2016
İLKER U., Ortaöğretim Öğrencilerinin Moleküler Biyoloji ve Genetik Konusu Kapsamında Hazırlanan Kavramsal, İşlemsel ve Grafiksel Soruları Çözme Başarılarının Karşılaştırılması, Postgraduate, S.ERKOL(Student), 2013
İLKER U., Ortaöğretim öğrencilerinin çevreye yönelik tutumlarının bazı demografik değişkenler açısından incelenmesi, Postgraduate, N.KORUOĞLU(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Source identification and assessment of heavy metal contamination in different plant species in the alpine ecosystems of Mt. Madra**
UĞULU İ., Sahin I., Akcicek E.
Physics and Chemistry of the Earth, vol.135, 2024 (SCI-Expanded)
- II. **Cobalt Uptake by Food Plants and Accumulation in Municipal Solid Waste Materials Compost-amended Soil: Public Health Implications**
Khan Z. I., Ashfaq A., Ahmad K., Batool A. I., Aslam M., Ahmad T., Mehmood N., Noorka I. R., Gaafar A. Z., Elshikh M. S., et al.
Biological Trace Element Research, vol.202, no.9, pp.4302-4313, 2024 (SCI-Expanded)

- III. Source Identification of Potentially Toxic Metals in Plants of Alpine Ecosystems of Mt. Madra by Positive Matrix Factorization**
UĞULU İ., Sahin I., Khan Z. I., Akcicek E.
Bulletin of Environmental Contamination and Toxicology, vol.113, no.3, 2024 (SCI-Expanded)
- IV. Bioaccumulation and Health Risk Assessment of Potentially Toxic Metals in Citrus Limetta & Citrus Sinensis Irrigated by Wastewater**
UĞULU İ., Khan Z. I., Mumtaz M., Ahmad K., Memona H., Akhtar S., Ashfaq A.
Bulletin of Environmental Contamination and Toxicology, vol.113, no.1, 2024 (SCI-Expanded)
- V. Evaluation of the Effects of Wastewater Irrigation on Heavy Metal Accumulation in Vegetables and Human Health in the Cauliflower Example: Heavy Metal Accumulation in Cauliflower**
UĞULU İ., Khan Z. I., Bibi S., Ahmad K., Munir M., Memona H.
Bulletin of Environmental Contamination and Toxicology, vol.112, no.3, 2024 (SCI-Expanded)
- VI. Evaluation of Cadmium and Copper Levels in Food Chain Under Arid Regions of Punjab, Pakistan**
Ahmad K., Bashir A., Khan Z. I., Riaz N., Zubair F., Ashfaq A., Mahpara S., Alrefaei A. F., Almutairi M. H., Ashraf M. A., et al.
Polish Journal of Environmental Studies, vol.33, no.3, pp.2535-2551, 2024 (SCI-Expanded)
- VII. Heavy Metal Accumulation in Soil, Forage and Blood Plasma of Horses in Central Punjab, Pakistan**
UĞULU İ., Khan Z. I., Ahmad K., Bashir H., Mehmood N., Zafar A., Sohail M.
Pakistan Journal of Zoology, vol.56, no.5, pp.2327-2337, 2024 (SCI-Expanded)
- VIII. Evaluation of Cu, Zn, Fe, and Mn Concentrations in Water, Soil, and Fruit Samples in Sargodha District, Pakistan**
Khan Z. I., Haider R., Ahmad K., Nadeem M., Ashfaq A., Alrefaei A. F., Almutairi M. H., Mehmood N., Batool A. I., Memona H., et al.
Sustainability (Switzerland), vol.15, no.22, 2023 (SCI-Expanded)
- IX. Arsenic Levels and Seasonal Variation in Pasture Soil, Forage and Horse Blood Plasma in Central Punjab, Pakistan**
UĞULU İ., Khan Z. I., Ahmad K., Bashir H., Mehmood N., Zafar A.
Bulletin of Environmental Contamination and Toxicology, vol.111, no.5, 2023 (SCI-Expanded)
- X. The Effects of Irrigation with Diverse Wastewater Sources on Heavy Metal Accumulation in Kinnow and Grapefruit Samples and Health Risks from Consumption**
Khan Z. I., Haider R., Ahmad K., Alrefaei A. F., Mehmood N., Memona H., Akhtar S., UĞULU İ.
