

Board of Editors

Editor in Chief

Debabrata Maiti

Indian Institute of Technology Bombay, India

dmaiti@iitb.ac.in

Accounts

Associate Editor for Tomislav Rovis

Columbia University, New York, USA

synlett@columbia.edu

Associate Editor for Rubén Martín Synpacts

Institute of Chemical Research of Catalonia (ICIQ),

Tarragona, Spain synlett@iciq.es

Associate Editors

Shanghai Institute of Organic Chemistry,

P. R. of China ali@sioc.ac.cn

David A. Nicewicz

University of North Carolina at Chapel Hill, USA

synlett@unc.edu

Monika Raj

Emory University, USA monika.raj@emory.edu

Yasuhiro Uozumi

Inst. for Molecular Science (IMS), Okazaki, Japan

synlett@ims.ac.jp

Manuel van Gemmeren

Christian-Albrechts-Universität zu Kiel, Germany

synlett crowd@thieme.de

(also responsible for Select Crowd Review)

Editorial Office

Accounts and

Rapid Communications in Chemical Synthesis

Editorial and **Acquisition Team** Stefanie Baumann

stefanie.baumann@thieme.de

Rohit Rhatia

rohit.bhatia@thieme.com

Selena Boothrovd

selena.boothroyd@thieme.de

Yingxiao Cai

yingxiao.cai@thieme.com

Susanne Haak

susanne.haak@thieme.de

Fungisai Matemadombo

fungisai.matemadombo@thieme.de

Production Team Tobias Brenner

tobias.brenner@thieme.de

Thomas Loop

thomas.loop@thieme.de

Regina Spangler

regina.spangler@thieme.de

Assistance Sabine Heller

sabine.heller@thieme.de

Andrea Wolf

andrea.wolf@thieme.de

SYNLETT Editorial Office Postal Address

Georg Thieme Verlag KG Rüdigerstraße 14, 70469 Stuttgart

Germany

Phone: +49 711 8931 744 Fax: +49 711 8931 777

Editorial Advisory Board

Ekambaram Balaraman, Tirupati Matthias Beller, Rostock Akkattu T. Biju, Bangalore Gong Chen, Tianjin Janine Cossy, Paris Xiaoming Feng, Chengdu Aiko Fukazawa, Kyoto Tanja Gaich, Konstanz Frank Glorius, Münster Syuzanna R. Harutyunyan, Groningen Todd Hyster, Ithaca Hajime Ito, Sapporo Steven V. Ley, Cambridge

Song Lin, Ithaca Geraldine Masson, Gif-sur-Yvette Andrew McNally, Fort Collins Bill Morandi, Zürich Santanu Mukherjee, Bangalore Alison R. H. Naravan, Ann Arbor Hosea M. Nelson, Pasadena Jonathan R. Nitschke, Cambridge Silvina C. Pellegrinet, Rosario Hans-Günther Schmalz, Cologne Michael S. Sherburn, Canberra Mikiko Sodeoka, Wako Keisuke Suzuki, Tokyo Hai-Chao Xu. Xiamen Shu-li You, Shanghai

Publication Information

SYNLETT Volume 35

SYNLETT is published monthly with additional issues in Jan., Mar., Apr.,

Jun., Jul., Sep., Oct., and Dec. (20 issues in total).

ISSN (Print): 0936-5214 eISSN: 1437-2096

Publishers

Georg Thieme Verlag KG, Rüdigerstraße 14, 70469 Stuttgart or P.O.Box

301120, 70451 Stuttgart, Germany

Phone: +49 711 8931 0 Fax: +49 711 8931 298

www.thieme-chemistry.com

Editorial staff at Georg Thieme Verlag is available via:

synlett_synthesis@thieme.de, V.i.S.d.P.: Dr. Susanne Haak, Rüdiger-

straße 14, 70469 Stuttgart

Umsatzsteuer-ID

DE147638607

Handelsregister

Sitz und Handelsregister Stuttgart, Amtsgericht Stuttgart HRA 3499,

Verkehrsnummer 16427

USA Office: (USPS 014-791) Thieme Publishers Inc., 333 Seventh Avenue, 18th floor, New York, NY 10001. Periodicals postage paid at New York, NY and additional mailing offices. Postmaster: Send address changes to SYNLETT, c/o Thieme Publishers Inc., 333 Seventh Ave, 18th floor, New York, NY 10001.

