

# Prof. SELÇUK BİLGEN

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, Turkey 2000 - 2006

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, Turkey 1997 - 2000

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Kimya, Turkey 1992 - 1996

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Bazı Kimyasal Proseslerin Ekserji Değerlerinin Hesaplanması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2006

Postgraduate, Bazı Yakıtların Kimyasal Ekserji Değerlerinin Hesaplanması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2000

## Research Areas

Chemistry, Physical Chemistry, Computational Chemistry, Thermodynamics, Natural Sciences

## Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2017 - Continues

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2012 - 2017

Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2007 - 2012

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Kimya, 1998 - 2005

## Academic and Administrative Experience

Karadeniz Technical University, Fen Fakültesi, Kimya Bölümü, 2010 - 2013

## Advising Theses

BİLGEN S., Hızlı Piroлиз Yöntemi ile Biyokütleden Elde Edilen Sıvı Ürünlerin Kimyasal Ekserjilerinin Hesaplanması, Postgraduate, L.Murat(Student), 2014

## Jury Memberships

Doctorate, Doktora Tez savunma Jurisi, Karadeniz Teknik Üniversitesi, August, 2009

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

- I. **Micellization, aggregation, interaction, and solubilization behaviors of mixed solutions of cationic gemini and nonionic surfactants**  
Sarıkaya Yıldız İ., BİLGEN S., Akbaş H.  
Journal of Surfactants and Detergents, vol.27, no.4, pp.547-555, 2024 (SCI-Expanded)
- 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, vol.20, no.11, pp.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.  
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.24, no.6, pp.909-921, 2021 (SCI-Expanded)
- 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, vol.66, no.3, pp.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.  
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.22, no.6, pp.1319-1330, 2019 (SCI-Expanded)
- 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, vol.13, no.3, pp.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, vol.39, no.21, pp.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, vol.12, no.10, pp.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, vol.11, no.12, pp.1166-1172, 2016 (SCI-Expanded)
- X. **New horizon in energy: Shale gas**  
BİLGEN S., Sarıkaya İ.  
Journal of Natural Gas Science and Engineering, vol.35, pp.637-645, 2016 (SCI-Expanded)
- 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, vol.38, no.9, pp.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, vol.38, no.22, pp.3324-3331, 2016 (SCI-Expanded)
- XIII. **Pollution control techniques and technologies for cleaner coal**  
BİLGEN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.22, pp.3308-3314, 2016 (SCI-Expanded)
- 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, vol.38, no.20, pp.3055-3064, 2016 (SCI-Expanded)
- XV. **The status of primary fossil energy resources in Turkey**  
BİLGEN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.23, pp.3478-3483, 2016 (SCI-Expanded)
- XVI. **Utilization of forestry and agricultural wastes**  
BİLGEN S., Sarikaya I.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.23, pp.3484-3490, 2016 (SCI-Expanded)
- XVII. **The environmental effects of coal-related activities**  
BİLGEN S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.22, pp.3283-3289, 2016 (SCI-Expanded)
- XVIII. **Exergy for environment, ecology and sustainable development**  
BİLGEN S., Sarikaya I.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.51, pp.1115-1131, 2015 (SCI-Expanded)
- 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, vol.48, pp.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, vol.37, no.12, pp.1268-1274, 2015 (SCI-Expanded)
- XXI. **Structure and environmental impact of global energy consumption**  
Bilgen S.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.38, pp.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, vol.36, no.8, pp.830-842, 2014 (SCI-Expanded)
- XXIII. **The Determination of the Chemical Exergy Values of Indonesian Biomass and Biomass Residues**  
Bilgen S.  
JOURNAL OF BIOBASED MATERIALS AND BIOENERGY, vol.8, no.1, pp.88-93, 2014 (SCI-Expanded)

