

Doç. Dr. Nader JAVANI

Kişisel Bilgiler

E-posta: njavani@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/njavani>

Posta Adresi: A-630, Mechanical Engineering Department, Yildiz Technical University, Besiktas, Istanbul

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-9788-7888

Yoksis Araştırmacı ID: 218071

Eğitim Bilgileri

Doktora, Ontario Canada Üniversitesi, Engineering And Applied Science, Kanada 2010 - 2013

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Investigation of Energy Storage Options for Thermal Management in Hybrid Electric Vehicles, Ontario Canada Üniversitesi, Makine Muhendisligi, Energy And Thermofluids Engineering, 2013

Akademik Unvanlar / Görevler

Doç. Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2021 - Devam Ediyor

Dr. Öğr. Üyesi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2014 - 2021

Verdiği Dersler

Renewable Energy Systems, Lisans, 2021 - 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Transient analysis of a near-zero energy building with green hydrogen production integrated with energy storage systems**
Haddad M., JAVANI N.
Journal of Building Engineering, cilt.96, 2024 (SCI-Expanded)
- Thermodynamic analysis of waste heat in a combined super-critical CO2 Brayton cycle for power and hydrogen production**
Fathi Satar M., Jafarmadar S., JAVANI N.
Sustainable Energy Technologies and Assessments, cilt.69, 2024 (SCI-Expanded)

- III. **Thermo-economic analysis of an innovative multi-generation system based on ammonia synthesis**
Farhang B., Ghaebi H., Naseri Gollo S., JAVANI N.
Renewable Energy, cilt.227, 2024 (SCI-Expanded)
- IV. **Guest Editorial for the special issue on "Fuel Cells" in IJHE**
Javani N., Alkan Gürsel S.
International Journal of Hydrogen Energy, cilt.67, ss.786, 2024 (SCI-Expanded)
- V. **Thermodynamic analysis and examining the effects of parameters in BSR-HDH system using response surface methodology**
Soleymani E., Ghaebi H., Heydari A., JAVANI N.
Renewable Energy, cilt.226, 2024 (SCI-Expanded)
- VI. **Thermodynamic analysis of a novel biomass-driven trigeneration system using different biomass resources**
Parsa S., Jafarmadar S., Neshat E., JAVANI N.
BIOMASS CONVERSION AND BIOREFINERY, cilt.14, sa.5, ss.6591-6607, 2024 (SCI-Expanded)
- VII. **Effect of burner head geometry on flame dispersion in gas stoves with hydrogen and natural gas blends**
SORGULU F., ÖZTÜRK M., Javani N., DİNCER İ.
Process Safety and Environmental Protection, cilt.183, ss.1135-1151, 2024 (SCI-Expanded)
- VIII. **Experimental investigation of various burner heads in residential gas stoves tested with hydrogen and natural gas blends**
ÖZTÜRK M., SORGULU F., JAVANI N., DİNCER İ.
International Journal of Hydrogen Energy, cilt.53, ss.1344-1349, 2024 (SCI-Expanded)
- IX. **Exergy-economic analysis of a solar-geothermal combined cooling, heating, power and water generation system for a zero-energy building**
Baniasadi E., Ziaei-Rad M., Behvand M. A., JAVANI N.
International Journal of Hydrogen Energy, cilt.48, sa.99, ss.39064-39083, 2023 (SCI-Expanded)
- X. **Experimental investigation for combustion performance of hydrogen and natural gas fuel blends**
SORGULU F., ÖZTÜRK M., JAVANI N., DİNCER İ.
International Journal of Hydrogen Energy, cilt.48, sa.88, ss.34476-34485, 2023 (SCI-Expanded)
- XI. **Techno-economic modeling of a novel poly-generation system based on biogas for power, hydrogen, freshwater, and ammonia production**
Farhang B., Ghaebi H., JAVANI N.
Journal of Cleaner Production, cilt.417, 2023 (SCI-Expanded)
- XII. **Thermal analysis of thermo-electric generator systems in hybrid electric vehicles under different operating conditions**
Khoshnevisan A., Changizian S., Raeesi M., Ahmadi P., JAVANI N.
Journal of Thermal Analysis and Calorimetry, cilt.148, sa.18, ss.9649-9659, 2023 (SCI-Expanded)
- XIII. **A comprehensive assessment of energy storage options for green hydrogen**
Kubilay Karayel G., JAVANI N., DİNCER İ.
Energy Conversion and Management, cilt.291, 2023 (SCI-Expanded)
- XIV. **Hydropower energy for green hydrogen production in Turkey**
Karayel G. K., JAVANI N., DİNCER İ.
International Journal of Hydrogen Energy, cilt.48, sa.60, ss.22806-22817, 2023 (SCI-Expanded)
- XV. **Utilization of biomass and waste resources for renewable hydrogen production: A comprehensive study**
Karayel G. K., JAVANI N., DİNCER İ.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, cilt.45, sa.3, ss.8553-8567, 2023 (SCI-Expanded)
- XVI. **Green hydrogen production potential in Turkey with wind power**
Karayel G. K., JAVANI N., DİNCER İ.
INTERNATIONAL JOURNAL OF GREEN ENERGY, cilt.20, sa.2, ss.129-138, 2023 (SCI-Expanded)

