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Education Information

Doctorate, Istanbul Technical University, Makina Mühendisliği, Turkey 1991 - 1993

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 1989 - 1991

Undergraduate, Selcuk University, Makine Mühendisliği, Turkey 1983 - 1987

Dissertations

Doctorate, Çeşitli gıdaların soğutulmasında etkin işlem parametrelerinin belirlenmesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, 1993

Postgraduate, Küresel şekilli gıdalarda zorlanmış hava ön soğutması ile ısı ve kütle transferinin deneysel ve teorik olarak çalışılması, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 1991

Research Areas

Mechanical Engineering, Energy, Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2016 - Continues

Advising Theses

DİNCER İ., Analysis and Assessment of Hydrogen Production from Hydrogen Sulfide in Geothermal Power Plants, Postgraduate, A.Karapekmez(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

1. A newly developed renewable energy driven multigeneration system with hot silica sand storage for power, hydrogen, freshwater and cooling production
Yapicioglu A., DİNCER İ.

Sustainable Energy Technologies and Assessments, vol.55, 2023 (SCI-Expanded)

- II. **Development and performance assessment of a calcium-iron bromide cycle-based hydrogen production integrated system**
SORGULU F., DİNCER İ.
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- III. **Green hydrogen production potential in Turkey with wind power**
Karayel G. K., JAVANI N., DİNCER İ.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.20, no.2, pp.129-138, 2023 (SCI-Expanded)
- IV. **Development and assessment of a novel hydrogen storage unit combined with compressed air energy storage**
Erdemir D., Dincer I.
APPLIED THERMAL ENGINEERING, vol.219, 2023 (SCI-Expanded)
- V. **A life cycle impact analysis of various hydrogen production methods for public transportation sector**
AYDIN M. İ., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.93, pp.39666-39677, 2022 (SCI-Expanded)
- VI. **System development and assessment for green hydrogen generation and blending with natural gas**
Ozturk M., Dincer İ.
ENERGY, vol.261, pp.125233, 2022 (SCI-Expanded)
- VII. **Sustainable city concept based on green hydrogen energy**
Dincer I., JAVANI N., Karayel K.
SUSTAINABLE CITIES AND SOCIETY, vol.87, 2022 (SCI-Expanded)
- VIII. **Development of solar and wind based hydrogen energy systems for sustainable communities**
Temiz M., Dincer I.
ENERGY CONVERSION AND MANAGEMENT, vol.269, 2022 (SCI-Expanded)
- IX. **A photoelectrochemical reactor for ion separation and hydrogen production**
AYDIN M. İ., SELÇUK H., Dincer I.
ENERGY, vol.256, 2022 (SCI-Expanded)
- X. **An integrated solar energy, wastewater treatment and desalination plant for hydrogen and freshwater production**
Demir M. E., Dincer I.
ENERGY CONVERSION AND MANAGEMENT, vol.267, 2022 (SCI-Expanded)
- XI. **Exergy analysis of Cobalt-Chlorine thermochemical hydrogen production cycle: A kinetic approach**
Oruc O., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.73, pp.31165-31173, 2022 (SCI-Expanded)
- XII. **A new solar energy-based system integrated with hydrogen storage and heat recovery for sustainable community**
Erdemir D., Dincer I.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.52, 2022 (SCI-Expanded)
- XIII. **Utilization of waste heat from cement plant to generate hydrogen and blend it with natural gas**
ÖZTÜRK M., DİNCER İ.
International Journal of Hydrogen Energy, vol.47, pp.20695-20704, 2022 (SCI-Expanded)
- XIV. **Effective use of geothermal energy for hydrogen production: A comprehensive application**
Karayel G. K., JAVANI N., DİNCER İ.
ENERGY, vol.249, 2022 (SCI-Expanded)
- XV. **Thermoeconomic and impact assessments of trigeneration systems with various fuels**
Sorgulu F., Dincer İ.
FUEL, vol.317, 2022 (SCI-Expanded)
- XVI. **Development and assessment of renewable hydrogen production and natural gas blending systems for use in different locations**
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- ENERGY SCIENCE & ENGINEERING, vol.10, no.5, pp.1739-1751, 2022 (SCI-Expanded)
- XVII. **Green hydrogen production potential for Turkey with solar energy**
Karayel K., JAVANI N., DİNCER İ.
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- XVIII. **Design and analysis of a new solar hydrogen plant for power, methane, ammonia and urea generation**
YÜKSEL Y. E., Ozturk M., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.45, pp.19422-19445, 2022 (SCI-Expanded)
- XIX. **Analysis and techno-economic assessment of renewable hydrogen production and blending into natural gas for better sustainability**
SORGULU F., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.46, pp.19977-19988, 2022 (SCI-Expanded)
