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International Researcher IDs

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Learning Knowledge

Doctorate

2005 - 2009

Sivas Cumhuriyet University, Turkey

Postgraduate

2003 - 2005

Sivas Cumhuriyet University, Turkey

Postgraduate

2001 - 2003

Zonguldak Bülent Ecevit University, Turkey

Undergraduate

1997 - 2001

Zonguldak Bülent Ecevit University, Faculty of Science, Kimya Bölümü, Turkey

Supported Projects

1. Akkaya B., Akkaya R., TUBITAK Project, Investigation of Blood Shear Voltage-Sensitive Protamine Release, 2024 - 2027
2. Akkaya B., Akkaya R., Yerliyurt B., Project Supported by Higher Education Institutions, Investigation of the Effect of Low Molecular Weight Heparin, Enoxaparin, on Pentylentetrazol (PTZ)-Induced Neuronal Damage in C6 and HT-22 Cell Lines, 2024 - 2024
3. Akkaya B., Kapancık S., Akkaya R., Project Supported by Higher Education Institutions, Investigation of Apoptosis of Alginate And Its Derivatives In Breast Cancer (Cell Line), 2023 - 2024
4. Akkaya B., Akkaya R., Kapancık S., Şahin A., Project Supported by Higher Education Institutions, Determination of Enzyme Levels Involved in Polyamine Synthesis in Pulmonary Hypertension Patients, 2023 - 2024
5. Akkaya B., Akkaya R., Sarıaydın N., Project Supported by Higher Education Institutions, Preparation, chemical and biological characterization of magnetic and hydrophobic modified heparin derivative, 2022 - 2024
6. Akkaya B., Akkaya R., Nazlım A., Project Supported by Higher Education Institutions, In Vitro Investigation of Cisplatin Release from Magnetic Nanoparticles Under Magnetic Field, 2022 - 2023
7. Sarıaydın N., Akkaya R., Nazlım A., Akkaya B., Project Supported by Higher Education Institutions, Synthesis and

characterization of chitosan-poly(acrylamide-maleic acid) composite and study of lysozyme adsorption from aqueous solution, 2022 - 2023

8. Akkaya B., Karademir M., Güneş H., Akkaya R., Project Supported by Other Private Institutions, The effect of Mecina hemostopper on sciatic nerve healing, 2018 - 2019
9. Karademir M., Taşkıran A. Ş., Akkaya B., Akkaya R., Project Supported by Other Private Institutions, Effects of Astaxin on peripheral nerve damage in rats., 2018 - 2019
10. Akkaya B., Akkaya R., Project Supported by Higher Education Institutions, Radioactive metal adsorption to poly acrylamide co acrylic acid composite, 2018 - 2019
11. Akkaya B., Gümüş E., Taşkıran A. Ş., Akkaya R., Project Supported by Higher Education Institutions, Effect of melatonin on pentylenetetrazol-induced epileptic seizures in rats during Wi-Fi exposure., 2018 - 2019
12. Akkaya B., Akkaya R., Project Supported by Higher Education Institutions, Composite Synthesis and Adsorption Applications, 2015 - 2016
13. Akkaya B., Akkaya R., Project Supported by Higher Education Institutions, Isolation of Lactobacillus producing Lipase enzyme from traditional yoghurt samples, 2015 - 2016
14. Akkaya B., Akkaya R., Project Supported by Higher Education Institutions, Antibody Purification by Lectin Affinity Chromatography, 2005 - 2006
15. Akkaya B., Akkaya R., Project Supported by Higher Education Institutions, Preparation of Magnetic Metal Chelate Affinity sorbents for Purification of Stochrome C, 2002 - 2005

