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Auteurs: Alejandro Padilla-Rivera, Sara Russo-Garrido, & Nicolas Merveille
Authors:

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Supplementary Material

Key features of the studies reviewed for social dimension of CE

Code	Reference	Geographic context	Goal	Scale (level)	industrial sector	Research type
1	(Allam and Jones, 2018)	Australia	To develop a sociotechnical framework to consider the use of transformed plastic wastes	Macro	Waste Management	Case study
2	(Aquilani et al., 2018)	Italy	To investigate the trade-offs of the spatial, temporal and social dimension of urban growth	Micro	Waste Management	Theoretical approach
3	(Amenta and van Timmeren, 2018)	Italy	To propose a framework to integrate key features of corporate sustainability to contribute to build bio-economies	Micro	Not specified	Theoretical approach
4	(Weslynn S. Ashton and Bain, 2012)	USA	To develop a conceptual framework to identify and measure social characteristics of wastes management	Micro	Waste Management	Theoretical approach
5	(Avdiushchenko, 2018)	Poland	To develop a regional monitoring framework to be used as an instrument for faster implementation of CE model	Macro	Not specified	Theoretical approach
6	(Azevedo et al., 2017)	Portugal	To assess corporate sustainability under a CE context to contribute the innovation of enterprises	Micro	Manufacture	Analytical assessment
7	(Biber-Freudenberger et al., 2018)	Germany	To improve understanding of sustainability implications of the supply and demand of bio-based products	Micro	High-tech (biotechnology)	Analytical assessment
8	(Boons et al., 2011)	The Netherlands	To propose a theoretical framework, which addresses bounded clusters of firms	Macro	Not specified	Theoretical approach
9	(Borrello et al., 2017)	Italy	To carry out an assessment regarding to the participation of consumers to circular agri-food loops to reduce wastes	Micro	Waste Management (food)	Case study
10	(Chaudhary and Vrat, 2018)	India	To develop a system dynamics model to study the sustainable benefits of circular flow of gold in cell phones supply chain	Macro	Waste Management (cellphones/gold)	Case study
11	(Chen et al., 2019)	UK	To understand the socio-economic implications of recovering nutrients from residues to recirculate to the next crop as an example of BE	Micro	Waste Management (food) and fertilizers	Analytical assessment
12	(Xue et al., 2010b)	China	To provide initial insight into awareness of municipal government officials with respect to the promotion process of CE	Macro	Urban area	Survey
13	(Chiappetta Jabbour et al., 2019)	France	To develop an integrate theoretical framework incorporating the role of Green Human Resource Management in further CE practices and policy	Micro	Not specified	Theoretical approach
14	(D'Amato et al., 2019)	Finland	Compare closed-looped economies (CE, BE, and GE)	Not mentioned	Not specified	Analytical assessment

15	(Dietz et al., 2018)	Germany	To develop and information tool that enables national and international policy makers to learn from other counties' BE strategies	Macro	Not specified	Analytical assessment
16	(Puppim de Oliveira et al., 2013a)	Japan	To link the concepts of governance and green economy in cities by identifying the key economic process in urban areas and assessing good governance	Macro	Urban area	Analytical assessment
17	(Domenech et al., 2019)	UK	To provide a descriptive mapping of IS and to identify key characteristics of IS networks.	Meso	Manufacture	Analytical assessment
18	(Doménech et al., 2011)	UK	To analyze the mechanisms in the building of trust and embeddedness and identify phases in cooperation leading effective IS exchanges	Meso	Waste Management	Theoretical approach
19	(Pitkänen et al., 2016)	Finland	To increase understanding of transition to GE by exploring qualitatively a range of practical GE cases from different fields	Macro	Energy, Wood, Wastes	Analytical assessment
20	(Egenolf et al., 2019)	Germany	To develop a framework for the evaluation of the sustainability of the BE, considering economic, social and environmental dimensions	Macro	Not specified	Theoretical approach
21	(Fischer and Pascucci, 2017)	The Netherlands	To compare empirical evidence on CE from textile industry to build a cohesive conceptual framework	Micro	Textile	Analytical assessment
22	(Geissdoerfer et al., 2018)	UK	To discuss the sustainability performance of circular business model and circular supply chain necessary to implement	Micro	Manufacture	Analytical assessment
23	(Girard and Nocca, 2017)	Italy	To identify a tourism management model able to produce multidimensional benefits, and reduce costs	Macro	Tourism	Analytical assessment
24	(Gutberlet et al., 2017)	Canada	To address the challenge of expanding the social and political aspects of the CE concept, making social benefits more sustainable and less paternalistic	Macro	Waste Management	Case study
25	(Hagemann et al., 2016)	Germany	Identify influence factors for the future development of a wood BE	Macro	Wood	Survey
26	(He et al., 2018a)	China	To investigate what drives public acceptance and rejection of chemical industrial parks policies and projects	Micro	Chemistry	Survey
27	(He et al., 2018b)	China	To understand public perception, attitude, and response and the factors underlying the support/acceptance of Chemical industrial park	Micro	Chemistry	Survey
28	(Iacovidou et al., 2017)	UK	To analyse environmental, economic, social and technical metrics used in waste management and resource recovery systems	Multiple	Waste Management	Analytical assessment
28	(Jasinevičius et al., 2017)	Finland	To assess impacts of increased domestic wood utilisation on employment, economic performance on the sector, and carbon balances in forest biomass and wood products	Macro	Wood	Case study
30	(Korhonen et al., 2018)	Sweden	To contribute to scientific research on CE by defining the concept from the perspective of sustainability	Macro	Not specified	Theoretical approach

