



# RECEP AKKAYA

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

- 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- 4. Positive effects of angiotensin-converting enzyme (ACE) inhibitor, captopril, on pentylentetrazole-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, vol.19, no.3, pp.637-643, 2020 (Peer-Reviewed Journal)
- 5. Terbium adsorption onto polyhydroxyethylmethacrylatehydroxyapatite composite and its modified composition by phytic acid**  
Akkaya R.  
DESALINATION AND WATER TREATMENT, vol.52, pp.1440-1447, 2014 (Peer-Reviewed Journal)
- 6. Removal of radioactive elements from aqueous solutions by adsorption onto polyacrylamide-expanded perlite: Equilibrium, kinetic, and thermodynamic study**  
Akkaya R.  
DESALINATION, vol.321, pp.3-8, 2013 (Peer-Reviewed Journal)
- 7. Uranium and thorium adsorption from aqueous solution using a novel polyhydroxyethylmethacrylate-pumice composite**  
Akkaya R.  
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, vol.120, pp.58-63, 2013 (Peer-Reviewed Journal)
- 8. New low-cost composite adsorbent synthesis and characterization**  
AKKAYA R., AKKAYA B.  
DESALINATION AND WATER TREATMENT, vol.51, pp.3497-3504, 2013 (Peer-Reviewed Journal)
- 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, vol.434, pp.328-333, 2013 (Peer-Reviewed Journal)

10. **Effects of pH, concentration and temperature on radionuclides sorption onto polyhydroxyethyl methacrylate-expanded perlite composite**  
Akkaya R.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.295, no.1, pp.351-355, 2013 (Peer-Reviewed Journal)
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, vol.40, no.11, pp.1257-1264, 2012 (Peer-Reviewed Journal)
12. **Removal of radio nuclides of the U- and Th- series from aqueous solutions by adsorption onto Polyacryamide-expanded perlite: Effects of pH, concentration and temperature**  
Akkaya R.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.688, pp.80-83, 2012 (Peer-Reviewed Journal)
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, vol.200, pp.186-191, 2012 (Peer-Reviewed Journal)
14. **Thermodynamic parameters of TI+, Ra2+, Bi3+ and Ac3+ adsorption onto polyhydroxyethylmethacrylate-hydroxyapatite composite**  
Akkaya R.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.292, no.2, pp.771-775, 2012 (Peer-Reviewed Journal)
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, vol.50, no.4, pp.991-995, 2012 (Peer-Reviewed Journal)
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, vol.664, no.1, pp.98-102, 2012 (Peer-Reviewed Journal)
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, vol.48, no.2, pp.272-280, 2012 (Peer-Reviewed Journal)
18. **Separation of uranium and thorium in aqueous solution using polyhydroxyethylmethacrylate-hydroxyapatite novel composite**  
Akkaya R.  
DESALINATION AND WATER TREATMENT, vol.50, pp.180-188, 2012 (Peer-Reviewed Journal)
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, vol.49, no.9, pp.736-743, 2012 (Peer-Reviewed Journal)
20. **Bentonite-acrylamide-histidine-Cu(II) Microcomposite for Cytochrome c Adsorption**  
AKKAYA B., AKKAYA R.  
POLYMERS & POLYMER COMPOSITES, vol.20, no.9, pp.829-835, 2012 (Peer-Reviewed Journal)
21. **Adsorptive features of polyacrylamide-apatite composite for Pb<sup>2+</sup>, UO<sub>2</sub><sup>2+</sup> and Th<sup>4+</sup>**

ULUSOY U., AKKAYA R.

JOURNAL OF HAZARDOUS MATERIALS, vol.163, no.1, pp.98-108, 2009 (Peer-Reviewed Journal)

22. **Adsorptive features of chitosan entrapped in polyacrylamide hydrogel for Pb<sup>2+</sup>, UO<sub>2</sub><sup>2+</sup>, and Th<sup>4+</sup>**

AKKAYA R., ULUSOY U.

JOURNAL OF HAZARDOUS MATERIALS, vol.151, pp.380-388, 2008 (Peer-Reviewed Journal)

