

Prof. AHMET BAYSAR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: Q-1190-2018

ScopusID: 6602651836

Yoksis Researcher ID: 22450

Education Information

Doctorate, Arizona State University, Graduate College, Chemical Engineering, United States Of America 1986 - 1992

Postgraduate, Iowa State University of Science and Technology, Graduate College, Chemical Engineering, United States Of America 1983 - 1985

Undergraduate, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1978 - 1982

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Microwave Heating Applications of Fluidized Beds: High Purity Silicon Production, Arizona State University, Graduate College, Dept. Of Chemical Engineering, 1992

Postgraduate, In Situ Fourier Transform Infrared Spectroscopy of Adsorbed Species on Mixed Metal Oxide Catalysts for Higher Alcohol Synthesis, Iowa State University of Science and Technology, Graduate College, Dept. Of Chemical Engineering, 1985

Research Areas

Chemical Engineering and Technology, Biotechnology, Biochemical Reaction Engineering, Process and Reactor Design, Chemical Reaction Engineering, Catalysis and Catalytic Processes, Engineering and Technology

Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2008 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 1997 - 2008

Assistant Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 1992 - 1997

Academic and Administrative Experience

Inonu University, Mühendislik Fakültesi, 2014 - Continues
Inonu University, Mühendislik Fakültesi, 2017 - 2017
Inonu University, Mühendislik Fakültesi, 2011 - 2014
Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2009 - 2010
Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1992 - 2009

Courses

Heterojen Kataliz ve Katalitik Prosesler, Doctorate, 2022 - 2023

Advising Theses

Baysar A., Bakır ve Çinko İçeren Malahit Cevherinden Bakır/Çinko Oksit Katalizörlerinin Üretimi, Doctorate, Z.Bakıcı(Student), Continues
Baysar A., Hastane atıksularında formaldehit giderimi, Postgraduate, E.YİĞİT(Student), 2019
BAYSAR A., Ecballium elaterium (L.) A. Rich.'den İzole Edilen Kukurbitasinlerin Hücre Proliferasyonu ve Telomeraz Aktivitesi Üzerine Etkisinin Araştırılması, Doctorate, E.Tosun(Student), 2016
Baysar A., Mikrodalgalarla kuru kayıslarda nem giderilmesi ve kayısı pestili üretimi, Postgraduate, N.ERTEM(Student), 2003
Baysar A., Yüksek molekülü alkollerin sentez gazından üretimi için metal oksit katalizörlerinin hazırlanması ve karakterizasyonu, Postgraduate, A.MEHMET(Student), 1999

