

# Prof. MÜRÜVVET YURDAKOÇ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: P-2212-2019

ScopusID: 55667437500

Yoksis Researcher ID: 4829

## Education Information

Doctorate, Dicle University, Institute Of Science, Kimya (Dr), Turkey 1987 - 1992

Postgraduate, Dicle University, Institute Of Science, Kimya (YI) (Tezli), Turkey 1984 - 1987

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey 1974 - 1979

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Benzoik Asit, Piridin, Anilin ve Bazı Türevlerinin Dioksan-Su Çözeltisinde pKa Belirlemeleri ve Hammett İlişkileri, Dicle University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1992

Postgraduate, Piridin, Anilin ve Bazı Türevlerinin Çeşitli Çözücülerdeki pKa Değerlerinin Belirlenmesi, Dicle University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1987

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Dokuz Eylul University, Fen Fakültesi, Kimya Bölümü, 2006 - Continues

Associate Professor, Dokuz Eylul University, Fen Fakültesi, Kimya Bölümü, 2000 - 2006

## Academic and Administrative Experience

Dokuz Eylul University, 2013 - 2016

Dokuz Eylul University, 2009 - 2012

Dokuz Eylul University, 2003 - 2010

## Courses

### Postgraduate

Organometalik Bileşikler, Postgraduate, 2022 - 2023

### Undergraduate

Bor ve Silisyum Kimyası, Undergraduate, 2023 - 2024

Kimya II (Temel Kimya), Undergraduate, 2023 - 2024

Bitirme Projesi, Undergraduate, 2023 - 2024

Kimya I (TEMEL KİMYA), Undergraduate, 2023 - 2024

Anorganik Kimya I, Undergraduate, 2023 - 2024

ANORGANİK KİMYA II, Undergraduate, 2021 - 2022

KİM 1110 KİMYA II, Undergraduate, 2021 - 2022

Metal ve Ametal Kimyası, Undergraduate, 2022 - 2023

Bitirme Projesi, Undergraduate, 2022 - 2023

Anorganik Kimya, Undergraduate, 2022 - 2023

KİMYA I, Undergraduate, 2022 - 2023

## Supervised Theses

YURDAKOÇ M., Preparation and characterization of supported nanocatalysts with magnetic properties, Postgraduate, Y.ALDEMİR(Student), 2016

YURDAKOÇ M., Polifenol-Fe(III) komplekslerinin ve tannik asit reçinenin sentezi, karakterizasyonu ve uygulamaları, Doctorate, P.ERDEM(Student), 2013

YURDAKOÇ M., Bor-nişasta komplekslerinin sentezi, karakterizasyonu ve antimikrobiyal aktiviteleri, Doctorate, E.ANT(Student), 2010

YURDAKOÇ M., Bakır (II) asetilasetonat kompleksinin katı destek maddeleri üzerine aktarımı ve karakterizasyonu, Postgraduate, S.COŞKUN(Student), 2010

YURDAKOÇ M., Liquid-liquid extraction of some metal ions with organophosphorus compounds, Postgraduate, E.ANT(Student), 2005

YURDAKOÇ M., Boron adsorption, Postgraduate, S.KARAHAN(Student), 2004

YURDAKOÇ M., Liquid-liquid extraction of boron, Postgraduate, P.ÖZAY(Student), 2004

YURDAKOÇ M., Sütunlanmış kil katalizörlerin hazırlanması ve karakterizasyonu, Postgraduate, F.OK(Student), 2000

