

## Prof. Dr. SELÇUK BİLGEN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAW-3689-2020

Yoksis Araştırmacı ID: 152499

### Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, Türkiye 2000 - 2006

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, Türkiye 1997 - 2000

Lisans, Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, Türkiye 1992 - 1996

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Bazı Kimyasal Proseslerin Ekserji Değerlerinin Hesaplanması, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2006

Yüksek Lisans, Bazı Yakıtların Kimyasal Ekserji Değerlerinin Hesaplanması, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2000

### Araştırma Alanları

Kimya, Fizikokimya, Hesapsal Kimya, Termodinamik, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya, 2017 - Devam Ediyor

Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya, 2012 - 2017

Yrd. Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya, 2007 - 2012

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya, 1998 - 2005

### Akademik İdari Deneyim

Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2010 - 2013

## Yönetilen Tezler

BİLGEN S., Hızlı Piroliz Yöntemi ile Biyokütleden Elde Edilen Sıvı Ürünlerin Kimyasal Ekserjilerinin Hesaplanması, Yüksek Lisans, L.Murat(Öğrenci), 2014

## Jüri Üyelikleri

Tez Savunma (Doktora), Doktora Tez savunma Jurisi, Karadeniz Teknik Üniversitesi, Ağustos, 2009

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Micellization, aggregation, interaction, and solubilization behaviors of mixed solutions of cationic gemini and nonionic surfactants**  
Sarıkaya Yıldız İ., BİLGEN S., Akbaş H.  
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- II. **Role of a novel cationic gemini surfactant (CGS) on a one-step sol-gel process and photocatalytic properties of TiO<sub>2</sub> powders**  
Kesir M. K., Yıldız I. S., BİLGEN S., Sokmen M.  
JOURNAL OF WATER AND HEALTH, cilt.20, sa.11, ss.1629-1643, 2022 (SCI-Expanded)
- III. **Synthesis, Characterization, Antibacterial Activity, and Interfacial and Micellar Features of Novel Cationic Gemini Surfactants with Different Spacers**  
Sarıkaya I., BİLGEN S., ÜNVER Y., İNAN BEKTAŞ K., Akbas H.  
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- IV. **Studies on Synthesis, Characterization, Micellar Features, and Solubilization of Four Novel Cationic Gemini Surfactants**  
Sarıkaya I., BİLGEN S., ÜNVER Y., Akbas H.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, cilt.66, sa.3, ss.1522-1532, 2021 (SCI-Expanded)
- V. **Investigation of Mixing Behavior of both a Conventional Surfactant and Different Inorganic Salts with a Cationic Gemini Surfactant in Aqueous Solution**  
Sarıkaya I., BİLGEN S., Akbas H.  
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- VI. **Energy conservation policy and environment for a clean and sustainable energy future**  
BİLGEN S., Sarıkaya I.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, cilt.13, sa.3, ss.183-189, 2018 (SCI-Expanded)
- VII. **The use and its impact on the environment of cogeneration as an important element for a clean and sustainable energy future**  
BİLGEN S., Sarıkaya I.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.39, sa.21, ss.2078-2086, 2017 (SCI-Expanded)
- VIII. **Contribution on Turkey's electricity production development of primary green energy resources**  
BİLGEN S., Sarıkaya I.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, cilt.12, sa.10, ss.876-882, 2017 (SCI-Expanded)
- IX. **Contribution of efficient energy use on economy, environment, and sustainability**  
BİLGEN S., Sarıkaya İ.  
Energy Sources, Part B: Economics, Planning and Policy, cilt.11, sa.12, ss.1166-1172, 2016 (SCI-Expanded)
- X. **New horizon in energy: Shale gas**  
BİLGEN S., Sarıkaya İ.  
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- XI. **Correlation for estimation of the chemical availability (exergy) from ultimate analysis of pyrolytic**

**oils obtained from fast pyrolysis of biomass**

BİLGEN S.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.38, sa.9, ss.1286-1292, 2016 (SCI-Expanded)

