

Assoc. Prof. NİHAT HAKAN AKYOL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-4199-2020

Yoksis Researcher ID: 27887

Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (Dr), Turkey 2006 - 2012

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (YI), Turkey 2003 - 2006

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1999 - 2003

Foreign Languages

English, C1 Advanced

German, B1 Intermediate

Research Areas

Agricultural Sciences, Farming Economy, Environmental Technology, Environmental Impact Assessment, Environmental Risk Assessment, Contaminated Sites and Remediation, Water Pollution and Control, Soil and Groundwater Pollution and Control, Geological Engineering, Applied Geology, Environmental Geology and Geophysics, Hydrogeology and Hidrology

Academic Titles / Tasks

Associate Professor, The University of Alabama, College of Art and Sciences, Department of Geological Sciences, 2023 - Continues

Researcher, The University of Alabama, Department of Geological Sciences, 2023 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2017 - Continues

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2013 - 2017

Expert, University of Arizona, Department Of Soil, Water And Environmental Science, Swes, 2010 - 2013

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2003 - 2013

Academic and Administrative Experience

Deputy Head of Department, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2020 - 2023

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2017 - 2021

Advising Theses

- Akyol N. H., Antalya Tarım Toprağında Pestisit Taşımının İncelenmesi, Postgraduate, Y.Biricik(Student), Continues
- Akyol N. H., Gölcük Ovası Tarım Topraklarında Atrazin ve Metribüzin Herbisitlerinin Taşınım ve Tutunum Davranışlarının İncelenmesi, Postgraduate, A.Ayva(Student), 2023
- Akyol N. H., Coptly N., Evaluation of in-situ chemical flushing and oxidation technologies for the remediation of aquifer systems contaminated with DNAPLs, Doctorate, Z.Demiray(Student), 2023
- Akyol N. H., ATRAZİN VE METRİBÜZİN HERBİSİTLERİNİN BALIKESİR TARIM TOPRAĞINDAKİ TUTUNUM VE TAŞINIMININ İNCELENMESİ, Postgraduate, İ.İLTERİŞ(Student), 2023
- Akyol N. H., Şahin Y., TAGUCHİ DENEY TASARIMI VE YSA İLE TETRAKLOROETİLEN KAYNAK ZONLARIN KOMPLEKS ŞEKER İLE ISLAH OPTİMİZASYONUNUN MODELLENMESİ, Postgraduate, S.Sedanur(Student), 2022
- Akyol N. H., KOCAELİ BÖLGESİ TARIM TOPRAĞINDA PESTİSİT MOBİLİTESİNİN İNCELENMESİ, Postgraduate, E.Çiftçi(Student), 2022
- Akyol N. H., AKİFER SİSTEMLERİNDE DEPOLANAN DNAPL KARIŞIMLARININ YERİNDE KİMYASAL YIKAMA TEKNOLOJİSİ İLE ISLAHININ İNCELENMESİ , Postgraduate, T.Acıloğlu(Student), 2022
- Gündüz Ö. C., Akyol N. H., AKYAZI-KUZULUK (SAKARYA) ÇEVRESİNDEKİ JEOTERMAL SİSTEMLERİN HİDROJEOLJİK VE HİDROJEOKİMYASAL İNCELENMESİ , Postgraduate, M.ALTINATA(Student), 2020
- Akyol N. H., Tce kaynak zonlarının yüzey aktif madde (SDS) ve kompleks şekerli (MCD) yerinde yıkama teknolojisi ile ıslahının incelenmesi, Postgraduate, S.TÜRKKAN(Student), 2018
- Akyol N. H., Kütahya-Emet bölgesi toprak, bitki ve sularında arsenik kirliliği ve risk karakterizasyonu, Postgraduate, T.KARATAŞ(Student), 2017

