

Assoc. Prof. YAŞAR ANDELİB AYDIN

Personal Information

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International Researcher IDs

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Biography

Yaşar Andelib AYDIN was born in İstanbul in 1979. She completed her secondary education in Eyüboğlu High School. Soon after being graduated from the Chemical Engineering Department of İstanbul Technical University in 2002, she started working as a Research Assistant in the same department. She received a Doctorate degree in 2013 after completing master's and doctoral studies also at the Chemical Engineering Department of İstanbul Technical University. During the years 2014-2015, she lectured undergraduate and graduate courses at the Chemical and Process Engineering Department of Yalova University. She is continuing her studies in Marmara University Chemical Engineering Department since 2016. She is married with three children.

Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2005 - 2013

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2002 - 2005

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1997 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Şeker ve Sirke Endüstrisi Atıklarından Bakteriyel Selüloz Üretimi, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 2013

Research Areas

Biotechnology, Process and Reactor Design

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Engineering, Chemical Engineering, 2016 - Continues
Research Assistant, Istanbul Technical University, Kimya Mühendisliği Bölümü, 2002 - 2012

Academic and Administrative Experience

Marmara University, Faculty of Engineering, 2017 - Continues

Courses

Proses Kontrol, Undergraduate, 2022 - 2023
Advanced Topics in Chemical Engineering I, Postgraduate, 2022 - 2023, 2020 - 2021
Computer Aided Process Simulation, Undergraduate, 2022 - 2023
Process Dynamics and Control, Undergraduate, 2022 - 2023
Chemical Engineering Fluid Mechanics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Chemical Kinetics, Undergraduate, 2020 - 2021, 2019 - 2020
Introduction to Chemical Engineering, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Chemical Reaction Engineering, Undergraduate, 2019 - 2020, 2018 - 2019

Advising Theses

Aydın Y. A., Encapsulation of essential oils with zein and zein/biopolymer blends, Postgraduate, C.NAYIR(Student), 2024
Aydın Y. A., ADSORPTION OF CR(VI) IONS IN WASTEWATERS ON HYDROTHERMALLY SYNTHESIZED CHITOSAN/POLYVINYL ALCOHOL BEADS IN CONTINUOUS SYSTEMS, Postgraduate, E.KÖSOĞLU(Student), 2023
Aydın Y. A., ENCAPSULATION OF ESSENTIAL OILS WITH ANTIMICROBIAL PROPERTIES WITH CHITOSAN AND/OR CHITOSAN/BIOPOLYMER BLENDS, Postgraduate, R.TURAN(Student), 2023
Aydın Y. A., CR(VI) REMOVAL FROM WASTEWATERS USING CHITOSAN-POLYVINYL ALCOHOL BEADS, Postgraduate, A.SENA(Student), 2021
Aydın Y. A., The synthesis of clay-polymer composite absorbents for oil removal from aqueous sources, Postgraduate, S.ABALI(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The comparison of contribution of GO and rGO produced by green synthesis to the properties of CMC-based wound dressing material**
Karaca Ö. G., Moran B., Türk M., Bal-Öztürk A., İzbudak B., AYDIN Y. A., Utkan G., ALEMDAR YAYLA N.
International Journal of Biological Macromolecules, vol.271, 2024 (SCI-Expanded)
- II. **Silanization of sepiolite with various silane coupling agents for enhancing oil uptake capacity**
Abali S., AYDIN Y. A.
Separation Science and Technology (Philadelphia), vol.58, no.3, pp.586-597, 2023 (SCI-Expanded)
- III. **Fabrication of chitosan/polyvinyl alcohol/amine modified carbon nanotube composite films for rapid chromate removal**
Aydın Y. A.
Journal of Applied Polymer Science, vol.138, 2021 (SCI-Expanded)
- IV. **Chitosan polyvinyl alcohol blend films for ibuprofen encapsulation: Fabrication, characterization and kinetics**
Aycan D., Yayla N., Aydın Y. A.
POLYMER DEGRADATION AND STABILITY, vol.181, 2020 (SCI-Expanded)
- V. **Lipase mediated synthesis of polycaprolactone and its silica nanohybrid**

Akkulak M., Kaptan Y., Aydın Y. A., Guvenilir Y. A.

