



# RECEP AKKAYA

## PROF.DR.

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### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 1. Chitosan-poly(acrylamide-co-maleic acid) composite synthesis, characterization, and investigation of protein adsorption behavior**  
AKKAYA R., AKKAYA B., TAŞKIN ÇAKICI G.  
POLYMER BULLETIN, 2022 (Hakemli Dergi)
- 2. Thiamine alleviates cognitive impairment and epileptogenesis by relieving brain inflammation in PTZ-induced kindling rat model**  
KARABULUT S., FİLİZ A. K. , AKKAYA R.  
NEUROLOGICAL RESEARCH, 2022 (Hakemli Dergi)
- 3. Chemical and biological characterization of sulfated chitosan oligomer as heparin mimics**  
Kocabay S., Bahar M. R. , TEKİN S., AKKAYA R., AKKAYA B.  
POLYMERS & POLYMER COMPOSITES, 2021 (Hakemli Dergi)
- 4. Positive effects of angiotensin-converting enzyme (ACE) inhibitor, captopril, on pentylene tetrazole-induced epileptic seizures in mice**  
TAŞTEMUR Y., Gumus E., ERGÜL M., Ulu M., AKKAYA R., Ozturk A., TAŞKIRAN A. Ş.  
TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH, cilt.19, sa.3, ss.637-643, 2020 (Hakemli Dergi)
- 5. Terbium adsorption onto polyhydroxyethylmethacrylate hydroxyapatite composite and its modified composition by phytic acid**  
Akkaya R.  
DESALINATION AND WATER TREATMENT, cilt.52, ss.1440-1447, 2014 (Hakemli Dergi)
- 6. Removal of radioactive elements from aqueous solutions by adsorption onto polyacrylamide-expanded perlite: Equilibrium, kinetic, and thermodynamic study**  
Akkaya R.  
DESALINATION, cilt.321, ss.3-8, 2013 (Hakemli Dergi)
- 7. Uranium and thorium adsorption from aqueous solution using a novel polyhydroxyethylmethacrylate-pumice composite**  
Akkaya R.  
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, cilt.120, ss.58-63, 2013 (Hakemli Dergi)
- 8. New low-cost composite adsorbent synthesis and characterization**  
AKKAYA R., AKKAYA B.  
DESALINATION AND WATER TREATMENT, cilt.51, ss.3497-3504, 2013 (Hakemli Dergi)
- 9. Adsorption isotherms, kinetics, thermodynamics and desorption studies for uranium and thorium ions from aqueous solution by novel microporous composite P(HEMA-EP)**  
AKKAYA R., AKKAYA B.

JOURNAL OF NUCLEAR MATERIALS, cilt.434, ss.328-333, 2013 (Hakemli Dergi)

