

Perspectives on Carbon Accounting and Reporting

Other titles in Foundations and Trends® in Accounting

Uncertainty-Embedded Financial Data and Stock Returns

Jasmine Zhang and Xiao-Jun Zhang

ISBN: 978-1-63828-438-3

A Primer on Structural Estimation in Accounting Research

Jeremy Bertomeu, Ying Liang and Iván Marinovic

ISBN: 978-1-63828-166-5

Bookkeeping Graphs: Computational Theory and Applications

Pierre Jinghong Liang

ISBN: 978-1-63828-164-1

Timeliness, Accuracy, and Relevance in Dynamic Incentive Contracts

Peter O. Christensen, Gerald A. Feltham, Christian Hofmann
and Florin Sabac

ISBN: 978-1-63828-084-2

Entropy, Double Entry Accounting and Quantum Entanglement

John Fellingham, Haijin Lin and Doug Schroeder

ISBN: 978-1-63828-032-3

*Foreign Currency: Accounting, Communication and
Management of Risks*

Trevor Harris and Shiva Rajgopal

Perspectives on Carbon Accounting and Reporting

Edited by

Jonathan Glover

Columbia University

jg3463@gsb.columbia.edu

now

the essence of knowledge

Boston — Delft

Foundations and Trends[®] in Accounting

Published, sold and distributed by:

now Publishers Inc.
PO Box 1024
Hanover, MA 02339
United States
Tel. +1-781-985-4510
www.nowpublishers.com
sales@nowpublishers.com

Outside North America:

now Publishers Inc.
PO Box 179
2600 AD Delft
The Netherlands
Tel. +31-6-51115274

The content of the book was originally published in Foundations and Trends[®] in Accounting, vol. 19, no. 3–4.

ISBN: 978-1-63828-551-9
© 2025 Now Publishers Inc

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanical, photocopying, recording or otherwise, without prior written permission of the publishers.

Photocopying. In the USA: This journal is registered at the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by now Publishers Inc for users registered with the Copyright Clearance Center (CCC). The 'services' for users can be found on the internet at: www.copyright.com

For those organizations that have been granted a photocopy license, a separate system of payment has been arranged. Authorization does not extend to other kinds of copying, such as that for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. In the rest of the world: Permission to photocopy must be obtained from the copyright owner. Please apply to now Publishers Inc., PO Box 1024, Hanover, MA 02339, USA; Tel. +1 781 871 0245; www.nowpublishers.com; sales@nowpublishers.com

now Publishers Inc. has an exclusive license to publish this material worldwide. Permission to use this content must be obtained from the copyright license holder. Please apply to now Publishers, PO Box 179, 2600 AD Delft, The Netherlands, www.nowpublishers.com; e-mail: sales@nowpublishers.com

Foundations and Trends[®] in Accounting
Volume 19, Issue 3–4, 2025
Editorial Board

Editor-in-Chief

Jonathan Glover
Columbia University

Executive Editors

Stephen Penman
Columbia University

Stefan J. Reichelstein
Stanford University and University of Mannheim

Editorial Scope

Topics

Foundations and Trends[®] in Accounting publishes survey and tutorial articles in the following topics:

- Auditing
- Corporate Governance
- Cost Management
- Disclosure
- Event Studies/Market Efficiency Studies
- Executive Compensation
- Financial Reporting
- Management Control
- Performance Measurement
- Taxation

Information for Librarians

Foundations and Trends[®] in Accounting, 2025, Volume 19, 4 issues. ISSN paper version 1554-0642. ISSN online version 1554-0650. Also available as a combined paper and online subscription.

Contents

An Introduction to the Special Issue on Perspectives on Carbon Accounting and Reporting	1
<i>Jonathan Glover</i>	
Innovations in Corporate Carbon Accounting	9
<i>Stefan Reichelstein</i>	
How Carbon Accounting Supports Corporate Decarbonization	46
<i>Dominik Asam, Jürgen Ernstberger, and Gunther Friedl</i>	
Automotive Supply Chain Decarbonization as a Driver for Carbon Accounting and Vice Versa	78
<i>Thomas Becker</i>	
Corporate Carbon Accounting: Current Practices and Opportunities for Research	96
<i>Gunther Glenk</i>	
Automated Product Carbon Footprint Calculation in the Chemical Industry to Steer Decarbonization Along the Value Chain	127
<i>Peter Saling, Alessandro Pistillo, and Jochen Kurtz</i>	

Accounting Design: Carbon Accounting with Financial Accounting Principles

158

Stephen Penman