- XII. **The effects of chemical characteristics of coal on coal-based industry**  
BİLGEN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.38, sa.22, ss.3324-3331, 2016 (SCI-Expanded)
- XIII. **Pollution control techniques and technologies for cleaner coal**  
BİLGEN S.  
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- XIV. **A new correlation for calculation of the chemical exergy of bio-oils obtained from agricultural residues by using elementary analyses data**  
BİLGEN S., Sarikaya I., Ayyıldız L. M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.38, sa.20, ss.3055-3064, 2016 (SCI-Expanded)
- XV. **The status of primary fossil energy resources in Turkey**  
BİLGEN S.  
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- XVI. **Utilization of forestry and agricultural wastes**  
BİLGEN S., Sarikaya I.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.38, sa.23, ss.3484-3490, 2016 (SCI-Expanded)
- XVII. **The environmental effects of coal-related activities**  
BİLGEN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.38, sa.22, ss.3283-3289, 2016 (SCI-Expanded)
- XVIII. **Exergy for environment, ecology and sustainable development**  
BİLGEN S., Sarikaya I.  
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- XIX. **A perspective for potential and technology of bioenergy in Turkey: Present case and future view**  
BİLGEN S., KELEŞ S., Sarikaya I., KAYGUSUZ K.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.48, ss.228-239, 2015 (SCI-Expanded)
- XX. **Calculation of Thermodynamic Values for Agricultural Residues as Potential Renewable Energy Resources**  
Bilgen S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.37, sa.12, ss.1268-1274, 2015 (SCI-Expanded)
- XXI. **Structure and environmental impact of global energy consumption**  
Bilgen S.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.38, ss.890-902, 2014 (SCI-Expanded)
- XXII. **The Estimation of Chemical Availability (Exergy) Values for Various Types of Coals in Geographical Regions of Turkey**  
Bilgen S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.36, sa.8, ss.830-842, 2014 (SCI-Expanded)
- XXIII. **The Determination of the Chemical Exergy Values of Indonesian Biomass and Biomass Residues**  
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JOURNAL OF BIOBASED MATERIALS AND BIOENERGY, cilt.8, sa.1, ss.88-93, 2014 (SCI-Expanded)

- XXIV. **Comparison of Physico-chemical Properties of Various Coals as Thermodynamics: First and Second Law Analysis**  
Bilgen S.  
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- XXV. **Investigation of the Chemical Exergy and Water Quality of the Galyan River, Trabzon, Turkey**  
BİLGEN S., BULUT V. N.  
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- XXVI. **Renewable energy sources in Turkey for climate change mitigation and energy sustainability**  
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- XXVII. **Calculation of higher and lower heating values and chemical exergy values of liquid products obtained from pyrolysis of hazelnut cupulae**  
BİLGEN S., KELEŞ S., KAYGUSUZ K.  
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- XXVIII. **Calculation and Interpretation of the Standard Chemical Exergies of Elements Using the Chemical Reference Species**  
Selcuk B.  
ACTA PHYSICO-CHIMICA SINICA, cilt.25, sa.8, ss.1645-1649, 2009 (SCI-Expanded)
- XXIX. **Thermodynamic Aspects of Renewable and Sustainable Development**  
KAYGUSUZ K., BİLGEN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.31, sa.4, ss.287-298, 2009 (SCI-Expanded)
- XXX. **The calculation of the chemical exergies of coal-based fuels by using the higher heating values**  
BİLGEN S., KAYGUSUZ K.  
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- XXXI. **Global warming and renewable energy sources for sustainable development: A case study in Turkey**  
BİLGEN S., KELEŞ S., Kaygusuz A., Sari A., KAYGUSUZ K.  
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- XXXII. **Thermodynamic aspects of energy systems and sustainable development**  
BİLGEN S., KAYGUSUZ K., Sari A.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, cilt.30, sa.4, ss.325-333, 2008 (SCI-Expanded)
- XXXIII. **Second law (exergy) analysis of cogeneration system**  
BİLGEN S., KAYGUSUZ K.  
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- XXXIV. **Energy Related Environmental Policies in Turkey**  
KAYGUSUZ K., BİLGEN S.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, cilt.3, sa.4, ss.396-410, 2008 (SCI-Expanded)
- XXXV. **The role of biomass in greenhouse gas mitigation**  
BİLGEN S., KELES S., Kaygusuz K.  
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- XXXVI. **Renewable energy for a clean and sustainable future**  
BİLGEN S., Kaygusuz K., SARI A.  
ENERGY SOURCES, cilt.26, sa.12, ss.1119-1129, 2004 (SCI-Expanded)
- XXXVII. **Second law analysis of various types of coal and woody biomass in Turkey**  
BİLGEN S., Kaygusuz K., SARI A.  
ENERGY SOURCES, cilt.26, sa.11, ss.1083-1094, 2004 (SCI-Expanded)