10. **Effects of pH, concentration and temperature on radionuclides sorption onto polyhydroxyethyl methacrylate-expanded perlite composite**  
Akkaya R.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, cilt.295, sa.1, ss.351-355, 2013 (Hakemli Dergi)
11. **Synthesis and Characterization of Poly(2-hydroxyethylmethacrylate-hydroxyapatite) a Novel Composite for the Removal of Lead(II) from Aqueous Solutions**  
Akkaya R.  
CLEAN-SOIL AIR WATER, cilt.40, sa.11, ss.1257-1264, 2012 (Hakemli Dergi)
12. **Removal of radio nuclides of the U- and Th- series from aqueous solutions by adsorption onto Polyacrylamide-expanded perlite: Effects of pH, concentration and temperature**  
Akkaya R.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, cilt.688, ss.80-83, 2012 (Hakemli Dergi)
13. **Synthesis and characterization of a new low-cost composite for the adsorption of rare earth ions from aqueous solutions**  
Akkaya R.  
CHEMICAL ENGINEERING JOURNAL, cilt.200, ss.186-191, 2012 (Hakemli Dergi)
14. **Thermodynamic parameters of  $Tl^+$ ,  $Ra^{2+}$ ,  $Bi^{3+}$  and  $Ac^{3+}$  adsorption onto polyhydroxyethylmethacrylate-hydroxyapatite composite**  
Akkaya R.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, cilt.292, sa.2, ss.771-775, 2012 (Hakemli Dergi)
15. **Production and immobilization of a novel thermoalkalophilic extracellular amylase from bacilli isolate**  
AKKAYA B., YENİDÜNYA A. F., AKKAYA R.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.50, sa.4, ss.991-995, 2012 (Hakemli Dergi)
16.  **$Tl-208$ ,  $Pb-212$ ,  $Bi-212$ ,  $Ra-226$  and  $Ac-228$  adsorption onto polyhydroxyethylmethacrylate-bentonite composite**  
AKKAYA R., ULUSOY U.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, cilt.664, sa.1, ss.98-102, 2012 (Hakemli Dergi)
17. **Cross-Linked Bentonite-Acrylamide-histidine-Based Metal-Chelate Affinity Microcomposites for Lysozyme Separation From Egg White**  
AKKAYA B., AKKAYA R.  
SEPARATION SCIENCE AND TECHNOLOGY, cilt.48, sa.2, ss.272-280, 2012 (Hakemli Dergi)
18. **Separation of uranium and thorium in aqueous solution using polyhydroxyethylmethacrylate-hydroxyapatite novel composite**  
Akkaya R.  
DESALINATION AND WATER TREATMENT, cilt.50, ss.180-188, 2012 (Hakemli Dergi)
19. **A Crosslinked Carboxylic Acid Containing Cation Exchange Monolithic Cryogel for Human Serum Albumin Separation**  
AKKAYA B., AKKAYA R.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.49, sa.9, ss.736-743, 2012 (Hakemli Dergi)
20. **Bentonite-acrylamide-histidine-Cu(II) Microcomposite for Cytochrome c Adsorption**  
AKKAYA B., AKKAYA R.  
POLYMERS & POLYMER COMPOSITES, cilt.20, sa.9, ss.829-835, 2012 (Hakemli Dergi)
21. **Adsorptive features of polyacrylamide-apatite composite for  $Pb^{2+}$ ,  $UO_2^{2+}$  and  $Th^{4+}$**   
ULUSOY U., AKKAYA R.  
JOURNAL OF HAZARDOUS MATERIALS, cilt.163, sa.1, ss.98-108, 2009 (Hakemli Dergi)
22. **Adsorptive features of chitosan entrapped in polyacrylamide hydrogel for  $Pb^{2+}$ ,  $UO_2^{2+}$ , and  $Th^{4+}$**