Printed in Germany

Cover design: Thieme Group

Typesetting: Georg Thieme Verlag KG, Stuttgart

Printer: Grafisches Centrum Cuno GmbH & Co. KG, Calbe (Saale)



Manuscript Submission

Manuscript submissions will be processed exclusively online via http://mc.manuscriptcentral.com/synlett. Please consult the Instructions for Authors before compiling a new manuscript. The current version and the Word templates for manuscript preparation are available at www.thieme-chemistry.com.

Subscription Information

The Americas:

Thieme New York,

333 Seventh Ave, New York, NY 10001, USA. Via e-mail: customerservice@thieme.com Via website: www.thieme-chemistry.com Phone: +1 212 760 0888; Fax: +1 212 947 0108 Order toll-free within the USA: +1 800 782 3488

Europe, Africa, Asia,* and Australia:

Georg Thieme Verlag KG,

Rüdigerstraße 14, 70469 Stuttgart or P.O.Box 301120,

70451 Stuttgart, Germany.

Via e-mail: customerservice@thieme.de Via website: www.thieme-chemistry.com Phone: +49 711 8931 421; Fax: +49 711 8931 410

*Except India, Pakistan, Bangladesh, Nepal, Bhutan, and Sri Lanka:
Thiama Publishers Delhi Thiama Medical and Scientific Publishers

Thieme Publishers Delhi, Thieme Medical and Scientific Publishers Private Ltd., N-26, II & III Floor, Sector 18, Noida-201 301, India.

Via e-mail: customerservice@thieme.in

Phone: +91 120 42744 61/62/63/64; Fax: +91 120 42744 65

Subscription Rates 2024 for The Americas

Institutional Print + single site online access Online only single site access	US\$ 4,176.00 US\$ 4,017.00
Personal (incl. online access)	US\$ 755.00
Single Issue	US\$ 259.00
Postage included	

Subscription Rates 2024 for Europe, Africa, Asia, * and Australia

Institutional Print + single site online access Online only single site access	€ 3,447.00 € 3,207.00
Personal (incl. online access)	€ 610.00
Single Issue	€ 195.00
Postage included	

^{*}For India, Pakistan, Bangladesh, Nepal, Bhutan, and Sri Lanka please contact customerservice@thieme.in

All prices are those suggested by the publisher and are subject to change. All subscription orders are entered for the calendar year. Subscriptions can be started anytime. Subscriptions are automatically extended each year unless notice of cancellation is received from the subscriber prior to September 30th of each year (applies to Germany, Switzerland, Austria only). Personal subscriptions must be placed by individuals. Only qualified professionals are eligible for personal subscriptions. Orders from individuals must include the recipient's name and private address and be paid by private funds.

Online Licensing Information

The online version of this journal is available through www.thieme-connect.de/products/ejournals/journal/10.1055/s-00000083 where it is also possible to register for a free trial account. For information on multi-site licenses and pricing for corporate customers, as well as backfiles, please contact our regional offices:

The Americas:

esales@thieme.com Phone: +1 212 584 4695

Europe, Africa, Asia, and Australia:

eproducts@thieme.de Phone: +49 711 8931 407

India

eproducts@thieme.in Phone: +91 120 4556600

lapan:

esales_jp@thieme.de Phone: +49 711 8931 941

Product Names

Product names which are in fact registered trademarks may not have been specifically designated as such in every case. Thus, in those cases where a product has been referred to by its registered trademark it cannot be concluded that the name used is public domain. The same applies to labels, names or other signs.

Ownership and Copyright

© 2024. Thieme. All rights reserved.

This journal, including all individual contributions and illustrations published therein, is legally protected by copyright for the duration of the copyright period. Any use, exploitation or commercialization outside the narrow limits set by copyright legislation, without the publisher's consent, is illegal and liable to criminal prosecution. This applies in particular to photocopy reproduction, copyright, cyclostyling, mimeographing or duplication of any kind, translating, preparation of microfilms, and electronic data processing and storage (CD-ROM, DVD, USB memory stick, databases, cloud-based service, ebook and other forms of electronic publishing) as well as making it available to the public (e.g., internet, intranet or other wired or wireless data networks), in particular by displaying on stationary or mobile visual display units, monitors, smart phones, tablets or other devices by download (e.g., e-pub, PDF, App) or retrieval in any other form.

Copyright Permission for Users in the USA

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Georg Thieme Verlag Stuttgart · New York for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service; www.copyright.com. For reprint information in the USA, please contact: journals@thieme.com

Advertising

Thieme Media

Pharmedia Anzeigen- und Verlagsservice GmbH, Nicole Dörr, Rüdigerstraße 14, 70469 Stuttgart or P.O.Box 300880, 70448 Stuttgart, Germany

Phone: +49 711 8931 446

e-Mail: Nicole.Doerr@thieme-media.de