**XXXVIII. Energy utilization, environmental pollution and renewable energy sources in Turkey**

OCAK M., OCAK Z., BILGEN S., KELES S., Kaygusuz K.

ENERGY CONVERSION AND MANAGEMENT, cilt.45, sa.6, ss.845-864, 2004 (SCI-Expanded)

**Diğer Dergilerde Yayınlanan Makaleler**

**I. Biomass energy source in developing countries**

KELEŞ S., BİLGEN S., KAYGUSUZ K.

Journal of Engineering Research and Applied Science, cilt.6, sa.1, ss.566-576, 2017 (Hakemli Dergi)

**II. Bioenergy potential, utilization and policies in Turkey**

KELEŞ S., BİLGEN S., KAYGUSUZ K.

Journal of Engineering Research and Applied Science, cilt.6, sa.1, ss.566-576, 2017 (Hakemli Dergi)

**Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**I. Photocatalytic Properties of TiO<sub>2</sub> Nanoparticles Prepared by Sol-Gel Method in the Presence of Different Surfactants**

Koç Keşir M., Sarıkaya İ., ALTIN İ., Sökmen M., Bilgen S.

International Porous & Powder Materials Symposium and Exhibitions (PPM 2017), İzmir, Türkiye, 12 - 15 Eylül 2017, ss.1

**II. Calculation of Chemical Exergy Values of Selected Solid Wastes**

ÖNGEN A., BİLGEN S., DİNCER İ.

3rd International Conference on Recycling and Reuse(R&R, 2016), İstanbul, Türkiye, 28 - 30 Eylül 2016

**III. Global Energy Consumption Sectors**

BİLGEN S., SARIKAYA İ., TAÇ A.

21st International Energy and Environment Fair and Conference, İstanbul, Türkiye, 6 - 08 Mayıs 2015, ss.138-142

**IV. Energy Efficiency and Water Quality of The Galyan River**

BİLGEN S., BULUT V. N.

21st International Energy and Environment Fair and Conference, İstanbul, Türkiye, 6 - 08 Mayıs 2015, ss.147-150

**V. Exergy and Sustainable Development**

SARIKAYA İ., BİLGEN S., BAHADIR A., KAYGUSUZ K.

21st International Energy and Environment Fair and Conference, İstanbul, Türkiye, 6 - 08 Mayıs 2015, ss.78-85

**VI. Exergy and Environment**

SARIKAYA İ., BİLGEN S., AYYILDIZ L. M.

21st International Energy and Environment Fair and Conference, İstanbul, Türkiye, 6 - 08 Mayıs 2015, ss.72-77

**VII. Environmental Impact of Global Energy Consumption**

BİLGEN S.

21st International Energy and Environment Fair and Conference, İstanbul, Türkiye, 6 - 08 Mayıs 2015, ss.143-146

**VIII. The Chemical exergy of Petroleum Derived Fuels**

BİLGEN S., Taç A., Saylan F.

