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Critical aspects in the life cycle assessment (LCA) of bio-based materials: Reviewing methodologies and deriving recommendations

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#	Paper	IF	Citations
194	Utilization of recovered wood in cascades versus utilization of primary wood – comparison with life cycle assessment using system expansion. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 1755-1766	4.6	48
193	Sustainability and quality in the food supply chain. A case study of shipment of edible oils. 2014 , 116, 2069-2090		42
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191	Ex-ante life cycle assessment of polymer nanocomposites using organo-modified layered double hydroxides for potential application in agricultural films. <i>Green Chemistry</i> , 2014 , 16, 4969-4984	10	36
190	Sustainable food supply chain management. 2014 , 152, 1-8		96
189	Application of the Cereal Unit in a new allocation procedure for agricultural life cycle assessments. <i>Journal of Cleaner Production</i> , 2014 , 73, 72-79	10.3	51
188	Environmental assessment of coloured fabrics and opportunities for value creation: spin-dyeing versus conventional dyeing of modal fabrics. <i>Journal of Cleaner Production</i> , 2014 , 72, 127-138	10.3	40
187	Succinic acid production derived from carbohydrates: An energy and greenhouse gas assessment of a platform chemical toward a bio-based economy. <i>Biofuels, Bioproducts and Biorefining</i> , 2014 , 8, 16-29	5.3	190
186	Challenges and Merits of Choosing Alternative Functional Units. 2015 , 64-79		1
185	Environmental advantage by choice: Ex-ante LCA for a new Kraft pulp fibre reinforced polypropylene composite in comparison to reference materials. 2015 , 79, 197-203		34
184	Review of methodological choices in LCA of biorefinery systems - key issues and recommendations. <i>Biofuels, Bioproducts and Biorefining</i> , 2015 , 9, 606-619	5.3	72
183	Pig manure treatment with housefly (<i>Musca domestica</i>) rearing – an environmental life cycle assessment. 2015 , 1, 195-214		23
182	Life Cycle Inventory and Impact Assessment Data for 2014 Ingeo® Polylactide Production. 2015 , 11, 167-180		132
181	Wood-derived phenol novolaks and their wood/epoxy biocomposites. 2015 , 132, n/a-n/a		11
180	Assessing the Environmental Impact of Flax Fibre Reinforced Polymer Composite from a Consequential Life Cycle Assessment Perspective. <i>Sustainability</i> , 2015 , 7, 11462-11483	3.6	17
179	Life cycle greenhouse gas analysis of bioenergy generation alternatives using forest and wood residues in remote locations: A case study in British Columbia, Canada. <i>Resources, Conservation and Recycling</i> , 2015 , 105, 59-72	11.9	38
178	Life cycle impact assessment of bio-based plastics from sugarcane ethanol. <i>Journal of Cleaner Production</i> , 2015 , 90, 114-127	10.3	103

177	Life cycle assessment of wood construction according to the normative standards. <i>European Journal of Wood and Wood Products</i> , 2015 , 73, 299-312	2.1	29
176	Microbial community-based polyhydroxyalkanoates (PHAs) production from wastewater: Techno-economic analysis and ex-ante environmental assessment. 2015 , 185, 368-77		101
175	Review of bio-conversion pathways of lignocellulose-to-ethanol: Sustainability assessment based on land footprint projections. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 46, 100-119	16.2	47
174	Modeling crop rotation in agricultural LCAs [Challenges and potential solutions. 2015 , 138, 66-76		44
173	Balance and saving of GHG emissions in thermochemical biorefineries. 2015 , 147, 444-455		12
172	Sustainability of biofuels and renewable chemicals production from biomass. 2015 , 29, 26-31		66
171	Cumulative Overall Resource Efficiency Assessment (COREA) for comparing bio-based products with their fossil-derived counterparts. <i>Resources, Conservation and Recycling</i> , 2015 , 102, 113-127	11.9	13