PURE AND APPLIED CHEMISTRY, vol.91, pp.957-965, 2019 (SCI-Expanded)

- VI. **Removal of chromate from wastewater using amine-based-surfactant-modified clinoptilolite**
GÜZEL P., AYDIN Y. A., AKSOY N. D.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.13, no.5, pp.1277-1288, 2016 (SCI-Expanded)
- VII. **Enhancement of cellulose production by Gluconacetobacter hansenii P2A**
AYDIN Y. A., DEVECİ AKSOY N.
Journal Of Biotechnology, vol.208, pp.16, 2015 (SCI-Expanded)
- VIII. **Isolation and characterization of an efficient bacterial cellulose producer strain in agitated culture: Gluconacetobacter hansenii P2A**
AYDIN Y. A., AKSOY N. D.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.98, no.3, pp.1065-1075, 2014 (SCI-Expanded)
- IX. **Adsorption of chromium on chitosan: Optimization, kinetics and thermodynamics**
AYDIN Y. A., AKSOY N. D.
CHEMICAL ENGINEERING JOURNAL, vol.151, pp.188-194, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fabrication of Laurus Nobilis, Oregano and Cinnamomum Zeylanicum Essential Oils Supplemented Antibacterial Cellulosic Membranes**
Aydın Y. A.
International journal of advances in engineering and pure sciences (Online), no.2, pp.100-106, 2019 (Peer-Reviewed Journal)
- II. **Uçucu Yağlar Kullanılarak Antibakteriyel Selülozik Membranların Üretilmesi**
Aydın Y. A.
International journal of advances in engineering and pure sciences (Online), vol.31, no.2, 2019 (Peer-Reviewed Journal)
- III. **Enzymatic processes in alternative reaction media a mini review**
AYDIN Y. A., SALOĞLU DERTLİ D.
Journal of Biological Methods, vol.2, pp.25, 2015 (Peer-Reviewed Journal)
- IV. **Gluconacetobacter hansenii P2A ile Gerçekleştirilen Bakteriyel Selüloz Üretiminin Kinetik Modellenmesi**
AYDIN Y. A., DEVECİ AKSOY N.
Journal of Science and Technology A-Applied Sciences and Engineering, vol.16, pp.239-247, 2015 (Peer-Reviewed Journal)
- V. **Aktif Karbon Polivinil Alkol Kompozit Kürecikleri ile Cr VI Giderimi**
AYDIN Y. A., DEVECİ AKSOY N.
Journal of Science and Technology-A Applied Sciences and Engineering, vol.16, pp.96-105, 2015 (Peer-Reviewed Journal)
- VI. **Çeşitli Gıda Atıklarından Selüloz Üreten Asetik Asit Bakterilerinin İzolasyonu ve Tanımlanması**
Aydın Y. A., Deveci Aksoy N.
Türk Mikrobiyoloji Cemiyeti Dergisi, vol.43, pp.26-35, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Altering Process Conditions to Enhance Amine Loading of Clinoptilolite**
Çene B., AYDIN Y. A., DEVECİ AKSOY N.
in: Wastes Solutions Treatments and Opportunities, Vilarinho C, Castro F, Russo M, Editor, CRC Press, pp.49-54,

2015

II. Utilization of Vinegar for Isolation of Cellulose Producing Acetic Acid Bacteria

AYDIN Y. A., DEVECİ AKSOY N.

in: IAENG Transactions on Engineering Technologies Volume 4, Ao, Sio-long, Editor, American Institute of Physics, pp.340-348, 2010

