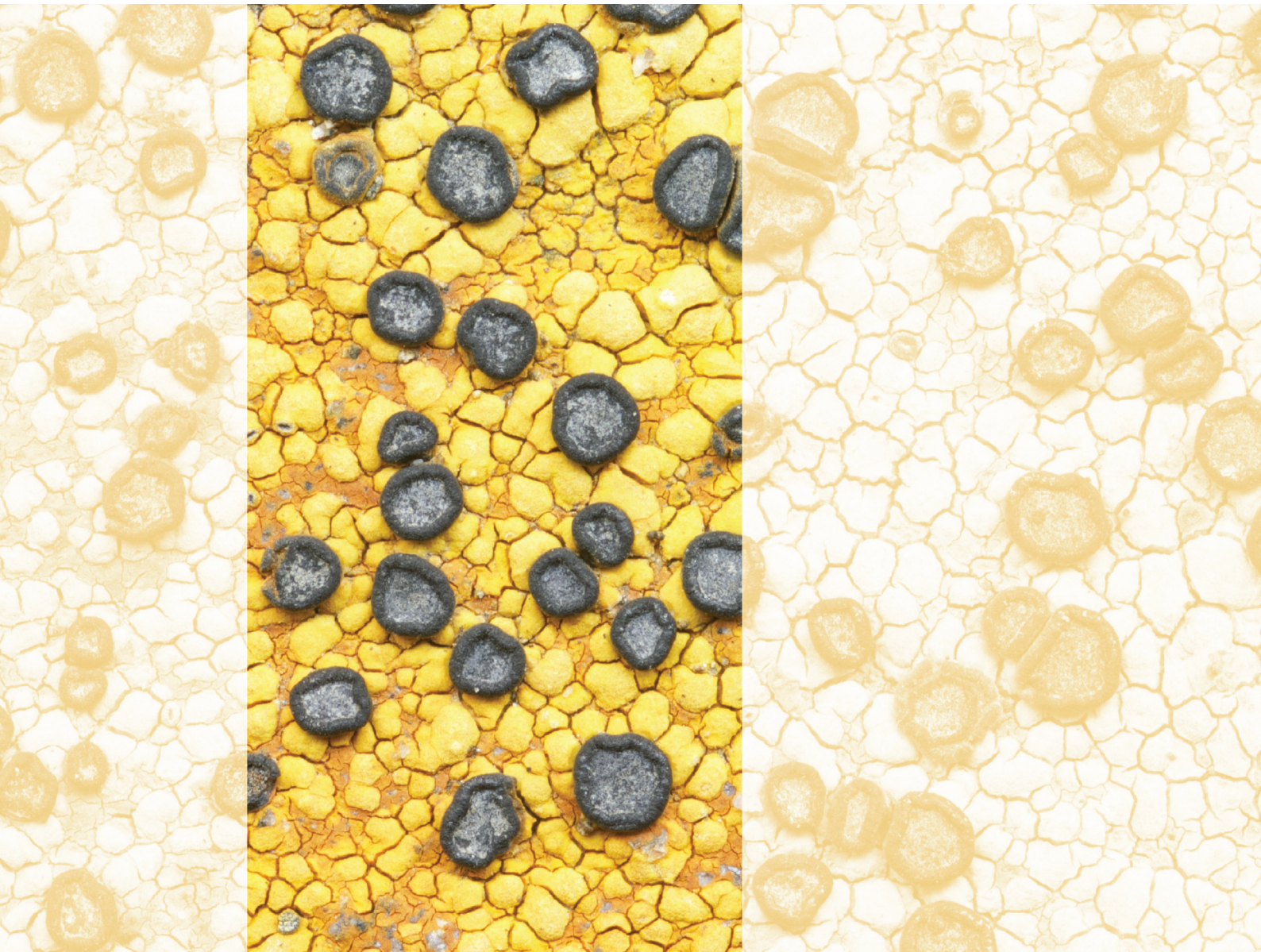


Volume 52, Part 3, 2020

# *The* Lichenologist



ISSN 0024 2829

**CAMBRIDGE**  
UNIVERSITY PRESS

<https://doi.org/10.1017/S0024282920000201> Published online by Cambridge University Press