Water (Switzerland), vol.15, no.19, 2023 (SCI-Expanded)
- XI. Influence of Industrial Wastewater Irrigation on Heavy Metal Content in Coriander (*Coriandrum sativum L.*): Ecological and Health Risk Assessment**
UĞULU İ., Khan Z. I., Alrefaei A. F., Bibi S., Ahmad K., Memona H., Mahpara S., Mehmood N., Almutairi M. H., Batool A. I., et al.
Plants, vol.12, no.20, 2023 (SCI-Expanded)
- XII. Evaluation of nickel toxicity and potential health implications of agriculturally diversely irrigated wheat crop varieties**
Iqbal Khan Z., Ahmad K., Ahmad T., Zafar A., Alrefaei A. F., Ashfaq A., Akhtar S., Mahpara S., Mehmood N., UĞULU İ.
Arabian Journal of Chemistry, vol.16, no.8, 2023 (SCI-Expanded)
- XIII. Does Industrial Wastewater Irrigation Cause Potentially Toxic Metal Contamination and Risk to Human Health? Sugar Industry Wastewater and Radish Examples**
UĞULU İ., Bibi S., Khan Z. I., Ahmad K., Munir M., Malik I. S.
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- XIV. Biomonitoring of Heavy Metal and Metalloid Contamination in Industrial Wastewater Irrigated Areas Using Sugar Beet (*Brassica oleracea L.*)**
UĞULU İ., Bibi S., Khan Z. I., Ahmad K., Munir M., Malik I. S., Ejaz A., Alrefaei A. F.
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- XV. Potentially Toxic Metal Accumulation in Spinach (*Spinacia oleracea L.*) Irrigated with Industrial Wastewater and Health Risk Assessment from Consumption**

- UĞULU İ., Bibi S., Khan Z. I., Ahmad K., Munir M., Malik I. S.
Bulletin of Environmental Contamination and Toxicology, vol.109, no.6, pp.1117-1125, 2022 (SCI-Expanded)
- XVI. **Risk assessment of heavy metals in basmati rice: implications for public health**
Tariq F., Wang X., Saleem M. H., Khan Z. I., Ahmad K., Malik I. S., Munir M., Mahpara S., Mehmood N., Ahmad T., et al.
Sustainability (Switzerland), vol.13, no.15, 2021 (SCI-Expanded)
- XVII. **Evaluation of toxicity potential of cobalt in wheat irrigated with wastewater: health risk implications for public**
Chen F., Khan Z. I., Zafar A., Ma J., Nadeem M., Ahmad K., Mahpara S., Wajid K., Bashir H., Munir M., et al.
Environmental Science and Pollution Research, vol.28, no.17, pp.21119-21131, 2021 (SCI-Expanded)
- XVIII. **Chromium Bioaccumulation by Plants and Grazing Livestock as Affected by the Application of Sewage Irrigation Water: Implications to the Food Chain and Health Risk**
UĞULU İ., Khan Z. I., Safdar H., Ahmad K., Bashir H.
International Journal of Environmental Research, vol.15, no.2, pp.261-274, 2021 (SCI-Expanded)
- XIX. **Effect of wastewater irrigation as an alternative irrigation resource on heavy metal accumulation in ginger (*Zingiber officinale Rosc.*) and human health risk from consumption**
UĞULU İ., Khan Z. I., Sheik Z., Ahmad K., Bashir H., Ashfaq A.
Arabian Journal of Geosciences, vol.14, no.8, 2021 (SCI-Expanded)
- XX. **Effects of organic and chemical fertilizers on the growth, heavy metal/metalloid accumulation, and human health risk of wheat (*Triticum aestivum L.*)**
UĞULU İ., Ahmad K., Khan Z. I., Munir M., Wajid K., Bashir H.
Environmental Science and Pollution Research, vol.28, no.10, pp.12533-12545, 2021 (SCI-Expanded)
- XXI. **Trace metal accumulation in pepper (*Capsicum annuum L.*) grown using organic fertilizers and health risk assessment from consumption**
UĞULU İ., Akhter P., Iqbal Khan Z., Akhtar M., Ahmad K.