Jury Memberships

- Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2022
- Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2021
- Post Graduate, Post Graduate, Kütahya Dumlupınar Üniversitesi, May, 2020
- Post Graduate, Post Graduate, Pamukkale Üniversitesi, August, 2019
- Doctorate, Doctorate, Kocaeli Üniversitesi, July, 2019
- Post Graduate, Post Graduate, Boğaziçi Üniversitesi, March, 2019
- Doctoral Examination, Doctoral Examination, Boğaziçi Üniversitesi, June, 2018
- Post Graduate, Post Graduate, Alabama A&M University, June, 2018
- Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2018
- Doctorate, Doctorate, Boğaziçi Üniversitesi, May, 2018
- Doctoral Examination, Doctoral Examination, Boğaziçi Üniversitesi, January, 2018
- Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2017
- Post Graduate, Post Graduate, Kütahya Dumlupınar Üniversitesi, June, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Laboratory-scale Characterization of Slow-Release Permanganate Gel (SRP-G) for the In-situ Treatment of Chlorinated-Solvent Groundwater Plumes**
Ogundare O., Tick G., Esfahani M. R., Akyol N. H., Zhang Y.
CHEMOSPHERE CHEMISTRY, BIOLOGY AND TOXICOLOGY AS RELATED TO ENVIRONMENTAL PROBLEMS, pp.1-28, 2024 (SCI-Expanded)
- II. **Sorption and transport of Atrazine for stable manure-amended agricultural soil from**

Kahramanmaraş, Turkey

Ozturk M. T., Yıldız U., Uras Y., Akyol G., Özkul C., Akyol N. H.

SOIL AND SEDIMENT CONTAMINATION, vol.1, pp.1-14, 2024 (SCI-Expanded)

- III. **SoilSpatvis: WEB Application for Geographical Data Visualization with R Language for Assessing Soil Pollution**
Kaya E., Şentürk E., Erener A., Ozkul C., Akyol N. H.
SOIL & SEDIMENT CONTAMINATION, vol.33, no.7, pp.961-975, 2024 (SCI-Expanded)
- IV. **Multi-response optimization of process parameters for remediation of tetrachloroethylene pools by surfactants: Application of Taguchi design of experiment and Artificial Neural Network**
ŞAHİN Y., Kasap S. S., Akyol G., AKYOL N. H.
Water and Environment Journal, vol.37, no.3, pp.454-469, 2023 (SCI-Expanded)
- V. **Surfactant-Enhanced In-Situ Oxidation of DNAPL Source Zone Experiments and Numerical Modeling**
Demiray Z., Akyol N. H., Akyol G., Coptly N.
JOURNAL OF CONTAMINANT HYDROLOGY, vol.7, pp.1-30, 2023 (SCI-Expanded)
- VI. **Mass-flux reduction and mass removal relationships (MFR-MR) of pool-dominated multicomponent DNAPLs in heterogeneous geological system**
Akyol N. H., Demiray Z., Coptly N., Acıhoğlu T., Akyol G.
GLOBAL NEST JOURNAL, vol.24, no.2, pp.1-17, 2023 (SCI-Expanded)
- VII. **Remediation of pool dominated Trichloroethene source zones in heterogeneous porous media by cosmetic surfactant flooding**
Akyol G., Ozkul C., Bozbas K. S., Akyol H. N.
GLOBAL NEST JOURNAL, vol.25, no.3, pp.69-77, 2023 (SCI-Expanded)
- VIII. **Comparison of sorption and solute transport behaviour of several herbicides in an alkaline agricultural soil**
Akyol N. H., Carroll K. C., Cortuk E. C., Gündüz Ö. C., Sahin N.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.103, no.19, pp.7357-7375, 2023 (SCI-Expanded)
- IX. **Enhanced-Solubilization and Dissolution of Multicomponent DNAPL from Homogeneous Porous Media**
Tick G., Slavic D., Akyol N. H., Zhang Y.
Journal Of Contaminant Hydrology, no.246, pp.1-28, 2022 (SCI-Expanded)
- X. **Optimization of process parameters for remediation performance on mass removal of tetrachloroethylene source zones by using Taguchi design of experiment and artificial neural network**
Şahin Y., Akyol N. H., Kasap S. S.
Water and Environment Journal, vol.36, no.3, pp.0-574, 2022 (SCI-Expanded)
- XI. **Experimental Assessment and Modeling of Enhanced Solubilization of Pool-dominated Tetrachloroethene Source Zone in Heterogeneous Porous Media**
Demiray Z., AKYOL N. H., Coptly N. K.
WATER AIR AND SOIL POLLUTION, vol.232, no.12, 2021 (SCI-Expanded)
- XII. **Contamination by As, Hg, and Sb in a region with geogenic As anomaly and subsequent human health risk characterization**
Guney M., Karatas T., Ozkul C., AKYOL N. H., Acar R. U.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.1, 2020 (SCI-Expanded)
- XIII. **Mobility of 2,4-Dichlorophenoxyacetic Acid, Glyphosate, and Metribuzine Herbicides in Terra Rossa-Amended Soil: Multiple Approaches with Experimental and Mathematical Modeling Studies**
Gürson A. P., Özbay İ., Ozhay B., Akyol G., Akyol N. H.
WATER AIR AND SOIL POLLUTION, vol.230, no.9, 2019 (SCI-Expanded)
- XIV. **Experiments and sensitivity coefficients analysis for multiphase flow model calibration of enhanced DNAPL dissolution**
Karaoglu A. G., Coptly N. K., AKYOL N. H., Kilavuz S., Babaei M.