- XVII. **Sustainable city concept based on green hydrogen energy**
Dincer I., JAVANI N., Karayel K.
SUSTAINABLE CITIES AND SOCIETY, cilt.87, 2022 (SCI-Expanded)
- XVIII. **Guest editorial for special issue on "Progress in Energy Systems"**
JAVANI N., KAYGUSUZ K.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.46, sa.14, ss.20718, 2022 (SCI-Expanded)
- XIX. **Dynamic simulation and optimization of a novel energy system with Hydrogen energy storage for hotel buildings**
Farrokhi M., JAVANI N., Motallebzadeh R., Ebrahimpour A.
ENERGY, cilt.257, 2022 (SCI-Expanded)
- XX. **Dynamic 4E (energy, exergy, economic and environmental) analysis and tri-criteria optimization of a building-integrated plant with latent heat thermal energy storage**
Gholamian E., Zare V., JAVANI N., Ranjbar F.
ENERGY CONVERSION AND MANAGEMENT, cilt.267, 2022 (SCI-Expanded)
- XXI. **Transient simulation and techno-economic assessment of a near-zero energy building using a hydrogen storage system and different backup fuels**
Izadi A., Shahafve M., Ahmadi P., JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.74, ss.31927-31940, 2022 (SCI-Expanded)
- XXII. **An experimental study on polymer cathode materials in lead-acid battery energy storage systems**
Jahani D., Nazari A., Panah M. Y., JAVANI N., Moharaminezhad F.
KOREAN JOURNAL OF CHEMICAL ENGINEERING, cilt.39, sa.8, ss.2099-2108, 2022 (SCI-Expanded)
- XXIII. **Editorial for the special issue progress in hydrogen production, storage and distribution**
Ahmadi P., Javani N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.62, ss.25879, 2022 (SCI-Expanded)
- XXIV. **Performance assessment of a direct steam solar power plant with hydrogen energy storage: An exergoeconomic study**
Nafchi F. M., Baniasadi E., Afshari E., JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.62, ss.26023-26037, 2022 (SCI-Expanded)
- XXV. **Effective use of geothermal energy for hydrogen production: A comprehensive application**
Karayel G. K., JAVANI N., DINCER İ.
ENERGY, cilt.249, 2022 (SCI-Expanded)
- XXVI. **Thermodynamic analysis of a parabolic trough solar power plant integrated with a biomass-based hydrogen production system**
Burulday M. E., Mert M. S., JAVANI N.
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- XXVII. **Green hydrogen production potential for Turkey with solar energy**
Karayel K., JAVANI N., DINCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.45, ss.19354-19364, 2022 (SCI-Expanded)
- XXVIII. **Analysis and optimization of a fuel cell integrated with series two-stage organic Rankine cycle with zeotropic mixtures**
Azad A., Fakhari I., Ahmadi P., JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.5, ss.3449-3472, 2022 (SCI-Expanded)
- XXIX. **Hydrogen farm concept: A Perspective for Turkey**
DINCER İ., JAVANI N., Karayel G. K.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.45, sa.13, ss.18309-18317, 2021 (SCI-Expanded)
- XXX. **Dynamic simulation of an integrated energy system for buildings in cold climates with thermal energy storage**
Farrokhi M., Motallebzadeh R., JAVANI N., Ebrahimpour A.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, cilt.47, 2021 (SCI-Expanded)
- XXXI. **An innovative solar-powered natural gas-based compressed air energy storage system integrated with a liquefied air power cycle**