Food Research International, vol.140, 2021 (SCI-Expanded)
- XXII. **Biomonitoring of heavy metals accumulation in wild plants growing at soon valley, khushab, pakistan**
Khan Z. I., UĞULU İ., Zafar A., Mehmood N., Bashir H., Ahmad K., Sana M.
Pakistan Journal of Botany, vol.53, no.1, pp.247-252, 2021 (SCI-Expanded)
- XXIII. **Assessing health risk in livestock through quantification of iron in forages, soil and buffalo blood from Sargodha, Pakistan**
Yang Y., Khan Z. I., Ahmad K., Ullah M. F., Nadeem M., Bashir H., Munir M., Malik I. S., Arshad N., Ma J., et al.
Revista de Chimie, vol.70, no.9, pp.221-229, 2020 (SCI-Expanded)
- XXIV. **Assessing zinc amassing in forages, buffalo blood and topsoil collected from Sargodha City, Pakistan**
Ahmad K., Yang Y., Khan Z. I., Arshad N., Ahmad T., Nadeem M., Wajid K., Bashir H., Nazar S., Munir M., et al.
Revista de Chimie, vol.71, no.8, pp.240-248, 2020 (SCI-Expanded)
- XXV. **Does the chromium element in forages and fodders grown in contaminated pasture lands cause toxicity in livestock: Assessing the potential risk**
Yang Y., Khan Z., Ahmad K., Arshad N., Rehman S. U., Ullah M. F., Wajid K., Mahpara S., Bashir H., Nadeem M., et al.
Revista de Chimie, vol.71, no.7, pp.397-405, 2020 (SCI-Expanded)
- XXVI. **Assessment of trace metal contents of indigenous and improved pastures and their implications for livestock in terms of seasonal variations**
Rasheed M. J., Ahmad K., Khan Z. I., Mahpara S., Ahmad T., Yang Y., Wajid K., Nadeem M., Bashir H., Ashfaq A., et al.
Revista de Chimie, vol.71, no.7, pp.347-364, 2020 (SCI-Expanded)
- XXVII. **Assessment of cadmium in maize and millet of different district using canal and wastewater irrigation**
Khan Z. I., Malik I. S., Ma J., Chen F., Yang Y., Ahmad K., Wajid K., Bashir H., Nadeem M., Ashfaq A., et al.
Revista de Chimie, vol.71, no.7, pp.406-418, 2020 (SCI-Expanded)
- XXVIII. **A study on the transfer of chromium from meadows to grazing livestock: an assessment of health risk**
Khan Z. I., Ahmad K., Siddique S., Ahmad T., Bashir H., Munir M., Mahpara S., Malik I. S., Wajid K., UĞULU İ., et al.
Environmental Science and Pollution Research, vol.27, no.21, pp.26694-26701, 2020 (SCI-Expanded)

- XXIX. **Human health risk assessment through the comparative analysis of diverse irrigation regimes for luffa (*Luffa cylindrica* (L.) roem.)**
Khan Z. I., UĞULU İ., Sahira S., Mehmood N., Ahmad K., Bashir H., DOĞAN Y.
Journal of Water Sanitation and Hygiene for Development, vol.10, no.2, pp.249-261, 2020 (SCI-Expanded)
- XXX. **Effect of Organic Manure and Mineral Fertilizers on Bioaccumulation and Translocation of Trace Metals in Maize**
Wajid K., Ahmad K., Khan Z. I., Nadeem M., Bashir H., Chen F., UĞULU İ.
Bulletin of Environmental Contamination and Toxicology, vol.104, no.5, pp.649-657, 2020 (SCI-Expanded)
- XXXI. **Copper bioaccumulation and translocation in forages grown in soil irrigated with sewage water**
Khan Z. I., Safdar H., Ahmad K., Wajid K., Bashir H., UĞULU İ., DOĞAN Y.
Pakistan Journal of Botany, vol.52, no.1, pp.111-119, 2020 (SCI-Expanded)
- XXXII. **Trace Metal Accumulation in *Trigonella foenum-graecum* Irrigated with Wastewater and Human Health Risk of Metal Access Through the Consumption**
UĞULU İ., Khan Z. I., Rehman S., Ahmad K., Munir M., Bashir H., Nawaz K.