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

- I. **ZnO/PMMA Nanofibers for the Photocatalytic Water Remediation**  
Polat K., ANT BURSALI E., YURDAKOÇ M.  
Journal of Cluster Science, vol.36, no.1, 2025 (SCI-Expanded)
- II. **The Photocatalytic Performance of Ag /TiO<sub>2</sub>/Nylon 6/PMMA System**  
Polat K., ANT BURSALI E., YURDAKOÇ M., Yurdakoç K.  
Arabian Journal for Science and Engineering, vol.49, no.7, pp.9443-9450, 2024 (SCI-Expanded)
- III. **Magnetically functionalized molecularly imprinted polymer for curcumin adsorption by experimental design**  
Ozturk S., Demir N., Yurdakoç M.  
POLYMER BULLETIN, no.2, pp.1587-1601, 2023 (SCI-Expanded)
- IV. **Genipin Cross-linked Boron Doped Hydrogels: Evaluation of Biological Activities**

- Ant Bursalı E., Abacı D., Kızıl M., Yurdakoc M., , , ,  
JOURNAL OF POLYMER MATERIALS, vol.38, no.3-4, pp.231-245, 2021 (SCI-Expanded)
- V. **Solar Decolorization of Methylene Blue by Magnetic MgFe<sub>2</sub>O<sub>4</sub>-MWCNT/Ag<sub>3</sub>VO<sub>4</sub> Visible Active Photocatalyst**  
Polat K., YURDAKOÇ M.  
WATER AIR AND SOIL POLLUTION, vol.229, no.10, 2018 (SCI-Expanded)
- VI. **Impregnation of different ionic liquids onto cationic starch and their comparison in the extraction of Th(IV)**  
ANT BURSALI E., SEYHAN BOZKURT S., YURDAKOÇ M.  
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.2, pp.364-372, 2016 (SCI-Expanded)
- VII. **Catalytic conversion of carbon dioxide into cyclic carbonates by Cu(II) and Ni(II) acetylacetonates anchored onto Siral 80**  
Coskun S., Tasci Z., Ulusoy M., YURDAKOÇ M.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.4, pp.600-610, 2014 (SCI-Expanded)
- VIII. **Preparation and Characterization of Tannic Acid Resin: Study of Boron Adsorption**  
Erdem P., ANT BURSALI E., YURDAKOÇ M.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.32, no.4, pp.1036-1044, 2013 (SCI-Expanded)
- IX. **Synthesis of Chitosan Beads as Boron Sorbents**  
ANT BURSALI E., SEKİ Y., SEYHAN BOZKURT S., Delener M., YURDAKOÇ M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.122, no.1, pp.657-665, 2011 (SCI-Expanded)
- X. **Synthesis, characterization and in vitro antimicrobial activities of boron/starch/polyvinyl alcohol hydrogels**  
Ant Bursalı E., Coskun S., Kızıl M., Yurdakoç M.  
CARBOHYDRATE POLYMERS, vol.83, no.3, pp.1377-1383, 2011 (SCI-Expanded)
- XI. **Preconcentration of uranium(VI) and thorium(IV) from aqueous solutions using low-cost abundantly available sorbent**  
ANT BURSALI E., MERDİVAN M., YURDAKOÇ M.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.283, no.2, pp.471-476, 2010 (SCI-Expanded)
- XII. **Sorption of boron by invasive marine seaweed: Caulerpa racemosa var. cylindracea**  
ANT BURSALI E., ÇAVAŞ L., SEKİ Y., SEYHAN BOZKURT S., YURDAKOÇ M.  
CHEMICAL ENGINEERING JOURNAL, vol.150, pp.385-390, 2009 (SCI-Expanded)
- XIII. **The effect of degree of impregnation in amberlite resins with organophosphorous extractants for Y(III), La(III), Ce(III), Th(IV) and U(VI) ions**  
ANT BURSALI E., YURDAKOÇ M., MERDİVAN M.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.43, no.6, pp.1421-1433, 2008 (SCI-Expanded)
- XIV. **Application of iron-rich natural clays in Camlica, Turkey for boron sorption from water and its determination by fluorimetric-azomethine-H method**  
Seyhan S., SEKİ Y., YURDAKOÇ M., MERDİVAN M.  
JOURNAL OF HAZARDOUS MATERIALS, vol.146, pp.180-185, 2007 (SCI-Expanded)
- XV. **Separation and preconcentration of La<sup>3+</sup>, Ce<sup>3+</sup> and Y<sup>3+</sup> using calix[4]resorcinarene impregnated on polymeric support**  
Gok C., Seyhan S., MERDİVAN M., YURDAKOÇ M.  
MICROCHIMICA ACTA, vol.157, pp.13-19, 2007 (SCI-Expanded)
- XVI. **Removal of boron from aqueous solution by adsorption on Al<sub>2</sub>O<sub>3</sub> based materials using full factorial design**  
SEKİ Y., Seyhan S., YURDAKOÇ M.  
JOURNAL OF HAZARDOUS MATERIALS, vol.138, no.1, pp.60-66, 2006 (SCI-Expanded)
- XVII. **Extraction of Y(III), La(III), Ce(III), Th(IV) and U(VI) ions with organophosphorous compounds**  
Ant E., Yurdakoç M.  
ASIAN JOURNAL OF CHEMISTRY, vol.18, no.3, pp.2221-2230, 2006 (SCI-Expanded)
- XVIII. **Extraction of boron with diols in petroleum benzine and n-amyl alcohol**