- Sadeghi S., Ghandehariun S., Rezaie B., JAVANI N.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.45, ss.16294-16309, 2021 (SCI-Expanded)
- XXXII. **Exergy analysis of a plate heat exchanger with a new geometric design**
Shamsdanesh R., Jafarmadar S., JAVANI N.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, cilt.145, sa.3, ss.1203-1213, 2021 (SCI-Expanded)
- XXXIII. **Editorial - WESCE-2019**
JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.46, sa.30, ss.16249, 2021 (SCI-Expanded)
- XXXIV. **Energy and exergy analyses of an ignition engine with improved management system codes**
Fekari A., JAVANI N.
INTERNATIONAL JOURNAL OF EXERGY, cilt.34, sa.2, ss.196-207, 2021 (SCI-Expanded)
- XXXV. **Development of a new integrated energy system with compressed air and heat storage options**
Karapekmez A., DİNCER İ., JAVANI N.
JOURNAL OF ENERGY STORAGE, cilt.32, 2020 (SCI-Expanded)
- XXXVI. **Thermodynamic modeling of a solar energy based combined cycle with rock bed heat storage system**
ÖZTÜRK M., DİNCER İ., JAVANI N.
Solar Energy, cilt.200, ss.51-60, 2020 (SCI-Expanded)
- XXXVII. **Design and analysis of a combined floating photovoltaic system for electricity and hydrogen production**
Temiz M., JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.5, ss.3457-3469, 2020 (SCI-Expanded)
- XXXVIII. **Application of a ground source heat pump system with PCM-embedded radiant wall heating for buildings**
Oruc O., DİNCER İ., JAVANI N.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.43, sa.12, ss.6542-6550, 2019 (SCI-Expanded)
- XXXIX. **A parametric study of polymer membrane electrolyser performance, energy and exergy analyses**
Nafchi F. M., Afshari E., Baniasadi E., JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, sa.34, ss.18662-18670, 2019 (SCI-Expanded)
- XL. **Investigation and optimization of solar volumetric absorption systems using nanoparticles**
Bonab H. B., Javani N.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.194, ss.229-234, 2019 (SCI-Expanded)
- XLI. **Exergoeconomic optimisation of an air cooled heat exchanger with copper oxide nanoparticles**
JAVANI N.
INTERNATIONAL JOURNAL OF EXERGY, cilt.30, sa.3, ss.259-274, 2019 (SCI-Expanded)
- XLII. **Performance assessment of a solar hydrogen and electricity production plant using high temperature PEM electrolyzer and energy storage**
Nafchi F. M., BANIASADI E., AFSHARI E., JAVANI N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.11, ss.5820-5831, 2018 (SCI-Expanded)
- XLIII. **Hydrogen production via supercritical water gasification of almond shell over algal and agricultural hydrochars as catalysts**
Safari F., JAVANI N., YUMURTACI Z.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.2, ss.1071-1080, 2018 (SCI-Expanded)
- XLIV. **Special issue section on "The 2nd International Conference on Energy Systems (ICES-2016), 21-23 December 2016, Istanbul, Turkey"**
JAVANI N., YUMURTACI Z.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.2, ss.1037, 2018 (SCI-Expanded)
- XLV. **Squeeze film characteristics of Ferro-coupled stress inertial fluids in conical plates**
Daliri M., Javani N.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, cilt.70, sa.5, ss.872-877, 2018 (SCI-Expanded)
- XLVI. **Exergoeconomic analysis and multi objective optimization of a solar based integrated energy system for hydrogen production**

