

Global Imbalances and Financial Capitalism

The past few decades have witnessed the emergence of economic imbalances at the world level and within the euro zone. The failure of mainstream economics to accurately predict financial crises, or model the effects of finance-led growth, highlights the need for alternative frameworks.

A key text, *Global Imbalances and Financial Capitalism: Stock-Flow-Consistent Modelling* demonstrates that Stock-Flow-Consistent models are well adapted to study this growth regime due to their ability to analyse the real and financial sides of the economy in an integrated way. This approach is combined with an analysis of exchange rate misalignments using the Fundamental Equilibrium Exchange Rate (FEER) methodology, which serves to give a synthetic view of international imbalances. Together, these models describe how global and regional imbalances are created, as well as suggest appropriate tools through which they may be reduced. The book also considers alternative economic policies in the euro zone (international risk sharing, fiscal federalism, eurobonds, European investments, a multispeed euro zone) alongside alternative monetary policies. In particular, it examines the possibilities of using SDR (Special Drawing Rights) as a reserve asset to be issued to fight a global recession, to support the development of low-income countries, or as an anchor to improve global monetary stability.

This text will be of interest to students, scholars, and researchers of economic theory and international monetary economics. It will also appeal to professional organisations that supervise international relations.

Jacques Mazier is Professor Emeritus at the University Sorbonne Paris Nord, CEPN-CNRS, France.

Routledge Frontiers of Political Economy

Inequality and Governance

Andreas P. Kyriacou

A New Approach to the Economics of Public Goods

Thomas Laudal

Marx's Capital after 150 Years

Critique and Alternative to Capitalism

Edited by Marcello Musto

The Political Economy of Prosperity

Successful Societies and Productive Cultures

Peter Murphy

Macroeconomic Measurement Versus Macroeconomic Theory

Merijn Knibbe

Hayek's Market Republicanism

The Limits of Liberty

Sean Irving

The End of Individualism and the Economy

Emerging Paradigms of Connection and Community

Ann E. Davis

Profit, Accumulation, and Crisis in Capitalism

Long-term Trends in the UK, US, Japan, and China, 1855–2018

Minqi Li

Global Imbalances and Financial Capitalism

Stock-Flow-Consistent Modelling

Jacques Mazier

For more information about this series, please visit: www.routledge.com/books/series/SE0345

Global Imbalances and Financial Capitalism

Stock-Flow-Consistent Modelling

Jacques Mazier

**with Vincent Duwicquet,
Luis Reyes, Jamel Saadaoui,
and Sebastian Valdecantos**

First published 2020
by Routledge
2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN

and by Routledge
52 Vanderbilt Avenue, New York, NY 10017

Routledge is an imprint of the Taylor & Francis Group, an informa business

© 2020 Jacques Mazier

The right of Jacques Mazier to be identified as author of this work has been asserted by him in accordance with sections 77 and 78 of the Copyright, Designs and Patents Act 1988.

All rights reserved. No part of this book may be reprinted or reproduced or utilised in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying and recording, or in any information storage or retrieval system, without permission in writing from the publishers.

Trademark notice: Product or corporate names may be trademarks or registered trademarks, and are used only for identification and explanation without intent to infringe.

British Library Cataloguing-in-Publication Data

A catalogue record for this book is available from the British Library

Library of Congress Cataloging-in-Publication Data

Names: Mazier, Jacques, author.

Title: Global imbalances and financial capitalism: stock-flow-consistent modelling / Jacques Mazier; with Vincent Duwicquet, Luis Reyes, Jamel Saadaoui and Sebastian Valdecantos.

Description: 1 Edition. | New York: Routledge, 2020. |

Series: Routledge frontiers of political economy |

Includes bibliographical references and index.

Identifiers: LCCN 2019059174 (print) | LCCN 2019059175 (ebook)

Subjects: LCSH: Economic development—Econometric models. |

Foreign exchange rates—Econometric models. |

Capital movements—Econometric models.

Classification: LCC HD75.5 .M395 2020 (print) |

LCC HD75.5 (ebook) | DDC 338.9/27—dc23

LC record available at <https://lcn.loc.gov/2019059174>

LC ebook record available at <https://lcn.loc.gov/2019059175>

ISBN: 978-1-138-34558-4 (hbk)

ISBN: 978-0-429-43778-6 (ebk)

Typeset in Bembo

by Newgen Publishing UK

Contents

<i>List of contributors</i>	vii
Introduction	1
PART I	
Finance-led regime and global imbalances: a first glance	7
1 A simple finance-led SFC model	9
2 Exchange rate misalignments and global imbalances	38
3 Global imbalances and macroeconomic adjustments: a three-country SFC model	71
PART II	
European challenges	107
4 From the European Monetary System to the single currency trap	109
5 Alternative economic policies in the euro zone	147
6 Alternative exchange rate regimes for the euro zone	196