## Articles Published in Other Journals

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, vol.20, no.1, pp.159-163, 2021 (Peer-Reviewed Journal)
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, vol.3, no.3, pp.149-156, 2020 (Peer-Reviewed Journal)
3. **The Effect of Wireless (Wi-Fi) Electromagnetic Fields on Oxidative Stress in Rat Kidney Tissues: A Biophysical Analysis**  
AKKAYA R.  
Cumhuriyet Medical Journal, vol.42, no.1, pp.67-71, 2020 (Peer-Reviewed Journal)
4. **Biophysical and computational comparison on the binding affinity of important proteins of folic acid and its metal complexes**  
AKKAYA R.  
Cumhuriyet Medical Journal, vol.41, no.4, pp.685-690, 2019 (Peer-Reviewed Journal)
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., TAŞLİMİ P., GÜRSES F., AKKAYA R., GÜLÇİN İ.  
Cumhuriyet Medical Journal, vol.41, pp.1-9, 2019 (Peer-Reviewed Journal)
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, vol.5, no.2, pp.27-31, 2019 (Peer-Reviewed Journal)
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., TAŞKIRAN A. Ş.  
Pathophysiology, 2019 (Peer-Reviewed Journal)
8. **New Composite, Poly(Hydroxyethylmethacrylate-Expanded Perlite), for Single step Separation of Egg White Lysozyme**  
AKKAYA B., AKKAYA R.  
Cumhuriyet Science Journal, vol.39, no.3, pp.694-702, 2018 (Peer-Reviewed Journal)
9. **Adsorption of Lead on to Poly(acrylamidemaleic acid)-Based Hydrogel Composites**  
ULUSOY U., AKKAYA R.  
Hacettepe J. Biol. Chem, vol.39, no.3, pp.257-264, 2011 (Peer-Reviewed Journal)
10. **Preparation and Characterization of Poly(acrylamide/maleic acid)-based hydrogels Composites**  
AKKAYA R., ULUSOY U.  
Hacettepe Journal of Biology and Chemistry, 2011 (Peer-Reviewed Journal)

## Books & Book Chapters

- 1. Manyetik Alanın Kanser Hücreleri Üzerine Etkisini Biyokimyasal ve Biyofiziksel Açıdan İnceleme**  
AKKAYA B., AKKAYA R.  
in: Farklı Bilim Alanlarında Güncel FarmakoTerapik Çalışmalar, Doç. Dr. Fikriye Yasemin ÖZATĞK Doç. Dr. Orhan ÖZATĞK, Editor, İksad Yayınevi, Ankara, pp.97-112, 2022
- 2. REM Uyku Yoksunluğu ve Epileptik Nöbetler Üzerine Biyofiziksel Açıdan Bakış**  
AKKAYA B., AKKAYA R.  
in: Hastalık Mekanizmalarında Yeni Görüşler, Doç. Dr. Fikriye Yasemin ÖZATİK Doç. Dr. Orhan ÖZATİK, Editor, İksad Yayınevi, Ankara, pp.19-30, 2022
- 3. Enzimatik Bakış**  
AKKAYA B., AKKAYA R.  
in: Güncel Biyokimya Çalışmaları II, Doğan YÜCEL, Editor, Akademisyen Yayınevi A.Ş., Ankara, pp.31-49, 2021
- 4. Vitamin D ve Epilepsi İlişkisi**  
AKKAYA R., AKKAYA B.  
in: Güncel Fiziyojji-Histoloji-Embriyoloji Çalışmaları II, Mümin Alper ERDOĞAN, Editor, Akademisyen Yayınevi, Ankara, pp.117-125, 2021

## Refereed Congress / Symposium Publications in Proceedings

- 1. New Heparin Mimetic Material And Its Anticancer Activity**  
AKKAYA B., AKKAYA R.  
Biohealth Congress, Afyon, Turkey, 24 February 2022, pp.1-5
- 2. Purification of Yeast Metalloprotease by Affinity Chromatography**  
AKKAYA B., YENİDÜNYA A. F. , AKKAYA R.  
IV. Ulusal Afinite Teknikleri Kongresi konferansı, Konya, Turkey, 23 - 27 June 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 March 2020
- 4. The Effect of Ptz-Induced Epileptic Seizures After REM SleepDeprivation on Gaba and Glutamate Levels in Mouse Hippocampus**  
AKKAYA R., KARABULUT S.  
3rd International Hippocrates Congress on Medical and HealthSciences, Ankara, Turkey, 6 - 07 March 2020
- 5. Spectrophotometric Determination and Extraction ofChlorpromazine From Environmental and PharmaceuticalSamples**  
ALTUNAY N., AKKAYA R., AKKAYA B.  
International Eurasian Congress on Natural Nutrition Healthy Life, Ankara, Turkey, 12 - 15 July 2018, pp.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 May 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 Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 22 - 25 March 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, Belgium, 28 - 30 April 2015

## 9. N İzopropil Akrilamid Akrilik asit Monolitik Kriyojel Kolonlar

AKKAYA B., AKKAYA R.

Kromatografi Kongresi, Turkey, 4 - 07 July 2011

### Courses

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

### Metrics

Publication: 46  
Citation (WoS): 371  
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H-Index (WoS): 9  
H-Index (Scopus): 4

### Research Areas

Health Sciences, Natural Sciences