170	Environmental profile of a bio-based and biodegradable foamed packaging prototype in comparison with the current benchmark. <i>Journal of Cleaner Production</i> , 2015 , 102, 493-500	10.3	57
169	Applying opportunity costs to correctly interpret resource efficiency in LCA studies and environmental product declarations. <i>European Journal of Wood and Wood Products</i> , 2015 , 73, 251-257	2.1	7
168	Rewarding of extra-avoided GHG emissions in thermochemical biorefineries incorporating Bio-CCS. 2015 , 157, 255-266		6
167	An approach to unify the appraisal framework for biomass conversion systems. <i>Biomass and Bioenergy</i> , 2015 , 83, 354-365	5.3	13
166	Implications of a consumer-based perspective for the estimation of GHG emissions. The illustrative case of Luxembourg. <i>Science of the Total Environment</i> , 2015 , 508, 67-75	10.2	26
165	Quantifying GHG emissions savings potential in magazine paper production: a case study on supercalendered and light-weight coated papers. <i>Journal of Cleaner Production</i> , 2015 , 103, 301-308	10.3	14
164	Using atmospheric plasma to design multilayer film from polylactic acid and thermoplastic starch: a screening Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2015 , 87, 953-960	10.3	42
163	Environmental performance assessment of retrofitting existing coal fired power plants to co-firing with biomass: carbon footprint and emergy approach. <i>Journal of Cleaner Production</i> , 2015 , 103, 13-27	10.3	46
162	Socioeconomic and Environmental Considerations for Sustainable Supply and Fractionation of Lignocellulosic Biomass in a Biorefinery Context. 2016 , 611-631		4
161	Industrial Applications. 2016 , 215-227		2
160	Resource Usage Strategies and Trade-Offs between Cropland Demand, Fossil Fuel Consumption, and Greenhouse Gas Emissions Building Insulation as an Example. <i>Sustainability</i> , 2016 , 8, 613	3.6	3

159	Biokunststoffe ¶quo vadis?. 2016 , 24, 55-62		6
158	Nutzung nachwachsender Rohstoffe in Kaskaden ¶Ans¶tze zur lebenszyklusorientierten Bewertung der ¶kologischen und ¶konomischen Effekte. 2016 , 24, 63-68		1
157	LCA of Forest Products ¶ Challenges and Solutions. 2016 , 25-67		2
156	Comparative life cycle assessment of fossil and bio-based polyethylene terephthalate (PET) bottles. <i>Journal of Cleaner Production</i> , 2016 , 137, 667-676	10.3	94
155	Comparative Life Cycle Assessment of Packaging Systems for Extended Shelf Life Milk. 2016 , 29, 525-546		36
154	Preliminary integrated economic and environmental analysis of polyhydroxyalkanoates (PHAs) biosynthesis. 2016 , 3,		22
153	LCA Methodology. 2016 , 15-23		
152	Life Cycle Assessment of a coniferous wood supply chain for pallet production in Catalonia, Spain. <i>Journal of Cleaner Production</i> , 2016 , 137, 178-188	10.3	11
151	The D3 Methodology: Bridging Science and Design for Bio-Based Product Development. 2016 , 138,		7
150	Climate impact assessment in life cycle assessments of forest products: implications of method choice for results and decision-making. <i>Journal of Cleaner Production</i> , 2016 , 116, 90-99	10.3	43
149	Life cycle assessment on biogas production from straw and its sensitivity analysis. 2016 , 201, 208-14		37
148	Life Cycle Impacts of Natural Fiber Composites for Automotive Applications: Effects of Renewable Energy Content and Lightweighting. <i>Journal of Industrial Ecology</i> , 2016 , 20, 179-189	7.2	50
147	A comparison of Land Use Change models: challenges and future developments. <i>Journal of Cleaner Production</i> , 2016 , 113, 183-193	10.3	61
146	Review of life cycle assessment for biogas production in Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 1291-1300	16.2	196
145	Environmental performance of gasified willow from different lands including land-use changes. <i>GCB Bioenergy</i> , 2017 , 9, 756-769	5.6	5
144	Life Cycle and Environmental Cycle Assessment of Biodegradable Plastics for Agriculture. 2017 , 169-185		5
143	Indicators and tools for assessing sustainability impacts of the forest bioeconomy. 2017 , 4,		34
