

*International Journal of*

# **sustainable AVIATION**

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# Scope of the Journal

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*IJSA handles a broad range of aviation-related issues with particular emphasis on environmental problems associated with sustainability. Aviation is cited as one of the major sources of noise and air pollution and considered a prominent cause of global warming. Future trends in aviation could constitute a major impediment to having sustainable development in economic, social and environmental perspectives. Sustainable aviation is a long term strategy aiming to offer innovative solutions to the challenges facing the aviation industry.*

## Topics covered include:

- Sustainable aviation; green aircraft and airlines
- Environmental impacts: emissions/noise, global warming/climate change
- Renewable energy sources; alternative/green aviation fuels
- Propulsion technologies for aerospace vehicles
- Combustion instabilities, innovative combustion technologies
- Energy, exergy, performance analysis; flight and fluid mechanics
- Energy recovery systems, alternative/renewable/clean energy technologies
- Mathematical modelling, numerical/experimental methods, optimisation
- Materials, measurement techniques and sensors
- Life cycle design and life cycle assessment; cost efficiency; waste/recycling
- Aircraft maintenance, repair and overhaul; airworthiness, reliability/safety
- Sustainable aircraft design, technological change, innovation, research and development
- Strategic planning, governmental legislation, policy-making
- Aviation management, fleet planning/scheduling; air traffic management; future air transport
- Airport design, management, planning, development



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