JOURNAL OF CONTAMINANT HYDROLOGY, 2019 (SCI-Expanded)

- XV. **Optimizing Process Parameters on the Remediation Efforts for the Mass Removal of DNAPL Entrapped in a Porous Media**
Mohammed M., ÖZBAY İ., Akyol G., AKYOL N. H., ŞAHİN Y., ÖZBAY B., Turkkan S., Karatas T.
WATER AIR AND SOIL POLLUTION, vol.230, no.7, 2019 (SCI-Expanded)
- XVI. **A pore-scale investigation of heavy crude oil trapping and removal during surfactant-enhanced remediation**
Ghosh J., Tick G. R., AKYOL N. H., Zhang Y.
JOURNAL OF CONTAMINANT HYDROLOGY, vol.223, 2019 (SCI-Expanded)
- XVII. **Experimental comparison of agent-enhanced flushing for the recovery of crude oil from saturated porous media.**
Booth J., Tick G., Akyol N. H., Greenberg R., Zhang Y.
Journal of contaminant hydrology, vol.226, pp.103504, 2019 (SCI-Expanded)
- XVIII. **Surfactant-Enhanced Permanganate Oxidation on Mass-Flux Reduction and Mass Removal (MFR-MR) Relationship for Pool-Dominated TCE Source Zones in Heterogeneous Porous Media**
AKYOL N. H.
WATER AIR AND SOIL POLLUTION, vol.229, no.8, 2018 (SCI-Expanded)
- XIX. **Sorption and desorption behaviours of 2,4-D and glyphosate in calcareous soil from Antalya, Turkey**
ÖZBAY B., AKYOL N. H., AKYOL G., ÖZBAY İ.
WATER AND ENVIRONMENT JOURNAL, vol.32, no.1, pp.141-148, 2018 (SCI-Expanded)
- XX. **Effect of Cyclodextrin-Enhanced Dissolution on Mass Removal and Mass-Flux Reduction Relationships for Non-uniformly Organic Liquid Distribution in Heterogeneous Porous Media**
AKYOL N. H., TURKKAN S.
WATER AIR AND SOIL POLLUTION, vol.229, no.2, 2018 (SCI-Expanded)
- XXI. **Effect of Organic Carbon Fraction on Long-term Atrazine Elution Tailing for Two Heterogeneous Porous Media: Experimental and Modeling Approach**
AKYOL N. H., ÖZBAY İ., ÖZBAY B.
WATER AIR AND SOIL POLLUTION, vol.226, no.11, 2015 (SCI-Expanded)
- XXII. **Characterizing and modeling of extensive atrazine elution tailing for stable manure-amended agricultural soil**
Akyol N. H.
CHEMOSPHERE, vol.119, pp.1027-1032, 2015 (SCI-Expanded)
- XXIII. **Transport and fate of ammonium and its impact on uranium and other trace elements at a former uranium mill tailing site**
Miao Z., Akyol H. N., McMillan A. L., Brusseau M. L.
APPLIED GEOCHEMISTRY, vol.38, pp.24-32, 2013 (SCI-Expanded)
- XXIV. **Impact of Enhanced-Flushing Reagents and Organic Liquid Distribution on Mass Removal and Mass Discharge Reduction**
AKYOL N. H., Lee A. R., Brusseau M. L.
WATER AIR AND SOIL POLLUTION, vol.224, no.10, 2013 (SCI-Expanded)
- XXV. **Oxidation of Nonaqueous Phase Trichloroethylene with Permanganate in Epikarst**
AKYOL N. H., YOLCUBAL İ.
WATER AIR AND SOIL POLLUTION, vol.224, no.5, 2013 (SCI-Expanded)
- XXVI. **Biomonitoring of airborne metals using the Lichen Xanthoria parietina in Kocaeli Province, Turkey**
Demiray A. D., YOLCUBAL İ., AKYOL N. H., Cobanoglu G.
ECOLOGICAL INDICATORS, vol.18, pp.632-643, 2012 (SCI-Expanded)
- XXVII. **Ethanol Addition for Enhancing Denitrification at the Uranium Mill Tailing Site in Monument Valley, AZ**
Borden A. K., Brusseau M. L., Carroll K. C., McMillan A., Akyol N. H., Berkompas J., Miao Z., Jordan F., Tick G., Waugh W. J., et al.
WATER AIR AND SOIL POLLUTION, vol.223, no.2, pp.755-763, 2012 (SCI-Expanded)