PART III

Enhancing regional and international monetary stability 237

7 Exploring monetary cooperation in East Asia 239

8 Enhancing the role of the SDR 271

Conclusion 290

References 298

Index 305

Contributors

Vincent Duwicquet, Senior Lecturer, University of Lille, CLERSE-CNRS,
France

Luis Reyes, Finance Lecturer, Kedge Business School, Marseille, France

Jamel Saadaoui, Senior Lecturer, University of Strasbourg, BETA-CNRS,
France

Sebastian Valdecantos, Assistant Professor, National University of General
San Martin, Buenos Aires, Argentina

Introduction

Jacques Mazier

The aim of the book is to study different features of the finance-led regime that has settled in most industrialized countries since the late 1980s. Capital accumulation is driven by the financial rate of return and periodic crises appear as its normal adjustment mode. Recurrent global imbalances are another component of this growth regime with both a real and financial dimension. They are observed at the world level (US deficits facing Asian surpluses) and regional level (intra-European imbalances). Economic policies have been active to fight against crises, especially after 2008. The worst have been avoided but the mechanisms remain almost unchanged. These questions will be discussed using rather simple macroeconomic models at the national and international levels. The case of the European Union (EU), where the crisis of the euro zone has presented strong specificities due to the inconsistency of the monetary union, will be examined more in detail.

Since 2010 a long, though moderate, recovery has been observed in the United States, but the movement has been less pronounced in the EU and in Japan. China has almost succeeded to escape the 2008 crisis thanks to a huge demand support plan based on credit. China is shaping the world economy but, since the election of Donald Trump, the intensity of the trade war has escalated. Exchange rate policy has always been important for China and remains a possible answer. Special attention is paid to it. However, the future is uncertain. A slowdown can be expected in 2020 at the world level and yet another financial crisis cannot be excluded. The growth regime seems unsustainable, especially in the United States in spite of the room for manoeuvre given by the oil sector boom. The mechanisms at work before 2008 have not changed radically. This is all the more worrying given that the traditional economic policy tools have reached their limits. Public debt is high virtually everywhere, interest rates are close to zero in many countries, the balance sheets of central banks have increased considerably thanks to quantitative easing. In this context, although multilateralism is no longer fashionable, a global reform of the international monetary system based on an enlargement of the role of the Special Drawing Rights (SDR) deserves to be discussed.

Regarding the theoretical background, the financial crisis has shown the inability of mainstream models to explain it, in particular the so-called Dynamic

2 Introduction

Stochastic General Equilibrium (DSGE) models. More realistic assumptions have been integrated in these with asymmetric information, sticky prices or credit rationing, but their main assumptions remain based on the single representative agent maximizing a utility function. Since these are supply-side models, they take little or no account of finance and are based on unreliable hypotheses, which makes them rather unsuitable to explain growing world imbalances. The framework used in this book is different. It is macroeconomic without micro foundations, based on national accounts both in real and financial terms, Stock Flow Consistent (SFC) and mainly demand-led. Agents react to disequilibria on the basis of partial adjustment functions. Macroeconomic relations describe how the economic system can be reproduced from period to period inside the accounting framework (see Nikiforos and Zezza, 2017 for a survey). Following a Kaleckian perspective, long run evolution appears as a progressively changing component of short run sequences (Kalecki, 1965). According to the periods and the structural characteristics, real and financial business cycles or divergent evolutions can occur. SFC modelling is well suited to take into account the interaction between the real and the financial sectors which is a key issue of our times. Balance sheet constraints and revalorization effects, with capital gains or losses, are explicitly described. This SFC approach focuses on the macroeconomic forces at the domestic and international levels but remains mainly theoretical, even if simulations based on calibrations are made. In order to give a more empirical light on global imbalances the Fundamental Equilibrium Exchange Rate (FEER) methodology is used in complementarily. The FEER is defined as the level of exchange rate which allows the economy to reach simultaneously internal and external equilibrium. This approach allows a synthetic estimation of the equilibrium current accounts and of the exchange rate misalignments.

Since the burst of the financial crisis of 2008 several references have been made to Minsky (1986). In the Minskyan framework, the surge in investment during the upswing takes place thanks to an increase in external financing, which leads to the endogenous fragility of firms. The decrease in risk perceived by investors, that is, the reduction of investors' liquidity preference on financial markets, fosters a rising debt share in the firms' balance sheet. But this process ends because of an endogenous reversal of the liquidity preference which corresponds to a reversal of collective opinion in financial markets. As a consequence, credit risk is revised upward, which generates the fall in investment. When investors in financial markets start having doubts about the value of collateral, liquidity preference starts rising and this generates a fall in prices on financial markets. These doubts generate a revaluation of credit risk. Investors run towards liquidity, which thus leads firms to run strong insolvency risks since the refinancing of debt becomes difficult. A complete modelling of Minsky's analysis would be very complex and does not exist. However, we will see how some of the Minskyan mechanisms can be incorporated within the SFC approach.

