

## Prof. SELÇUK BİLGİN

### 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

BİLGİN S., Hızlı Piroliz 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., BİLGİN S., Akbaş H.  
Journal of Surfactants and Detergents, 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., BİLGİN 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., BİLGİN 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., BİLGİN 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., BİLGİN 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**  
BİLGİN 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**  
BİLGİN 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**  
BİLGİN 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**  
BİLGİN S., Sarıkaya I.  
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**  
BİLGİN S., Sarıkaya I.  
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, Istanbul, 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, Istanbul, 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, Istanbul, 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, Istanbul, 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, Istanbul, 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 Exploration & Exploitation, Other Indexed Journal, June 2017  
Renewable & Sustainable Energy Reviews, SCI Journal, June 2017  
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Renewable & Sustainable Energy Reviews, SCI Journal, February 2017  
The Open Fuels & Energy Science Journal, Other Indexed Journal, January 2017  
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International Journal of Hydrogen Energy, SCI Journal, May 2016  
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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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