20th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Türkiye, 24 - 26 Nisan 2014, ss.166-169

**IX. A correlation Depending on the Elemental Analysis for Estimating og the Chemical Exergy Value of Bio-oil Obtained from Fast Pyrolysis of Biomass**

BİLGEN S., Ayyıldız L. M., KELEŞ S.

20th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Türkiye, 24 - 26 Nisan 2014, ss.170-173

**X. Gasification Product Composition**

KAR T., KELEŞ S., BİLGEN S., KAYGUSUZ K.

20th International Energy and Environment Fair and Conference, İstanbul, Türkiye, 24 - 26 Nisan 2014, ss.200-203

- XI. **Global Energy Consumption**  
BİLGİN S.  
20th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Türkiye, 24 - 26 Nisan 2014, ss.174-177
- XII. **A Correlation Depending On The Elemental Analysis For Estimating of The Chemical Exergy Value of Bio-Oil Obtained From Fast Pyrolysis of Biomass**  
BİLGİN S., AYYILDIZ L. M., KELEŞ S.  
20th International Energy and Environment Fair and Conference, İstanbul, Türkiye, 24 - 26 Nisan 2014, ss.170-173
- XIII. **Climate change Mitigation in Turkey**  
KELEŞ S., BİLGİN S., KAR T., KAYGUSUZ K.  
19th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Türkiye, 24 - 26 Nisan 2013, ss.141-144
- XIV. **Fast Pyrolysis of Chestnut Cupulae: Yields and Characterization of the Bio-oil**  
KAR T., KELEŞ S., BİLGİN S., KAYGUSUZ K.  
19th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Türkiye, 24 - 26 Nisan 2013, ss.145-148
- XV. **Calculation of Higher and Lower Heating Values and Chemical Exergy Values of Liquid Products Obtained from Pyrolysis of Hazelnut Cupulae**  
BİLGİN S., KELEŞ S., KAR T., KAYGUSUZ K.  
19th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Türkiye, 24 - 26 Nisan 2013, ss.137-140
- XVI. **Renewable Energy Sources and Environmental Pollution in Turkey**  
BİLGİN S.  
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- XVII. **The Calculation of The Chemical Exergies of Coal-Based Fuels by Using HHV**  
BİLGİN S., ÜÇÜNCÜ O., KELEŞ S., KAYGUSUZ K.  
16th International Energy and Environment Fair and Conference, İstanbul, Türkiye, 12 - 14 Mayıs 2010, ss.1
- XVIII. **Hydropower in Turkey for Sustainable Energy Future**  
KELEŞ S., BİLGİN S., KAYGUSUZ K.  
15th International Energy and Environment Fair and Conference, İstanbul, 2009, İstanbul, Türkiye, 13 - 15 Mayıs 2009, ss.290
- XIX. **Global Warming and Renewable Energy Sources for Sustainable Development: A Case Study in Turkey**  
BİLGİN S., KELEŞ S., KAYGUSUZ K.  
14th International Energy and Environment Fair and Conference, İstanbul, Türkiye, 15 - 17 Mayıs 2008, ss.382
- XX. **Second Law Analysis of a General Cogeneration System**  
BİLGİN S., KELEŞ S., KAYGUSUZ K.  
13th International Energy, Cogeneration and Environmental Technologies Conference & Exhibition, İstanbul, Türkiye, 30 - 31 Mayıs 2007, ss.240
- XXI. **The Chemical Exergies for Various Types of Turkish Tertiary Coals**  
BİLGİN S., KELEŞ S., KAYGUSUZ K.  
13th International Energy, Cogeneration and Environmental Technologies Conference & Exhibition, İstanbul, Türkiye, 30 - 31 Mayıs 2007, ss.242

## **Bilimsel Hakemlikler**

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## **Metrikler**

Yayın: 62

Atıf (WoS): 864

Atıf (Scopus): 938

H-İndeks (WoS): 14

H-İndeks (Scopus): 14