142	Environmental impacts of producing bioethanol and biobased lactic acid from standalone and integrated biorefineries using a consequential and an attributional life cycle assessment approach. <i>Science of the Total Environment</i> , 2017 , 598, 497-512	10.2	50

141	Environmental assessment of bio-based chemicals in early-stage development: a review of methods and indicators. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 701-718	5.3	25
140	Incorporating denitrification-decomposition method to estimate field emissions for Life Cycle Assessment. <i>Science of the Total Environment</i> , 2017 , 593-594, 65-74	10.2	7
139	Greenhouse gas mitigation for U.S. plastics production: energy first, feedstocks later. <i>Environmental Research Letters</i> , 2017 , 12, 034024	6.2	56
138	Resource efficiency of multifunctional wood cascade chains using LCA and exergy analysis, exemplified by a case study for Germany. <i>Resources, Conservation and Recycling</i> , 2017 , 126, 141-152	11.9	27
137	Environmental performance of social housing in emerging economies: life cycle assessment of conventional and alternative construction methods in the Philippines. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 1785-1801	4.6	11
136	Solving the multifunctionality dilemma in biorefineries with a novel hybrid mass-energy allocation method. <i>GCB Bioenergy</i> , 2017 , 9, 1674-1686	5.6	6
135	Analysis of biomass hydrothermal liquefaction and biocrude-oil upgrading for renewable jet fuel production: The impact of reaction conditions on production costs and GHG emissions performance. 2017 , 113, 1388-1398		96
134	Chemicals from biomass: technological versus environmental feasibility. A review. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 195-214	5.3	96
133	Evaluating the Potential for Harmonized Prediction and Comparison of Disposal-Stage Greenhouse Gas Emissions for Biomaterial Products. <i>Journal of Industrial Ecology</i> , 2017 , 21, 101-115	7.2	2
132	Towards sustainable <i>Rubia tinctorum</i> L. dyeing of woven fabric: How life cycle assessment can contribute. <i>Journal of Cleaner Production</i> , 2017 , 141, 1221-1230	10.3	21
131	Producing PHAs in the bioeconomy – Towards a sustainable bioplastic. <i>Sustainable Production and Consumption</i> , 2017 , 9, 58-70	8.2	160
130	Identification of Key Sustainability Performance Indicators and related assessment methods for the carbon fiber recycling sector. 2017 , 72, 833-847		15
129	Life Cycle Inventory Analysis of Prospective Insect Based Feed Production in West Africa. <i>Sustainability</i> , 2017 , 9, 1697	3.6	10
128	Bio-based plastics - A review of environmental, social and economic impact assessments. <i>Journal of Cleaner Production</i> , 2018 , 185, 476-491	10.3	190
127	Application of Life Cycle Assessment to Green Chemistry Objectives. 2018 , 1-28		
126	Comparative life cycle assessment of magnesium binders as an alternative for hemp concrete. <i>Resources, Conservation and Recycling</i> , 2018 , 133, 288-299	11.9	45
125	Segmentation of interested and less interested consumers in sports equipment made of bio-based plastic. <i>Sustainable Production and Consumption</i> , 2018 , 14, 53-65	8.2	20
124	Second-generation bio-based plastics are becoming a reality – Non-renewable energy and greenhouse gas (GHG) balance of succinic acid-based plastic end products made from lignocellulosic biomass. <i>Biofuels, Bioproducts and Biorefining</i> , 2018 , 12, 426-441	5.3	26

123	Coproducts performances in biorefineries: Development of Claiming-based allocation models for environmental policy. 2018 , 254, 31-39		9
122	A comparison of land use change accounting methods: seeking common grounds for key modeling choices in biofuel assessments. <i>Journal of Cleaner Production</i> , 2018 , 177, 52-61	10.3	11
121	Life cycle assessment of microalgae production in a raceway pond with alternative culture media. 2018 , 32, 280-292		33