- Ozay P., YURDAKOÇ M., Karakaplan M., Hosgoren H.  
ASIAN JOURNAL OF CHEMISTRY, vol.18, no.2, pp.1277-1284, 2006 (SCI-Expanded)
- XIX. **Removal of boron from aqueous solution by clays and modified clays**  
Karahan S., YURDAKOÇ M., SEKİ Y., YURDAKOÇ M. K.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.293, no.1, pp.36-42, 2006 (SCI-Expanded)
- XX. **Synthesis of a new stable peristatic chiral pseudocryptand for simultaneous binding of boron and sodium**  
Togrul M., Topal G., YURDAKOÇ M., Hasgoren H.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.42, no.6, pp.1201-1205, 2005 (SCI-Expanded)
- XXI. **Kinetic and thermodynamic studies of boron removal by Siral 5, Siral 40, and Siral 80**  
YURDAKOÇ M., SEKİ Y., Karahan S., YURDAKOÇ M. K.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.286, no.2, pp.440-446, 2005 (SCI-Expanded)
- XXII. **Paramagnetic contribution of serum iron to the spin-spin relaxation rate (1/T<sub>2</sub>) measured by MRI**  
Yilmaz A., YURDAKOÇ M., Bernarding J., Vieth H., Braun J., Yurt A.  
APPLIED MAGNETIC RESONANCE, vol.22, no.1, pp.11-22, 2002 (SCI-Expanded)
- XXIII. **Influence of transition metal ions on NMR proton T<sub>1</sub> relaxation times of serum, blood, and red cells**  
Yilmaz A., YURDAKOÇ M., Isik B.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.67, no.2, pp.187-193, 1999 (SCI-Expanded)
- XXIV. **Effect of long-chain amines on the extraction of boron from CaCl<sub>2</sub> brine with CTMP in petroleum benzene**  
YURDAKOÇ M., Karakaplan M., Hosgoren H.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.34, no.13, pp.2615-2625, 1999 (SCI-Expanded)
- XXV. **Acidity of silica-alumina catalysts by amine titration using Hammett indicators and FT-IR study of pyridine adsorption**  
YURDAKOÇ M., Akcay M., Tonbul Y., YURDAKOÇ M. K.  
TURKISH JOURNAL OF CHEMISTRY, vol.23, no.3, pp.319-327, 1999 (SCI-Expanded)
- XXVI. **Solvent extraction of La<sup>3+</sup> with ethylenediamine-N,N'-ditetradecyl-N,N'-diacetic acid (EDDAT) in dichloromethane**  
YURDAKOÇ M., Hosgoren H.  
TURKISH JOURNAL OF CHEMISTRY, vol.22, no.4, pp.373-377, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Synthesis and characterization of bentonite based zinc complexes**  
Anavatan Alp E., BURSALI E. A., YURDAKOC M.  
Journal of sustainable construction materials and technologies (Online), vol.8, no.2, pp.112-119, 2023 (Peer-Reviewed Journal)
- II. **Preparation and characterization of magnetic featured supported heterogeneous catalysts**  
ALDEMİR Y., ANT BURSALI E., YURDAKOÇ M.  
Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.23, no.67, pp.137-146, 2021 (Peer-Reviewed Journal)
- III. **Removal of malachite green from wastewaters by bentonite-based photocatalytic technology**  
Polat K., YURDAKOÇ M.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.6, no.2, pp.261-270, 2019 (Scopus)
- IV. **Synthesis Characterization and Antioxidant Activity of Fe III Valex Complex**  
ERDEM P., ALTAŞ S., EMEN TANRIKURT S., KIZIL M., YURDAKOÇ M.  
JOTCSA, vol.3, no.1, pp.131-146, 2016 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **MgFe<sub>2</sub>O<sub>4</sub>-MWCNT/Ag<sub>3</sub>VO<sub>4</sub> Katalizörünün Sentezi Karakterizasyonu ve Görünür Işık Altındaki Fotokatalitik Aktivitesi**  