- XXVIII. **Sorption and transport of trichloroethylene in caliche soil**
AKYOL N. H., YOLCUBAL İ., Yuksel D. I.
CHEMOSPHERE, vol.82, no.6, pp.809-816, 2011 (SCI-Expanded)
- XXIX. **Adsorption and transport of arsenate in carbonate-rich soils: Coupled effects of nonlinear and rate-limited sorption**
YOLCUBAL İ., AKYOL N. H.
CHEMOSPHERE, vol.73, no.8, pp.1300-1307, 2008 (SCI-Expanded)
- XXX. **Retention and transport of hexavalent chromium in calcareous karst soils**
Yolcubal İ., Akyol N. H.
TURKISH JOURNAL OF EARTH SCIENCES, vol.16, no.3, pp.363-379, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Kozmetik Sektöründe Kullanılan Biyolojik Yüzey Aktif Madde ile Organik Kirleticilerin Islah Performansının Değerlendirilmesi**
Akyol G., Karayünlü Bozbaş S., Özkul C., Akyol N. H.
Environmental Toxicology and Ecology, vol.1, no.2, pp.1-7, 2021 (Peer-Reviewed Journal)
- II. **TCE KAYNAK ZONLARIN YERİNDE KİMYASAL YIKAMA İLE ISLAHI: TWEEN 80 VE SDS İLE YIKAMA PERFORMANSI**
ASLAN KILAVUZ S., AKYOL N. H.
Dokuz Eylül Fen ve Mühendislik Dergisi, vol.20, 2018 (Peer-Reviewed Journal)
- III. **Cyclodextrin-enhanced in situ flushing of TCE source zones resided in heterogeneous porous media**
AKYOL N. H., TURKKAN S.
International Journal of Advances in Science Engineering and Technology, vol.5, pp.22-25, 2017 (Peer-Reviewed Journal)
- IV. **In-situ chemical oxidation of residual TCE by permanganate in epikarst**
AKYOL N. H., YOLCUBAL İ.
World Academy of Science, Engineering and Technology, vol.57, pp.353-355, 2009 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Pore scale mobilization and trapping effects of crude oil/tetrachloroethene NAPL mixtures in saturated porous media during surfactant flooding**
Greenberg R., Tick G., Booth J., Akyol N. H., Zhang Y.
AGU Fall Meeting, Arkansas, United States Of America, 13 - 17 December 2021, pp.1
- II. **Pore-scale Investigation of Heavy Crude Oil Trapping and Removal During Surfactant-Enhanced Remediation**
TICK G., GHOSH J., AKYOL N. H., ZHANG Y.
AGU FALL MEETING, 9 - 13 December 2019
- III. **Comparison of Agent-Enhanced Flushing for the Recovery of Crude Oil from Saturated Porous Media via Pore-Scale and Interfacial Experiments**
Rebecca G., Booth J., Tick G., AKYOL N. H., zhang y.
AGU FALL MEETING, 9 - 13 December 2019
- IV. **Comparison of different reagents for the enhanced DNAPL remediation in heterogeneous porous media**
demiray z., AKYOL N. H., copty n.
EGU 2019, 7 - 12 April 2019
- V. **Mobility of atrazine in stable manure-amended agricultural soil**
AKYOL N. H.