- XXIV. **Comparison of Physico-chemical Properties of Various Coals as Thermodynamics: First and Second Law Analysis**  
Bilgen S.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.36, no.21, pp.2347-2354, 2014 (SCI-Expanded)
- XXV. **Investigation of the Chemical Exergy and Water Quality of the Galyan River, Trabzon, Turkey**  
BİLGEN S., BULUT V. N.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.36, no.23, pp.2595-2602, 2014 (SCI-Expanded)
- XXVI. **Renewable energy sources in Turkey for climate change mitigation and energy sustainability**  
KELEŞ S., BİLGEN S.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.16, no.7, pp.5199-5206, 2012 (SCI-Expanded)
- 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.  
ENERGY, vol.41, no.1, pp.380-385, 2012 (SCI-Expanded)
- XXVIII. **Calculation and Interpretation of the Standard Chemical Exergies of Elements Using the Chemical Reference Species**  
Selcuk B.  
ACTA PHYSICO-CHIMICA SINICA, vol.25, no.8, pp.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, vol.31, no.4, pp.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.  
APPLIED ENERGY, vol.85, no.8, pp.776-785, 2008 (SCI-Expanded)
- 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.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.12, no.2, pp.372-396, 2008 (SCI-Expanded)
- XXXII. **Thermodynamic aspects of energy systems and sustainable development**  
BİLGEN S., KAYGUSUZ K., Sari A.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.30, no.4, pp.325-333, 2008 (SCI-Expanded)
- XXXIII. **Second law (exergy) analysis of cogeneration system**  
BİLGEN S., KAYGUSUZ K.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.30, no.13, pp.1267-1280, 2008 (SCI-Expanded)
- XXXIV. **Energy Related Environmental Policies in Turkey**  
KAYGUSUZ K., BİLGEN S.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.3, no.4, pp.396-410, 2008 (SCI-Expanded)
- XXXV. **The role of biomass in greenhouse gas mitigation**  
BİLGEN S., KELES S., Kaygusuz K.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.29, no.13, pp.1243-1252, 2007 (SCI-Expanded)
- XXXVI. **Renewable energy for a clean and sustainable future**  
BİLGEN S., Kaygusuz K., SARI A.  
ENERGY SOURCES, vol.26, no.12, pp.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, vol.26, no.11, pp.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, vol.45, no.6, pp.845-864, 2004 (SCI-Expanded)

### Articles Published in Other Journals

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

KELEŞ S., BİLGEN S., KAYGUSUZ K.

Journal of Engineering Research and Applied Science, vol.6, no.1, pp.566-576, 2017 (Peer-Reviewed Journal)

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

KELEŞ S., BİLGEN S., KAYGUSUZ K.

Journal of Engineering Research and Applied Science, vol.6, no.1, pp.566-576, 2017 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

**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, Turkey, 12 - 15 September 2017, pp.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, Turkey, 28 - 30 September 2016

**III. Global Energy Consumption Sectors**

BİLGEN S., SARIKAYA İ., TAÇ A.

21st International Energy and Environment Fair and Conference, İstanbul, Turkey, 6 - 08 May 2015, pp.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, Turkey, 6 - 08 May 2015, pp.147-150

**V. Exergy and Sustainable Development**

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

21st International Energy and Environment Fair and Conference, İstanbul, Turkey, 6 - 08 May 2015, pp.78-85

**VI. Exergy and Environment**

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

21st International Energy and Environment Fair and Conference, İstanbul, Turkey, 6 - 08 May 2015, pp.72-77

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

BİLGEN S.

21st International Energy and Environment Fair and Conference, İstanbul, Turkey, 6 - 08 May 2015, pp.143-146

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

BİLGEN S., Taç A., Saylan F.

20th International Energy and Environment Fair and Conference, Istanbul, 2013, İstanbul, Turkey, 24 - 26 April 2014, pp.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, Istanbul, 2013, İstanbul, Turkey, 24 - 26 April 2014, pp.170-173

**X. Gasification Product Composition**

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

20th International Energy and Environment Fair and Conference, İstanbul, Turkey, 24 - 26 April 2014, pp.200-203