120	Biomass to levulinic acid: A techno-economic analysis and sustainability of biorefinery processes in Southeast Asia. 2018 , 214, 267-275		31
119	Carbon capture and storage (CCS): the way forward. 2018 , 11, 1062-1176		1368
118	How methodological choices affect LCA climate impact results: the case of structural timber. <i>International Journal of Life Cycle Assessment</i> , 2018 , 23, 147-158	4.6	24
117	Briefing: Embodied carbon dioxide assessment in buildings: guidance and gaps. 2018 , 171, 334-341		9
116	The Impact of Food Quality Information Services on Food Supply Chain Pricing Decisions and Coordination Mechanisms Based on the O2O E-Commerce Mode. 2018 , 2018, 1-18		5
115	Sustainable Packaging. 2018 , 275-307		6
114	Social Life Cycle Approach as a Tool for Promoting the Market Uptake of Bio-Based Products from a Consumer Perspective. <i>Sustainability</i> , 2018 , 10, 1031	3.6	47
113	Assessing the Climate Change Impacts of Biogenic Carbon in Buildings: A Critical Review of Two Main Dynamic Approaches. <i>Sustainability</i> , 2018 , 10, 2020	3.6	45
112	Life cycle assessment of adipic acid production from lignin. <i>Green Chemistry</i> , 2018 , 20, 3857-3866	10	79
111	Greenhouse gas emissions of 100% bio-derived polyethylene terephthalate on its life cycle compared with petroleum-derived polyethylene terephthalate. <i>Journal of Cleaner Production</i> , 2018 , 195, 932-938	10.3	19
110	Developing Product Environmental Footprint Category Rules (PEFCR) for shampoos: The basis for comparable life cycle assessment. 2018 , 14, 649-659		12
109	Environmental Aspects of Biotechnology. 2020 , 173, 77-119		2
108	Consequential LCA and LCC using linear programming: an illustrative example of biorefineries. <i>International Journal of Life Cycle Assessment</i> , 2019 , 24, 2191-2205	4.6	9
107	Non-Fickian diffusion in biosourced materials: Prediction of the delay between relative humidity and moisture content. 2019 , 202, 109340		4
106	Water Footprint Assessment of Selected Polymers, Polymer Blends, Composites, and Biocomposites for Industrial Application. 2019 , 11,		18

105	Life Cycle Impact Assessment of Polylactic Acid (PLA) Produced from Sugarcane in Thailand. 2019 , 27, 2523-2539		59
104	Regionalised Life Cycle Assessment of Bio-Based Materials in Construction; the Case of Hemp Shiv Treated with Sol-Gel Coatings. 2019 , 12,		8
103	Eco-efficiency analysis of recycling recovered solid wood from construction into laminated timber products. <i>Science of the Total Environment</i> , 2019 , 661, 107-119	10.2	16
102	Environmental sustainability assessment of renewables-based propylene glycol at full industrial scale production. 2019 , 94, 1808-1815		7
101	The Future Agricultural Biogas Plant in Germany: A Vision. <i>Energies</i> , 2019 , 12, 396	3.1	78
100	Coupling partial-equilibrium and dynamic biogenic carbon models to assess future transport scenarios in France. 2019 , 239, 316-330		12
99	Towards an energy efficient chemistry. Switching from fossil to bio-based products in a life cycle perspective. <i>Energy</i> , 2019 , 170, 720-729	7.9	22
98	Comparative Life Cycle Assessment of HTC Concepts Valorizing Sewage Sludge for Energetic and Agricultural Use. <i>Energies</i> , 2019 , 12, 786	3.1	13
97	Life cycle assessment of forest-based biomass for bioenergy: A case study in British Columbia, Canada. <i>Resources, Conservation and Recycling</i> , 2019 , 146, 598-609	11.9	28
96	Use of bio-based polymers in agricultural exclusion nets: A perspective. 2019 , 180, 121-145		23
95	Multi-aspect evaluation of integrated forest-based biofuel production pathways: Part 2. economics, GHG emissions, technology maturity and production potentials. <i>Energy</i> , 2019 , 172, 1312-1328	7.9	7
94	Collaborating constructively for sustainable biotechnology. <i>Scientific Reports</i> , 2019 , 9, 19033	4.9	12
93	A hybrid decision support system for analyzing challenges of the agricultural supply chain. <i>Sustainable Production and Consumption</i> , 2019 , 18, 19-32	8.2	47
