

Asst. Prof. Ekin KIPÇAK

Personal Information

Place of birth: İzmir

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya Mühendisliği, Turkey
2007 - 2013

Post Graduate, Ege Üniversitesi, Faculty of Education, Kimya Mühendisliği, Turkey 2003 - 2006

Under Graduate, Ege Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya Mühendisliği, Turkey 1998 -
2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Süperkritik Su Koşullarında Zeytin Karasuyundan Hidrojen ve Biyoyakıt Üretimi, Yıldız Technical University,
Graduate School of Natural and Applied Sciences, Kimya Mühendisliği, 2013

Post Graduate, Modeling of the Interfacial Reaction Between Concentrated Sulfuric Acid and Toluene, Ege University,
Faculty of Education, Kimya Mühendisliği, 2006

Research Areas

Chemical Engineering and Technology, Environmental Chemistry and Technology, Process and Reactor Design,
Chemical Reaction Engineering, Catalysis and Catalytic Processes, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING,
Department of Chemical Engineering, 2020 - Continues

Research Assistant PhD, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING,
Kimya Mühendisliği, 2013 - 2020

Research Assistant, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING,
Kimya Mühendisliği, 2009 - 2013

Courses

Basic Computer Sciences, Under Graduate, 2017 - 2018, 2018 - 2019

Graduation Thesis, Under Graduate, 2018 - 2019

Computer Applications in Chemical Engineering, Under Graduate, 2017 - 2018, 2018 - 2019

Chemical Engineering Lab II, Under Graduate, 2017 - 2018, 2018 - 2019

Quality Control in Chemical Industry, Under Graduate, 2018 - 2019

Bioprocess Engineering, Under Graduate, 2017 - 2018, 2018 - 2019
Chemical Reaction Engineering, Under Graduate, 2017 - 2018
Process Dynamics and Control, Under Graduate, 2017 - 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **The treatment of detergent industry wastewaters by supercritical water oxidation**
Kıpçak E., Senturk S., Akgün M.
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.96, pp.1169-1173, 2019 (Journal Indexed in SCI)
- **Biofuel production from olive mill wastewater through its Ni/Al₂O₃ and Ru/Al₂O₃ catalyzed supercritical water gasification**
Kıpçak E., Akgün M.
RENEWABLE ENERGY, vol.124, pp.155-164, 2018 (Journal Indexed in SCI)
- **Surface adsorption and spontaneous aggregation of rhamnolipid mixtures in aqueous solutions**
İkizler B., Arslan G., Kıpçak E., Dirik C., Celenk D., Aktuglu T., Helvacı Ş. Ş. , Peker S.
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.519, pp.125-136, 2017 (Journal Indexed in SCI)
- **The treatment of landfill leachate over Ni/Al₂O₃ by supercritical water oxidation**
Civan F., Ozaltun D. H. , KIPÇAK E., AKGÜN M.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.100, pp.7-14, 2015 (Journal Indexed in SCI)
- **Catalytic hydrogen production from 2-propanol in supercritical water: Comparison of some metal catalysts**
AKGÜN M., KIPÇAK E.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.90, pp.101-109, 2014 (Journal Indexed in SCI)
- **Hydrogen production from 2-propanol over Pt/Al₂O₃ and Ru/Al₂O₃ catalysts in supercritical water**
Karakus Y., Aynaci F., KIPÇAK E., AKGÜN M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.38, pp.7298-7306, 2013 (Journal Indexed in SCI)
- **In situ gas fuel production during the treatment of textile wastewater at supercritical conditions**
KIPÇAK E., AKGÜN M.
WATER SCIENCE AND TECHNOLOGY, vol.67, pp.1058-1067, 2013 (Journal Indexed in SCI)
- **Oxidative gasification of olive mill wastewater as a biomass source in supercritical water: Effects on gasification yield and biofuel composition**
Kıpçak E., Akgün M.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.69, pp.57-63, 2012 (Journal Indexed in SCI)
- **Hydrothermal gasification of olive mill wastewater as a biomass source in supercritical water**
Kıpçak E., Sogut O. O. , Akgün M.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.57, pp.50-57, 2011 (Journal Indexed in SCI)
- **The treatment of wastewaters by supercritical water oxidation**
Sogut O. O. , Yildirim E., AKGÜN M.
DESALINATION AND WATER TREATMENT, vol.26, pp.131-138, 2011 (Journal Indexed in SCI)
- **Treatment of whey wastewater by supercritical water oxidation**
Sogut O. O. , KIPÇAK E., AKGÜN M.
WATER SCIENCE AND TECHNOLOGY, vol.63, pp.908-916, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Catalytic Supercritical Water Gasification of 2-Propanol: The Effect of Fe-Cr Catalyst on Gasification and Hydrogen Yields**
Kıpçak E., Akgün M.
ACADEMIC JOURNAL OF SCIENCE, vol.3, pp.417-426, 2014 (Refereed Journals of Other Institutions)
- **Catalytic gasification of olive mill wastewater as a biomass source under supercritical conditions**
Kıpçak E., Akgün M.

