

# PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A

Continuing its long history of influential scientific publishing, *Phil. Trans. R. Soc. A* publishes high quality theme issues on topics of current importance and general interest within the physical, mathematical and engineering sciences, guest-edited by leading authorities and comprising new research, reviews and opinions from prominent researchers. Each issue aims to create an original and authoritative synthesis, often bridging traditional disciplines, which showcases current developments and provides a foundation for future research, applications and policy decisions.

[rsta.royalsocietypublishing.org](http://rsta.royalsocietypublishing.org)

## EDITOR

C. David Garner

## COMMISSIONING EDITOR

Bailey Fallon

## EDITORIAL COORDINATOR

Ruth Milne

## PRODUCTION EDITOR

Thadcha Retneswaran

## EDITORIAL BOARD

Kazuyuki Aihara

Henrik Alfredsson

Chunli Bai

Katharine Cashman

Jack Connor

Athena Coustensis

Andrew Cooper

Ineke De Moortel

Caterina Ducati

Baylor Fox-Kemper

Pratibha Gai

Marie-Pierre Gaigeot

Robin Garrell

Isabelle Gallagher

Nigel Glover

Joanna Haigh

Yasuhiro Iwasawa

Nick Jenkins

Brian Kennett

Richard Kerswell

Ying-Cheng Lai

Stephen Liddle

Simon Lilly

Mike Lovell

David May

Paul Milewski

Nicolas Moussiopoulos

Tim Palmer

Vincent Poor

Stuart Robinson

Misao Sasaki

Gordon Semenoff

Simone Severini

John Shepherd

Ajay Sood

Ingrid Stairs

Douglas Stephan

Iain Stewart

Howard Stone

John Meurig Thomas

Bryan Webber

Colin Wilson

Xuesong Wu

Maohai Xie

Hiroshi Yamaguchi

Nan Yao

Julia Yeomans

Qiang Zhang

## SUBSCRIPTIONS

In 2017 *Phil. Trans. R. Soc. A* (ISSN 1364-503X) will be published 26 times a year. For more details of subscriptions and single issue sales please contact our fulfilment agent:

Turpin Distribution  
The Royal Society Customer Services  
Pegasus Drive  
Stratton Business Park  
Biggleswade  
SG18 8TQ

T +44 17 6760 4951

F +44 17 6760 1640

E [royalsociety@turpin-distribution.com](mailto:royalsociety@turpin-distribution.com)

Alternatively, please contact our customer service team at :

E [sales@royalsociety.org](mailto:sales@royalsociety.org)

## PRICES FOR 2017

	Online only	Online and print
£ UK/Rest of World	£2,450	£3,430
€ Europe	€3,187	€4,461
\$ US/Canada	\$4,646	\$6,504

## SUBMISSIONS

For submission guidelines and access to journal content visit:

[rsta.royalsocietypublishing.org](http://rsta.royalsocietypublishing.org)

*Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*

ISSN 1364-503X

© The Royal Society, 2017

Except as otherwise permitted under the Copyright, Designs and Patents Act, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any other means, with the prior permission in writing of the publisher, or in the case of reprographic reproduction, in accordance with the terms of a licence issued by the Copyright Licensing Agency. In particular, the Society permits the making of a single photocopy of an article from this issue (under Sections 29 and 38 of this Act) for an individual for the purposes of research or private study. Open access articles, which are published under a CC-BY licence, may be re-used without permission, but subject to acknowledgement.