

## Prof. SİBEL AKAR

### Personal Information

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### International Researcher IDs

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ScopusID: 24605160400

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### Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), Turkey 1999 - 2003

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), Turkey 1997 - 1999

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1993 - 1997

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Mihalççık yöresi killerinin özelliklerinin belirlenmesi ve su arıtımında kullanılabilirliğinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, 2003

Postgraduate, Şaphane bölgesi alünitlerinin kimyasal analiz ve ürünlerinin özelliklerinin belirlenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), 1999

### Research Areas

Chemistry, Analytical Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2013 - Continues

Associate Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2007 - 2013

Assistant Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2006 - 2007

Research Assistant, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 1997 - 2006

## Academic and Administrative Experience

Bilim ve Araştırma Politikaları Kurulu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2021 - Continues

Enstitü Yönetim Kurulu Üyesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü, 2018 - Continues

Ethics Committee Member, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2020 - 2021

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2020 - 2020

Ethics Committee Member, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2018 - 2020

Head of Department, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2016 - 2020

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2019 - 2019

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2018 - 2018

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2017 - 2017

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2016 - 2016

Head of Department, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2013 - 2016

## Courses

### Doctorate

Modern Analiz Yöntemleri, Doctorate, 2017 - 2018

### Undergraduate

Aletli Analiz, Undergraduate, 2017 - 2018

Analitik Kimya, Undergraduate, 2017 - 2018

Eser Elementlerin Zengileştirilmesi-I, Undergraduate, 2017 - 2018

Aletli Analiz II, Undergraduate, 2017 - 2018

ANALİTİK KİMYA I, Undergraduate, 2016 - 2017

ANALİTİK KİMYA II, Undergraduate, 2016 - 2017

## Jury Memberships

Award, ODTÜ PROF. DR. MUSTAFA N. PARLAR EĞİTİM VE ARAŞTIRMA VAKFI ARAŞTIRMA TEŞVİK ÖDÜLÜ, Orta Doğu Teknik Üniversitesi, November, 2020

Award, ODTÜ PROF. DR. MUSTAFA N. PARLAR EĞİTİM VE ARAŞTIRMA VAKFI ARAŞTIRMA TEŞVİK ÖDÜLÜ, Orta Doğu Teknik Üniversitesi, November, 2020

Associate Professor Exam, Associate Professor Exam, Kahramanmaraş Sütçü İmam Üniversitesi, October, 2020

Associate Professor Exam, Associate Professor Exam, ÜAK, August, 2020

Award, TÜBA-GEBİP, September, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kütahya Dumlupınar Üniversitesi, January, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Van Yüzüncü Yıl Üniversitesi, January, 2019

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Siirt Üniversitesi, December, 2018

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Hitit Üniversitesi, July, 2018

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Batman Üniversitesi, September, 2017

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kütahya Dumlupınar Üniversitesi, March, 2016

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Anadolu Üniversitesi, January, 2016

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Eskişehir Osmangazi Üniversitesi, July, 2015