- XX. **An assessment study on various clean hydrogen production methods**
Aydin M. I., Dincer I.
ENERGY, vol.245, 2022 (SCI-Expanded)
- XXI. **A review on converting plastic wastes into clean hydrogen via gasification for better sustainability**
MİDİLLİ A., KÜÇÜK H., HACIOSMANOĞLU M., AKBULUT U., DİNCER İ.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.4, pp.4001-4032, 2022 (SCI-Expanded)
- XXII. **Development of a new solar, gasification and fuel cell based integrated plant**
Karapekmez A., Dincer I.
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- XXIII. **Development and assessment of a hydrogen car operated by a vertical axis wind turbine**
Oruc O., DİNCER İ.
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- XXIV. **Hydropower energy for green hydrogen production in Turkey**
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.13, pp.18309-18317, 2021 (SCI-Expanded)
- XXVI. **Development and assessment of a solar driven trigeneration system with storage for electricity, ammonia and fresh water production**
Demir M. E., Dincer I.
ENERGY CONVERSION AND MANAGEMENT, vol.245, 2021 (SCI-Expanded)
- XXVII. **A comprehensive review on power-to-gas with hydrogen options for cleaner applications**
ÖZTÜRK M., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.62, pp.31511-31522, 2021 (SCI-Expanded)
- XXVIII. **Investigation of Hydrogen and Methane Production from Flue Gas Released from the Steel Industry**
ÖZTÜRK M., Dincer İ.
ENERGY & FUELS, vol.35, no.15, pp.12718-12724, 2021 (SCI-Expanded)
- XXIX. **Development of a novel combined energy plant for multigeneration with hydrogen and ammonia production**
YÜKSEL Y. E., Ozturk M., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.57, pp.28980-28994, 2021 (SCI-Expanded)
- XXX. **Performance Assessment Study on the Na-O-H Thermochemical Water Splitting Cycle for Hydrogen Generation**
Oruc O., DİNCER İ.
CHEMICAL ENGINEERING & TECHNOLOGY, vol.44, no.8, pp.1512-1518, 2021 (SCI-Expanded)
- XXXI. **A comprehensive review on hydrogen production from coal gasification: Challenges and Opportunities**
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- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.50, pp.25385-25412, 2021 (SCI-Expanded)
- XXXII. **A new geothermally driven combined plant with energy storage option for six useful outputs in a sustainable community**
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SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.45, 2021 (SCI-Expanded)
- XXXIII. **Analysis and assessment of a new solar assisted sodium hydroxide thermochemical hydrogen production cycle**
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- XXXV. **Evaluation of a new geothermal based multigenerational plant with primary outputs of hydrogen and ammonia**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.30, pp.16344-16359, 2021 (SCI-Expanded)
- XXXVI. **A new experimentally developed integrated organic Rankine cycle plant**
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- XXXVII. **Effective use of hydrogen sulfide and natural gas resources available in the Black Sea for hydrogen economy**
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AYDIN M. İ., Karaca A. E., Qureshy A. M. M. I., Dincer I.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.279, 2021 (SCI-Expanded)
- XXXIX. **An integrated system for clean hydrogen production from municipal solid wastes**
ÖZTÜRK M., DINCER İ.
International Journal of Hydrogen Energy, vol.46, pp.6251-6261, 2021 (SCI-Expanded)
- XL. **Assessing the potential of thermo-chemical water splitting cycles: A bridge towards clean and sustainable hydrogen generation**
Oruc O., DINCER İ.
FUEL, vol.286, 2021 (SCI-Expanded)
- XLI. **Development and assessment of a biomass-based cogeneration system with desalination**
SORGULU F., DINCER İ.
APPLIED THERMAL ENGINEERING, vol.185, 2021 (SCI-Expanded)
- XLII. **Development of a hythane based cogeneration system integrated with gasification and landfill subsystems**
SORGULU F., DINCER İ.
Energy, vol.215, 2021 (SCI-Expanded)
- XLIII. **Development and performance assessment power generating systems using clean hydrogen**
Oruc O., DINCER İ.
ENERGY, vol.215, 2021 (SCI-Expanded)
- XLIV. **Development of a combined flash and binary geothermal system integrated with hydrogen production for blending into natural gas in daily applications**
ÖZTÜRK M., DINCER İ.
Energy Conversion and Management, vol.227, 2021 (SCI-Expanded)
- XLV. **Investigation of a new integrated system for multiple outputs with hydrogen and methanol**
ACAR C., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.6, pp.4699-4715, 2021 (SCI-Expanded)
- XLVI. **An integrated system for ammonia production from renewable hydrogen: A case study**

