Journal of Thermal Science

Author information pack

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Description

Founded in 1992, Journal of Thermal Science is an international, multi-disciplinary journal of energy and power sciences. The journal is co-published by the Institute of Engineering Thermopyhsics, Chinese Academy of Sciences, Springer-Verlag and Science Press, and indexed by SCI and EI. The journal aims to set up an international platform for latest scientific and technological achievements and knowledge exchange, and to promote discipline development.

Review papers and scholarly research articles of high scientific/technical quality related to the development, advancement, and improved understanding of energy, power and environment sciences are sought.

Topics covered (not limited to):

- engineering thermodynamics, fluid mechanics, aerothermodynamics of internal flows, heat and mass transfer, combustion and reaction;
- sustainability of energy systems;
- energy conservation and storage;
- energy efficiency and climate change mitigation;
- renewable energy; nuclear energy;
- building, urban and distributed energy systems;
- cooling and refrigeration, heat pump;
- transport energy and emissions;
- operation, diagnostics and control of energy systems;
- energy policy and management.

Keyword list for specialty: To check your submission whether falls into the scope, please find the keyword list for specialty of the manuscript at the bottom of the file.

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- Original articles
- Review
- Technical note

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State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.
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Please supply, as a separate list, the definitions of field-specific terms used in your article.

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If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

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Keyword list for specialty

1: Renewable Energy Resources and Technologies

- 1.1: Biomass and Bioenergy
- 1.2: Solar Energy
  - 1.2.1: Solar radiation and resources assessment
  - 1.2.2: Photovoltaic (PV)
  - 1.2.3: Concentrated solar power (CSP)
  - 1.2.4: Passive and active solar thermal
- 1.3: Wind Energy
  - 1.3.1: Wind resources
  - 1.3.2: Wind for power generation
- 1.4: Hybrid renewable energy systems
  - 1.4.1: solar and wind
  - 1.4.2: solar and biomass
  - 1.4.3: solar and coal
  - 1.4.4: biomass and coal
- 1.5: Other renewable energy
  - 1.5.1: Geothermal
  - 1.5.2: Wave Power
  - 1.5.3: Tidal Power
  - 1.5.4: Ocean Thermal Energy Conversion
  - 1.5.5: Hydro Power
  - 1.5.6: Waste to energy conversion

2: Energy Systems and efficiency Improvement

- 2.1: Energy of industrial systems
  - 2.1.1: waste heat recovery
  - 2.1.2: efficiency improvement of industrial systems
  - 2.1.3: Waste recycle and resource integration
  - 2.1.4 Building energy-saving technology
- 2.2: Transport systems
  - 2.3.1: Engine improvement

2.3.2: alternative fuels
2.3.3: infrastructure
2.3: Energy Conservation in buildings
2.4: Distributed energy systems
2.4.1: load management and control
2.42: System integration and optimization
2.43: operation strategy
2.44: District heating/cooling

3: Advanced energy technologies

3.1: Fuel cells
3.2: hydrogen energy
3.3: Energy storage
3.4. Heat and mass transfer
3.5: Micro- and nano-technologies
3.6: Smart grid
3.7: heat exchangers
3.8: Heat pumps
3.9. Refrigeration /cooling
3.10: Heat pipe
3.11: Electric Vehicles
3.12: battery
3.13: Thermoelectricity
3.14: Micro and portable power generation
3.15: other Novel energy technologies

4: Power generation technologies and systems

4.1: gas turbines
4.2: engines
4.3: steam turbine
4.4: combine cycles
4.5: other power cycles and advanced cycles
4.6: polygeneration systems
4.7: cogeneration and combined cooling, heating and power (CCHP)
4.8: Integrated gasification combined cycle (IGCC)
4.9: clean coal technologies
4.10: other novel/integrated power generation systems
4.11 hybrid cycles

5: Climate change mitigation technologies

5.1: carbon capture and storage (CCS)
5.2: post combustion capture
5.3: pre-combustion capture
5.4: oxyfuel combustion
5.5: Carbon storage
5.6: carbon transport
5.7: sorbents for CCS

6: Energy management, policy and economics

- 6.1: energy and sustainable development
- 6.2: energy planning, monitoring and evaluation
- 6.3: energy certificate, labels and standards
- 6.4: carbon trading, carbon emission, Building carbon footprint
- 6.5: institutional, regulations and legal issues
- 6.6: capacity building and dissemination
- 6.7: energy market
- 6.8: Scenarios and Forecasting
- 6.9: Energy finance and investment
- 6.10: energy supply/demand analysis
- 6.11: subsidies and incentives
- 6.12: Energy security
- 6.13: energy economics, climate change policy modeling
- 6.14: energy in developing world

7: Energy Sciences

- 7.1: thermodynamic analysis
- 7.2: second law/exergy analysis
- 7.3: thermo-economic analysis
- 7.4: Life cycle assessments (LCA)
- 7.5: gasification and pyrolysis
- 7.6: decomposition, conversion and synthetization
- 7.7: heat and mass transfer
- 7.8: new materials for energy use
- 7.9: working fluid thermophysical properties

8. Fluid dynamics

- 8.1: Compressor
- 8.2: Turbine
- 8.3: pump
- 8.4: fan
- 8.5: unsteady flow
- 8.6: rotating stall and surge
- 8.7: multiphase flow
- 8.8: numerical simulation
- 8.9: experimental study
- 8.10: active control and passive control

9. Combustion

- 9.1: Combustion Kinetics
- 9.2: Heterogeneous Combustion
- 9.3: Combustion Diagnostics
- 9.4: Turbulent Combustion
- 9.5: Combustion in Engine
- 9.6: Coal Combustion

9.7: Biofuel combustion

9.8: Fire and flame

10: Environmental impacts of energy systems

10.1: SOx reduction

10.2: NOx Emissions

10.3: Particulate

10.4: Water issues

10.5: Ash

10.6: Toxic and hazardous pollutants

10.7: Multi-pollutants emissions

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