

1 1. Appendix

Authors	Year	Title	Included/Excluded	Reasons for excluding
Cong et al.	2017	Where to implement local biotech innovations? A framework for multi-scale socio-economic and environmental impact assessment of Green Bio-Refineries	Excluded	Paper on sustainability assessment
Pyka	2017	Dedicated innovation systems to support the transformation towards sustainability: creating income opportunities and employment in the knowledge-based digital bioeconomy	Included	-
Scheiterle et al.	2017	From commodity-based value chains to biomass-based value webs: The case of sugarcane in Brazil's bioeconomy	Included	-
Biber-Freudenberger et al	2018	Sustainability Performance of National Bio-Economies	Excluded	Paper on sustainability assessment
Carraresi et al.	2018	Emerging value chains within the bioeconomy: Structural changes in the case of phosphate recovery	Excluded	No systemic approach
Giurca & Metz	2018	A social network analysis of Germany's wood-based bioeconomy: Social capital and shared beliefs	Included	-

Loos et al.	2018	The potential of plantain residues for the Ghanaian bioeconomy-assessing the current fiber value web	Included	-
Asada et al.	2020	Effective bioeconomy? a MRIO-based socioeconomic and environmental impact assessment of generic sectoral innovations	Excluded	No systemic approach
Drejerska et al.	2020	System solutions for the circular economy on the regional level: The case of Green Lungs of Poland	Included	-
Korhonen et al.	2020	Riding a Trojan horse? Future pathways of the fiber-based packaging industry in the bioeconomy	Included	-
Lazarevic et al	2020	Finland's wood-frame multi-storey construction innovation system: Analysing motors of creative destruction	Included	-
Lovric et al	2020	Factors behind development of innovations in European forest-based bioeconomy	Included	-
Salvador et al	2020	Key aspects for designing business models for a circular bioeconomy	Included	-
Vilké & Edminaitė-Raudonė	2020	Collaboration between government and agribusiness for biogas production: Balanced development of rural sustainability	Included	-

Donner & Radic	2021	Innovative Circular Business Models in the Olive Oil Sector for Sustainable Mediterranean Agrifood Systems	Excluded	Paper on business opportunities/product-oriented (with no specific focuses on innovation systems)
Feleke et al.	2021	Circular Bioeconomy Research for Development in Sub-Saharan Africa: Innovations, Gaps, and Actions	Excluded	No systemic approach
Gatto & Re	2021	Circular Bioeconomy Business Models to Overcome the Valley of Death. A Systematic Statistical Analysis of Studies and Projects in Emerging Bio-Based Technologies and Trends Linked to the SME Instrument Support	Excluded	No systemic approach
Taffuri et al.	2021	Integrating circular bioeconomy and urban dynamics to define an innovative management of bio-waste: The study case of Turin	Included	-
Viaggi et al.	2021	The Bioeconomy in economic literature: looking back, looking ahead	Excluded	Innovation is not the main focus
Bogner & Dahlke	2022	Born to transform? German bioeconomy policy and research projects for transformations towards sustainability	Included	-
Bueno et al.	2022	Bioenergy emerging paradigm: Collaborative networks and determinants in the upgrading process of technological frontiers	Included	-

Chmielinski&Wieliczko	2022	Research and innovation challenges for better policies in food systems and bioeconomy transitions – evidence from Poland	Included	-
D'Amato et al.	2022	Circular bioeconomy: Actors and dynamics of knowledge co-production in Finland	Included	-
Laasonen	2022	Exposing the role of relational capabilities in business–research–government cooperation: examples from the transition towards a bioeconomy in Finland	Included	-
Orozco & Grundmann	2022	Readiness for Innovation of Emerging Grass-Based Businesses	Included	-
Alfano et al	2023	The green to circular bioeconomy transition: Innovation and resilience among Italian enterprises	Included	-
Donner & de Vries	2023	Innovative Business Models for a Sustainable Circular Bioeconomy in the French Agrifood Domain	Included	-
Hurtado & Barbel	2023	Learning, knowledge, and the role of government: a qualitative system dynamics analysis of Andalusia's circular bioeconomy	Included	-
Kamath et al.	2023	The green-restructuring of clusters: investigating a biocluster's transition using a complex adaptive system model	Included	-

Lang et al.	2023	The Role of Consumers in Business Model Innovations for a Sustainable Circular Bioeconomy	Included	-
Losacker et al.	2023	Rethinking bioeconomy innovation in sustainability transitions	Included	-
Rijio et al.	2023	Technical and market analysis of biomass gasification: Case study in Alentejo, Portugal	Excluded	No focus on innovation process and no analysis of stakeholders
Torre et al.	2023	A collaborative and multidisciplinary approach to knowledge-based rural development: 25 years of the PSDR program in France	Included	-