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Synthesis and Characterization of Magnetic Stearic Acid Modified Sulfated Alginate and Investigation of the Cytotoxicity and Apoptosis in MCF-7 Cell Line**
AKKAYA B., KAPANCIK S., AKKAYA R., Sarıaydın N.
Journal of Polymers and the Environment, vol.32, no.12, pp.6461-6475, 2024 (SCI-Expanded)
2. **Synthesis, Characterization, and Investigation of Doxorubicin Drug Release Properties of Poly(acrylamide-co-acrylic Acid/Maleic Acid)- Hydroxyapatite Composite Hydrogel.**
Akkaya B., Akkaya R.
Medicinal chemistry (Shariqah (United Arab Emirates)), vol.20, pp.537-545, 2024 (SCI-Expanded)
3. **Magnetic chitosan oligomer-sulfonate-stearic acid triple combination as cisplatin carrier for site-specific targeted on MCF-7 cancer cells: Preparation, characterization and in vitro experiments**
AKKAYA B., AKKAYA R., Nazlim A.
Chemical Biology and Drug Design, vol.102, no.4, pp.692-706, 2023 (SCI-Expanded)
4. **Antimicrobially effective protein-loaded metal chelated chitosan composite**
AKKAYA B., AKKAYA R., Taşkın Kafa A. H.
Journal of Polymer Engineering, vol.43, no.8, pp.748-758, 2023 (SCI-Expanded)
5. **Chitosan-poly(acrylamide-co-maleic acid) composite synthesis, characterization, and investigation of protein adsorption behavior**
Akkaya R., Akkaya B., Taşkın Çakıcı G.
POLYMER BULLETIN, vol.80, no.4, pp.4153-4168, 2023 (SCI-Expanded)
6. **Doxorubicin loaded pH-responsive chitosan-poly(acrylamide-maleic acid) composite hydrogel for anticancer targeting**
AKKAYA B., AKKAYA R., Celikkaya S. I., Sarıaydın N., Raheem K. Y.
Journal of Molecular Structure, vol.1274, 2023 (SCI-Expanded)
7. **Molecular docking to investigate the inhibitory activity and the role of nitric oxide in anticonvulsant effects of vitamin D on pentylenetetrazole-induced epileptic seizures in rats**
AKKAYA R., AKKAYA B., Bello R. O.
Journal of Molecular Structure, vol.1273, 2023 (SCI-Expanded)
8. **Experimental, DFT and MD simulation studies of Mordant Black 11 dye adsorption onto polyaniline in aqueous solution**

Hajjaoui H., Khnifira M., Soufi A., Abdennouri M., Akkaya S., AKKAYA R., Barka N.
JOURNAL OF MOLECULAR LIQUIDS, vol.364, 2022 (SCI-Expanded)

9. **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, vol.44, no.10, pp.902-909, 2022 (SCI-Expanded)
10. **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, vol.29, no.9_suppl, 2021 (SCI-Expanded)
11. **Positive effects of angiotensin-converting enzyme (ACE) inhibitor, captopril, on pentylenetetrazole-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 (SCI-Expanded)
12. **Production, purification, and characterization of metalloprotease from Candida kefyr 41 PSB**
Yavuz S., KOCABAY S., ÇETİNKAYA S., AKKAYA B., AKKAYA R., YENİDÜNYA A. F., BAKICI M. Z.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.94, pp.106-113, 2017 (SCI-Expanded)
13. **Terbium adsorption onto polyhydroxyethylmethacrylate-hydroxyapatite composite and its modified composition by phytic acid**
Akkaya R.
DESALINATION AND WATER TREATMENT, vol.52, pp.1440-1447, 2014 (SCI-Expanded)
14. **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 (SCI-Expanded)
15. **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 (SCI-Expanded)
16. **New low-cost composite adsorbent synthesis and characterization**
AKKAYA R., AKKAYA B.
DESALINATION AND WATER TREATMENT, vol.51, pp.3497-3504, 2013 (SCI-Expanded)
17. **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 (SCI-Expanded)
18. **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 (SCI-Expanded)
19. **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 (SCI-Expanded)
20. **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, vol.688, pp.80-83, 2012 (SCI-Expanded)
21. **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 (SCI-Expanded)
22. **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 (SCI-Expanded)
23. **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 (SCI-Expanded)
24. **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 (SCI-Expanded)
25. **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 (SCI-Expanded)
26. **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 (SCI-Expanded)
27. **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 (SCI-Expanded)
28. **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 (SCI-Expanded)
29. **Adsorptive features of chitosan entrapped in polyacrylamide hydrogel for Pb2+, UO22+, and Th4+**
AKKAYA R., ULUSOY U.
JOURNAL OF HAZARDOUS MATERIALS, vol.151, pp.380-388, 2008 (SCI-Expanded)