- ÖZTÜRK M., DİNCER İ.
International Journal of Hydrogen Energy, vol.46, pp.5918-5925, 2021 (SCI-Expanded)
- XLVII. **Performance investigation of a combined biomass gasifier-SOFC plant for compressed hydrogen production**
Yuksel Y. E., Ozturk M., Dincer İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.34679-34694, 2020 (SCI-Expanded)
- XLVIII. **Development of a new integrated energy system with compressed air and heat storage options**
Karapekmez A., DİNCER İ., JAVANI N.
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- XLIX. **Evaluation of hydrogen production with iron-based chemical looping fed by different biomass**
Oruc O., DİNCER İ.
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- L. **A Comparative Life-Cycle Assessment of Two Cogeneration Plants**
Siddiqui O., DİNCER İ.
ENERGY TECHNOLOGY, vol.8, no.11, 2020 (SCI-Expanded)
- LI. **Development of renewable energy system integrated with hydrogen and natural gas subsystems for cleaner combustion**
ÖZTÜRK M., DİNCER İ.
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- LII. **Life cycle assessment of hydrogen-based electricity generation in place of conventional fuels for residential buildings**
ÖZTÜRK M., DİNCER İ.
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- LIII. **A comprehensive study on using new hydrogen-natural gas and ammonia-natural gas blends for better performance**
Ishaq H., Dincer I.
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- LIV. **An efficient waste management system with municipal solid waste incineration plant**
ÖZTÜRK M., Dincer İ.
GREENHOUSE GASES-SCIENCE AND TECHNOLOGY, vol.10, no.4, pp.855-864, 2020 (SCI-Expanded)
- LV. **Performance investigation of adding clean hydrogen to natural gas for better sustainability**
Ishaq H., Dincer I.
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, vol.78, 2020 (SCI-Expanded)
- LVI. **Thermodynamic modeling of a solar energy based combined cycle with rock bed heat storage system**
ÖZTÜRK M., DİNCER İ., JAVANI N.
Solar Energy, vol.200, pp.51-60, 2020 (SCI-Expanded)
- LVII. **Exergoeconomic analysis of a solar assisted tea drying system**
ÖZTÜRK M., DİNCER İ.
Drying Technology, vol.38, pp.655-662, 2020 (SCI-Expanded)
- LVIII. **A novel renewable energy-based integrated system with thermoelectric generators for a net-zero energy house**
Islam S., Dincer I., Yilbas B. S.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.5, pp.3458-3477, 2020 (SCI-Expanded)
- LIX. **Exergoeconomic analysis and optimization of a new hybrid fuel cell vehicle**
Ezzat M., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.9, pp.5734-5744, 2020 (SCI-Expanded)
- LX. **Thermodynamic analysis of a novel solar and geothermal based combined energy system for hydrogen production**
Karapekmez A., DİNCER İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.9, pp.5608-5628, 2020 (SCI-Expanded)
- LXI. **A comparative evaluation of OTEC, solar and wind energy based systems for clean hydrogen**

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Ishaq H., DINCER İ.