Jury Memberships

Doctoral Examination, Doctoral Examination, İnönü Üniversitesi, January, 2022
Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, December, 2021
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, May, 2021
Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, January, 2021
Associate Professor Exam, Associate Professor Exam, Siirt Üniversitesi, March, 2020
Associate Professor Exam, Associate Professor Exam, Van Yüzüncü Yıl Üniversitesi, October, 2019
Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, April, 2018
Doctorate, Doktora Sınav Jürisi, İnönü Üniversitesi, January, 2018
Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, December, 2017
Post Graduate, Tez Savunma Jürisi, Fırat Üniversitesi, October, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İnönü Üniversitesi, September, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İnönü Üniversitesi, September, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İnönü Üniversitesi, September, 2017
Doctorate, Doçentlik Sınav Jürisi, İnönü Üniversitesi, July, 2017
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, November, 2015
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Marmara Üniversitesi, August, 2013
Doctorate, Doktora Sınav Jürisi, İnönü Üniversitesi, February, 2011
Doctorate, Doktora Sınav Jürisi, Fırat Üniversitesi, September, 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Cucurbitacin I exhibits anticancer efficacy through induction of apoptosis and modulation of JAK/STAT3, MAPK/ERK, and AKT/mTOR signaling pathways in HepG2 cell line**
ÜREMİŞ N., ÜREMİŞ M. M., ÇİĞREMİŞ Y., TOSUN E., BAYSAR A., TÜRKÖZ Y.
JOURNAL OF FOOD BIOCHEMISTRY, vol.46, no.10, 2022 (SCI-Expanded)
- II. **Cucurbitacin D Inhibits the Proliferation of HepG2 Cells and Induces Apoptosis by Modulating JAK/STAT3, PI3K/Akt/mTOR and MAPK Signaling Pathways**
ÜREMİŞ M. M., ÜREMİŞ N., TOSUN E., Durhan M., ÇİĞREMİŞ Y., BAYSAR A., TÜRKÖZ Y.
CURRENT CANCER DRUG TARGETS, vol.22, no.11, pp.931-944, 2022 (SCI-Expanded)
- III. **ISOLATION AND PURIFICATION OF CUCURBITACIN D AND I FROM ECBALLIUM ELATERIUM (L.) A. RICH FRUIT JUICE**
TOSUN E., BAYSAR A.
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.38, no.2, pp.171-182, 2019 (SCI-Expanded)
- IV. **A comparison of vitamin and folic acid levels of sun and microwave dried Capsicum annum L**
Karatas F., Baysar A., Alpaslan M.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.41, no.6, 2017 (SCI-Expanded)
- V. **Isolation and purification of Anticancer Agents Cucurbitacin D and I by HPLC from Ecballium Elaterium L A Rich**
TOSUN E., BAYSAR A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, 2016 (SCI-Expanded)
- VI. **Reductive leaching of pyrolusite ore by using sawdust for production of manganese sulfate**
EKMEKYAPAR A., Asin C., DEMİRKIRAN N., KÜNKÜL A., BAYSAR A., CEYLAN K.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.53, no.3, pp.211-217, 2012 (SCI-Expanded)
- VII. **A kinetic study of copper cementation with zinc in aqueous solutions**
Demirkiran N., EKMEKYAPAR A., Kunkul A., Baysar A.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.82, no.2, pp.80-85, 2007 (SCI-Expanded)
- VIII. **Physicomathematical analysis of surface modification of polymers by glow discharge in SF6+N-2 medium**
Alisoy H., Baysar A., Alisoy G.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.351, pp.347-357, 2005 (SCI-Expanded)
- IX. **Dissolution kinetics of ulexite in ammonium sulfate solutions**
Kunkul A., Demirkiran N., BAYSAR A.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.42, no.5, pp.982-986, 2003 (SCI-Expanded)
- X. **Determination of free malondialdehyde in human serum by high-performance liquid chromatography**
Karatas F., Karatepe M., Baysar A.
ANALYTICAL BIOCHEMISTRY, vol.311, no.1, pp.76-79, 2002 (SCI-Expanded)
- XI. **Effect of drying methods on functional properties of tarhana: A wheat flour-yogurt mixture**
Hayta M., Alpaslan M., Baysar A.
JOURNAL OF FOOD SCIENCE, vol.67, no.2, pp.740-744, 2002 (SCI-Expanded)
- XII. **Dehydration kinetics of tincal and borax by thermal analysis**
Ekmekyapar A., Baysar A., Kunkul A.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.36, no.9, pp.3487-3490, 1997 (SCI-Expanded)
- XIII. **DIELECTRIC PROPERTY MEASUREMENTS OF MATERIALS USING THE CAVITY TECHNIQUE**
Baysar A., Kuester J.
Ieee Transactions On Microwave Theory And Techniques, vol.40, no.11, pp.2108-2110, 1992 (SCI-Expanded)
- XIV. **DIELECTRIC PROPERTY MEASUREMENT OF POLYCRYSTALLINE SILICON AT HIGH-TEMPERATURES**
BAYSAR A., KUESTER J., ELGHAZALY S.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.26, no.3, pp.145-155, 1991 (SCI-

Expanded)