The closest theoretical takes place via Godley and Lavoie (2007a) and Taylor (2004). Godley and Lavoie have laid the foundations of macroeconomic

SFC modelling. In the same theoretical framework, we pay more attention to empirical results, including econometric ones, and to calibration of the models, especially in the European case. The international dimension is more developed than in Godley and Lavoie's book but this question has been treated more in detail in several other articles (Godley and Lavoie (2007b) for the European case; Lavoie and Daigle (2011) for the introduction of expectations; Lavoie and Zhao (2010) for the treatment of Chinese exchange rate policy). Taylor (2005) is also a founding work. Compared to previous publications by the author, this one focuses more, from the outset, on social accounting matrices with their associate balance sheets and on macroeconomic SFC modelling. But his modelling technique is in continuous time, which has the disadvantage of demanding simplifications (sometimes quite important) in order to carry on the computations. By contrast, our modelling is in discrete time and relies more on simulations to study the properties of the models. In spite of a broad agreement with Taylor, we have one divergence on a specific point, the determination of exchange rates, as it will be developed more in detail.

Hein (2012) is another important reference. It is a systematic study of the finance dominated capitalism and its crises, which provides many stimulating results. However, some points seem debatable. First, most of the models studied in large detail are in a closed economy. This can be considered quite acceptable as a first step, but it can hardly be argued that they are meaningful to discuss international imbalances and coordinated economic policies. Second, the finance dominated economy is formalized in a very simplistic way. There is no price of equities, no difference between productive capital and financial capital or between the economic rate of profit and the financial rate of return. The balance sheet of firms and banks is described in an overly simplistic way. Strangely, there are no financial dynamics in this finance dominated economy. In contrast, we develop more elaborated models, first at the financial level with an analysis of the dynamics of equity prices and of the rate of interest, second at the international level with multi-country models and various exchange rate regimes. Simulations help manage these more complete SFC models.

The main themes of the book are the following. In a first part we will present the basic elements of the methodology used: SFC modelling for a closed economy, multi-country SFC model and FEER approach. At the same time a first look at the operating mode of the finance-led regime and of the world imbalances since the 1990s will be given. Chapter 1 is dedicated to a simple SFC model in a closed economy in order to provide a reference model for the other chapters of the book. Based on the French case, the main stylised facts of the finance-led regime are recalled. Simulations are used to reproduce some of the characteristics of the cycles of the 1990s and 2000s with the price of equities clearing the market. Chapter 2 provides an evaluation of the global imbalances using the notion of FEER. Current imbalances and exchange rate misalignments are estimated since the 1980s for the main countries (the

4 *Introduction*

United States, China, the Eurozone, Japan, the United Kingdom and the rest of the world). The main economic policy guidelines are reviewed within this framework. Chapter 3 analyses macroeconomic adjustments at the world level using a three-country SFC model (the United States, Europe, the rest of the world). This model also serves as a reference model for the other chapters of the book. Different exchange rate regimes are compared and used to analyse the global imbalances since the 1980s: the hybrid dollar standard with fixed dollar–yuan parity and a floating euro, a more elaborated Chinese central bank policy with reserves diversification, various regimes with more flexible dollar–yuan parity.

In a second part we focus on the European challenges. Chapter 4 assesses the European integration since the early blocking of the European Monetary System (EMS) at the beginning of the 1980s. Intra-European exchange rate misalignments are estimated following the FEER approach as they have been a key issue at the time of the EMS, but also within the monetary union. The main drawbacks of the European economic policy from the Single Market program in the 1980s to the launching of the monetary union is given particular attention. The single currency trap since the burst of the financial crisis in 2008 and the reforms undertaken in emergency are analysed. The inconsistency of a monetary union between heterogeneous countries, almost without any adjustment mechanism except wage deflation, are highlighted. The risk of a status quo has led to many alternative proposals which are examined in Chapter 5: fiscal federalism, European unemployment insurance system, euro-bonds and public debt mutualisation, enlargement of the European financing in favour of southern countries, European investment programs. Simulations with an SFC model of the monetary union will show that these alternative economic policies could have either an efficient stabilising role (fiscal federalism, investment programs) or a more limited one (European stability mechanism, debt mutualisation). But in most cases, they will appear politically unlikely or hardly feasible. This persistent blocking leads to the discussion of a more radical alternative framework where the possibility of intra-European exchange rate adjustments would be reintroduced thanks to new monetary regimes: a multi-euro system or a euro bancor system. These regimes will be detailed and simulated with a four-country model (north Europe, south Europe, the United States and the rest of the world) in Chapter 6.

