Helmut Haberl

List of Publications by Year
in descending order

189 papers	19,314 citations	10389 72 h-index	12597 132 g-index
210 all docs	210 docs citations	210 times ranked	16167 citing authors

#	Article	IF	Citations
1	Quantifying and mapping the human appropriation of net primary production in earth's terrestrial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12942-12947.	7.1	1,302
2	Growth in global materials use, GDP and population during the 20th century. Ecological Economics, 2009, 68, 2696-2705.	5.7	873
3	Future urban land expansion and implications for global croplands. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8939-8944.	7.1	757
4	Global human appropriation of net primary production doubled in the 20th century. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10324-10329.	7.1	501
5	Bioenergy and climate change mitigation: an assessment. GCB Bioenergy, 2015, 7, 916-944.	5.6	494
6	How much landâ€based greenhouse gas mitigation can be achieved without compromising food security and environmental goals?. Global Change Biology, 2013, 19, 2285-2302.	9.5	454
7	Unexpectedly large impact of forest management and grazing on global vegetation biomass. Nature, 2018, 553, 73-76.	27.8	422
8	Global socioeconomic material stocks rise 23-fold over the 20th century and require half of annual resource use. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1880-1885.	7.1	409
9	A systematic review of the evidence on decoupling of GDP, resource use and GHG emissions, part II: synthesizing the insights. Environmental Research Letters, 2020, 15, 065003.	5.2	357
10	Challenges for land system science. Land Use Policy, 2012, 29, 899-910.	5.6	320
11	Safe and just operating spaces for regional social-ecological systems. Global Environmental Change, 2014, 28, 227-238.	7.8	311
12	Global patterns of socioeconomic biomass flows in the year 2000: A comprehensive assessment of supply, consumption and constraints. Ecological Economics, 2008, 65, 471-487.	5.7	298
13	Challenges and opportunities in mapping land use intensity globally. Current Opinion in Environmental Sustainability, 2013, 5, 484-493.	6.3	279
14	Ruminants, climate change and climate policy. Nature Climate Change, 2014, 4, 2-5.	18.8	276
15	Transitions in European land-management regimes between 1800 and 2010. Land Use Policy, 2015, 49, 53-64.	5.6	261
16	A socioâ€metabolic transition towards sustainability? Challenges for another Great Transformation. Sustainable Development, 2011, 19, 1-14.	12.5	254
17	Largeâ€scale bioenergy from additional harvest of forest biomass is neither sustainable nor greenhouse gas neutral. GCB Bioenergy, 2012, 4, 611-616.	5.6	252
18	Progress towards sustainability? What the conceptual framework of material and energy flow accounting (MEFA) can offer. Land Use Policy, 2004, 21, 199-213.	5.6	251

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19	A research agenda for improving national Ecological Footprint accounts. Ecological Economics, 2009, 68, 1991-2007.	5.7	239
20	A conceptual framework for analysing and measuring land-use intensity. Current Opinion in Environmental Sustainability, 2013, 5, 464-470.	6.3	236
21	The global technical potential of bio-energy in 2050 considering sustainability constraints. Current Opinion in Environmental Sustainability, 2010, 2, 394-403.	6.3	225
22	Exploring the biophysical option space for feeding the world without deforestation. Nature Communications, 2016, 7, 11382.	12.8	221
23	Calculating national and global ecological footprint time series: resolving conceptual challenges. Land Use Policy, 2004, 21, 271-278.	5.6	207
24	Challenges for Social-Ecological Transformations: Contributions from Social and Political Ecology. Sustainability, 2017, 9, 1045.	3.2	207
25	Land System Science: between global challenges and local realities. Current Opinion in Environmental Sustainability, 2013, 5, 433-437.	6.3	204
26	Beyond Technology: Demand-Side Solutions for Climate Change Mitigation. Annual Review of Environment and Resources, 2016, 41, 173-198.	13.4	204
27	Global bioenergy potentials from agricultural land in 2050: Sensitivity to climate change, diets and yields. Biomass and Bioenergy, 2011, 35, 4753-4769.	5.7	202
28	A comprehensive global 5Âmin resolution land-use data set for the year 2000 consistent with national census data. Journal of Land Use Science, 2007, 2, 191-224.	2.2	195
29	Human Appropriation of Net Primary Production: Patterns, Trends, and Planetary Boundaries. Annual Review of Environment and Resources, 2014, 39, 363-391.	13.4	193
30	Contributions of sociometabolic research to sustainability science. Nature Sustainability, 2019, 2, 173-184.	23.7	192
31	Land-use change and socio-economic metabolism in Austriaâ€”Part I: driving forces of land-use change: 1950â€“1995. Land Use Policy, 2003, 20, 1-20.	5.6	191
32	From LTER to LTSER: Conceptualizing the Socioeconomic Dimension of Long-term Socioecological Research. Ecology and Society, 2006, 11, .	2.3	189
33	Planetary Stewardship in an Urbanizing World: Beyond City Limits. Ambio, 2012, 41, 787-794.	5.5	189
34	Rapid growth in agricultural trade: effects on global area efficiency and the role of management. Environmental Research Letters, 2014, 9, 034015.	5.2	184
35	How to calculate and interpret ecological footprints for long periods of time: the case of Austria 1926â€“1995. Ecological Economics, 2001, 38, 25-45.	5.7	182
36	Embodied HANPP: Mapping the spatial disconnect between global biomass production and consumption. Ecological Economics, 2009, 69, 328-334.	5.7	182