International Conference on Pollution Control Sustainable Environment, International Conference on Pollution Control Sustainable Environment, 26 July - 28 June 2018

- VI. **Surfactant-Enhanced Potassium Permanganate Oxidation for TCE Source Zones in Heterogeneous Porous Media**
AKYOL N. H.
INTERNATIONAL CONFERENCE ON AGRICULTURAL, CHEMICAL, BIOLOGICAL AND ENVIRONMENTAL SCIENCES (ACBES-18), 20 - 21 June 2018
- VII. **THE PRELIMINARY ASSESSMENT OF HEAVY METAL CONCENTRATIONS IN SOILS AROUND YAGCIK VILLAGE AND EMET TOWN CENTER (KUTAHYA, TURKEY)**
ÖZKUL C., ÖNGEN A. S., ACAR R. U., AKYOL N. H., GÜNEY M., KARATAŞ T.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCE, Kiev, Ukraine, 2 - 06 May 2018
- VIII. **Mobility Of Atrazine İn Agricultural Soil From Sakarya, Turkey**
İŞGÖREN M., ASLAN KILAVUZ S., AKYOL N. H.
3. International Conference On Civil And Environmental Engineering, 24 - 27 April 2018
- IX. **TCE Kaynak zonlarının Tween 80, SDS ve Saf su ile yerinde ıslahı**
TURKKAN S., AKYOL N. H.
INES 2017, 18 - 21 October 2017
- X. **IN-SITU REMEDIATION OF TRİCHLOROETHYLENE SOURCE ZONES BY SODİUM DODEXYL SULFATE FLUSHING**
TURKKAN S., AKYOL N. H.
40. JEOLJİ KURULTAYI ÇUKUROVA ÜNİVERSİTESİ, 3 - 06 May 2017
- XI. **Sorption behavior of 2,4D in a natural soil from Antalya, Turkey**
AKYOL N. H., ÖZBAY B., ÖZBAY İ., AKYOL G.
ICENS, 3 - 07 May 2017
- XII. **Effect of Enhanced-Solubilization Agents on Mass Removal and Mass Discharge Reduction for TCE Source Zones in Heterogeneous Porous Media**
AKYOL N. H., TURKKAN S., ASLAN KILAVUZ S., ÖZBAY İ., ÖZBAY B.
ICENS, 3 - 07 May 2017
- XIII. **Effect of Enhanced-Solubilization Agents on Mass Removal and Mass Discharge Reduction in Heterogeneous Porous Media**
AKYOL N. H., türkkan s., ASLAN KILAVUZ S., ÖZBAY İ., ÖZBAY B.
ICENS-2017, Budapest, Hungary, 3 - 07 May 2017
- XIV. **Sorption behavior of 2,4D in a natural soil from Antalya, Turkey**
AKYOL N. H., ÖZBAY B., ÖZBAY İ., AKYOL G.
ICENS-2017, Budapest, Hungary, 3 - 07 May 2017
- XV. **Arsenic Contamination in Soil in Emet-Kutahya Basin (Turkey) and Risk Characterization for Human Exposure.**
KARATAŞ T., GÜNEY M., ÖZKUL C., AKYOL N. H., ACAR R. U.
3RD INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 3 - 07 May 2017, pp.73
- XVI. **İĞDEKÖY VE KIRGIL (EMET-KÜTAHYA) KÖYLERİ TOPRAKLARINDAKİ AĞIR METAL KONSANTRASYONLARININ BELİRLENMESİ İÇİN ÖN DEĞERLENDİRME ÇALIŞMASI**
ÖZKUL C., ACAR R. U., AKYOL N. H., GÜNEY M., KARATAŞ T.
Çukurova Üniversitesi Jeoloji Mühendisliği Bölümü 40. Yıl Jeoloji Sempozyumu, Adana, Turkey, 3 - 06 May 2017, pp.127
- XVII. **In Situ Remediation of Chlorinated Solvents in Heterogeneous Porous Media by Cyclodextrine**
TURKKAN S., AKYOL N. H., KARATAŞ T., ÖZBAY İ., ÖZBAY B.
ICENS , Sarajevo, Bosnia And Herzegovina, 23 - 28 May 2016
- XVIII. **TCE Kaynak Zonların Yerinde Kimyasal Yıkama ile Islahı Tween 80 SDS ve Etil Alkol ile Yıkama Performansı**
AKYOL N. H., ASLAN KILAVUZ S.
7. uluslararası katılımlı jeokimya sempozyumu, Turkey, 16 - 18 May 2016