INTERNATIONAL SCHOLARLY AND SCIENTIFIC RESEARCH & INNOVATION, vol.7, pp.690-694, 2013
(Refereed Journals of Other Institutions)

- **Hydrogen and biofuel production from 2-propanol over Ru/Al₂O₃ catalyst in supercritical water**

Kıpçak E., Karakuş Y., Akgün M.

INTERNATIONAL SCHOLARLY AND SCIENTIFIC RESEARCH & INNOVATION, vol.7, pp.695-698, 2013
(Refereed Journals of Other Institutions)

- **Simultaneous treatment and catalytic gasification of olive mill wastewater under supercritical conditions**

Kıpçak E., Kutluay S., Akgün M.

INTERNATIONAL SCHOLARLY AND SCIENTIFIC RESEARCH & INNOVATION, vol.6, pp.1075-1080, 2012
(Refereed Journals of Other Institutions)

- **Hydrogen rich fuel gas production from 2-propanol using Pt/Al₂O₃ and Ni/Al₂O₃ catalysts in supercritical water.**

Karakuş Y., Aynacı F., Kıpçak E., Akgün M.

INTERNATIONAL SCHOLARLY AND SCIENTIFIC RESEARCH & INNOVATION, vol.6, pp.1049-1053, 2012
(Refereed Journals of Other Institutions)

Book & Book Chapters

- **in: Production of Hydrogen from Renewable Resources**

Kıpçak E., Akgün M.

Hydrogen Production by Supercritical Water Gasification of Biomass, Zhen Fang, Richard L. Smith, Jr., Xinhua Qi, Editor, Springer, London/Berlin, Dordrecht, pp.179-220, 2015

Refereed Congress / Symposium Publications in Proceedings

- **The Treatment of Detergent Industry Wastewaters by Supercritical Water Oxidation**

Kıpçak E., Şentürk S., Akgün M.

5th International Conference on New Trends in Chemistry, Athens, Greece, 22 - 24 Nisan 2019, pp.51

- **Supercritical Water Gasification of Isopropanol and Isobutanol: An Alternative Approach for Energy Production**

Kıpçak E., Akgün M.

6th Annual International Conference on Chemistry, Athens, Greece, 23 - 26 Temmuz 2018, pp.30

- **Hydrogen and Fuel Gas Production from Isobutanol Over Pt/Al₂O₃ Catalyst by Supercritical Water Gasification**

Kıpçak E., Özaltun D. H. , Çavuşoğlu F., Akgün M.

International Conference on Energy and Thermal Engineering: Istanbul 2017, İstanbul, Turkey, 25 - 28 Nisan 2017, pp.866

- **The treatment of landfill leachate by supercritical water oxidation with the use of Ni/Al₂O₃ catalyst**

Kıpçak E., Çavuşoğlu F., Özaltun D. H. , Akgün M.

International Conference on Energy and Thermal Engineering: Istanbul 2017, İstanbul, Turkey, 25 - 28 Nisan 2017, pp.666-670

- **Catalytic Gasification of Methanol at Supercritical Water Conditions**

Kıpçak E., Özaltun D. H. , Çavuşoğlu F., Akgün M.

International Conference on Energy and Thermal Engineering: Istanbul 2017, İstanbul, Turkey, 25 - 28 Nisan 2017, pp.865

- **Süperkritik su ortamında etanolden hidrojen üretiminde Pt/Al₂O₃ katalizörünün etkisi**

Özaltun D. H. , Civan F., Kıpçak E., Akgün M.

12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 Ağustos 2016, pp.219-220

- **Süperkritik su koşullarında hidrotermal, oksidatif ve katalitik gazlaştırma ile zeytin karasuyundan biyoyakıt üretimi: Bir derleme çalışması**

Kıpçak E., Akgün M.