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Hitit Üniversitesi, July, 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **ANN-assisted comprehensive screening of silica gel-alunite composite sorbent system for efficient adsorption of toxic nickel ions: Batch and continuous mode water treatment applications**  
Tunali Akar S., Rüstemoğlu S., TÜRKYILMAZ S., SAYIN F., AKAR T.  
Chemosphere, vol.373, 2025 (SCI-Expanded)
- II. **Strength and functionalized borage biochar for effective elimination of nickel contamination: Insight into batch and dynamic flow mode treatment applications**  
Tunali Akar S., Agin D., Sayın F., Akar T.  
Environmental Research, vol.258, 2024 (SCI-Expanded)
- III. **Green biosourced composite for efficient reactive dye decontamination: immobilized *Gibberella fujikuroi* on maize tassel biomatrix**  
Çelik S., Kurtulus Tas S., Sayın F., Akar T., Tunali Akar S.  
Environmental Science and Pollution Research, vol.31, no.17, pp.25836-25848, 2024 (SCI-Expanded)
- IV. **Highly effective fish scale-based biochar as a recyclable and green material for toxic cadmium ion bioremoval from liquid phase**  
Akar T., Karadağ Atılğan M., Çelik S., Sayın F., Tunali Akar S.  
Biomass Conversion and Biorefinery, vol.14, no.4, pp.4869-4882, 2024 (SCI-Expanded)
- V. **Gel-entrapped biomass of *Lactarius salmonicolor* for the effective treatment of aquatic  $Co^{2+}$  and  $Mn^{2+}$  pollution**  
Sayın F., Akar S., Tunc D., Akar T.  
BIOMASS CONVERSION AND BIOREFINERY, vol.14, no.3, pp.4257-4271, 2024 (SCI-Expanded)
- VI. **A novel sustainable and eco-friendly biosourced hybrid sorbent for toxic  $Pb^{2+}$  decontamination: Nano metal oxide functionalized salt-tolerant plant biomass**  
AKAR T., Alim S., Meltem G., SAYIN F., Tunali Akar S.  
Journal of Cleaner Production, vol.439, 2024 (SCI-Expanded)
- VII. ***Mucor* cells passively immobilized on rose waste phyto-biomass: An eco-friendly hybrid material for the biotreatment of reactive dye contamination**  
Akar T., Duman N., Çelik S., Sayın F., Tunali Akar S.  
SUSTAINABLE MATERIALS AND TECHNOLOGIES, vol.38, 2023 (SCI-Expanded)
- VIII. **Chitosan Functionalized Alunite as a Green Composite for Sorption and Preconcentration of Copper: From Parametric Optimization to Application**  
Tunali Akar S., Tunc D., Sayın F., Akar T.  
Journal of Polymers and the Environment, vol.31, no.4, pp.1359-1372, 2023 (SCI-Expanded)
- IX. **A hybrid biocomposite of *Thamnidium elegans*/olive pomace/chitosan for efficient bioremoval of toxic copper**  
Akar T., Uzunel Can Ü. G., Çelik S., Sayın F., Tunali Akar S.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.221, pp.865-873, 2022 (SCI-Expanded)
- X. **Parametric optimization of  $Cu(II)$  removal process by a metakaolin-based geopolymer: Batch and continuous process design**  
Tunali Akar S., Çolo H., SAYIN F., Kara I., AKAR T.  
Journal of Cleaner Production, vol.366, 2022 (SCI-Expanded)
- XI. **Magnetically functionalized alunite as a recyclable and ecofriendly adsorbent for efficient removal of  $Pb^{2+}$**   
Akar S., Balk Y., Sayın F., Akar T.

JOURNAL OF WATER PROCESS ENGINEERING, vol.48, 2022 (SCI-Expanded)