92	Carbon footprint considerations for biocomposite materials for sustainable products: A review. <i>Journal of Cleaner Production</i> , 2019 , 208, 785-794	10.3	31
91	A carbon footprint assessment of multi-output biorefineries with international biomass supply: a case study for the Netherlands. <i>Biofuels, Bioproducts and Biorefining</i> , 2020 , 14, 198-224	5.3	23
90	Back to the future: dynamic full carbon accounting applied to prospective bioenergy scenarios. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 1242-1258	4.6	5
89	Yeast lipid-based biofuels and oleochemicals from lignocellulosic biomass: life cycle impact assessment. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 387-398	5.8	9
88	Constraints, impacts and benefits of lignocellulose conversion pathways to liquid biofuels and biochemicals. 2020 , 249-282		1

87	The Unintended Side Effects of Bioplastics: Carbon, Land, and Water Footprints. <i>One Earth</i> , 2020 , 3, 45-53.1	53.1	52
86	Environmental Life Cycle Assessment of Rapeseed and Rapeseed Oil Produced in Northern Europe: A Latvian Case Study. <i>Sustainability</i> , 2020 , 12, 5699	3.6	22
85	Comparing the incomparable? A review of methodical aspects in the sustainability assessment of wood in vehicles. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 2217-2240	4.6	5
84	Screening Life Cycle Assessment of Tall Oil-Based Polyols Suitable for Rigid Polyurethane Foams. <i>Energies</i> , 2020 , 13, 5249	3.1	3
83	Prospective sustainability assessment: the case of wood in automotive applications. <i>International Journal of Life Cycle Assessment</i> , 2020 , 25, 2027-2049	4.6	7
82	Production routes to bio-acetic acid: life cycle assessment. <i>Biotechnology for Biofuels</i> , 2020 , 13, 154	7.8	7
81	Life Cycle Assessment of vegetable oil based polyols for polyurethane production. <i>Journal of Cleaner Production</i> , 2020 , 266, 121403	10.3	31
80	Platform and fine chemicals from woody biomass: demonstration and assessment of a novel biorefinery. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	6
79	Allocation of Environmental Impacts in Circular and Cascade Use of Resources Incentive-Driven Allocation as a Prerequisite for Cascade Persistence. <i>Sustainability</i> , 2020 , 12, 4366	3.6	6
78	Addressing temporal considerations in life cycle assessment. <i>Science of the Total Environment</i> , 2020 , 743, 140700	10.2	19
77	Biokunststoffe unter dem Blickwinkel der Nachhaltigkeit und Kommunikation. 2020 ,		
76	Life cycle assessment of bagasse fiber reinforced biocomposites. <i>Science of the Total Environment</i> , 2020 , 720, 137586	10.2	16
75	Bioeconomic transition?: Projecting consumption-based biomass and fossil material flows to 2050. <i>Journal of Industrial Ecology</i> , 2020 , 24, 1059-1073	7.2	6
74	Key performance indicators for biogas production Methodological insights on the life-cycle analysis of biogas production from source-separated food waste. <i>Energy</i> , 2020 , 200, 117462	7.9	10
73	Biodegradable Plastics: Standards, Policies, and Impacts. <i>ChemSusChem</i> , 2021 , 14, 56-72	8.3	57
72	Exploring perceptions of environmental professionals, plastic processors, students and consumers of bio-based plastics: Informing the development of the sector. <i>Sustainable Production and Consumption</i> , 2021 , 26, 574-587	8.2	15
71	End-of-life and waste management of disposable beverage cups. <i>Science of the Total Environment</i> , 2021 , 763, 143044	10.2	2
70	The role of life cycle assessment in agricultural systems. 2021 , 117-141		

69	Production of HMF, FDCA and their derived products: a review of life cycle assessment (LCA) and techno-economic analysis (TEA) studies. <i>Green Chemistry</i> , 2021 , 23, 3154-3171	10	23
68	Environmental competitiveness evaluation by life cycle assessment for solid fuels generated from <i>Sida hermaphrodita</i> biomass. <i>Biomass and Bioenergy</i> , 2021 , 145, 105966	5.3	2
67	Towards aromatics from biomass: Prospective Life Cycle Assessment of bio-based aniline. <i>Journal of Cleaner Production</i> , 2021 , 290, 125818	10.3	3