Articles Published in Other Journals

- I. **Determination of Optimum pH and NH₃ Concentration of Malachite Ore for NH₃/NH₄NO₃ Leaching by Response Surface Method to Produce Cu/Zn Oxide Binary Catalyst**
TANAYDIN Z. B., DEMİRKIRAN N., Baysar A.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.2, pp.333-345, 2023 (Peer-Reviewed Journal)
- II. **Removal of acid dyes from wastewater using poly(acrylamide-vinylimidazole) hydrogel**
TOSUN E., BOZTEPE C., BAYSAR A., KÜNKÜL A.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.25, no.8, pp.914-921, 2019 (ESCI)
- III. **Investigation of Some Water Soluble Parameters in Apricot Fruit of Different Varieties Cultivated**
BAYSAR A., KARATAŞ F.
GIDA / THE JOURNAL OF FOOD, vol.43, no.6, pp.925-929, 2018 (Peer-Reviewed Journal)
- IV. **Inhibition of Telomerase Activity by Cucurbitacin I in Colon Cancer Cell Line, LS174T**
TOSUN E., BAYSAR A.
Proceedings, vol.1, no.10, pp.1017, 2017 (Peer-Reviewed Journal)
- V. **Effect of Cucurbitacin I on Proliferation and Migration in Colorectal Cancer Cell Line, LS174T**
TOSUN E., BAYSAR A.
Proceedings, vol.1, no.10, pp.1018, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Antiproliferative Effect of Cucurbitacin I on Cancer Cells-Growth Kinetic Evaluation**
TOSUN E., BAYSAR A.
International Science, Mathematics and Engineering Sciences Congress, 8 - 10 November 2019
- II. **Amonyak/Amonyum Nitrat Çözeltilerinde Malahit Cevherinden Bakır ve Çinko Liçinin Yanıt Yüzey Yöntemiyle Optimizasyonu**
BAKICI TANAYDIN Z., BAYSAR A., DEMİRKIRAN N.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019, pp.1206-1210
- III. **Asidik Boyaların poli(AkrilamitVinilimidazol) Hidrojel Kullanılarak Atık Sulardan Giderimi**
TOSUN E., BOZTEPE C., BAYSAR A., KÜNKÜL A.
International Symposium on Urban Water and Wastewater Management, 25 - 27 October 2018
- IV. **Poli(AAm-AAc) Hidrojellerinin Sulu Çözeltilerden Bakır Gideriminin İncelenmesi**
BOZTEPE C., TOSUN E., KÜNKÜL A., BAYSAR A.
International Symposium on Urban Water and Wastewater Management, 25 - 27 October 2018
- V. **Detoxification of formaldehyde in wastewaters**
yiğit e., BAYSAR A., TOSUN E.
International Conference on Innovative Engineering Applications, Sivas, Turkey, 20 - 22 September 2018, pp.423-427
- VI. **Inhibition of Telomerase Activity by Cucurbitacin in Colon Cancer Cell Line, LS174T**
TOSUN E., BAYSAR A.
2nd International Conference on Natural Products for Cancer Prevention and Therapy, Kayseri, 8 - 11 November 2017
- VII. **A Kinetic Study of the Growth Inhibition of Cancer Cells-Dependent of Anticancer Agent Presence**
TOSUN E., BAYSAR A.
nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017

- VIII. **Cucurbitacin D; Natural compound that has an inhibitory effect on cancer cell growth**
TOSUN E., BAYSAR A., Eyol E.
International Multidisciplinary Symposium on Drug Reserach and Development, Eskişehir, Turkey, 15 - 17 October 2015, pp.120
- IX. **Kukurbitasin I'nın Kolon Kanser Hücreleri Üzerine Etkisi**
TOSUN E., BAYSAR A., Eyol E.
3. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Antalya, Turkey, 20 - 22 March 2015, pp.353
- X. **Kukurbitasin I'nın Karaciğere Metastaz Yapan Rat Kolon Kanser Hücreleri Üzerine Etkisi**
TOSUN E., BAYSAR A., TÜRKÖZ Y., Eyol E.
IV. Ulusal Veteriner Farmakoloji ve Toksikoloji Kongresi, Turkey, 11 September 2013
- XI. **Ecballium elaterium L. Meyve Suyundan Kukurbitasinlerin İzolasyonu**
TOSUN E., BAYSAR A.
1. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Antalya, Turkey, 29 - 31 March 2013, pp.59
- XII. **Ecballium elaterium I Meyve suyundan kukurbitasinlerin izolasyonu**
TOSUN E., BAYSAR A.
1. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Antalya, Turkey, 29 March 2012, pp.59
- XIII. **Mikrodalgalarla Kuru Kayıslarda Nem Giderilmesi ve Kayısı Pestili Üretimi**
ERTEM N., BAYSAR A.
8. Ulusal Kimya Mühendisliği Kongresi, İnönü Üniversitesi, Turkey, 26 - 29 August 2008
- XIV. **Alternatif Kayısı Kurutma Metotları**
BAYSAR A.
Kayısı Sempozyumu, Malatya, Turkey, 05 April 2001
- XV. **Kompozit Materyallerin Dielektrik Sabitinin Hesaplanmasında Kullanılan Önemli Formüllerin Analizi**
ALİSOY H., BAYSAR A., Doğan M.
Türk Fizik Derneği, 19. Fizik Kongresi, Elazığ, Turkey, 26 September - 29 August 2000
- XVI. **Pirolizit Cevherinin Sülfürik Asit Çözeltileriyle Liçingi**
EKMEKYAPAR A., Asin C., BAYSAR A., KÜNKÜL A., Ceylan K.
XIII.Ulusal Kimya Kongresi, Ondokuz Mayıs Üniv., Samsun, Turkey, 31 August - 04 September 1999
- XVII. **Yüksek Moleküllü Alkollerin Sentez Gazından Üretimi için Metal Oksit Katalizörlerinin Hazırlanması ve Karakterizasyonu**
BAYSAR A., KÜNKÜL A., YÜCEER A. M., EKMEKYAPAR A.
XI. Ulusal Kimya Kongresi, Turkey, 16 June 1997 - 20 June 1999
- XVIII. **Yüksek Kükürtlü Kuru Kayıslarda Fazla Kükürt'ün Giderilmesi**
Çolak Y., BAYSAR A., KÜNKÜL A.
III. Ulusal Kimya Mühendisliği Kongresi, Erzurum, Turkey, 1 - 04 September 1998
- XIX. **Mikrodalgalarla Isıtılan Akışkan Yataklı Reaktörlerde Saf Silisyum Üretimi**
BAYSAR A., Kuester J. L.
I. Ulusal Kimya Mühendisliği Kongresi, ODTÜ, Ankara, Turkey, 13 - 16 September 1994
- XX. **Metal Oksit Katalizörleri Yüzeyinde Adsorbe Edilen Grupların In Situ FTIR Spektroskopisi ile Karakterizasyonu**
BAYSAR A., Schrader G.
I. Ulusal Kimya Mühendisliği Kongresi, ODTÜ, Ankara, Turkey, 13 - 16 September 1994
- XXI. **Theoretical and Experimental Investigations of Resonance Frequencies in a Microwave Heated Fluidized Bed Reactor**
BAYSAR A., Kuester J. L., ELGHAZALY S. M.
IEEE MTT-S International Microwave Symposium Digest, 1 - 05 July 1992, pp.1573-1576
- XXII. **Recycle and Recovery of Energetic Materials in a Microwave Heated Reactor System**
BAYSAR A., Kuester J. L.
Energetic Materials Waste Management Colloquium, Livermore, California, USA, Turkey, 15 - 18 June 1992
- XXIII. **Dielectric Properties of High Purity Silicon at High Temperatures**
BAYSAR A., Kuester J. L., ELGHAZALY S. M.