- XIX. Distribution and Recovery of Crude Oil in Various Types of Porous Media and Heterogeneity Configurations**
geoffrey r t, ghosh j., greenberg r., AKYOL N. H.
AGU Fall Meeting San Francisco, CA. USA, San-Francisco, Costa Rica, 14 - 18 December 2015
- XX. Non ideal transport of atrazine in two natural porous media**
AKYOL N. H., ÖZBAY İ., ÖZBAY B., AKYOL G.
Fifth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2015) and SECOTOX Conference, Greece, 14 - 18 June 2015
- XXI. In situ chemical oxidation of residual TCE in epikarst**
AKYOL N. H., YOLCUBAL İ.
World Academy of Science, Engineering and Technology, Amsterdam, Netherlands, 9 - 11 September 2009, vol.57, pp.353-355

Supported Projects

- Akyol N. H., Uzun A., Project Supported by Other Official Institutions, Erzurum, Karabük, Samsun, Trabzon Tabiat Varlıklarını Koruma Bölge Komisyonu İlleri Mevcut ve Potansiyel Doğal Sit Alanların Ekolojik Temelli Bilimsel Araştırma Projesi, 2022 - 2023
- AKYOL N. H., AYVA A., Project Supported by Higher Education Institutions, Gölcük Ovası tarım topraklarında atrazin ve metribüzün herbisitlerinin taşınım ve tutunum davranışlarının incelenmesi, 2020 - 2023
- Akyol N. H., Uzun A., Project Supported by Other Official Institutions, Muğla Datça Potansiyel Sit Alanı Ekolojik Temelli Bilimsel Araştırma Projesi, 2022 - 2022
- AKYOL N. H., TİCK G., COPTY N., Project Supported by Higher Education Institutions, Yüzey Aktif Madde İle Ham Petrol Geri Kazanım Potansiyelinin Değerlendirilmesi, 2021 - 2022
- PEKŞEN E., KAPLANVURAL İ., AKYOL N. H., DURDAĞ D., Project Supported by Higher Education Institutions, AKİFER KİRLİLİĞİNİN VE TEMİZLENME SÜRECİNİN JEOFİZİK VE JEOKİMYASAL YÖNTEMLERLE İZLENMESİ, 2019 - 2022
- AKYOL N. H., ACILIOĞLU T., Project Supported by Higher Education Institutions, Akifer Sistemlerinde Depolanmış DNAPL Karışımlarının Yerinde Kimyasal Yıkama Teknolojisi İle İslahının İncelenmesi, 2018 - 2022
- Akyol N. H., Uzun A., Project Supported by Other Official Institutions, Denizli Salbakos Potansiyel Sit Alanı Ekolojik Temelli Bilimsel Araştırma Projesi, 2021 - 2021