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37	Correcting a fundamental error in greenhouse gas accounting related to bioenergy. Energy Policy, 2012, 45, 18-23.	8.8	182
38	Linking pattern and process in cultural landscapes. An empirical study based on spatially explicit indicators. Land Use Policy, 2004, 21, 289-306.	5.6	176
39	Ten facts about land systems for sustainability. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	157
40	The Energetic Metabolism of Societies Part I: Accounting Concepts. Journal of Industrial Ecology, 2001, 5, 11-33.	5.5	148
41	Land management: data availability and process understanding for global change studies. Global Change Biology, 2017, 23, 512-533.	9.5	142
42	Archetypical patterns and trajectories of land systems in Europe. Regional Environmental Change, 2018, 18, 715-732.	2.9	142
43	Biodiversity policy beyond economic growth. Conservation Letters, 2020, 13, e12713.	5.7	141
44	Coâ€benefits, tradeâ€offs, barriers and policies for greenhouse gas mitigation in the agriculture, forestry and other land use (<scp>AFOLU</scp>) sector. Global Change Biology, 2014, 20, 3270-3290.	9.5	137
45	Analyzing the global human appropriation of net primary production â€” processes, trajectories, implications. An introduction. Ecological Economics, 2009, 69, 250-259.	5.7	135
46	From teleconnection to telecoupling: taking stock of an emerging framework in land system science. Journal of Land Use Science, 2016, 11, 131-153.	2.2	132
47	Ecological footprint time series of Austria, the Philippines, and South Korea for 1961â€“1999: comparing the conventional approach to an â€˜actual land areaâ€™ approach. Land Use Policy, 2004, 21, 261-269.	5.6	131
48	Bias in the attribution of forest carbon sinks. Nature Climate Change, 2013, 3, 854-856.	18.8	129
49	The process of industrialization from the perspective of energetic metabolism. Ecological Economics, 2002, 41, 177-201.	5.7	121
50	Ecological footprints and human appropriation of net primary production: a comparison. Land Use Policy, 2004, 21, 279-288.	5.6	118
51	Land system change and food security: towards multi-scale land system solutions. Current Opinion in Environmental Sustainability, 2013, 5, 494-502.	6.3	117
52	A Portfolio Approach to Analyzing Complex Human-Environment Interactions: Institutions and Land Change. Ecology and Society, 2006, 11, .	2.3	113
53	Cascade utilization of biomass: strategies for a more efficient use of a scarce resource. Ecological Engineering, 2000, 16, 111-121.	3.6	109
54	Dependency of global primary bioenergy crop potentials in 2050 on food systems, yields, biodiversity conservation and political stability. Energy Policy, 2012, 47, 260-269.	8.8	108