			science. Moreover, conduct a critical analysis of the concept from the perspective of environmental sustainability			
31	(Laurenti et al., 2018a)	Sweden	To highlight the role of developing an approach to reach a wider audience to communicate the waste footprint in the context of CE	Micro	Not specified	Survey
32	(Laurenti et al., 2018b)	Sweden	To develop an integrative framework for recognising the socio-economic embeddedness of the CE	Not mentioned	Waste Management	Theoretical approach
33	(Loiseau et al., 2016)	France	To identify and describe the main theories and concepts related to a green economy and to illustrate their links to sustainability	Not mentioned	Not specified	Analytical assessment
34	(Martin and Harris, 2018)	Sweden	To analyse the environmental and socio-economic implications of an emerging network using LCA and socio-economic assessment to illustrate the implications of the firms of the network and regional sustainability	Micro	Energy, Wood, Wastes	Case study
35	(Mattila et al., 2018)	Finland	To complement local social sustainability which is often applied to forest systems with analysis of global social life cycle impacts, applying SHDB	Multiple	Wood	Case study
36	(Millar et al., 2019)	UK	To exanimate the current relationship between the CE and SD	Not mentioned	Not specified	Analytical assessment
37	(Morales et al., 2019)	France	To explore the transition phases and the learning process of IS in order to appreciate the structural transformation in this complex system embodied by the organization strategy developed between actors and organizations	Micro	Petrochemical	Case study
38	(Moreau et al., 2017b)	Switzerland	To examine the CE from a biophysical and social perspective to show that concept lacks the social and institutional dimensions to address the current material and energy throughput in the economy	Not mentioned	Not specified	Theoretical approach
39	(Murray et al., 2017)	UK	To explain the inter – and trans- disciplinary perspectives inherent in concepts of the CE that apply to the implementation of sustainable business	Not mentioned	Not specified	Analytical assessment
40	(Nahman et al., 2016)	South Africa	To develop a composite index for measuring green economic performance, based on social, economic and environmental dimensions	Macro	Not specified	Theoretical approach
41	(Pei et al., 2018)	Taiwan	To provide and overview of the interrelationship's tourism and sustainability from a cross-disciplinary perspective	Macro	Tourism	Analytical assessment
42	(Pociovălișteanu et al., 2015)	Romania	To study the situation of green jobs at the EU level and relationship between environment and employment, by analysing the link between employment and environmental policies	Macro	Green activities	Analytical assessment
43	(Rafiaani et al., 2018)	Belgium	To propose a modified system approach for a social sustainability impact assessment of the bio-based	Not mentioned	Not specified	Analytical assessment

			economy, considering all life cycle phases of the economy			
44	(Sacirovic et al., 2018)	Serbia	To give an overview of all the major problems of the city, with the tracking of generator pollutants in urban and rural parts of the city	Meso	Manufacture	Analytical assessment
45	(Sahakian, 2015)	Switzerland	To illustrate the linkages between industrial ecology and the social solidarity economy	Not mentioned	Not specified	Analytical assessment
46	(Schroeder et al., 2018)	UK	To identify relevant CE practices and synergies in the context of SDGs and its implementation	Not mentioned	Waste Management (e-wastes, municipal, wastewater)	Analytical assessment
47	(Siyambalapitiya et al., 2018)	China	To provide a quick historical overview of green growth and its evolution as research about new discourses for green growth in direction of a CE	Macro	Not specified	Analytical assessment
48	(Stern et al., 2018)	Austria	To explore how bio economy is perceived, understood and evaluated by a wider audience	Macro	Not specified	Survey
49	(Sun et al., 2017)	UK	To contribute to understanding dynamics of IS in the context of eco-industrial development	Meso	Not specified	Analytical assessment
50	(Ünal and Shao, 2019)	Italy	To examine how organizations combine CE capabilities with resources for their long-term competitive goals	Micro	Multiple	Analytical assessment
51	(Veleva et al., 2017)	USA	To propose a model for expanded zero waste practice, which includes additional indicators for measuring outcomes and impacts of circular business strategies	Micro	High-tech (pharmaceutical)	Theoretical approach
52	(Williams, 2019)	UK	To explore the challenges to looping actions within resource sectors and for specific actions	Macro	Urban area	Analytical assessment
53	(Winkler et al., 2019)	Germany	To investigate the ways in which urban garden can influence consumer behaviour and act as a potential starting point for a more sustainable lifestyle	Micro	Food	Survey
54	(Yedla and Park, 2017)	India	To analyse the key drivers to such a networking, identifies what are the conditions and strategies required at different levels, and barriers for their implementation	Meso	Not specified	Analytical assessment
55	(Zeug et al., 2019)	Germany	To capture and map the societal interests and perceptions of the most relevant stakeholder groups of BE by means of SDGs	Not mentioned	Not specified	Analytical assessment
56	(Zhang et al., 2009)	Japan	To argue the perspectives of SD of socio-economic and environmental performance, by reviewing the relevant literature of current CE and EIPs	Meso	Multiple	Analytical assessment
57	(Zhao et al., 2018)	China	To develop a framework to assess the comprehensive benefit of eco-industrial parks in terms of CE and sustainability	Meso	Multiple	Analytical assessment
58	(Zhao et al., 2017)	China	To develop a hybrid framework for evaluating the comprehensive benefit of eco-industrial parks from the perspective of CE	Meso	Multiple	Analytical assessment

59	(Zore et al., 2018)	Slovenia	To describe an upgraded concept of sustainability metric (SP) from various micro-and macroeconomic perspectives and how it can be used for the synthesis of production systems in order to increase their circularity	Meso	Energy	Analytical assessment
60	(Koumparou, 2017)	Greece	Explores the social dimension of the circular economy under a sustainable perspective and to know how circular economy recognize interconnections with society	Not mentioned	Not specified	Theoretical approach