66	Life Cycle Assessment of Agricultural Wood Production Methodological Options: a Literature Review. <i>Bioenergy Research</i> , 2021 , 14, 492-509	3.1	2
65	Metrics on the sustainability of region-specific bioplastics production, considering global land use change effects. <i>Resources, Conservation and Recycling</i> , 2021 , 167, 105345	11.9	14
64	Integration of market aspects into material development: approach and exemplification for a wood composite. <i>European Journal of Wood and Wood Products</i> , 2021 , 79, 1325	2.1	
63	Comparative life cycle assessment of bio-based insulation materials: Environmental and economic performances. <i>GCB Bioenergy</i> , 2021 , 13, 979-998	5.6	6
62	More sustainable biomass production and biorefining to boost the bioeconomy. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 1221-1232	5.3	3
61	Life cycle assessment of sewage sludge treatment and disposal based on nutrient and energy recovery: A review. <i>Science of the Total Environment</i> , 2021 , 769, 144451	10.2	34
60	Environmental performance comparison of bioplastics and petrochemical plastics: A review of life cycle assessment (LCA) methodological decisions. <i>Resources, Conservation and Recycling</i> , 2021 , 168, 105451	11.9	58
59	Life cycle assessment (LCA): informing the development of a sustainable circular bioeconomy?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200352	3	5
58	Life cycle assessment of biobased chemicals from different agricultural feedstocks. <i>Journal of Cleaner Production</i> , 2021 , 323, 129201	10.3	3
57	Environmental performance of bioplastic packaging on fresh food produce: A consequential life cycle assessment. <i>Journal of Cleaner Production</i> , 2021 , 317, 128377	10.3	8
56	On the embodied carbon of structural timber versus steel, and the influence of LCA methodology. <i>Building and Environment</i> , 2021 , 206, 108285	6.5	4
55	Integrating Life Cycle Assessment and Eco-design Strategies for a Sustainable Production of Bio-based Plastics. 2018 , 487-497		4
54	Environmental Use of Wood Resources. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016 , 1-18	0.9	1
53	Potential of integrating industrial waste heat and solar thermal energy into district heating networks in Germany. <i>Energy</i> , 2020 , 203, 117812	7.9	27
52	Conceptual vision of bioenergy sector development in Mediterranean regions based on decentralized thermochemical systems. <i>Sustainable Energy Technologies and Assessments</i> , 2017 , 23, 33-47	4.7	17

51	Novel integrated agricultural land management approach provides sustainable biomass feedstocks for bioplastics and supports the UK Net-zero target. <i>Environmental Research Letters</i> , 2021 , 16, 014023	6.2	5
50	Environmental sustainability of biofuels: a review. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200351	2.4	53
49	Environment-Related Issues. 2015 , 199-220		1
48	Life Cycle Assessment of renewable filler material (biochar) produced from perennial grass (Miscanthus). <i>AIMS Energy</i> , 2019 , 7, 430-440	1.8	11
47	Recovery of Acetic Acid from An Ethanol Fermentation Broth by Liquid-Liquid Extraction (LLE) Using Various Solvents. <i>Korean Chemical Engineering Research</i> , 2015 , 53, 695-702		5
46	Green Chemistry and Ecological Engineering as a Framework for Sustainable Development. 97-126		
45	Appendix A Supplemental Readings. 521-547		
44	Matrices for Natural Fiber Composites. 2015 , 93-126		
43	Call for Environmental Impact Assessment of Bio-based Dyeing An Overview. 2018 , 73-93		
42	Ökologische Nachhaltigkeitsbewertung von Biokunststoffen. 2020 , 27-54		
41	Einschätzung von Biokunststoffen in der Bevölkerung und bei KüferInnen in Deutschland. 2020 , 159-181		
40	Potencial de Biomasa en América del Sur para la Producción de Bioplásticos. Una Revisión. <i>Revista Política</i> , 2021 , 48, 7-20	0.2	1