Bulletin of Environmental Contamination and Toxicology, vol.103, no.3, pp.468-475, 2019 (SCI-Expanded)
- XXXIII. **Evaluation of Potential Toxic Metals Accumulation in Wheat Irrigated with Wastewater**
Ahmad K., Wajid K., Khan Z. I., UĞULU İ., Memoona H., Sana M., Nawaz K., Malik I. S., Bashir H., Sher M.
Bulletin of Environmental Contamination and Toxicology, vol.102, no.6, pp.822-828, 2019 (SCI-Expanded)
- XXXIV. **Mineral, vitamin and phenolic contents and sugar profiles of some prominent date palm (*Phoenix dactylifera*) varieties of Pakistan**
Nadeem M., Qureshi T. M., UĞULU İ., Riaz M. N., Ain Q. U., Khan Z. I., Ahmad K., Ashfaq A., Bashir H., DOĞAN Y.
Pakistan Journal of Botany, vol.51, no.1, pp.171-178, 2019 (SCI-Expanded)
- XXXV. **Toxicological potential of cobalt in forage for ruminants grown in polluted soil: a health risk assessment from trace metal pollution for livestock**
Khan Z. I., Arshad N., Ahmad K., Nadeem M., Ashfaq A., Wajid K., Bashir H., Munir M., Huma B., Memoona H., et al.
Environmental Science and Pollution Research, 2019 (SCI-Expanded)
- XXXVI. **Health risk assessment through determining bioaccumulation of iron in forages grown in soil irrigated with city effluent**
Khan Z. I., Safdar H., Ahmad K., Wajid K., Bashir H., UĞULU İ., DOĞAN Y.
Environmental Science and Pollution Research, 2019 (SCI-Expanded)
- XXXVII. **Assessment of Trace Metal and Metalloid Accumulation and Human Health Risk from Vegetables Consumption through Spinach and Coriander Specimens Irrigated with Wastewater**
Khan Z. I., UĞULU İ., Ahmad K., Yasmeen S., Noorka I. R., Mehmood N., Sher M.
Bulletin of Environmental Contamination and Toxicology, vol.101, no.6, pp.787-795, 2018 (SCI-Expanded)
- XXXVIII. **Determination of Toxic Metals in Fruits of *Abelmoschus esculentus* Grown in Contaminated Soils with Different Irrigation Sources by Spectroscopic Method**
Khan Z. I., UĞULU İ., Sahira S., Ahmad K., Ashfaq A., Mehmood N., DOĞAN Y.
International Journal of Environmental Research, vol.12, no.4, pp.503-511, 2018 (SCI-Expanded)
- XXXIX. **Potential Toxic Metal Accumulation in Soil, Forage and Blood Plasma of Buffaloes Sampled from Jhang, Pakistan**
Khan Z. I., UĞULU İ., Umar S., Ahmad K., Mehmood N., Ashfaq A., Bashir H., Sohail M.
Bulletin of Environmental Contamination and Toxicology, vol.101, no.2, pp.235-242, 2018 (SCI-Expanded)
- XL. **Using Self-organizing neural network map combined with ward's clustering algorithm for visualization of students' cognitive structural models about aliveness concept**
Yorek N., UĞULU İ., Aydin H.
Computational Intelligence and Neuroscience, vol.2016, 2016 (SCI-Expanded)
- XLI. **Development and validation of an instrument for assessing attitudes of high school students about recycling**
UĞULU İ.
Environmental Education Research, vol.21, no.6, pp.916-942, 2015 (SSCI)
- XLII. **A quantitative investigation on recycling attitudes of gifted/talented students**

- UĞULU İ.
Biotechnology and Biotechnological Equipment, vol.29, 2015 (SCI-Expanded)
- XLIII. Determination of heavy metal accumulation in plant samples by spectrometric techniques in Turkey
UĞULU İ.
Applied Spectroscopy Reviews, vol.50, no.2, pp.113-151, 2015 (SCI-Expanded)
- XLIV. Heavy metal contents of malva sylvestris sold as edible greens in the local markets of Izmir İzmir
pazarlarında satılan malva sylvestris örneklerinin ağır metal birikim değerleri
Unver M. C., UĞULU İ., Durkan N., Baslar S., DOĞAN Y.