- Khanmohammadi S., Heidarnejad P., JAVANI N., GANJEHSARABI H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.42, sa.33, ss.21443-21453, 2017 (SCI-Expanded)
- XLVII. **Thermal characteristics of n-octadecane and carbon nanotubes mixture**
Shuja S. Z., Yilbas B. S., Javani N., Ahmed S.
APPLIED THERMAL ENGINEERING, cilt.98, ss.646-655, 2016 (SCI-Expanded)
- XLVIII. **Numerical Modeling of Submodule Heat Transfer With Phase Change Material for Thermal Management of Electric Vehicle Battery Packs**
Javani N., Dincer I., Naterer G. F.
JOURNAL OF THERMAL SCIENCE AND ENGINEERING APPLICATIONS, cilt.7, sa.3, 2015 (SCI-Expanded)
- XLIX. **New latent heat storage system with nanoparticles for thermal management of electric vehicles**
Javani N., Dincer I., Naterer G. F.
JOURNAL OF POWER SOURCES, cilt.268, ss.718-727, 2014 (SCI-Expanded)
- L. **Modeling of passive thermal management for electric vehicle battery packs with PCM between cells**
Javani N., Dincer I., Naterer G. F., Rohrauer G. L.
APPLIED THERMAL ENGINEERING, cilt.73, sa.1, ss.307-316, 2014 (SCI-Expanded)
- LI. **Heat transfer and thermal management with PCMs in a Li-ion battery cell for electric vehicles**
Javani N., Dincer I., Naterer G. F., Yilbas B. S.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.72, ss.690-703, 2014 (SCI-Expanded)
- LII. **Exergy analysis and optimization of a thermal management system with phase change material for hybrid electric vehicles**
Javani N., Dincer I., Naterer G. F., Yilbas B. S.
APPLIED THERMAL ENGINEERING, cilt.64, ss.471-482, 2014 (SCI-Expanded)
- LIII. **Exergy analysis of natural gas/DME combustion in homogeneous charge compression ignition engines (HCCI) using zero-dimensional model with detailed chemical kinetics mechanism**
Jafarmadar S., Javani N.
INTERNATIONAL JOURNAL OF EXERGY, cilt.15, sa.3, ss.363-381, 2014 (SCI-Expanded)
- LIV. **Thermodynamic analysis of waste heat recovery for cooling systems in hybrid and electric vehicles**
Javani N., Dincer I., Naterer G. F.
ENERGY, cilt.46, sa.1, ss.109-116, 2012 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Design and optimization of a novel wind-powered liquefied air energy storage system integrated with a supercritical carbon dioxide cycle**
Sadeghi S., JAVANI N., Ghandehariun S., Ahmadi P.
ENERGY STORAGE, cilt.3, sa.6, 2021 (ESCI)
- II. **Experimental Study of Management Systems for Emission Reduction in Ignition Engines**
Fekari A., Javani N., Jafarmadar S.
INTERNATIONAL JOURNAL OF ENGINEERING, cilt.33, sa.7, ss.1347-1353, 2020 (ESCI)
- III. **The Performance of Squeeze Film between Parallel Triangular Plates with a Ferro-Fluid Couple Stress Lubricant**
Toloian A., Daliri M., JAVANI N.
ADVANCES IN TRIBOLOGY, cilt.2020, 2020 (ESCI)
- IV. **Wind Turbine Blade Flapwise and Edgewise Bending Vibration Analyses Using Energy Methods**
Çelik A., Javani N.
JOURNAL OF THERMAL ENGINEERING, cilt.2, sa.6, ss.983-989, 2016 (ESCI)

Kitap & Kitap Bölümleri

I. Thermal Management of Electric Vehicle Battery Systems

DİNCER İ., Hamut H. S., JAVANI N.