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of PCL/silica nanohybrid systems via enzyme-catalyzed ROP, (Oral sunum kabul edildi)**
Kaptan Y., Akkulak M., AYDIN Y. A., GÜVENİLİR F. Y.
17 th Internatinal Conference Polymers and Organic Chemistry, Palavas, France, 3 - 07 June 2018
- II. **Hydrothermally treated chitosan polyvinyl alcohol beads as chromate adsorbents**
Ülke Demirci A. S., AYDIN Y. A.
13th European Congress of Chemical Engineering and 6th European Congress of Applied Biotechnology, Frankfurt, Germany, 20 - 23 September 2021
- III. **The synthesis of Silver Nanoparticles by Cynara Scolymus L. and Punica Granatum L. Extracts**
Nayır C., Genç Y., Aydın Y. A.
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.1
- IV. **Eskişehir Sepiyolitinin Trimetoksi(oktadesil) silan ve 3-(aminopropil)trietoksi silan ile modifikasyonu**
Menteşoğlu Ç., Turan R., Abalı S., Aydın Y. A.
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.1
- V. **Chitosan Polyvinyl alcohol Blend Films for Ibuprofen Encapsulation: Fabrication, Characterization and Kinetics**
AYCAN D., ALEMDAR N., AYDIN Y. A.
7th International Conference on Biobased Biodegradable Polymers, Stockholm, Sweden, 17 - 19 June 2019
- VI. **Sepiolite modification by various silane coupling agents for enhanced oil uptake**
Abalı S., Aydın Y. A.
EURASIAN CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, İstanbul, Turkey, 17 - 18 June 2019, pp.440-448
- VII. **The Incorporation of Biosynthesized Silver Nanoparticles in CS/PVA Films for Enhanced Antibacterial Activity**
Aydın Y. A.
European Biotechnology Congress, Valencia, Spain, 11 - 13 April 2019, pp.1
- VIII. **Enzimatik Halka Açılması Polimerizasyonu ile Polivalerolakton Sentezi ve Polimerizasyon Ortamlarının Reaksiyona Etkisinin Karşılaştırılması**
AYDIN Y. A., Gök z., ÜLKER C., GÜVENİLİR F. Y.
Ulusal Kimya Kongresi, Cyprus (Kktc), 5 - 08 November 2018
- IX. **Amino Modifiye Edilmiş Karbon Nanotüp Polimerik Adsorban Boncukların Üretimi ve Karakterizasyonu**
AYDIN Y. A.
30. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kktc), 05 November 2018
- X. **Biyogazdan Otomobil Yakıtı Niteliğinde Biyometan Üretimi Tesisi Simülasyonu ve Ekonomik Analizi**
AYDIN Y. A., Bölük M. İ., Baştürk A.
13. Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018
- XI. **Epsilon kaproloaktonun enzimatik polimerleşmesi ve PKL/Pirinç Kabuğu Külü Nanohibrit Sistemlerinin Geliştirilmesi**
Akkulak M., Kaptan Y., AYDIN Y. A., GÜVENİLİR F. Y.
13. Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018
- XII. **Preparation and Characterization of Amino modified MWCNT-Chitosan-PVA adsorptive membranes**

- AYDIN Y. A., Koç Ö., Gül B.
23rd International Congress of Chemical and Process Engineering, Prag, Czech Republic, 25 - 29 August 2018
- XIII. **Enzymatic Synthesis of Poly(ϵ -caprolactone-co- δ -valerolactone) Copolymers via Ring Opening Polymerization**
AYDIN Y. A., Gök Z., ÜLKER C., GÜVENİLİR F. Y.
17 th Internatinal Conference Polymers and Organic Chemistry, Palavas, France, 3 - 07 June 2018
- XIV. **Laurus Nobilis Oregano ve Cinnamomum Zeylanicum Uçucu Yağları Kullanılarak Selülozik Antibakteriyel Membranların Elde Edilmesi**
AYDIN Y. A.
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XV. **The effect of molasses pretreatment methods on bacterial production by Gluconacetobacter hansenii P2A.**
AYDIN Y. A., DEVECİ AKSOY N.
8th European Symposium on Biopolymers, Roma, Italy, 16 - 18 September 2015
- XVI. **Altering Process Conditions to Enhance Amine Loading of Clinoptilolite**
Çene B., AYDIN Y. A., DEVECİ AKSOY N.
3rd International Conference Wastes, Treatments, Solutions, Opportunities, Viana do Castelo, Portugal, 14 - 16 September 2015
- XVII. **Enhancement of Cellulose Production by Gluconacetobacter hansenii P2A**
AYDIN Y. A., DEVECİ AKSOY N.
European Biotechnology Congress, Bükreş, Romania, 7 - 09 May 2015
- XVIII. **Enhancement of Cr(VI) uptake by surfactant loading**
GÜZEL P., AYDIN Y. A., DEVECİ AKSOY N.
9th European Congress of Chemical Engineering/2nd European Congress of Applied Biotechnology, Hague, Netherlands, 21 - 24 April 2013
- XIX. **A new mutation resistant Gluconacetobacter hansenii P2A strain for bacterial cellulose production.**
AYDIN Y. A., DEVECİ AKSOY N.
9th European Congress of Chemical Engineering /2nd European Congress of Applied Biotechnology, Hague, Netherlands, 21 - 24 April 2013
- XX. **Adsorption of Chromium on Modified Clinoptilolite, 20th**
GÜZEL P., AYDIN Y. A., DEVECİ AKSOY N.
International Congress Of Chemical and Process Engineering, CHISA, Prag, Czech Republic, 25 - 29 September 2012
- XXI. **Bacterial cellulose fermentation by isolates from rotten fruits**
AYDIN Y. A., DEVECİ AKSOY N.
20th International Congress Of Chemical and Process Engineering, CHISA, Prag, Czech Republic, 25 - 29 September 2012
- XXII. **Isolation of Cellulose Producing Bacteria from Wastes of Vinegar Fermentation**
AYDIN Y. A., DEVECİ AKSOY N.
World Congress on Engineering and Computer Science 2009, San-Francisco, Costa Rica, 20 - 22 October 2009, vol.1
- XXIII. **Optimization of Chromium Adsorption Upon Chitosan by Surface Response Analysis**
AYDIN Y. A., DEVECİ AKSOY N., Andak B.
10th International Chemical and Biological Engineering Conference, Braga, Portugal, 4 - 06 September 2008
- XXIV. **Chromium Adsorption Upon Glutaraldehyde Crosslinked Chitosan Beads**
AYDIN Y. A., DEVECİ AKSOY N.
18th International Congress of Chemical and Process Engineering, Prag, 24 - 28 August 2008
- XXV. **Arsenite adsorption upon activated carbon and its pva composite**
DEVECİ AKSOY N., AYDIN Y. A.
European Congress of Chemical Engineering, Kopenhag, Denmark, 16 - 20 September 2007
- XXVI. **Parametric Optimization of Cd²⁺ and Cr⁶⁺ adsorption on the Mediterranean sea grass Posidonia Oceanica by surface response analysis**