- XII. **From green biowaste to water treatment applications: Utilization of modified new biochar for the efficient removal of ciprofloxacin**  
Sayın F., Akar S., Akar T.  
SUSTAINABLE CHEMISTRY AND PHARMACY, vol.24, 2021 (SCI-Expanded)
- XIII. **Design and modeling of the decolorization characteristics of a regenerable and eco-friendly geopolymer: Batch and dynamic flow mode treatment aspects**  
Tunali Akar S., Koc E., Sayın F., Kara I., Akar T.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.298, 2021 (SCI-Expanded)
- XIV. **Chitosan immobilization and Fe<sub>3</sub>O<sub>4</sub> functionalization of olive pomace: An eco-friendly and recyclable Pb<sup>2+</sup> biosorbent**  
Sayın F., Tunali Akar S., Akar T., Çelik S., Gedikbey T.  
CARBOHYDRATE POLYMERS, vol.269, 2021 (SCI-Expanded)
- XV. **Attached culture of Gibberella fujikuroi for biocomposite sorbent production and ciprofloxacin sequestration applications**  
Akar T., Sayın F., Çelik S., Akar S.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.96, no.9, pp.2610-2619, 2021 (SCI-Expanded)
- XVI. **Efficacy of green waste-derived biochar for lead removal from aqueous systems: Characterization, equilibrium, kinetic and application**  
Hammo M. M., Akar T., Sayın F., Çelik S., Akar S.  
Journal of Environmental Management, vol.289, 2021 (SCI-Expanded)
- XVII. **Immobilized *Mucor plumbeus* on sepiolite support: A potential decolorization agent suitable for batch and continuous mode water treatment**  
Akar T., Kurşunlu G., Çelik S., Akar S.  
Journal of Cleaner Production, vol.294, 2021 (SCI-Expanded)
- XVIII. **Adsorption of Diazo Dye from Aqueous Solutions by Magnetic Montmorillonite Composite**  
Tunali Akar S., Ozdemir I., Sayın F., Akar T.  
Clean - Soil, Air, Water, vol.49, no.2, 2021 (SCI-Expanded)
- XIX. **Microbial cells immobilized on natural biomatrix as a new potential ecofriendly biosorbent for the biotreatment of reactive dye contamination**  
Celik S., Duman N., Sayın F., Tunali Akar S., Akar T.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.39, 2021 (SCI-Expanded)
- XX. **A Natural Montmorillonite-Based Magsorbent as an Effective Scavenger for Cadmium Contamination**  
Akar S., Sayın F., Ozdemir I., Tunc D.  
WATER AIR AND SOIL POLLUTION, vol.231, 2020 (SCI-Expanded)
- XXI. **Phlebia gigantea cells immobilized on renewable biomass matrix as potential ecofriendly scavenger for lead contamination**  
Akar T., Aydin P., Celik S., Tunali Akar S.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, pp.16177-16188, 2020 (SCI-Expanded)
- XXII. **A passively immobilized novel biomagsorbent for the effective biosorptive treatment of dye contamination**  
Divriklioglu M., AKAR S., AKAR T.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.25, pp.25834-25843, 2019 (SCI-Expanded)
- XXIII. **A novel sorbent for removal of reactive textile dye: TDPA-KCl**  
SATIR İ. T., SAYIN F., Gedikbey T., AKAR S.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.23, pp.23279-23291, 2019 (SCI-Expanded)
- XXIV. **Biosorptive detoxification of zearalenone biotoxin by surface-modified renewable biomass: process dynamics and application**  
AKAR T., GÜRAY T., Yilmazer D. T., AKAR S.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.99, no.4, pp.1850-1861, 2019 (SCI-Expanded)
- XXV. **Process design and potential use of a regenerable biomagsorbent for effective decolorization**

**process**

Karagoz R., AKAR S., TÜRKYILMAZ S., Celik S., AKAR T.

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.93, pp.554-565, 2018 (SCI-Expanded)