John Wiley Sons Ltd, 2019

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Assessment of Trigeneration Energy Systems with Storage Options**
SORGULU F., DİNCER İ., JAVANI N., ÖZTÜRK M.
The 2nd World Energy Storage Conference (WESC-2022), İstanbul, Türkiye, 18 - 21 Aralık 2022
- II. **Solar-Driven Hydrogen Production and Injection in Lake Tuz Natural Gas Storage Caverns**
Temiz M., JAVANI N.
4th International Hydrogen Technologies Congress, 20 - 23 Haziran 2019
- III. **Energy and exergy analyses of a PCM embedded radiant wall heating system**
oruç O., DİNCER İ., JAVANI N.
10th International Exergy, Energy and Environment Symposium (IEEEES-10), 1 - 04 Temmuz 2018
- IV. **Thermodynamic Modeling of a Solar Based Combined Cycle with Rock Bed Heat Storage System**
ÖZTÜRK M., DİNCER İ., JAVANI N.
14. International Conference on Energy Storage, 25 - 28 Nisan 2018
- V. **Thermodynamic Study of an Integrated System with Compressed Air and Heat Storage Units**
KARAPEKMEZ A., DİNCER İ., JAVANI N.
14. International Conference on Energy Storage, 25 - 28 Nisan 2018
- VI. **Finite Time Thermodynamic Analysis of a Solar Hydrogen and Electricity Production Plant Using High Temperature PEM Electrolyzer**
Moradi Nafchi F., Baniasadi E., JAVANI N.
9th International Exergy, Energy and Environment Symposium, 14 - 17 Mayıs 2017
- VII. **THERMODYNAMIC ANALYSIS OF MAGNETIC COOLING SYSTEMS IN HYBRID ELECTRIC VEHICLE**
Ganjehsarabi H., JAVANI N.
Second International Conference on Energy Systems, 21 - 23 Aralık 2016
- VIII. **Numerical and Analytical Study of Natural Frequencies in a Wind Turbine Blade Using Finite Element and Energy Methods**
ÇELİK A., JAVANI N., KESKİN U.
01 Haziran 2016, ss.865-871
- IX. **Multi Objective Optimization Underfloor Heating System Based on Particle Swarm Algorithm**
JAVANI N., Hajabdollahi H., YUMURTACI Z.
International Conference on Energy Systems, İstanbul, Türkiye, 23 Aralık 2015, ss.150-155
- X. **MULTI OBJECTIVE OPTIMIZATION OF UNDERFLOOR HEATING SYSTEM BASED ON PARTICLE SWARM ALGORITHM**
JAVANI N., hajabdollahi H., YUMURTACI Z.
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS, 23 - 25 Aralık 2015
- XI. **Natural Frequencies Analyses of a NACA-4415 Wind Turbine Blade Using Energy Methods**
Çelik A., JAVANI N.
International conference on energy systems İstanbul 2015 - ICES2015 , İstanbul, Türkiye, 23 - 25 Aralık 2015, ss.88-96

Desteklenen Projeler

Dincer İ., Javani N., Sorgulu F., Öztürk M., Enerji ve Tabii Kaynaklar Bakanlığı, Yenilenebilir Gaz Üretimi, 2020 - 2022
Yumurtacı Z., Çetin B., Akkaya A. V., Pusat Ş., Javani N., Teknopark, DEMİR-ÇELİK ENDÜSTRİSİ ATIĞI CÜRUFUN ISIL GERİ KAZANIM POTANSİYELİNİN BELİRLENEREK ELEKTRİK ÜRETİMİNDE KULLANILMASININ ANALİZİ, 2019 - 2019

Metrikler

Yayın: 72

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H-İndeks (Scopus): 14