AYDIN Y. A., DEVECİ AKSOY N.

European Congress of Chemical Engineering, Kopenhagen, Denmark, 16 - 20 September 2007

XXVII. Adsorption of Chromate on the Mediterranean Seagrass Posidonia Oceanica

AYDIN Y. A., DEVECİ AKSOY N.

1st European Chemistry Congress, Budapest, Hungary, 27 - 31 August 2006

XXVIII. Optimization of Arsenate Adsorption onto Chitosan by Central Composite Surface Response Analysis

DEVECİ AKSOY N., AYDIN Y. A.

1st European Chemistry Congress, 27 - 31 August 2006

XXIX. Determination of the Adsorptive Properties of Activated Carbon and Its PVA Composite

Erdoğan Y. A., DEVECİ AKSOY N.

Sixth European Meeting on Environmental Chemistry, Belgrade, Serbia And Montenegro, 6 - 10 November 2005

XXX. Adsorption of Cadmium on the Mediterranean Seagrass Posidonia Oceanica

Erdoğan Y. A., DEVECİ AKSOY N., Sunman B.

The Sixth European Meeting on Environmental Chemistry, Belgrade, Serbia And Montenegro, 6 - 10 November 2005

XXXI. Development of Assessment Methods for Capstone Design Projects

GÜRBÜZ H., ERDOĞAN Y. A., YARDIM M. F., Bulutçu N., Ekinci E.

Design of Education in the 3rd Millennium, İstanbul, Turkey, 12 - 15 September 2005

Supported Projects

Kösoğlu E., Aydın Y. A., TUBITAK Project, Hidrotermal Yöntem Ile Sentezlenmiş Kitosan Polivinil Alkol Adsorban Boncukları Ile Sabit Yataklı Kolonda Cr(VI) Adsorpsiyonu, 2023 - 2023

Kösoğlu E., Aydın Y. A., Project Supported by Higher Education Institutions, Adsorption of CrVI ions in Wastewaters on Hydrothermally Synthesized Chitosan Polyvinyl Alcohol Beads in Continuous Systems, 2022 - 2023

Aydın Y. A., Project Supported by Higher Education Institutions, Su Kaynaklarından Yağ Giderimi İçin Kil Polimer Kompoziti Adsorbanların Sentezi, 2019 - 2020

Aydın Y. A., Project Supported by Higher Education Institutions, Polivinil Alkol /Amino Modifiye Edilmiş Karbon Nanotüp/Kitosan Kompozit Membranlarının Üretimi ve Cr6+ Metal Tutma Kapasitelerinin Belirlenmesi, 2017 - 2019

Scientific Refereeing

TÜRK MİKROBİYOLOJİ CEMİYETİ DERGİSİ, National Scientific Refreed Journal, December 2020

CHEMICAL ENGINEERING JOURNAL, SCI Journal, December 2020

Metrics

Publication: 49

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Citation (Scopus): 471

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H-Index (Scopus): 5