## Diğer Dergilerde Yayınlanan Makaleler

- 1. Cytochrome c adsorption in a continuous flow system by using Cu(II)-chelated magnetic affinity particles**  
AKKAYA R., AKKAYA B.  
BANGLADESH JOURNAL OF MEDICAL SCIENCE, cilt.20, sa.1, ss.159-163, 2021 (Hakemli Dergi)
- 2. Investigation of the effect of REM sleep deprivation on epileptic seizures caused by pentylenetetrazole in mice**  
AKKAYA R., KARABULUT S., TAŞKIRAN A. Ş.  
Experimental Biomedical Research, cilt.3, sa.3, ss.149-156, 2020 (Hakemli Dergi)
- 3. The Effect of Wireless (Wi-Fi) Electromagnetic Fields on Oxidative Stress in Rat Kidney Tissues: A Biophysical Analysis**  
AKKAYA R.  
Cumhuriyet Medical Journal, cilt.42, sa.1, ss.67-71, 2020 (Hakemli Dergi)
- 4. Biophysical and computational comparison on the binding affinity of important proteins of folic acid and its metal complexes**  
AKKAYA R.  
Cumhuriyet Medical Journal, cilt.41, sa.4, ss.685-690, 2019 (Hakemli Dergi)
- 5. The effects of wireless on carbonic anhydrase and acetylcholinesterase enzyme activities in some tissues related to respiratory, excretory and reproductive systems of rats**  
DURNA DAŞTAN S., TASLİMİ P., GÜRSES F., AKKAYA R., GÜLÇİN İ.  
Cumhuriyet Medical Journal, cilt.41, ss.1-9, 2019 (Hakemli Dergi)
- 6. Theoretical Investigation of the Interactions between Cytochrome C and Some Heavy Metal Ions: A Biophysical Analysis**  
AKKAYA R.  
International Journal of Industrial Biotechnology and Biomaterials, cilt.5, sa.2, ss.27-31, 2019 (Hakemli Dergi)
- 7. Wi-Fi decreases melatonin protective effect and increases hippocampal neuronal damage in pentylenetetrazole induced model seizures in rats**  
AKKAYA R., Gümüş E., AKKAYA B., KARABULUT S., Gülmez K., KARADEMİR M., TAŞTEMUR Y., Taşkıran A. Ş.  
Pathophysiology, 2019 (Hakemli Dergi)
- 8. New Composite, Poly(Hydroxyethylmethacrylate-Expanded Perlite), for Single step Separation of Egg White Lysozyme**  
AKKAYA B., AKKAYA R.  
Cumhuriyet Science Journal, cilt.39, sa.3, ss.694-702, 2018 (Hakemli Dergi)
- 9. Adsorption of Lead on to Poly(acrylamidemaleic acid)-Based Hydrogel Composites**  
ULUSOY U., AKKAYA R.  
Hacettepe J. Biol. Chem, cilt.39, sa.3, ss.257-264, 2011 (Hakemli Dergi)
- 10. Preparation and Characterization of Poly(acrylamide/maleic acid)-based hydrogels Composites**  
AKKAYA R., ULUSOY U.  
Hacettepe Journal of Biology and Chemistry, 2011 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- 1. Manyetik Alanın Kanser Hücreleri Üzerine Etkisini Biyokimyasal ve Biyofiziksel Açından İnceleme**  
AKKAYA B., AKKAYA R.  
Farklı Bilim Alanlarında Güncel FarmakoTerapik Çalışmalar, Doç. Dr. Fikriye Yasemin ÖZATGK Doç. Dr. Orhan

ÖZATĞK, Editör, İksad Yayınevi, Ankara, ss.97-112, 2022

2. **REM Uyku Yoksunluğu ve Epileptik Nöbetler Üzerine Biyofiziksel Açıdan Bakış**  
AKKAYA B., AKKAYA R.  
Hastalık Mekanizmalarında Yeni Görüşler, Doç. Dr. Fikriye Yasemin ÖZATİK Doç. Dr. Orhan ÖZATİK, Editör, İksad Yayınevi, Ankara, ss.19-30, 2022
3. **Enzimatik Bakış**  
AKKAYA B., AKKAYA R.  
Güncel Biyokimya Çalışmaları II, Doğan YÜCEL, Editör, Akademisyen Yayınevi A.Ş., Ankara, ss.31-49, 2021
4. **Vitamin D ve Epilepsi İlişkisi**  
AKKAYA R., AKKAYA B.  
Güncel Fizyoloji-Histoloji-Embriyoloji Çalışmaları II, Mümin Alper ERDOĞAN, Editör, Akademisyen Yayınevi, Ankara, ss.117-125, 2021

### Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

1. **New Heparin Mimetic Material And Its Anticancer Activity**  
AKKAYA B., AKKAYA R.  
Biohealth Congress, Afyon, Türkiye, 24 Şubat 2022, ss.1-5
2. **Purification of Yeast Metalloprotease by Affinity Chromatography**  
AKKAYA B., YENİDÜNYA A. F. , AKKAYA R.  
IV. Ulusal Afinite Teknikleri Kongresi konferansı, Konya, Türkiye, 23 - 27 Haziran 2014
3. **REM uyku yoksunluğu sonrası Ptz'nin neden olduğu Epileptik nöbetlerin Fare hipokampusünde Gaba ve Glutamat Düzeyleri üzerine Etkisi**  
AKKAYA R., KARABULUT S.  
3. Uluslararası Hipokrat Tıp ve Sağlık Bilimleri Kongresi, 6 - 07 Mart 2020
4. **The Effect of Ptz-Induced Epileptic Seizures After REM Sleep Deprivation on Gaba and Glutamate Levels in Mouse Hippocampus**  
AKKAYA R., KARABULUT S.  
3rd International Hippocrates Congress on Medical and Health Sciences, Ankara, Türkiye, 6 - 07 Mart 2020
5. **Spectrophotometric Determination and Extraction of Chlorpromazine From Environmental and Pharmaceutical Samples**  
ALTUNAY N., AKKAYA R., AKKAYA B.  
International Eurasian Congress on Natural Nutrition Healthy Life, Ankara, Türkiye, 12 - 15 Temmuz 2018, ss.959-965
6. **Metformin ve Valproik Asit Kombinasyonunun Farelerde Pentilentetrazolle Oluşturulan Epileptik Nöbetler ve Nöbet Sonrası Oluşan Hipokampal Nöron Hasarı Üzerine Etkisi**  
TAŞKIRAN A. Ş. , GÜLMEZ K., ULU M., GÜMÜŞ E., AKKAYA R., ÖZDEMİR E.  
ULUSLARARASI KATILIMLI NÖRODEJERASYON/NÖROREJENERASYON ÇALIŞTAYI, 4 - 05 Mayıs 2018
7. **Yeni Hidrazin Türevlerinin S-Transferaz Enzim Aktivitesine Etkisinin Araştırılması**  
AKKAYA R., KOÇYİĞİT Ü. M. , GÜRDERE M. B. , BUDAK Y., CEYLAN M., TEMEL Y., TAYSI M. R. , GÜLÇİN İ.  
Uluslararası Katımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 22 - 25 Mart 2018
8. **Adsorption Of Heavy Metal Ions In Tattoos Ink By Modified Bentonite Clay**  
AKKAYA B., AKKAYA R.  
International 2nd European Congress on Tatto and Pigment Research, Brugge/Belgium, Belçika, 28 - 30 Nisan 2015
9. **N İzopropil Akrilamid Akrilik asit Monolitik Kriyojel Kolonlar**  
AKKAYA B., AKKAYA R.  
Kromatografi Kongresi, Türkiye, 4 - 07 Temmuz 2011

## Verdiği Dersler

İş Sağlığı ve Güvenliği, Ön Lisans, 2015 - 2016  
Temel Kimya, Ön Lisans, 2015 - 2016  
Klinik Uygulama, Ön Lisans, 2015 - 2016  
Bilim Adamları ve Buluşları, Ön Lisans, 2015 - 2016  
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İş Sağlığı ve Güvenliği, Ön Lisans, 2015 - 2016  
Klinik Uygulama, Ön Lisans, 2015 - 2016  
Organik Kimya, Ön Lisans, 2014 - 2015  
Temel Bilgi Teknolojileri - I, Ön Lisans, 2015 - 2016  
Radyasyondan Korunma, Ön Lisans, 2015 - 2016  
Temel Bilgi Teknolojileri Kullanımı, Ön Lisans, 2015 - 2016  
Temel Kimya, Ön Lisans, 2015 - 2016  
Temel Kimya, Ön Lisans, 2015 - 2016  
Araştırma Projesi, Ön Lisans, 2015 - 2016  
Organik Kimya, Ön Lisans, 2014 - 2015  
Çevre Sağlığı ve Koruması, Ön Lisans, 2015 - 2016  
Temel Bilgi Teknolojileri Kullanımı, Ön Lisans, 2014 - 2015  
Temel Kimya, Ön Lisans, 2015 - 2016  
Çevre Sağlığı ve Koruması, Ön Lisans, 2015 - 2016  
Radyasyondan Korunma, Ön Lisans, 2015 - 2016  
Temel Kimya, Ön Lisans, 2015 - 2016  
Organik Kimya, Ön Lisans, 2013 - 2014  
Bilgisayar, Ön Lisans, 2014 - 2015  
Bilgisayar, Ön Lisans, 2014 - 2015  
Temel Kimya, Ön Lisans, 2013 - 2014  
Organik Kimya, Ön Lisans, 2012 - 2013

## Metrikler

Yayın: 46  
Atıf (WoS): 371  
Atıf (Scopus): 211  
H-İndeks (WoS): 9  
H-İndeks (Scopus): 4

## Araştırma Alanları

Sağlık Bilimleri, Temel Bilimler