- XXVI. **Study on the performance of metakaolin based geopolymer for Mn(II) and Co(II) removal**  
Kara I, Tunc D., SAYIN F., AKAR S.  
APPLIED CLAY SCIENCE, vol.161, pp.184-193, 2018 (SCI-Expanded)
- XXVII. **Conversion of natural mineral to effective geosorbent by coating MnO<sub>2</sub> and its application potential for dye contaminated wastewaters**  
AKAR S., Aslan S., AKAR T.  
JOURNAL OF CLEANER PRODUCTION, vol.189, pp.887-897, 2018 (SCI-Expanded)
- XXVIII. **Biosorption of Basic Blue 7 by fungal cells immobilized on the green-type biomatrix of Phragmites australis spongy tissue**  
AKAR T., Uzun C., Celik S., AKAR S.  
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.20, no.2, pp.145-152, 2018 (SCI-Expanded)
- XXIX. **Anionically reinforced hydrogel network entrapped fungal cells for retention of cadmium in the contaminated aquatic media**  
Celik S., AKAR S., ŞÖLENER M., AKAR T.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.204, pp.583-593, 2017 (SCI-Expanded)
- XXX. **Metakaolin based geopolymer as an effective adsorbent for adsorption of zinc(II) and nickel(II) ions from aqueous solutions**  
Kara I, Yilmazer D., AKAR S.  
APPLIED CLAY SCIENCE, vol.139, pp.54-63, 2017 (SCI-Expanded)
- XXXI. **The feasibility of Thamnidium elegans cells for color removal from real wastewater**  
AKAR T., SAYIN F., TÜRKYILMAZ S., AKAR S.  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.105, pp.316-325, 2017 (SCI-Expanded)
- XXXII. **Chitosan-alunite composite: An effective dye remover with high sorption, regeneration and application potential**  
AKAR S., San E., AKAR T.  
CARBOHYDRATE POLYMERS, vol.143, pp.318-326, 2016 (SCI-Expanded)
- XXXIII. **Surface-modified scarlet firethorn: an eco-friendly and effective dye remover with excellent regeneration potential**  
AKAR S., Yilmazer D., AKAR T.  
DESALINATION AND WATER TREATMENT, vol.57, no.12, pp.5546-5553, 2016 (SCI-Expanded)
- XXXIV. **Removal of Cadmium and Manganese by an Ecofriendly Biomass**  
AKAR S., SAYIN F., Yilmazer D., AKAR T.  
CLEAN-SOIL AIR WATER, vol.44, no.2, 2016 (SCI-Expanded)
- XXXV. **Treatment design and characteristics of a biosorptive decolorization process by a green type sorbent**  
AKAR T., TÜRKYILMAZ S., Celik S., AKAR S.  
JOURNAL OF CLEANER PRODUCTION, vol.112, pp.4844-4853, 2016 (SCI-Expanded)
- XXXVI. **Biosorption potential of surface-modified waste sugar beet pulp for the removal of Reactive Yellow 2 (RY2) anionic dye**  
Tunali Akar S., Celik S., Tunc D., Yetimoglu Balk Y., AKAR T.  
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.6, pp.1044-1054, 2016 (SCI-Expanded)
- XXXVII. **Effective biodecolorization potential of surface modified lignocellulosic industrial waste biomass**  
AKAR S., Yilmazer D., Celik S., Balk Y. Y., AKAR T.  
CHEMICAL ENGINEERING JOURNAL, vol.259, pp.286-292, 2015 (SCI-Expanded)
- XXXVIII. **Multivariate optimization of the decolorization process by surface modified biomaterial: Box-Behnken design and mechanism analysis**  
Akar S., Sayin F., Türkyılmaz S., Akar T.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.21, pp.13055-13068, 2014 (SCI-Expanded)