Articles Published in Other Journals

1. **Protective Effect of Metformin Alone or in Combination with Valproic acid on Pentylentetrazole-Induced Seizures in Mice**
GÜMÜŞ E., ERGÜL M., GÜLMEZ K., ULU M., AKKAYA R., ÖZDEMİR E., TAŞKIRAN A. Ş.
KSÜ Tıp Fakültesi Dergisi, vol.17, no.3, pp.15-21, 2022 (Peer-Reviewed Journal)
2. **Meloxicam, a selective COX-2 inhibitor, displays anticonvulsive effects in pentylentetrazole-induced acute seizures in mice through GABA and glutamate mediated mechanism**
ŞAHİN B., AKKAYA R., KARABULUT S.
Experimental Biomedical Research, vol.5, no.1, pp.48-57, 2022 (Peer-Reviewed Journal)
3. **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 (ESCI)
4. **Investigation of the effect of REM sleep deprivation on epileptic seizures caused by pentylentetrazole in mice**

AKKAYA R., KARABULUT S., TAŞKIRAN A. Ş.

Experimental Biomedical Research, vol.3, no.3, pp.149-156, 2020 (Peer-Reviewed Journal)

5. **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)
6. **Modification by natural sources to reduce immuno-reactivity of milk proteins**
AKKAYA R., AKKAYA B., ÇETİNKAYA S.
CUMHURİYET SCIENCE JOURNAL, vol.41, no.1, pp.235-238, 2020 (Peer-Reviewed Journal)
7. **Dizi ve Filmlerde Hemşire İmajının Kültür Endüstrisi ve Popüler Kültür Bağlamında İncelenmesi: Türkiye'den İki Vakanın Analizi**
DARICI S., AKKAYA R.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.3, no.2, pp.219-224, 2019 (Peer-Reviewed Journal)
8. **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)
9. **Dizi ve Filmlerde Hemşire İmajının Kültür Endüstrisi ve Popüler Kültür Bağlamında İncelenmesi: Türkiye'den İki Vakanın Analizi**
AKKAYA R., DARICI S.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.3, no.2, pp.219-224, 2019 (Peer-Reviewed Journal)
10. **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)
11. **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)
12. **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 (Scopus)
13. **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)
14. **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)
15. **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. **Yaşlanmayı Açıklayan Biyolojik Mekanizmaların En Önemlisi; Serbest Radikal Teorisi**

- AKKAYA B., AKKAYA R.
in: Fیزیoterapide güncel yaklaşımlar, AKKAYA RECEP, Editor, BİDGE Yayınları, Ankara, pp.155-163, 2024
2. **Kanser Hücrelerinin Biyofiziksel Açından Değerlendirilmesi**
AKKAYA R., AKKAYA B.
in: Biyofiziksel Bakış Açısından Kanser, AKKAYA RECEP, Editor, BİDGE Yayınları, Ankara, pp.65-77, 2024
3. **INTERNATIONAL INTERDISCIPLINARY CONGRESS OF WOMEN IN SCIENCE "Diversity, Careers, Interdisciplinarity"**
AKKAYA R.
IKSAD Publications – 2023, Sivas, 2023
4. **Current Debates on Health Sciences 4**
Akkaya B. (Editor), Akkaya R. (Editor)
Bilgin Kültür Sanat Yayınları (Bilgin Culture and Art Publications), Ankara, 2022
5. **Current Debates in Health Sciences 5**
Akkaya R. (Editor), Akkaya B. (Editor)
Bilgin Kültür Sanat Yayınları (Bilgin Culture and Art Publications), Ankara, 2022
6. **Current Debates in Health Sciences 6**
Akkaya B. (Editor), Akkaya R. (Editor)
Bilgin Kültür Sanat Yayınları (Bilgin Culture and Art Publications), Ankara, 2022
7. **Examining the Effect of Magnetic Field on Cancer Cells from a Biochemical and Biophysical Perspective**
Akkaya B., Akkaya R.
in: Current Pharmacotherapeutic Studies in Different Scientific Fields, Doç. Dr. Fikriye Yasemin ÖZATİK, Doç. Dr. Orhan ÖZATİK, Editor, İksad Yayınevi, Ankara, pp.97-112, 2022
8. **Biophysical Perspective on REM Sleep Deprivation and Epileptic Seizures**
Akkaya B., Akkaya R.
in: New Insights in Disease Mechanisms, Doç. Dr. Fikriye Yasemin ÖZATİK Doç. Dr. Orhan ÖZATİK, Editor, İksad Yayınevi, Ankara, pp.19-30, 2022
9. **The Relationship Between Vitamin D and Epilepsy**
Akkaya R., Akkaya B.
in: CURRENT PHYSIOLOGY - HISTOLOGY - EMBRYOLOGY STUDIES II, Mümin Alper ERDOĞAN, Editor, Akademisyen Yayınevi (Academician Publishing House), Ankara, pp.117-125, 2021
10. **Enzymatic Overview**
Akkaya B., Akkaya R.
in: Current Biochemistry Studies II, Doğan YÜCEL, Editor, Akademisyen Yayınevi (Academician Publishing House), Ankara, pp.31-49, 2021