39	Asking Instead of Telling Recommendations for Developing Life Cycle Assessment Within Technical R&D Projects. <i>Sustainable Production, Life Cycle Engineering and Management</i> , 2021 , 173-188	0.4	1
38	Advancing bioeconomy monitorings: A case for considering bioplastics. <i>Sustainable Production and Consumption</i> , 2022 , 30, 255-268	8.2	1
37	Sustainability of biomass-based insulation materials in buildings: Current status in France, end-of-life projections and energy recovery potentials. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 156, 111962	16.2	11
36	Policy intervention and its consequences on the environment to combat climate change A case from Bhutan. <i>International Journal of Energy Applications and Technologies</i> , 2021 , 8, 132-142	0.1	
35	Bioplastics for a circular economy.. <i>Nature Reviews Materials</i> , 2022 , 1-21	73.3	49
34	Does renewable mean good for climate? Biogenic carbon in climate impact assessments of biomass utilization. <i>GCB Bioenergy</i> ,	5.6	2

33	Design of biobased supply chains on a life cycle basis: A bi-objective optimization model and a case study of biobased polyethylene terephthalate (PET). <i>Sustainable Production and Consumption</i> , 2022 , 30, 706-719	8.2	3
32	Land-use change and valorisation of feedstock side-streams determine the climate mitigation potential of bioplastics. <i>Resources, Conservation and Recycling</i> , 2022 , 180, 106185	11.9	2
31	Bridging Modeling and Certification to Evaluate Low-ILUC-Risk Practices for Biobased Materials with a User-Friendly Tool. <i>Sustainability</i> , 2022 , 14, 2030	3.6	1
30	How Different Tools Contribute to Climate Change Mitigation in a Circular Building Environment? A Systematic Literature Review. <i>Sustainability</i> , 2022 , 14, 3759	3.6	0
29	Cost-optimal pathways towards net-zero chemicals and plastics based on a circular carbon economy. <i>Computers and Chemical Engineering</i> , 2022 , 107798	4	0
28	The embodied carbon of mass timber and concrete buildings in Australia: An uncertainty analysis. <i>Building and Environment</i> , 2022 , 214, 108944	6.5	1
27	Using lignin from local biorefineries for asphalts: LCA case study for the Netherlands. <i>Journal of Cleaner Production</i> , 2022 , 343, 131063	10.3	1
26	Hydrothermal Synthesis of Biphasic Calcium Phosphate from Cuttlebone Assisted by the Biosurfactant L-rhamnose Monohydrate for Biomedical Materials. <i>ChemEngineering</i> , 2021 , 5, 88	2.6	2
25	Life cycle assessment of simultaneous pyrethroid extraction in soil matrices: A comparative study with QuEChERS method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022 , 1017, 012018	0.3	
24	A Comparison of Functional Fillers Greenhouse Gas Emissions and Air Pollutants from Lignin-Based Filler, Carbon Black and Silica. <i>Sustainability</i> , 2022 , 14, 5393	3.6	1
23	Recent innovations in bionanocomposites-based food packaging films A comprehensive review. <i>Food Packaging and Shelf Life</i> , 2022 , 33, 100877	8.2	0
22	Assessing the anthropogenic carbon emission of wooden construction: an LCA study. <i>Building Research and Information</i> , 1-20	4.3	1
21	A general framework for including biogenic carbon emissions and removals in the life cycle assessments for forestry products.		
20	Use phase and end-of-life modeling of biobased biodegradable plastics in life cycle assessment: a review.		1
19	Environmental impact assessment of cascading use of wood in bio-fuels and bio-chemicals. 2022 , 186, 106588		2
18	The Role of the Social Licence to Operate in the Emerging Bioeconomy A Case Study of Short-Rotation Coppice Poplar in Slovakia. 2022 , 11, 1555		0
17	Techno-economic and environmental assessment of polylactic acid production integrated with the sugarcane value chain. 2022 , 34, 244-256		0
16	Making more from bio-based platforms: life cycle assessment and techno-economic analysis of N-vinyl-2-pyrrolidone from succinic acid. 2022 , 24, 6671-6684		0

15	Environmental Performance of Oxidized Kraft Lignin-Based Products. 2022 , 14, 10897	0
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