- XXXIX. **Characterization and application of plant-based magnetic biomaterial for batch and fixed-bed mode sequestration of lead from synthetic and real effluents**  
AKAR T., Balk Y. Y., Tuna O., AKAR S.  
ECOLOGICAL ENGINEERING, vol.61, pp.251-257, 2013 (SCI-Expanded)
- XL. **Utilization of *Thamnidium elegans* fungal culture in environmental cleanup: A reactive dye biosorption study**  
AKAR T., Arslan S., AKAR S.  
ECOLOGICAL ENGINEERING, vol.58, pp.363-370, 2013 (SCI-Expanded)
- XLI. **On the utilization of a lignocellulosic waste as an excellent dye remover: Modification, characterization and mechanism analysis**  
AKAR S., Yilmazer D., Celik S., Balk Y. Y., AKAR T.  
CHEMICAL ENGINEERING JOURNAL, vol.229, pp.257-266, 2013 (SCI-Expanded)
- XLII. **Improved biosorption potential of *Thuja orientalis* cone powder for the biosorptive removal of Basic Blue 9**  
AKAR S., Balk Y. Y., Tuna O., AKAR T.  
CARBOHYDRATE POLYMERS, vol.94, no.1, pp.400-408, 2013 (SCI-Expanded)
- XLIII. **Nickel removal characteristics of an immobilized macro fungus: equilibrium, kinetic and mechanism analysis of the biosorption**  
AKAR T., Celik S., Ari A. G., AKAR S.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.88, no.4, pp.680-689, 2013 (SCI-Expanded)
- XLIV. **Effective decolorization potential of *Thamnidium elegans*: Biosorption optimization, modelling, characterization and application studies**  
AKAR T., Kulcu A., AKAR S.  
CHEMICAL ENGINEERING JOURNAL, vol.221, pp.461-468, 2013 (SCI-Expanded)
- XLV. **Enhanced adsorption of Acid Red 88 by an excellent adsorbent prepared from alunite**  
AKAR S., Alp T., Yilmazer D.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.88, no.2, pp.293-304, 2013 (SCI-Expanded)
- XLVI. **Chemical modification of a plant origin biomass using cationic surfactant ABDAC and the biosorptive decolorization of RR45 containing solutions**  
AKAR T., Ozkara E., Celik S., TÜRKYILMAZ S., AKAR S.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.101, pp.307-314, 2013 (SCI-Expanded)
- XLVII. **Removal of Pb<sup>2+</sup> ions from contaminated solutions by microbial composite: Combined action of a soilborne fungus *Mucor plumbeus* and alunite matrix**  
AKAR T., Celik S., Ari A. G., AKAR S.  
CHEMICAL ENGINEERING JOURNAL, vol.215, pp.626-634, 2013 (SCI-Expanded)
- XLVIII. **Dithiocarbamated *Symphoricarpus albus* as a potential biosorbent for a reactive dye**  
Kara I., AKAR S., AKAR T., Ozcan A.  
CHEMICAL ENGINEERING JOURNAL, vol.211, pp.442-452, 2012 (SCI-Expanded)
- XLIX. **Ammonium pyrrolidine dithiocarbamate anchored *Symphoricarpus albus* biomass for lead(II) removal: Batch and column biosorption study**  
AKAR S., Arslan D., Alp T.  
JOURNAL OF HAZARDOUS MATERIALS, vol.227, pp.107-117, 2012 (SCI-Expanded)
- L. **Biosorption potential of the waste biomaterial obtained from *Cucumis melo* for the removal of Pb<sup>2+</sup> ions from aqueous media: Equilibrium, kinetic, thermodynamic and mechanism analysis**  
AKAR S., Arslan S., Alp T., Arslan D., AKAR T.  
CHEMICAL ENGINEERING JOURNAL, vol.185, pp.82-90, 2012 (SCI-Expanded)
- LI. **Decolorization of Reactive Blue 49 contaminated solutions by *Capsicum annuum* seeds: Batch and continuous mode biosorption applications**  
AKAR S., Gorgulu A., AKAR T., Celik S.  
CHEMICAL ENGINEERING JOURNAL, vol.168, no.1, pp.125-133, 2011 (SCI-Expanded)
- LII. **Phosphate removal potential of the adsorbent material prepared from thermal decomposition of**

**alunite ore-KCl mixture in environmental cleanup**

AKAR S., Tosun I., Ozcan A., Gedikbey T.

DESALINATION, vol.260, pp.107-113, 2010 (SCI-Expanded)