In a third part, without analysing all the threats to which is confronted the world economy, we focus on monetary issues. The future of monetary cooperation in East Asia is explored in Chapter 7 using four-country models (China, Japan, East Asia and the rest of the world). A rough description of the East Asian monetary regimes observed in the past is given (dollar-pegged regime, hybrid regime with more flexible East Asian exchange rates and more managed regime for the yuan). In a forward-looking framework, long-term scenarios are discussed: a rather unlikely yuan zone, a yuan block where the yuan–East Asia parity could be managed, Asian Currency Unit (ACU) regimes with various forms of ACU, an Asian bancor regime. In the last chapter, we analyse

to which extent a global reform of the international monetary system based on a deepening of the Special Drawing Rights (SDR) could contribute to stabilise the world economy and reduce the large global imbalances. Alternatives will be proposed for the emission criterion of SDRs (with regular or countercyclical emission) and for the distribution criterion of SDRs (according to each country quota or to each country's demand for reserves). A final part concludes.

References

- Aflouk, N., Jeong, S.-E., Mazier, J. and Saadaoui, J. (2010), 'Exchange rate misalignments and world imbalances, a FEER approach for emerging countries', *International Economics*, 124, pp. 31–74.
- Aflouk, N. and Mazier, J. (2013), 'Exchange rate misalignments and economic growth: a threshold panel approach', *Economics Bulletin*, 33(2), pp 1333–1347.
- Aflouk, N., Mazier, J. and On, M. (2016), 'Impact of monetary regimes and exchange rates on ASEAN economic integration' in *ASEAN Economic Community: A model for Asia wide integration*, ed. B. Jetin and M. Mikiz, London, Palgrave Macmillan.
- Aglietta, M. (1998), 'Le Capitalisme de demain', Notes de la fondation Saint-Simon, no. 101.
- Ahearne, A., Cline, W.R., Lee, K.T., Park, Y.C., Pisani-Ferry J. and Williamson, J. (2007), Global Imbalances: time for Action, *Policy Brief 07-4, March, Peterson Institute for International Economics*, Washington
- Amato, M. and Fantacci, L. (2014). *Saving the market from capitalism*, Policy Press, Cambridge.
- Amato, M., Fantacci, L., Papadimitriou, D. and Zezza, G. (2016). Going forward from B to A? Proposals for the Eurozone crisis, Levy Economics Institute, Working paper no. 866, May.
- Asdrubali, P., Sorensen, B. and Yoshua, O. (1996), 'Channels of inter-state risk sharing: United States 1963– 1990', *Quarterly Journal of Economics*, 111, p 1081–1110.
- Asdrubali, P. and Kim, S. (2004), 'Dynamic risk sharing in the United States and Europe', *Journal of Monetary Economics*, 51, pp. 809–836.
- Bensassy-Quéré, A., Ragot, X. and Wolf, G. (2016), 'Quelle union budgétaire pour la zone euro?', *Notes du Conseil d'Analyse Economique*, 29, February.
- Benassy-Quéré, A. et al. (2018), 'Reconciling risk sharing with market discipline: a constructive approach to euro area reform', *CEPR, Policy Insight*, 91, January.
- Bibow, J. (2016), 'Making the euro area viable, the Euro Treasury Plan', *European Journal of Economics and Economic Policies, Intervention*, 13(1), pp. 72–86.
- Blanchard, O. and Katz, L. (1992), 'Regional evolutions', *Brookings Papers on economic activity*, 1, pp. 1–75.
- Blanchard, O. Giavazzi, F. and Sa, F. (2005), 'The US current account and the dollar', *Brookings Papers on Economic Activity*, 1.
- Blinder, A. and Solow, R. (1973), 'Does fiscal policy matter?', *Journal of Public Economics*, 2(4), pp. 319–337.
- Boyer, R. (1999), 'Le gouvernement économique de la zone euro', Rapport du Commissariat Général du Plan, La Documentation Française.

