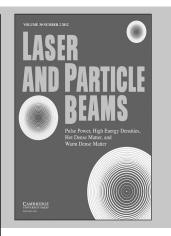
## JOURNALS

## Laser and Particle Beams

#### **Editor-in-Chief**

Dieter H. H. Hoffmann, Technical University Darmstadt, Germany

Laser and Particle Beams is an international journal which deals with basic physics issues of intense laser and particle beams, and the interaction of these beams with matter. The journal is designed to aid scientists in the task of understanding and modeling basic phenomena in these fields. Subjects covered include the physics of high energy densities; non-LTE phenomena; hot dense matter and related atomic, plasma and hydrodynamic physics and astrophysics; intense sources of coherent radiation; high current particle accelerators; beam-wave interaction; and pulsed power technology.



Laser and Particle Beams is available online at: http://journals.cambridge.org/lpb

#### To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org

#### Free email alerts

Keep up-to-date with new material – sign up at

journals.cambridge.org/register

For free online content visit: http://journals.cambridge.org/lpb



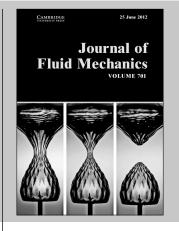
## JOURNALS

# Journal of Fluid Mechanics

#### Editor

M. G. Worster, University of Cambridge, UK

Journal of Fluid Mechanics is the leading international journal in the field and is essential reading for all those concerned with developments in fluid mechanics. It publishes authoritative articles covering theoretical, computational and experimental investigations of all aspects of the mechanics of fluids. Each issue contains papers on both the fundamental aspects of fluid mechanics, and their applications to other fields such as aeronautics, astrophysics, physiology, chemical and mechanical engineering, hydraulics, meteorology, oceanography, geology, acoustics and combustion.



Journal of Fluid Mechanics is available online at: http://journals.cambridge.org/flm

#### To subscribe contact Customer Services

in Cambridge: Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York: Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions\_newyork@cambridge.org

Price information is available at: http://journals.cambridge.org/flm

#### Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/flm-alerts

For free online content visit: http://journals.cambridge.org/flm



## CAMBRIDGE

## JOURNALS

Journal of

JFM ARCHIVE



**Fluid Mechanics** 

*Vital research from the definitive source* 

The JFM Digital Archive contains every article from the first 40 years of the journal, scanned and digitised to the highest standards.

Please speak to your librarian about gaining access.

## journals.cambridge.org/jfm



JOURNALS



# JFM RAPIDS

- Faster publication
- Greater visibility for papers
- Freely available to all for the first year

For more information visit **journals.cambridge.org/rapids** 



JFM FAST

**EVOLVED** 

**TRACK HAS** 

#### **Instructions for Authors**

**Editorial policy** The journal welcomes submissions in any of the areas of plasma physics. Its scope includes experimental and theoretical work on basic plasma physics, the plasma physics of magnetic and inertial fusion, laser–plasma interactions, industrial plasmas, plasma devices and plasmas in space and astrophysics. This list is, of course, merely illustrative of the wide range of topics on which papers are invited, and is not intended to exclude any aspect of plasma physics that is not explicitly mentioned.

Authors are urged to ensure that their papers are written clearly and attractively, in order that their work will be readily accessible to readers. Manuscripts must be written in English. *Journal of Plasma Physics* employs a rigorous peer-review process whereby all submitted manuscripts are sent to recognized experts in their subjects for evaluation. The Editors' decision on the suitability of a manuscript for publication is final.

**Submission of manuscripts** Papers may be submitted to the Editor or any of the Associate Editors via the online submission system, mc.manuscriptcentral.com/pla. When a paper is accepted, the authors will be asked to supply source files in LaTeX or Word. Instructions for the preparation of these files and LaTeX style files are given in the Instructions for Contributors link at journals.cambridge.org/pla.

**Incremental publishing and DOIs** In order to make articles which have been accepted for publication in *Journal of Plasma Physics* available as quickly as possible, they are now published incrementally online (at Cambridge Journals Online; journals.cambridge.org) The online version is available as soon as author corrections have been completed and before the article appears in a printed issue. A reference is added to the first page of the article in the journal catchline. This is the DOI – Digital Object Identifier. This is a global publishers' standard. A unique DOI number is created for each published item. It can be used for citation purposes instead of volume, issue and page numbers. It therefore suits the early citation of articles which are published on the web before they have appeared in a printed issue. See journals.cambridge.org/pla.

**Proof reading** Only typographical or factual errors may be changed at proof stage. The publisher reserves the right to charge authors for correction of non-typographical errors.

**Offprints** Corresponding authors will receive a PDF of their article upon publication. Print offprints may be purchased from the publisher if ordered at first proof stage.

**Copying** This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0022–3778/2014 \$16.00.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorized to supply single copies of separate articles for private use only.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. *For all other use*, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

# JOURNAL OF **PLASMA PHYSICS** VOLUME 80 • PART 5

#### **Research Articles**

Effect of plasma- $\beta$ on the onset of plasmoid instability in Sweet–Parker current sheets	
H. Baty	655
Nature and dynamics of overreflection of Alfvén waves in MHD shear flows D. Gogichaishvili, G. Chagelishvili, R. Chanishvili and J. Lominadze	667
Effect of dust–dust interaction type on normal modes of two-dimensional dust crystals <i>A. Bekda and M. Djebli</i>	687
On the range of validity of the semirelativistic magnetohydrodynamic equations Manuel Núñez	697
Multi-symplectic magnetohydrodynamics G. M. Webb, J. F. McKenzie and G. P. Zank	707
Modulational stability of electron plasma wave spectra H. L. Pécseli	745

**Cambridge Journals Online** journals.cambridge.org/pla //doi.org/10.1017/50022377814000749 Published online by Cambridge University Press



MIX Paper from responsible sources FSC® C007785