POLAT K., YURDAKOÇ M.  
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- II. **Kompleks İçeren Bentonit Taşıyıcılı Katalizörlerin Hazırlanması**  
ANT BURSALI E., Yılmaz B., Öztürk Ö., Durmaz H., YURDAKOÇ M.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- III. **Kil Destekli Magnezyum Ferrit Nanokatalizörlerin Hazırlanması ve Karakterizasyonu**  
Aldemir Y., ANT BURSALI E., YURDAKOÇ M.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- IV. **Çinko Kompleks Kil Tabanlı Katalizörlerin Hazırlanması ve Karakterizasyonu**  
Anavatan G. E., ANT BURSALI E., YURDAKOÇ M.  
5. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015
- V. **BENTONİT ve SİRAL 80 TABANLI HETEROJEN KATALİZÖRLERLE GLİSERİNİN BENZİLASYONU**  
**Benzylation of Glycerol**  
SENE M. C., YURDAKOÇ M., YURDAKOÇ M. K., PETER C.  
16. ULUSAL KİL SEMPOZYUMU, Çanakkale, Turkey, 2 - 05 September 2013
- VI. **Toryum IV İyonunun Katyonik Nişasta ile Adsorpsiyonunda İyonik Sıvıların Kullanılabilirliği**  
ANT BURSALI E., SEYHAN BOZKURT S., YURDAKOÇ M.  
26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012
- VII. **Comparison of Some Properties of Synthesized Cross linked Starch PVA Boron Complexes**  
ANT BURSALI E., Coşkun S., Tanrıku S. E., KIZIL M., YURDAKOÇ M.  
17th International Symposium on Boron, Borides and Related Materials, 11 - 17 September 2011
- VIII. **Properties of Starch Boron Powder Complexes Containing Different Cross linkers as Additives**  
ANT BURSALI E., YURDAKOÇ M.  
17th International Symposium on Boron, Borides and Related Materials, 11 - 17 September 2011
- IX. **Çapraz Bağlı Tannik Asit ile Bor Adsorpsiyonu**  
Erdem P., ANT BURSALI E., YURDAKOÇ M.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010
- X. **Nişasta Polivinil Alkol ve Borik asit İçeren Hidrojellerin Sentezi Karakterizasyonu ve In vitro Antimikrobiyal Etkileri**  
ANT BURSALI E., Coşkun S., KIZIL M., YURDAKOÇ M.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010
- XI. **Modifiye Edilmiş Nişasta ile Bor Komplekslerinin Sentezi**  
ANT BURSALI E., YURDAKOÇ M.  
2. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009
- XII. **Preparation of Starch PVA Hydrogels by Using Different Cross linking Agents**  
ANT BURSALI E., Coşkun S., YURDAKOÇ M.  
2nd EUCHEMS Chemistry Congress, Torino, Italy, 16 - 20 September 2008
- XIII. **Chitosan bead ile bor adsorpsiyonu**  
Delener M., ANT BURSALI E., SEYHAN BOZKURT S., SEKİ Y., YURDAKOÇ M.  
10. Ulusal Spektroskopi Kongresi, İzmir, Turkey, 4 - 07 July 2007
- XIV. **Sorption Behaviour of Uranium VI with Diphenylphosphate and Diphenylphosphinic Acid Impregnated Resin Having Different Morphology and Reagent Content**  
ANT BURSALI E., YURDAKOÇ M., MERDİVAN M.  
INSUNUME 2006, 6 - 08 September 2006
- XV. **Bazı Nadir Toprak Metallerinin Difenilfosfat ve Difenilfosfinik Asit Emdirilmiş Farklı Morfolojik İçerikli Reçineler Üzerine Tutunma Davranışları**  
ANT BURSALI E., YURDAKOÇ M., MERDİVAN M.  
20. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006
- XVI. **Bazı Metallerin Organofosfor Bileşikleriyle Sıvı Sıvı Ekstraksiyonu**