- Boyer, R. (2000), 'Is a finance-led growth regime a viable alternative to Fordism? A preliminary analysis', *Economy and Society*, 29(1), pp. 111–145.
- Brainard, W.C. and Tobin, J. (1968), 'Pitfalls in financial model building', *American Economic Review*, 58(2), pp. 99–122.
- Bresser-Pereira, L.C. (2010), *Globalization and competition*, Cambridge, Cambridge University Press.
- Bresser-Pereira, L.C., Oreiro, J.L. and Marconi, N. (2014), *Developmental macroeconomics*, London, Routledge.
- Brillet, J.L. (2000), *A workbook for the use of the Chinese annual model*, INSEE, Paris.
- Cadiou, L., Guichard, S. and Maurel, M. (1999), 'Ajustements sur les marchés du travail en Europe', Working paper CEPII no. 99–11.
- CEPII-OFCE-MIMOSA (1994), 'Lutter contre le chômage de masse en Europe', *Revue de l'OFCE*, 48, July.
- Cesaratto, S. (2013), The implication of TARGET2 in the European balance of payments crisis and beyond, *European Journal of Economics and Economic Policies: Intervention*, 10(3), pp. 359–382.
- Chinn, M.D. and Prasad, E.S. (2003), Medium term determinants of current accounts in industrial and developing countries: an empirical exploration, *Journal of International Economics*, 59, Elsevier, pp. 47–76.
- Clark, P.B. and MacDonald, R. (1998), Exchange Rates and Economic Fundamentals: A Methodological Comparison of BEERs and FEERs, Working Paper 98/00, March, International Monetary Fund, Washington.
- Clévenot, M. and Duwicquet, V. (2011), 'Partage du risque inter-régional', *Revue de l'OFCE*, 119, October.
- Clévenot, M., Guy, Y. and Mazier, J. (2010), 'Investment and the rate of profit in a financial context: the French case', *International Review of Applied Economics*, 24(6), pp. 693–714.
- Clévenot, M., Guy, Y. and Mazier, J. (2012), 'Financiarisation de l'économie française et modélisation postkeynésienne', *Économie appliquée*, 65(4), pp. 39–78.
- Cline, W.R. (2008), Estimating Consistent Fundamental Equilibrium Exchange Rates, Working Paper 08-6, July, Peterson Institute for International Economics, Washington.
- Cline, W.R. (2014), Estimates of Fundamental Equilibrium Exchange Rates, Policy Brief 14–25, November, Peterson Institute for International Economics, Washington.
- Cline, W.R. and Williamson, J. (2008), New Estimates of Fundamental Equilibrium Exchange Rates, Policy Brief 08-7, July, Peterson Institute for International Economics, Washington.
- Couharde, C. and Mazier, J. (2001), 'The equilibrium exchange rates of European currencies and the transition to euro', *Applied Economics*, 33(14), pp. 1795–1801.
- Couharde, C., Delaite, A.L., Grekou, C., Mignon, V. and Morvillier, F. (2017), EQCHANGE: a world database on actual and equilibrium effective exchange rates, Working Paper CEPII no. 2017-14, July.
- Davanne, O. (1998), 'L'instabilité du système financier international', Rapport du Conseil d'analyse économique, no. 14, La Documentation Française.
- Davis, E.P. (1987), 'A Stock-Flow Consistent macro-econometric model of the UK economy' (parts I and II), *Journal of Applied Econometrics*, 2.
- Dées, S. (1999), The Role of External Variables in the Chinese Economy; Simulation from a Macroeconomic Model of China, Working Paper no. 1999-09, juin, CEPII, Paris.

8 References

- Dos Santos, C.H. and Zezza, G. (2008), 'A simplified, 'benchmark', stock-flow consistent Post-Keynesian growth model', *Metroeconomica*, 59(3), pp. 441–438.
- Durand, C. and Villemot, S. (2017), 'Balance sheets after the EMU: An assessment of the redenomination risk', *OFCE*, January.
- Duwicquet, V. and Mazier, J. (2010), 'Financial integration and macroeconomic adjustments in a monetary union', *Journal of Post Keynesian Economics*, 33(2), pp. 331–368.
- Duwicquet, V. and Mazier, J. (2012), 'Financial integration and stabilization in a monetary union without or with bank rationing', in *Contributions in Stock-Flow Modelling, Essays in Honor of Wynne Godley*, New York, Palgrave Macmillan.
- Duwicquet, V., Mazier, J. and Saadaoui, J. (2012), 'Exchange rate misalignments, fiscal federalism and redistribution; how to adjust in a monetary union?', Working Paper CEPN 2012–04.
- Duwicquet, V., Mazier, J. and Saadaoui, J. (2013), 'Désajustements de change, fédéralisme budgétaire et redistribution', *Revue de l'OFCE*, 127, Debates and policies, pp. 57–93.
- Duwicquet, V., Mazier, J. and Saadaoui, J. (2016), Interest rates, Eurobonds and intra-European exchange rate misalignments: the challenge of sustainable adjustments in the Eurozone, BETA Working paper 2016–19.
- Duwicquet, V., Mazier, J. and Saadaoui, J. (2018), 'Dealing with the consequences of exchange rate misalignments for macroeconomic adjustments in the EMU', *Metroeconomica*, 69(4), pp. 737–767.
- Eichengreen, B. and Wyplosz, C. (1994), 'Pourquoi le SME a explosé et comment le relancer?', *Revue Economique* no.3, May.
- European Commission (1988), '1992: the new European economy', *European Economy* no.35, March.
- European Commission (1990), 'Single market, single currency', *European Economy* no.44, October.
- European Commission (1996), 'The 1996 Single Market review. Background information for the Report of the Council and European Parliament', Commission Staff Working Paper, 16 December.
- European Commission (2007), 'Quarterly report on the euro area', no. 3.
- European Commission (2018), A new, modern Multinational Financial Framework for the EU that delivers efficiently on its priorities post-2020, *Communication from the European Commission to the European Parliament, the European Council and the Council*, 23 February.
- Fantacci, L. (2013). Why not bancor? Keynes's currency plan as a solution to global imbalances in Marcuzzo M.C., Mehrling P. and Hirai T. (eds) *Keynesian reflections, effective demand, money, finance and policies*, Oxford University Press.
- Faruqe, H. and Isard, P., Editors (1998), Exchange Rate Assessment: Extensions to the Macroeconomic Balance Approach, IMF Occasional Paper no.167, International Monetary Fund, Washington.
- Fontagné, L., Freudenberg, M. and Péridy, N. (1998), 'Intra-industry trade and the single market: quality matters', CEPR Discussion Paper no. 1953.
- Fuest, C., Heinemann, F. and Schroder, C. (2016), 'A viable insolvency procedure for Sovereigns in the euro area', *Journal of Common Market Studies*, 54(2), pp. 301–317.
- Gerlach, S. and Yiu, M.S. (2004), Estimating Output Gaps in Asia: a Cross-Country Study, *Journal of the Japanese and International Economics*, 18(1), pp. 115–136.
- Godley, W. (1999), 'Money and credit in a Keynesian model of income determination', *Cambridge Journal of Economics*, 23(4), pp. 393–411.