Refereed Congress / Symposium Publications in Proceedings

1. **Investigation of The Cytotoxic Effect of Magnetic Alginate Derivative on C-6 and MCF-7 Cell Line in The Presence of Magnetic Field**
Sarıaydın N., Akkaya B., Akkaya R.
INTERNATIONAL INTERDISCIPLINARY CONGRESS OF WOMEN IN SCIENCE, Sivas, Turkey, 26 - 28 April 2024, vol.1, pp.340-350
2. **Characterization of Doxorubicin Loaded Hydroxyapatite Powder**
Akkaya B., Akkaya R., Yerliyurt B. N.
International Interdisciplinary Congress of Women In Science-II, Sivas, Turkey, 26 - 28 April 2024, vol.1, pp.162-169
3. **The Role of The Nitric Oxide Pathway In The Anticonvulsant Effects of Vitamin D on Epileptic Seizures in Rats**
Akkaya R.

1st International Karatekin Science and Technology Conference, Çankırı, Turkey, 01 September 2022

4. **New Heparin Mimetic Material And Its Anticancer Activity**
AKKAYA B., AKKAYA R.
Biohealth Congress, Afyon, Turkey, 24 February 2022, pp.1-5
5. **Purification of Yeast Metalloprotease by Affinity Chromatography**
Akkaya B., Yenidünya A. F., Akkaya R.
IV. Ulusal Afinite Teknikleri Kongresi konferansı (IV. National Affinity Techniques Congress conference), Konya, Turkey, 23 - 27 June 2014
6. **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, Turkey, 6 - 07 March 2020
7. **Effect of Metformin and Valproic Acid Combination on Pentylentetrazol-Induced Epileptic Seizures and Post-Seizure Hippocampal Neuron Damage in Mice**
Taşkıran A. Ş., Gülmez K., Ulu M., Gümüş E., Akkaya R., Özdemir E.
Uluslararası Katılımlı Nörodejerasyon/Nörorejenerasyon Çalıştayı (Neurodegeneration/Neuroregeneration Workshop with International Participation), Ankara, Turkey, 4 - 05 May 2018
8. **Investigation of the Effect of New Hydrazine Derivatives on S-Transferase Enzyme Activity**
Akkaya R., Koçyiğit Ü. M., Gürdere M. B., Budak Y., Ceylan M., Temel Y., Taysi M. R., Gülçin I.
Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi (6th Pharmaceutical Chemistry: Active Pharmaceutical Substance Design, Synthesis, Production and Standardization Congress with International Participation), Ankara, Turkey, 22 - 25 March 2018
9. **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
10. **N Isopropyl Acrylamide Acrylic acid Monolithic Cryogel Columns**
Akkaya B., Akkaya R.
Kromatografi Kongresi (Chromatography Congress), Ankara, 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: 67
Citation (WoS): 771
Citation (Scopus): 550
H-Index (WoS): 14
H-Index (Scopus): 12

Research Areas

Health Sciences, Natural Sciences

Non Academic Experience

Ministry, Türkiye National Agency, Türkiye National Agency
Ministry, Ministry of Education, Board of Education and Discipline