ANT BURSALI E., YURDAKOÇ M.

19. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005

**XVII. Sıral 5, Sıral 40 ve Sıral 80 Kullanılarak Sulu Çözeltilerden Bor Uzaklaştırılması**

Seki Y., Karahan Gülbay S., Yurdakoç M., Yurdakoç M. K.

XIX. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005, pp.209

**XVIII. Uranyum VI veToryum IV İyonlarının Pirina Üzerine Tutunma Davranışlarının İncelenmesi**

ANT BURSALI E., MERDİVAN M., YURDAKOÇ M.

18. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004

**XIX. Bor'un Sulu Çözeltilerden Adsorpsiyonu**

Karahan Gülbay S., Yurdakoç M., Seki Y., Yurdakoç M. K.

XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004, pp.336

## Supported Projects

YURDAKOÇ M., TUBITAK Project, Genipin ile Çapraz Bağlı Bor Nişasta PVA Hidrojelinin Hazırlanması ve Karakterizasyonu, 2015 - 2016

YURDAKOÇ M., Project Supported by Higher Education Institutions, Metal Asetilasetonat Komplekslerinin Kil Üzerine Taşınımı, 2012 - 2014

YURDAKOÇ M., Project Supported by Higher Education Institutions, Polifenol Metal Komplekslerinin Sentezi, Karakterizasyonu ve Uygulamaları, 2008 - 2011

YURDAKOÇ M., Project Supported by Higher Education Institutions, Bor-Nişasta Komplekslerinin Hazırlanması ve Karakterizasyonu, 2006 - 2009

YURDAKOÇ M., Project Supported by Higher Education Institutions, Full Factorial Design kullanarak Borun sulu ortamdan bazı killerle uzaklaştırılması, 2005 - 2006

Seyhan Bozkurt S., Yurdakoç M., Merdivan M., Seki Y., Project Supported by Higher Education Institutions, Tam faktöriyel dizayn kullanarak borun sulu ortamdan bazı killerle uzaklaştırılması, 2005 - 2006

Yurdakoç M., Project Supported by Higher Education Institutions, BOR'UN SIVI-SIVI-EKSTRAKSİYONU, 2004 - 2005

Karahan Gülbay S., Yurdakoç M., SEKİ Y., Project Supported by Higher Education Institutions, Borun Sulu Çözeltilerden Geri Kazanımına Yönelik Kil Tabanlı Adsorplayıcı Geliştirme, 2003 - 2004

## Metrics

Publication: 49

Citation (WoS): 790

Citation (Scopus): 861

H-Index (WoS): 13

H-Index (Scopus): 13