

## Prof. KAMİL KAYGUSUZ

### Personal Information

**Email:** kamilk@ktu.edu.tr

**Web:** <https://avesis.ktu.edu.tr//kamilk>

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 1988 - 1993

### Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Chemical Process System Engineering, Basic Operations and Thermodynamics, Thermodynamics, Heat Transfer, Chemistry, Physical Chemistry, Thermodynamics, Fuel Cells, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2000 - Continues

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

- I. **Guest editorial for special issue on "Progress in Energy Systems"**  
JAVANI N., KAYGUSUZ K.  
International Journal of Energy Research, vol.46, no.14, pp.20718, 2022 (SCI-Expanded)
- II. **Carbonized waste hazelnut wood-based shape-stable composite phase change materials for thermal management implementations**  
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.7, pp.10271-10284, 2021 (SCI-Expanded)
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- IV. **Comparison of catalytic and noncatalytic pyrolysis and product yields of some waste biomass species**  
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.6, pp.2032-2043, 2019 (SCI-Expanded)
- V. **Molecular Conformational Analysis, Spectroscopic Characterization, Intramolecular Hydrogen Bonding and Natural Bond Analysis of (E,Z)-2-(4-Amino-5-oxo-3-(thiophene-2-ylmethyl)-4,5-dihydro-1,2,4-triazole-1-yl)-N'-(thiophene-2-ylmethylene) Acetohydrazide**  
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- VII. **A research on hydrogen production from industrial waste heat by thermal water splitting**  
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- VIII. **A perspective for potential and technology of bioenergy in Turkey: Present case and future view**  
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- IX. **Calculation of higher and lower heating values and chemical exergy values of liquid products obtained from pyrolysis of hazelnut cupulae**  
BİLGİN S., KELEŞ S., KAYGUSUZ K.  
ENERGY, vol.41, no.1, pp.380-385, 2012 (SCI-Expanded)
- X. **Regional sustainable water and energy development projects: A case of Southeastern Anatolia Project (GAP) in Turkey (Retracted article. See vol. 83, pg. 173, 2018)**  
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- XI. **Energy for sustainable development: A case of developing countries**  
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- XIV. **Energy services and energy poverty for sustainable rural development**  
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- XVI. **Sustainable Agriculture and the Production of Biomass for Energy Use**  
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- XLIV. **Capric acid and stearic acid mixture impregnated with gypsum wallboard for low-temperature latent heat thermal energy storage**  
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- XLVI. **Thermal energy storage behavior of CaCl(2)center dot 6H(2)O during melting and solidification**  
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- XLVIII. **Second law (exergy) analysis of cogeneration system**  
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- L. **Thermodynamic aspects of energy systems and sustainable development**  
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- LI. **The Future of Nuclear Power and Renewable Energy Sources in the European Union**  
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- LXIII. **Renewable energy sources in the European Union: Markets and capacity**  
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- LXV. **Studies on poly(vinyl chloride)/fatty acid blends as shape-stabilized phase change material for latent heat thermal energy storage**  
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