JOURNAL OF CLEANER PRODUCTION, vol.246, 2020 (SCI-Expanded)

- LXII. **A perspective on hydrogen energy research, development and innovation activities in Turkey**
Arat H. T., Baltacioglu M. K., Tanc B., Surer M. G., Dincer İ.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.2, pp.588-593, 2020 (SCI-Expanded)
- LXIII. **The potential role of hydrogen as a sustainable transportation fuel to combat global warming**
ACAR C., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3396-3406, 2020 (SCI-Expanded)
- LXIV. **Comparative efficiency and environmental impact assessments of a solar-assisted combined cycle with various fuels**
Karapekmez A., DINCER İ.
APPLIED THERMAL ENGINEERING, vol.164, 2020 (SCI-Expanded)
- LXV. **Evaluation of hydrogen production via electrolysis with ion exchange membranes**
Yuzer B., Selcuk H., Chehade G., Demir M. E., Dincer I.
ENERGY, vol.190, 2020 (SCI-Expanded)
- LXVI. **Development and evaluation of a new hybrid ammonia fuel cell system with solar energy**
Siddiqui O., Dincer İ.
ENERGY, vol.189, 2019 (SCI-Expanded)
- LXVII. **Design and analysis of a new system for photoelectrochemical hydrogen production from wastewater**
Demir M. E., Chehade G., Dincer İ., Yuzer B., Selcuk H.
ENERGY CONVERSION AND MANAGEMENT, vol.199, 2019 (SCI-Expanded)
- LXVIII. **Application of a ground source heat pump system with PCM-embedded radiant wall heating for buildings**
Oruc O., DINCER İ., JAVANI N.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.12, pp.6542-6550, 2019 (SCI-Expanded)
- LXIX. **Transition to a new era with light-based hydrogen production for a carbon-free society: An overview**
Acar C., Bicer Y., Demir M. E., Dincer İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.47, pp.25347-25364, 2019 (SCI-Expanded)
- LXX. **Development of an integrated wind and PV system for ammonia and power production for a sustainable community**
Hasan A., Dincer İ.
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- LXXI. **Synergistic effects of advanced oxidization reactions in a combination of TiO₂ photocatalysis for hydrogen production and wastewater treatment applications**
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- LXXII. **Enhanced CANDU reactor with heat upgrade for combined power and hydrogen production**
El-Emam R. S., Dincer İ., Zamfirescu C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.42, pp.23580-23588, 2019 (SCI-Expanded)
- LXXIII. **Multi-objective optimization and analysis of a solar energy driven steam and autothermal combined reforming system with natural gas**
Ishaq H., Dincer İ.
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- LXXIV. **Analysis and assessment of using an integrated solar energy based system in crude oil refinery**
Altayib K., Dincer I.
APPLIED THERMAL ENGINEERING, vol.159, 2019 (SCI-Expanded)
- LXXV. **Investigation of a unique integrated photoelectrochemical system for multigeneration purposes**
Acar C., Dincer İ.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.34, pp.18756-18766, 2019 (SCI-Expanded)
- LXXVI. **Energetic and exergetic assessments of a novel solar power tower based multigeneration system with hydrogen production and liquefaction**
Yuksel Y. E., Ozturk M., Dincer İ.
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- LXXVII. **Review and evaluation of hydrogen production options for better environment**
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- LXXVIII. **Comparative environmental impact assessment of various fuels and solar heat for a combined cycle**
ÖZTÜRK M., DİNCER İ.
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- LXXIX. **Environmental impact assessment of using various fuels in a thermal power plant**
Oruc O., DİNCER İ.
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- LXXX. **Energy and exergy analyses of a HCCI engine-based system running on hydrogen enriched wet-ethanol fuel**
KHALIQ A., ISLAM S., Dincer I.
INTERNATIONAL JOURNAL OF EXERGY, vol.28, no.1, pp.72-95, 2019 (SCI-Expanded)
- LXXXI. **Exergy analysis of tea drying in a continuous vibro-fluidised bed dryer**
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INTERNATIONAL JOURNAL OF EXERGY, vol.30, no.4, pp.376-391, 2019 (SCI-Expanded)