- LIII. **Untreated clay with high adsorption capacity for effective removal of C.I. Acid Red 88 from aqueous solutions: Batch and dynamic flow mode studies**  
AKAR S., Uysal R.  
CHEMICAL ENGINEERING JOURNAL, vol.162, no.2, pp.591-598, 2010 (SCI-Expanded)
- LIV. **Biosorption performance of surface modified biomass obtained from *Pyracantha coccinea* for the decolorization of dye contaminated solutions**  
AKAR T., Celik S., AKAR S.  
CHEMICAL ENGINEERING JOURNAL, vol.160, no.2, pp.466-472, 2010 (SCI-Expanded)
- LV. **Determination of Copper in Water Samples after Solid-phase Extraction Using Dimethylglyoxime-modified Silica**  
ANILAN B., Gedikbey T., AKAR S.  
CLEAN-SOIL AIR WATER, vol.38, no.4, pp.344-352, 2010 (SCI-Expanded)
- LVI. **Biosorption of a reactive textile dye from aqueous solutions utilizing an agro-waste**  
AKAR S., ÖZCAN A. S., AKAR T., Oezcan A., Kaynak Z.  
DESALINATION, vol.249, no.2, pp.757-761, 2009 (SCI-Expanded)
- LVII. **Assessment of the biosorption characteristics of a macro-fungus for the decolorization of Acid Red 44 (AR44) dye**  
AKAR T., Tosun I., Kaynak Z., Kavas E., Incirkus G., AKAR S.  
JOURNAL OF HAZARDOUS MATERIALS, vol.171, pp.865-871, 2009 (SCI-Expanded)
- LVIII. **Assessment of cationic dye biosorption characteristics of untreated and non-conventional biomass: *Pyracantha coccinea* berries**  
AKAR T., ANILAN B., Gorgulu A., AKAR S.  
JOURNAL OF HAZARDOUS MATERIALS, vol.168, pp.1302-1309, 2009 (SCI-Expanded)
- LIX. **Biosorption of lead(II) ions onto waste biomass of *Phaseolus vulgaris* L.: estimation of the equilibrium, kinetic and thermodynamic parameters**  
Ozcan A. S., Tunali S., AKAR T., Ozcan A.  
Desalination, vol.244, pp.188-198, 2009 (SCI-Expanded)
- LX. **Removal of chromium (VI) ions from aqueous solutions by using Turkish montmorillonite clay: effect of activation and modification**  
AKAR S., Yetimoglu Y., Gedikbey T.  
DESALINATION, vol.244, pp.97-108, 2009 (SCI-Expanded)
- LXI. **An attractive agro-industrial by-product in environmental cleanup: Dye biosorption potential of untreated olive pomace**  
AKAR T., Tosun I., Kaynak Z., Ozkara E., Yeni O., Sahin E. N., AKAR S.  
JOURNAL OF HAZARDOUS MATERIALS, vol.166, pp.1217-1225, 2009 (SCI-Expanded)
- LXII. **Investigation of the biosorption characteristics of lead(II) ions onto *Symphoricarpus albus*: Batch and dynamic flow studies**  
AKAR S., Gorgulu A., ANILAN B., Kaynak Z., AKAR T.  
JOURNAL OF HAZARDOUS MATERIALS, vol.165, pp.126-133, 2009 (SCI-Expanded)
- LXIII. **Removal of copper(II) ions from synthetic solution and real wastewater by the combined action of dried *Trametes versicolor* cells and montmorillonite**  
AKAR S., AKAR T., Kaynak Z., ANILAN B., ÇABUK A., Tabak O., Demir T. A., Gedikbey T.  
HYDROMETALLURGY, vol.97, pp.98-104, 2009 (SCI-Expanded)
- LXIV. **Biosorption of Reactive Blue 49 dye under batch and continuous mode using a mixed biosorbent of macro-fungus *Agaricus bisporus* and *Thuja orientalis* cones**  
AKAR S., Gorgulu A., Kaynak Z., ANILAN B., AKAR T.  
CHEMICAL ENGINEERING JOURNAL, vol.148, no.1, pp.26-34, 2009 (SCI-Expanded)
- LXV. **Enhanced biosorption of nickel(II) ions by silica-gel-immobilized waste biomass: Biosorption**

**characteristics in batch and dynamic flow mode**

AKAR T., Kaynak Z., Ulusoy S., Yuvaci D., Onari G., AKAR S.