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- XLV. Heavy metal accumulation in the bark and leaves of juglans regia planted in artvin city, Turkey
DOĞAN Y., Unver M. C., UĞULU İ., Calis M., Durkan N.
Biotechnology and Biotechnological Equipment, vol.28, no.4, pp.643-649, 2014 (SCI-Expanded)
- XLVI. A study on detecting heavy metal accumulation through biomonitoring: Content of trace elements in
plants at Mount Kazdagı in Turkey
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Applied Ecology and Environmental Research, vol.12, no.3, pp.627-636, 2014 (SCI-Expanded)
- XLVII. Medicinal plants used for gastrointestinal disorders in some districts of Izmir province, Turkey
DOĞAN Y., UĞULU İ.
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- XLVIII. Wild edible plants sold in the local markets of Izmir, Turkey
DOĞAN Y., UĞULU İ., Durkan N.
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- XLIX. Biomonitoring of trace element accumulation in plants growing at Murat Mountain
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International Journal of Environmental Science and Technology, vol.9, no.3, pp.527-534, 2012 (SCI-Expanded)
- L. Fidelity level and knowledge of medicinal plants used to make Therapeutic Turkish Baths
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- LI. Concentrations of trace elements aluminum, boron, cobalt and tin in various wild edible mushroom
species from Buyuk Menderes River Basin of Turkey by ICP-OES
Durkan N., UĞULU İ., Unver M., DOĞAN Y., Baslar S.
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- LII. Turkish red pine as a biomonitor: A comparative study of the accumulation of trace elements in the
needles and bark Bir Biyolojik Indikatör Olarak Kızılçam: Yaprak ve Kabuklarındaki İz Element
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DOĞAN Y., UĞULU İ., Baslar S.
Ekoloji, no.75, pp.88-96, 2010 (SCI-Expanded)
- LIII. The determination and fidelity level of medicinal plants used to make traditional turkish salves
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Journal of Alternative and Complementary Medicine, vol.16, no.3, pp.313-322, 2010 (SCI-Expanded)
- LIV. Students' representations of the cell concept from 6 to 11 grades: Persistence of the "fried-egg
model"
Yorek N., ŞAHİN M., UĞULU İ.
International Journal of Physical Sciences, vol.5, no.1, pp.15-24, 2010 (SCI-Expanded)
- LV. The investigation and quantitative ethnobotanical evaluation of medicinal plants used around Izmir
province, Turkey
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- LVI. Determination of retention of students knowledge and the effect of conceptual understanding
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- LVII. **The determination of colour intensity of rubia tinctorum and chrozophora tinctoria distributed in western anatolia**
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Articles Published in Other Journals

- I. **Assessing Scientific Epistemological Beliefs of Middle School Gifted Students**
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CLINICAL PSYCHOLOGY AND SPECIAL EDUCATION, vol.13, no.3, pp.166-185, 2024 (ESCI)
- II. **Quantitative Research on Gifted/Talented Students' Critical Thinking Skills**
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MIER-JOURNAL OF EDUCATIONAL STUDIES TRENDS AND PRACTICES, vol.14, no.2, pp.296-314, 2024 (ESCI)
- III. **Tinkercad Circuits Platform-Based Learning Experiences of Gifted Students in the Emergency Distance Education Process**
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- IV. **Preface**
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- V. **Prospective Teachers' Attitudes towards the Education of Gifted/Talented Students**
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- VI. **Assessment of Human Health Risk of Zinc and Lead by Consuming F Consuming Food Crops Supplied with Excessive Fertilizers**
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- VII. **Effects of fertilizers on copper and nickel accumulation and human health risk assessment of vegetables and food crops.**
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- VIII. **Heavy metals and proximate analysis of Sihar (*Rhzaya stricta Decne*) collected from different sites of Warcha salt mine, Salt Range, Pakistan**
Khan Z. I., Ahmad K., Bibi H. F., Ahmad I., Muhammad F. G., Ashfaq A., Ijaz A., Sameen A., Nadeem M., UĞULU İ.
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