- Godley, W. and Cripps, F. (1983), *Macroeconomics*, Oxford University Press.
- Godley, W. and Lavoie, M. (2005), 'Comprehensive accounting in a simple open economy macroeconomics with endogenous sterilization or flexible exchange rates', *Journal of Post-Keynesian Economics*, winter, 28(2), pp. 241–276.
- Godley, W. and Lavoie, M. (2007a), *Monetary Economics: An Integrated Approach to Credit, Money, Income, Production and Wealth*, Palgrave Macmillan.
- Godley, W. and Lavoie, M. (2007b), 'A simple model of three economies with two currencies: The eurozone and the USA', *Cambridge Journal of Economics*, January, 31(1), pp. 1–24.
- Goodwin, R.M. (1967), 'A growth cycle' in *Socialism, capitalism and economic growth*, p 54–8, Cambridge University Press, Cambridge.
- Gourinchas, P.O. and Rey, H. (2005), 'International financial adjustment' Working Paper 11155 Cambridge, Mass. NBER, February.
- Hein, E. (2012), *The macroeconomics of finance-dominated capitalism- and its crisis*, Edward Elgar.
- Hervé, K. (2000), 'Comparaison des Comportements d'Exportations entre la Zone Euro, les États-Unis et le Japon, Note, B2-00-145/KH, Direction de la Prévision, Paris.
- International Monetary Fund (2008), 'De facto classification of exchange rate regimes and monetary policy frameworks', Washington DC, IMF.
- International Monetary Fund (2011): 'Enhancing international monetary stability: a role for the SDR?', prepared by the Strategy, Policy and Review Department, January.
- Italianer, A. and Pisani-Ferry, J. (1992), 'Systèmes budgétaires et amortissements des chocs régionaux: implications pour l'Union économique et monétaire', *Economie internationale*, no. 51, 3rd quarter.
- Jacquet, P. and Pisani-Ferry, J. (2000), 'La coordination des politiques économiques dans la zone euro: bilan et propositions', dans '*Questions européennes*', Rapport du Conseil d'analyse économique no. 27, La Documentation Française, pp. 17–40.
- Jeong, S.-E. and Mazier, J. (2003), 'Exchange Rate Regimes and Equilibrium Exchange Rates in East Asia', *Revue Économique*, 54, September, Presses de Sciences Po, Paris, pp. 1161–1182.
- Jeong, S.-E., Mazier, J. and Saadaoui, J. (2010), 'Exchange rate misalignments at world and European levels; a FEER approach', *International Economics*, 121, pp. 25–58.
- Jeong, S.-E., Mazier, J. and Saglio, S. (2012), 'Given the heterogeneity of Asian countries, is a monetary integration or coordination possible?' in *Diversity and transformation of Asian capitalisms* ed. R. Boyer, H. Uemura and A. Isogai, London, Routledge.
- Kalecki, M. (1965), *Theory of economic dynamics*, London, Allen and Unwin.
- Keen, S. (1995). 'Finance and economic breakdown: modeling Minsky's 'financial instability hypothesis'', *Journal of Post Keynesian Economics*, 17(4) pp. 607–635.
- Keen, S. (2013). 'A monetary Minsky model of the great moderation and the great recession', *Journal of Economic Behavior* 86 pp. 221–235.
- Keen, S. (2014). 'Endogenous money and effective demand', *Review of Keynesian Economics*, 2(3), pp. 271–291.
- Kenen, P.B. (2010): 'Reforming the global reserve regime: the role of a substitution account', *International Finance* 13(1), pp 1–23.
- Keynes, J.M. (1941), 'Proposals for an International Clearing Union'. 15 December 1941, in *Collected Writings*, Macmillan and Cambridge University Press 25, p. 74.
- Koo, R. (2008), *The Holy Grail of Macroeconomics: lessons from Japan's great recession*, Singapore, John Wiley & Sons.