JOURNAL OF HAZARDOUS MATERIALS, vol.163, pp.1134-1141, 2009 (SCI-Expanded)

- LXVI. **Decolorization of a textile dye, reactive red 198 (RR198), by *Aspergillus parasiticus* fungal biosorbent**  
Akar S., Akar T., Cabuk A.  
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- LXXI. **Biosorption performance of *Botrytis cinerea* fungal by-products for removal of Cd(II) ions from aqueous solutions**  
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- LXXIII. ***Thuja orientalis* kozalakları üzerine immobilize edilen *Agaricus bisporus* biyosorbenti ile Reaktif Kırmızı 45 (RR45) tekstil boyasının biyosorpsiyonu**  
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- LXXIV. ***Thuja orientalis* üzerine immobilize edilmiş makro fungus *Agaricus bisporus* kullanımı ile Reaktif Mavisi (BR49) tekstil boyasının biyosorpsiyon özelliklerinin incelenmesi**  
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- CIV. **Determination of Optimum Conditions for Removal of Zn(II) From Aqueous Solutions by Using Botrytis cinerea Biomass**  
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4th Aegean Analytical Chemistry Days, 29 September - 03 October 2004
- CV. **In vitro studies on zinc tolerance of some mushroom strains**  
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4th International Congress "Environmental Micropaleontology, Microbiology and Meiobenthology, 13 - 18 September 2004
- CVI. **Bakteriyal biyokütle ile Cu<sup>2+</sup> biyosorpsiyonu için optimum koşulların belirlenmesi**  
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V. Ulusal Kromatografi Kongresi, Turkey, 30 June - 02 July 2004
- CVII. **Sulu çözeltilerden Cu ve Pb iyonlarının uzaklaştırılmasında Mihaliççik yöresi kilinin kullanılması ve kilin adsorpsiyon özelliklerinin belirlenmesi**  
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- CX. **Şaphane bölgesi alümitlerinin analizi**  
AKAR S., GEDİKBAY T.  
XIII. Ulusal Kimya Kongresi, Turkey, 31 August - 04 September 1999

## Supported Projects

AKAR S., Project Supported by Higher Education Institutions, Doğal Adsorbanlar ile Sulardaki Ağır Metallerin Giderimi için Deney Tasarımı, 2015 - 2015

AKAR S., Project Supported by Higher Education Institutions, Borago officinalisden Hazırlanan Biyosorban ile Kadmiyum(II) ve Mangan(II) Biyosorpsiyonu, 2014 - 2015

AKAR S., Project Supported by Higher Education Institutions, Manyetik Alünit ile Sulu Çözeltilerden Bazı Ağır Metal İyonlarının Giderimif, 2013 - 2015

AKAR S., Project Supported by Higher Education Institutions, Çeşitli Boyarmaddelerin Montmorillonit Üzerine Adsorpsiyon Verimine Kalsinasyon Sıcaklığının Etkisinin İstatistiksel Olarak Değerlendirilmesi, 2013 - 2013

## Activities in Scientific Journals

Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, Committee Member, 2023 - Continues

JOURNAL OF HAZARDOUS MATERIALS MANAGEMENT - HANDLING - DISPOSAL - RISK - ASSESSMENT, Committee Member, 2006 - 2020

## Memberships / Tasks in Scientific Organizations

Türkiye Kimya Derneği, Member, 1997 - Continues, Turkey

## Metrics

Publication: 241

Citation (WoS): 4501

Citation (Scopus): 5232

H-Index (WoS): 39

H-Index (Scopus): 39

## Awards

Akar S., Teşvik Ödülü, Tübitak, July 2013

Akar S., Fen bilimleri alanında uluslar arası makale atf birinciliği, Eskişehir Osmangazi Üniversitesi, June 2013

Akar S., Fen Bilimleri alanında uluslararası makale atf birinciliği, Eskişehir Osmangazi Üniversitesi, June 2011

## Non Academic Experience

METKO HÜTTENES ALBERTUS KİMYA, KİMYAGER (İŞLETME ŞEFİ)