# The Lichenologist

AN INTERNATIONAL JOURNAL  
PUBLISHED FOR THE BRITISH LICHEN SOCIETY

Senior Editors

C. J. ELLIS (Edinburgh, UK)  
L. MYLLYS (Helsinki, Finland)

Editors

J.E. TAYLOR-Managing (Edinburgh, UK)  
R. P. BECKETT (Scottsville, RSA)  
P. DIEDERICH (Luxembourg)  
S. EKMAN (Uppsala, Sweden)  
D. ERTZ (Meise, Belgium)  
A. M. FRYDAY (East Lansing, USA)  
P. GIORDANI (Genoa, Italy)  
D. J. HILL-Book Reviews (Gloucestershire, UK)  
J. D. LAWREY (Fairfax, USA)  
R. LÜCKING (Berlin, Germany)

A. ORANGE (Cardiff, UK)  
S. PÉREZ-ORTEGA (Madrid, Spain)  
C. PRINTZEN (Frankfurt, Germany)  
T. RANDLANE (Tartu, Estonia)  
L. G. SANCHO (Madrid, Spain)  
T. SPRIBILLE (Edmonton, Canada)  
M. WEDIN (Stockholm, Sweden)  
S. WILL-WOLF (Madison, USA)  
R. YAHR (Edinburgh, UK)

---

## AIMS AND SCOPE

*The Lichenologist* publishes original research papers and review articles on all aspects of lichenology. There are no page charges for contributions. All papers are submitted to peer-review.

## SUBMISSION OF MANUSCRIPTS

Manuscripts must be original, clearly and precisely presented in English and submitted electronically to *The Lichenologist* ScholarOne website <http://mc.manuscriptcentral.com/lich> following the on-screen instructions. Please consult the Instructions for Authors published in the back of each issue and on [journals.cambridge.org/lic](http://journals.cambridge.org/lic)

## ADVERTISING

Address enquiries in the USA, Mexico and Canada *only* to: [journals\\_advertising@cup.org](mailto:journals_advertising@cup.org)  
For all other parts of the world *except* USA, Canada and Mexico to: [ad\\_sales@cambridge.org](mailto:ad_sales@cambridge.org)

## SUBSCRIPTIONS

*The Lichenologist* (ISSN 0024-2829) is published six times a year (one volume per annum) in January, March, May, July, September and November. Volume 51 will appear in 2020. The 2020 subscription price (excluding VAT but including delivery by air where appropriate) of a volume, which includes print and electronic access to institutions, is £1190 (US\$2160 in USA, Canada and Mexico). The electronic-only price available to institutional subscribers is £875 (US\$1576 in USA, Canada and Mexico). The print-only price available to institutional subscribers is £1084 (US\$1969 in USA, Canada and Mexico). Single parts are £208 (US\$377 in USA, Canada and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered members should provide their VAT registration number.

Orders, which must be accompanied by payment, may be sent to any bookseller, subscription agent or direct to the publisher: Cambridge University Press, University Printing House, Shaftesbury Road, Cambridge CB2 8BS, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Prices include delivery by air.

Periodicals postage paid in New York NY and additional mailing offices.

Postmaster: send address changes in USA, Canada and Mexico to: *The Lichenologist*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133.

Claims for a missing issue should be made immediately on receipt of the subsequent issue.

## NOTES FOR CONTRIBUTORS

Instructions to authors for the submission of manuscripts to *The Lichenologist* can be found at [cambridge.org/lic/ifc](http://cambridge.org/lic/ifc)

## COPYRIGHT AND PERMISSIONS

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are also registered with C.C.C. may therefore photocopy material (beyond the limits permitted by Section 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 0024-2829/2020 \$16.00. *ISI Tear Sheet Service*, 3501 Market Street, Philadelphia, PA 19104, USA, is authorised to supply single photocopies of separate articles for private use only. Organizations authorised by the UK Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from Cambridge University Press. No part of this publication may otherwise be reproduced, stored or distributed by any means without permission in writing from Cambridge University Press.

Copyright © 2020 British Lichen Society

## OPEN ACCESS

*The Lichenologist* offers an **Open Access** option  
For further information see [cambridge.org/lic](http://cambridge.org/lic)

## ELECTRONIC ACCESS

This journal is included in the *Cambridge Core* service which can be found at [journals.cambridge.org](http://journals.cambridge.org). Further information on this and other Cambridge University Press titles is available on the Cambridge University Press homepage at [cambridge.org/core](http://cambridge.org/core)

**Cover photograph:** *Porpidia flavocruenta* by Tim Wheeler.

## Cambridge University Press

University Printing House, Shaftesbury Road, Cambridge CB2 8BS, United Kingdom  
One Liberty Plaza Floor 20 New York, NY 10006  
477 Williamstown Road, Port Melbourne, VIC 3207, Australia  
Ruiz de Alarcón 13, 28014 Madrid, Spain  
Dock House, The Waterfront, Cape Town 8001, South Africa