- LXXXII. **A Comparative Study of Syngas Production From Two Types of Biomass Feedstocks With Waste Heat Recovery**
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- LXXXIII. **Development and analysis of a new integrated solar energy system with thermal storage for fresh water and power production**
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- LXXXIV. **Modelling of hydrogen production from hydrogen sulfide in geothermal power plants**
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- LXXXV. **Cost evaluation of two potential nuclear power plants for hydrogen production**
Sorgulu F., Dincer İ.
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- LXXXVI. **Energetic and exergetic investigations of an innovative light-based hydrogen production reactor**
Acar C., Dincer I.
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- LXXXVII. **Cost assessment and evaluation of various hydrogen delivery scenarios**
Demir M. E., Dincer I.
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- LXXXVIII. **Smart energy solutions with hydrogen options**
Dincer I., Acar C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.18, pp.8579-8599, 2018 (SCI-Expanded)
- LXXXIX. **Life cycle environmental impact assessments and comparisons of alternative fuels for clean vehicles**
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RESOURCES CONSERVATION AND RECYCLING, vol.132, pp.141-157, 2018 (SCI-Expanded)
- XC. **Analysis and performance assessment of NH₃ and H₂ fed SOFC with proton-conducting electrolyte**
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- XCI. A renewable source based hydrogen energy system for residential applications**
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- XCII. Experimental investigation of an improved version of the four-step magnesium-chlorine cycle**
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- XCIII. Development of a New Heliostat Field-Based Integrated Solar Energy System for Cogeneration**
RABBANI M., RATLAMWALA T. A. H., Dincer I.
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- XCIV. Thermodynamic analysis and assessment of a novel integrated geothermal energy-based system for hydrogen production and storage**
Yuksel Y. E., Ozturk M., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.9, pp.4233-4243, 2018 (SCI-Expanded)
- XCv. Comparative assessments of two integrated systems with/without fuel cells utilizing liquefied ammonia as a fuel for vehicular applications**
EZZAT M. F., Dincer I.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.9, pp.4597-4608, 2018 (SCI-Expanded)
- XCVI. Thermodynamic analysis and experimental investigation of a unique photoelectrochemical hydrogen production system**
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- XCvII. Environmental impact categories of hydrogen and ammonia driven transoceanic maritime vehicles: A comparative evaluation**
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- XCvIII. Development of a novel solar-based integrated system for desalination with heat recovery**
ISLAM S., Dincer I., YILBAS B. S.
APPLIED THERMAL ENGINEERING, vol.129, pp.1618-1633, 2018 (SCI-Expanded)
- XCIX. Development, analysis and assessment of solar energy-based multigeneration system with thermoelectric generator**
ISLAM S., Dincer I., YILBAS B. S.
ENERGY CONVERSION AND MANAGEMENT, vol.156, pp.746-756, 2018 (SCI-Expanded)
- C. Thermodynamic analyses of a solar-based combined cycle integrated with electrolyzer for hydrogen production**
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- CI. Clean fuel options with hydrogen for sea transportation: A life cycle approach**
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- CII. Energetic and exergetic performance evaluations of a geothermal power plant based integrated system for hydrogen production**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.1, pp.78-90, 2018 (SCI-Expanded)
- CIII. Life cycle assessment of ammonia utilization in city transportation and power generation**
BİÇER Y., Dincer I.
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