12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 Ağustos 2016, pp.1-5

- **Deterjan fabrikası atık suyunun süperkritik su oksidasyonu yöntemi ile artımı**
Civan F., Şentürk S., Özaltun D. H. , Kıpçak E., Akgün M.
12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 Ağustos 2016, pp.1-5
- **Süperkritik su ortamında izopropil alkolden katalitik hidrojen üretiminde çeşitli katalizörlerin etkisi**
Akgün M., Karakuş Y., Aynacı F., Kıpçak E.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 Eylül 2014, pp.1-5
- **Süperkritik su ortamında Pt/Al₂O₃ katalizörü kullanarak çeşitli alkollerden hidrojen üretimi**
Özaltun D. H. , Kıpçak E., Akgün M.
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 Eylül 2014, pp.1-5
- **The effect of catalyst use on the gasification of olive mill wastewater at supercritical conditions**
Kıpçak E., Akgün M.
EurAsia Waste Management Symposium, İstanbul, Turkey, 28 - 30 Nisan 2014, pp.822-827
- **Hydrothermal gasification: a promising method for energy recovery and simultaneous treatment of industrial wastewaters**
Kıpçak E., Özaltun D. H. , Akgün M.
EurAsia Waste Management Symposium, İstanbul, Turkey, 28 - 30 Nisan 2014, pp.526-531
- **The treatment of landfill leachate by supercritical water oxidation**
Yalın A., Keleş Ö., Kıpçak E., Akgün M.
EurAsia Waste Management Symposium, İstanbul, Turkey, 28 - 30 Nisan 2014, pp.264-270
- **Catalytic supercritical water gasification of 2-propanol: the effect of Fe-Cr catalyst on gasification and hydrogen yields**
Kıpçak E., Akgün M.
International Journal of Arts and Sciences' International Conference for Academic Disciplines, Vienna, Austria, 6 - 10 Nisan 2014, pp.1-5
- **Hydrogen and biofuel production from 2-propanol over Ru/Al₂O₃ catalyst in supercritical water**
Kıpçak E., Karakuş Y., Akgün M.
ICCEAC 2013: International Conference on Chemical Engineering and Applied Chemistry, Rome, Italy, 26 - 27 Eylül 2013, pp.1109-1112
- **Catalytic gasification of olive mill wastewater as a biomass source under supercritical conditions**
Kıpçak E., Akgün M.
ICCEAC 2013: International Conference on Chemical Engineering and Applied Chemistry, Rome, Italy, September 26-27, Rome, Italy, 26 - 27 Eylül 2013, pp.1103-1108
- **Simultaneous treatment and catalytic gasification of olive mill wastewater under supercritical conditions**
Kıpçak E., Kutluay S., Akgün M.
ICCE 2012: International Conference on Chemical Engineering, Paris, France, 28 - 29 Kasım 2012, pp.1636-1642
- **Hydrogen rich fuel gas production from 2-propanol using Pt/Al₂O₃ and Ni/Al₂O₃ catalysts in supercritical water**
Karakuş Y., Aynacı F., Kıpçak E., Akgün M.
ICCE 2012: International Conference on Chemical Engineering, Paris, France, 28 - 29 Kasım 2012, pp.1767-1771
- **Süperkritik su ortamında zeytin karasuyunun Pt katalizörü kullanılarak hidrotermal artımı ve gazlaştırılması**
Kutluay S., Aynacı F., Kıpçak E., Akgün M.
10. Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 Eylül 2012, pp.285-286
- **Zeytin Karasuyunun Pt Katalizörü Kullanılarak Hidrotermal Artımı ve Gazlaştırılması**
KUTLUAY S., AYNACI F., KIPÇAK E., AKGÜN M.
10. Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 03 Eylül 2012, pp.1
- **Bir biyokütle olarak zeytin karasuyunun süperkritik su koşullarında gazlaştırılması**
Kıpçak E., Akgün M.
10. Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 Eylül 2012, pp.281-282
- **Süperkritik su ortamında 2-propanolün katalitik gazlaştırılması**
Aynacı F., Kutluay S., Kıpçak E., Akgün M.
10. Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 Eylül 2012, pp.283-284
- **The effect of oxygen on the gasification of biomass in supercritical water**

Kıpçak E., Söğüt O. Ö. , Akgün M.

12th Mediterranean Congress of Chemical Engineering, Barcelona, Spain, 15 - 18 Kasım 2011, pp.1

- **The evaluation of different wastewaters as an energy source through their treatment by supercritical water gasification**

Kıpçak E., Akgün M.

12th Mediterranean Congress of Chemical Engineering, Barcelona, Spain, 15 - 18 Kasım 2011, pp.1

- **Hydrothermal gasification of industrial wastewater at supercritical conditions**

Söğüt O. Ö. , Kıpçak E., Arslan T., Akgün M.

9th Conference on Supercritical Fluids and Their Applications, Naples, Italy, 5 - 08 Eylül 2010, pp.427-432

- **Hydrothermal gasification of biomass in supercritical water**

Kıpçak E., Söğüt O. Ö. , Akgün M.

9th Conference on Supercritical Fluids and Their Applications, Naples, Italy, 5 - 08 Eylül 2010, pp.413-419

- **The treatment of wastewaters by supercritical water oxidation**

Söğüt O. Ö. , Kıpçak E., Akgün M.

ULE2009 / International Workshop on Urbanization, Land Use, Land Degradation, and Environment, Denizli, Turkey, 28 Eylül - 01 Ekim 2009, pp.1-5

Supported Projects

Kıpçak E., Akgün M., TUBITAK Project, Süperkritik Su Ortamında İzopropil Alkolden Hidrojen Üretimi, 2012 - 2013

Akgün M., Kıpçak E., TUBITAK Project, Zeytin Karasuyundan Hidrojen ve Biyoyakıt Üretimi, 2009 - 2012

Scientific Refereeing

JOURNAL OF SUPERCRITICAL FLUIDS, SCI Journal, July 2017

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCIE, May 2017

Citations

Total Citations (WOS):149

h-index (WOS):8

Scholarships

Bilim İnsanı Destekleme Daire Başkanlığı Yurt İçi Doktora Bursu, TUBITAK, 2007 - 2013

Awards

Kıpçak E., Yılın Doktora Tezi Ödülü, Ege Sanayicileri Ve İşadamları Derneği (Esiad), December 2014