- ŞAHİN Y., AKYOL N. H., KASAP S. S., Project Supported by Higher Education Institutions, Taguchi ve YSA Deneysel Tasarımları ile Tetrakloroetilen Kaynak Zonların Kompleks Şeker ile İslah Optimizasyonunun Belirlenmesi, 2021 - 2021
- AKYOL N. H., KARAYÜNLÜ BOZBAŞ S., AKYOL G., Project Supported by Higher Education Institutions, Kozmetik sektöründe kullanılan biyolojik yüzey aktif madde ile organik kirleticilerin ıslah performansının değerlendirilmesi, 2020 - 2021
- Akyol N. H., Uzun A., Culture and Tourism Ministry, İzmir Çeşme Kültür ve Turizm Koruma ve Gelişim Proje Alanı, 2020 - 2021
- ŞENOL L., AKYOL N. H., Project Supported by Higher Education Institutions, Taguchi deneysel tasarım yöntemi kullanarak kirlenmiş toprak ıslahı optimizasyonu, 2020 - 2021
- Akyol N. H., Uzun A., Project Supported by Other Official Institutions, Sivas İli Gürün Gökpınar Gölü Potansiyel Doğal Sit Alanı Ekolojik Temelli Bilimsel Araştırma Projesi, 2020 - 2020
- Akyol N. H., Uzun A., Project Supported by Other Official Institutions, Muğla Dalaman Kapıkargın Potansiyel Sit Alanı Ekolojik Temelli Bilimsel Araştırma Projesi, 2020 - 2020
- Gündüz Ö. C., Akyol N. H., Project Supported by Higher Education Institutions, Kocaeli Bölgesi Tarım Topraklarında Pestisitlerin Mobilitesinin İncelenmesi, 2018 - 2020
- AKYOL N. H., Project Supported by Higher Education Institutions, TETRAKİOROETİLEN (PCE) İLE KİRLENMİŞ GÖZENEKLİ ORTAMLARIN KOMPLEKS ŞEKER (HPCD) İLE İSLAH PERFORMANSININ İNCELENMESİ, 2018 - 2019
- AKYOL N. H., Project Supported by Higher Education Institutions, MUĞLA BÖLGESİ TARIM TOPRAĞINDA ATRAZİN HERBİSİTİNİN TUTUNUMU VE TAŞINIMININ İNCELENMESİ, 2017 - 2018
- AKYOL N. H., TİCK G. R., Project Supported by Higher Education Institutions, HAM PETROL İLE KİRLENMİŞ GÖZENEKLİ

ORTAMLARIN YÜZEY AKTİF MADDE İLE ISLAHI, 2016 - 2018

ÖZBAY B., ÖZBAY İ., AKYOL N. H., Project Supported by Higher Education Institutions, ANTALYA BÖLGESİNDEKİ TARIM TOPRAKLARINDA 2,4 D VE GLAYPHOSATE HERBİSİTLERİNİN TAŞINMA VE TUTUNMA DAVRANIŞLARININ İNCELENMESİ, 2016 - 2017

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Non Academic Experience

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