- XI. **Global Energy Consumption**  
BİLGEN S.  
20th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Turkey, 24 - 26 April 2014, pp.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**  
BİLGEN S., AYYILDIZ L. M., KELEŞ S.  
20th International Energy and Environment Fair and Conference, İstanbul, Turkey, 24 - 26 April 2014, pp.170-173
- XIII. **Climate change Mitigation in Turkey**  
KELEŞ S., BİLGEN S., KAR T., KAYGUSUZ K.  
19th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Turkey, 24 - 26 April 2013, pp.141-144
- XIV. **Fast Pyrolysis of Chestnut Cupulae: Yields and Characterization of the Bio-oil**  
KAR T., KELEŞ S., BİLGEN S., KAYGUSUZ K.  
19th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Turkey, 24 - 26 April 2013, pp.145-148
- XV. **Calculation of Higher and Lower Heating Values and Chemical Exergy Values of Liquid Products Obtained from Pyrolysis of Hazelnut Cupulae**  
BİLGEN S., KELEŞ S., KAR T., KAYGUSUZ K.  
19th International Energy and Environment Fair and Conference, İstanbul, 2013, İstanbul, Turkey, 24 - 26 April 2013, pp.137-140
- XVI. **Renewable Energy Sources and Environmental Pollution in Turkey**  
BİLGEN S.  
17th International Energy and Environment Fair and Conference, İstanbul, Turkey, 15 - 17 June 2011, pp.1
- XVII. **The Calculation of The Chemical Exergies of Coal-Based Fuels by Using HHV**  
BİLGEN S., Üçüncü O., KELEŞ S., KAYGUSUZ K.  
16th International Energy and Environment Fair and Conference, İstanbul, Turkey, 12 - 14 May 2010, pp.1
- XVIII. **Hydropower in Turkey for Sustainable Energy Future**  
KELEŞ S., BİLGEN S., KAYGUSUZ K.  
15th International Energy and Environment Fair and Conference, İstanbul, 2009, İstanbul, Turkey, 13 - 15 May 2009, pp.290
- XIX. **Global Warming and Renewable Energy Sources for Sustainable Development: A Case Study in Turkey**  
BİLGEN S., KELEŞ S., KAYGUSUZ K.  
14th International Energy and Environment Fair and Conference, İstanbul, Turkey, 15 - 17 May 2008, pp.382
- XX. **Second Law Analysis of a General Cogeneration System**  
BİLGEN S., KELEŞ S., KAYGUSUZ K.  
13th International Energy, Cogeneration and Environmental Technologies Conference & Exhibition, İstanbul, Turkey, 30 - 31 May 2007, pp.240
- XXI. **The Chemical Exergies for Various Types of Turkish Tertiary Coals**  
BİLGEN S., KELEŞ S., KAYGUSUZ K.  
13th International Energy, Cogeneration and Environmental Technologies Conference & Exhibition, İstanbul, Turkey, 30 - 31 May 2007, pp.242

## Scientific Refereeing

Energy, SCI Journal, January 2018

Energy Sources, Part A, SCI Journal, January 2018

Energy, SCI Journal, November 2017

Renewable & Sustainable Energy Reviews, SCI Journal, November 2017

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Energy Sources, Part A, SCI Journal, October 2017  
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Energy, SCI Journal, August 2017  
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Renewable & Sustainable Energy Reviews, SCI Journal, July 2017  
Energy, SCI Journal, July 2017  
Environmental Progress & Sustainable Energy, SCI Journal, June 2017  
Energy Exploration & Exploitation, Other Indexed Journal, June 2017  
Renewable & Sustainable Energy Reviews, SCI Journal, June 2017  
Energy, SCI Journal, May 2017  
Energy, SCI Journal, May 2017  
Energy, SCI Journal, May 2017  
Renewable & Sustainable Energy Reviews, SCI Journal, May 2017  
Renewable & Sustainable Energy Reviews, SCI Journal, May 2017  
Applied Energy, SCI Journal, May 2017  
Renewable & Sustainable Energy Reviews, SCI Journal, February 2017  
The Open Fuels & Energy Science Journal, Other Indexed Journal, January 2017  
Energy, SCI Journal, January 2017  
Energy, SCI Journal, December 2016  
Energy, SCI Journal, October 2016  
Energy, SCI Journal, September 2016  
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Energy, SCI Journal, August 2016  
Energy, SCI Journal, August 2016  
International Journal of Hydrogen Energy, SCI Journal, May 2016  
Energy, SCI Journal, January 2016  
International Journal of Energy Research, SCI Journal, January 2016  
Thermal Science, SCI Journal, January 2016  
Journal of Environmental Planning and Management, Journal Indexed in SSCI, November 2015  
Renewable & Sustainable Energy Reviews, SCI Journal, October 2015  
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Energy Sources, Part A, SCI Journal, September 2015  
Renewable & Sustainable Energy Reviews, SCI Journal, March 2015  
Energy Conversion & Management, SCI Journal, February 2015  
Renewable & Sustainable Energy Reviews, SCI Journal, January 2015  
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## **Metrics**

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