- Koo, R. (2015), *The escape from balance sheet recession and the QE trap: a hazardous road for the world economy*, Wiley.
- Kwack, S.Y., Ahn, C.Y. and Lee, Y.S. (2007), Consistent Estimates of World Trade Elasticities and an Application to the effects of Chinese Yuan (RMB) Appreciation, *Journal of Asian Economics*, 18, Elsevier, pp. 314–330.
- Lane, P.R. and Milesi-Ferretti, G.M. (2007), The External Wealth of Nations Mark II: Revisited and Extended Estimates of Foreign Assets and Liabilities, 1970–2004, *Journal of International Economics*, 73, Elsevier, pp. 223–250.
- Lavoie, M. and Daigle, G., (2011), ‘A behavioural finance model of exchange rate expectations within a stock-flow consistent framework’, *Metroeconomica*, 62 (3), pp. 434–458.
- Lavoie, M. and Godley, W. (2001), ‘Kaleckian growth models in a stock and flow monetary framework: a Kaldorian view’, *Journal of Post Keynesian Economics*, 24(2), pp. 277–312.
- Lavoie, M. (2015), The euro zone crisis: a balance of payments problem or a crisis due to a flawed monetary design?, *European Journal of Economics and Economic Policies: Intervention*, 44(2), pp. 57–60.
- Lavoie, M., and Zhao, J. (2010), ‘A study of the diversification of China’s foreign reserves within a three country stock-flow consistent model’, *Metroeconomica*, 61(3), pp. 558–592.
- Le Heron, E. and Mouakil, T. (2008), ‘A Post-Keynesian stock flow consistent model for the dynamic analysis of monetary policy shocks on banking behavior’, *Metroeconomica*, 59(3), pp. 405–440.
- Mayer, T., Moberg, J. and Weistroffer, C. (2012) ‘Macroeconomics imbalances in EMU and the Eurosystem’ in *CESifo Forum Special Issues*, pp. 35–42.
- Mazier, J., Oudinet, J. and Saglio, S. (2002), « La flexibilité des prix relatifs et la mobilité du travail en Union monétaire : une comparaison Europe-Etats-Unis », *Revue de l’OFCE*, October. 83, pp. 325–388.
- Mazier, J. and Saglio, S. (2008), ‘Interdependency and adjustments in the European Union’, *International Review of Applied Economics*, 22(1), pp. 17–44.
- Mazier, J. and Tiou-Tagba Aliti, G. (2009), ‘World imbalances and macroeconomic adjustments: a stock flow three countries model’, Working paper CEPN no. 19–2009, CNRS- Université Paris Nord, http://www.univ-paris13.fr/CEPN/IMG/pdf/wp2009_19.pdf.
- Mazier, J. and Tiou-Tagba Aliti, G. (2012), ‘World imbalances and macroeconomic adjustments: a three-country stock-flow consistent model with fixed or flexible prices’, *Metroeconomica*, 63(2), pp. 358–388.
- Mazier, J. and Valdecantos, S. (2014a), A detailed representation of the Eurosystem and the current crisis of the Euro zone: A stock flow consistent approach, Working paper CEPN no. 2014-02.
- Mazier, J. and Valdecantos, S. (2014b), A multispeed Europe: Is it viable? Working paper CEPN no. 2014-03.
- Mazier, J. and Valdecantos, S. (2015), ‘A multispeed Europe: is-it viable? A Stock Flow Consistent approach’, *European Journal of Economics and Economic Policies: Intervention*, 12(1), pp. 93–102.
- Mazier, J. and Valdecantos, S. (2019), ‘From the European Monetary Union to a euro-bancor: a Stock Flow Coherent assessment’, *European Journal of Economics and Economic Policies: Intervention*, February.
- Mazier, J., On, M. and Valdecantos, S. (2014): ‘East Asian monetary regime: a SFC approach’, CEPN, Working Paper, No. 2014-11.