- Proceedings of National Radio Science Meeting, Boulder, Colorado, USA, Turkey, 7 - 10 January 1992
- XXIV. **A Frequency Tuned Rectangular Cavity for Dielectric Property Measurements at High Temperatures**
BAYSAR A., Kuester J. L., ELGHAZALY S. M.
", Proceedings of National Radio Science Meeting, Boulder, Colorado, USA, Turkey, 7 - 10 January 1992
- XXV. **Microwave Heating of Fluidized Beds: Design and Applications**
BAYSAR A., Kuester J. L.
Conference on Electric Power Research for the 90'xxs, Phoenix, Arizona, USA, Turkey, 29 January 1991
- XXVI. **MICROWAVE-HEATING APPLICATIONS IN THERMOCHEMICAL BIOMASS CONVERSION**
BAYSAR A., JOHNSON K., KUESTER J.
INTERNATIONAL CONF ON RESEARCH IN THERMOCHEMICAL BIOMASS CONVERSION, Arizona, United States Of America, 01 April 1988, pp.680-695

Supported Projects

BAYSAR A., BAKICI TANAYDIN Z., DEMİRKIRAN N., Project Supported by Higher Education Institutions, Bakır ve Çinko İçeren Malahit Cevherinden Bakır/Çinko Oksit Katalizörlerinin Üretimi, 2018 - 2022

TÜRKÖZ Y., TOSUN E., ÇİĞREMİŞ Y., BAYSAR A., ÜREMİŞ N., ÜREMİŞ M. M., Project Supported by Higher Education Institutions, Kukurbitasin D ve Kukurbitasin I'nın Hepatokarsinom Hücre Hattında JAK2/STAT3, MAPK ve PI3K/Akt/mTOR Sinyal Yolakları Aracılı Antikanserojen ve Apoptotik Etkilerinin İncelenmesi, 2018 - 2021

BAYSAR A., YİĞİT E., Project Supported by Higher Education Institutions, HASTANE ATIK SULARINDA FORMALİN DETOKSİFİKASYONU, 2016 - 2019

Scientific Refereeing

Project Supported by Higher Education Institutions, July 2018
Advanced Powder Technology, Journal Indexed in SSCI, January 2018
Advanced Powder Technology, Journal Indexed in SSCI, June 2016

Metrics

Publication: 45
Citation (WoS): 435
Citation (Scopus): 387
H-Index (WoS): 7
H-Index (Scopus): 6

Scholarships

Yurtdışı Doktora Bursu, Ministry of Education, 1983 - 1988