- Mazier, J., On, M. and Valdecantos, S. (2018), 'East Asian monetary regimes and comparison with the European case: A Stock Flow Consistent approach' in R. Boyer, H. Uemura, T. Yamada and L. Song ed. *Evolving diversity and interdependence of capitalisms*, Springer, Japan.
- Mazier, J. and Reyes, L. (2014), 'Financialized growth regime: lessons from Stock Flow Consistent Models', *Recherche et Régulation*, 16, 2nd Semester.
- Mazier, J., Clévenot, M. and Duwicquet, V. (2016), *Quand les crises reviennent*, Paris, Economica.
- McCauley, R.N. and Schenk, C.R. (2014), Reforming the IMF in the 1970s and 2000s: Would an SDR substitution account have worked? Working paper BIS, March.
- McKinnon, R. (1993), 'The rules of the game: International money in historical perspectives', *Journal of Economic Literature*, 31(1).
- Melitz, J. and Zumer, F. (1998), "Redistribution régionale et stabilisation par le gouvernement central", *Economie Internationale*, 75, 3rd Quarter.
- MIMOSA (1996), La Nouvelle Version de MIMOSA, Modèle de l'Économie Mondiale, *Revue de l'OFCE*, 58(1), pp. 103–155.
- Midelfart-Knartik, K.H., Overmann, H.G., Redding, S.J. and Venables, A.J. (2000), 'The location of European industry', *Economic papers*, 142, European Commission.
- Minsky, H. (1986), *Stabilizing an Unstable Economy*, McGraw-Hill.
- NIESR (1997), The World Model NIGEM, juillet, NIESR
- Nikiforos, M. (2016), 'A non behavioral theory of saving', *Journal of Post-Keynesian Economics*, 39(4), pp. 562–592.
- Nikiforos, M. and Zezza, G. (2017), 'Stock-flow consistent macroeconomic models: A survey', *Journal of Economic Surveys*, 30 October, pp. 1204–1239.
- Nikolaïdi, M. (2015), 'Securitization, wage stagnation and financial fragility: A stock-flow consistent perspective', *Greenwich Papers in Political Economy* 14078, Greenwich Political Economy Research Center.
- Obstfeld, M. and Rogoff, K. (2005), 'Global current account imbalances and exchange rate adjustments', *Brookings Papers on Economic Activity*, no. 1.
- OECD (2016), Economic Outlook.
- Pain, N., Mourougane, A., Sédillot, F. and Le Foulher, L. (2005), The New OECD International Trade Model, OECD Working paper no.440, August, OECD, Paris.
- Papadimitriou, D.B., Nikiforos, M. and Zezza, G. (2014), Prospects and policies for the Greek economy, Levy Economics Institute Strategic Analysis, February.
- Papadimitriou, D.B., Nikiforos, M. and Zezza, G. (2016), How long before growth and employment are resorted in Greece?, Levy Economics Institute Strategic Analysis, January.
- Piketty, T. et al. (2018), 'Manifeste pour la démocratisation de l'Europe', *Le Monde*, 11 December.
- Reinhart, C. and Rogoff, K. (2004), 'A modern history of exchange rate regimes: a reinterpretation', *Quarterly Journal of Economics*, 119(1), pp. 1–48.
- Rey, H. (2018), 'Dilemma not trilemma: the global financial cycle and monetary policy independence', NBER Working Paper 21162.
- Sawyer, M. and Passarella, M.V. (2017), 'The monetary circuit in the age of financialisation; a stock-flow consistent model with two fold banking sector', *Metroeconomica*, 68(2), pp. 321–353.
- Shimizutani, S. (2009), 'Asian Common Currency as a driving force of economic integration in East Asia: A prospect', *Asia Pacific Review*, 16(2), pp. 26–41.

- Sterdyniak, H. (2018), 'L'aveuglement européen', *Les économistes atterrés*, Working Paper, January.r.
- Stiglitz, J.E. (2009): Report of the Commission of experts of the President of the United Nations General Assembly on reforms of the International Monetary and Financial System, September.
- Stockhammer, E. (2004), Financialisation and the slowdown of accumulation, *Cambridge Journal of Economics*, 28(5), pp. 719–742.
- Taylor, L. (2004) *Reconstructing macroeconomics. Structuralist proposals and critiques of the mainstream*, Harvard University Press.
- Taylor, L. (2012), 'Growth, cycles, asset prices and finance', *Metroeconomica*, 63(1), pp. 40–63.
- Théret, B. and Coutrot, T. (2018), 'Monnaie fiscale complémentaire: sortir des impasses européiste et souverainiste', <https://blogs.mediapart.fr/Thomas-coutrot/blog/260618/>.
- Tobin, J. (1969), 'A general equilibrium approach to monetary theory', *Journal of Money, Credit, and Banking*, 1(1), pp. 15–29.
- Trichet, J.C. (2007), 'Le processus d'intégration européenne', Fondation Jean Monet pour l'Europe, European Central Bank, Communication Department.
- Triffin, R. (1960), *Gold and the dollar crisis*, New Haven, Yale University Press.
- Valdecantos, S. and Zezza, G. (2015): Reforming the international monetary system: a SFC approach, *Journal of Post-Keynesian Economics*, 38(2), pp. 167–191.
- Von Treek, T. (2008), Reconsidering the investment-profit nexus in finance-led economies: a ARDL approach, *Metroeconomica*, 59. no 3: 371–404.
- Watt, A. and Watzka, S. (2018), Overcoming euro area fragility, *IMK report* 139, June.
- Whyman, P.B. (2018), *Rethinking economic and monetary union in Europe, a post-Keynesian alternative*, London, Routledge.
- Williamson, J. (1983), *The Exchange Rate System*. 1st edition, 2nd edition 1985, Institute for International Economics, Washington.
- Williamson, J. (1998), 'The case for a common basket peg for East Asian currencies' in Collignon S., Pisani-Ferry J. and Park Y.C. (eds) *Exchange rate policies in emerging Asian countries*, Routledge.
- Wren-Lewis, S. and Driver, R.L. (1998), *Real Exchange Rates for the Year 2000*, May, Institute for International Economics, Washington
- Zezza, G. (2008), 'US growth, the housing market and the distribution of income', *Journal of Post-Keynesian Economics*, 30(3), pp. 379–405.