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55	Biomass turnover time in terrestrial ecosystems halved by land use. Nature Geoscience, 2016, 9, 674-678.	12.9	108
56	Household time use, carbon footprints, and urban form: a review of the potential contributions of everyday living to the 1.5 Â°C climate target. Current Opinion in Environmental Sustainability, 2018, 30, 7-17.	6.3	108
57	Human appropriation of net primary production and species diversity in agricultural landscapes. Agriculture, Ecosystems and Environment, 2004, 102, 213-218.	5.3	106
58	The Material Stockâ€“Flowâ€“Service Nexus: A New Approach for Tackling the Decoupling Conundrum. Sustainability, 2017, 9, 1049.	3.2	106
59	Tons, joules, and money: Modes of production and their sustainability problems. Society and Natural Resources, 1997, 10, 61-85.	1.9	102
60	Europeâ€™s other debt crisis caused by the long legacy of future extinctions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7342-7347.	7.1	102
61	Conceptualizing energy services: A review of energy and well-being along the Energy Service Cascade. Energy Research and Social Science, 2019, 53, 47-58.	6.4	96
62	Cropland area embodied in international trade: Contradictory results from different approaches. Ecological Economics, 2014, 104, 140-144.	5.7	95
63	A systematic review of the evidence on decoupling of GDP, resource use and GHG emissions, part I: bibliometric and conceptual mapping. Environmental Research Letters, 2020, 15, 063002.	5.2	93
64	Sustainable development: socioâ€economic metabolism and colonization of nature. International Social Science Journal, 1998, 50, 573-587.	1.6	91
65	Towards an integrated model of socioeconomic biodiversity drivers, pressures and impacts. A feasibility study based on three European long-term socio-ecological research platforms. Ecological Economics, 2009, 68, 1797-1812.	5.7	90
66	Growing stocks of buildings, infrastructures and machinery as key challenge for compliance with climate targets. Global Environmental Change, 2020, 61, 102034.	7.8	90
67	Land use and sustainability indicators. An introduction. Land Use Policy, 2004, 21, 193-198.	5.6	88
68	The Energetic Metabolism of Societies: Part II: Empirical Examples. Journal of Industrial Ecology, 2001, 5, 71-88.	5.5	87
69	Bioenergy: how much can we expect for 2050?. Environmental Research Letters, 2013, 8, 031004.	5.2	86
70	Potential for future reductions of global GHG and air pollutants from circular waste management systems. Nature Communications, 2022, 13, 106.	12.8	86
71	The global socioeconomic energetic metabolism as a sustainability problem. Energy, 2006, 31, 87-99.	8.8	84
72	Global inequalities in food consumption, cropland demand and land-use efficiency: A decomposition analysis. Global Environmental Change, 2020, 64, 102124.	7.8	79

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73	Changes in ecosystem processes induced by land use: Human appropriation of aboveground NPP and its influence on standing crop in Austria. Global Biogeochemical Cycles, 2001, 15, 929-942.	4.9	76
74	Using embodied HANPP to analyze teleconnections in the global land system: Conceptual considerations. Geografisk Tidsskrift, 2009, 109, 119-130.	0.6	76
75	Human appropriation of net primary production as determinant of avifauna diversity in Austria. Agriculture, Ecosystems and Environment, 2005, 110, 119-131.	5.3	75
76	Exploring long-term trends in land use change and aboveground human appropriation of net primary production in nine European countries. Land Use Policy, 2015, 47, 426-438.	5.6	72
77	International inequality of environmental pressures: Decomposition and comparative analysis. Ecological Indicators, 2016, 62, 163-173.	6.3	70
78	Drivers of society-nature relations in the Anthropocene and their implications for sustainability transformations. Current Opinion in Environmental Sustainability, 2017, 26-27, 32-36.	6.3	70
79	Metabolism and colonization. Modes of production and the physical exchange between societies and nature. Innovation: the European Journal of Social Science Research, 1993, 6, 415-442.	1.6	68
80	Competition for land: A sociometabolic perspective. Ecological Economics, 2015, 119, 424-431.	5.7	66
81	Bioenergy production and sustainable development: science base for policymaking remains limited. GCB Bioenergy, 2017, 9, 541-556.	5.6	66
82	Food systems in a zero-deforestation world: Dietary change is more important than intensification for climate targets in 2050. Science of the Total Environment, 2020, 735, 139353.	8.0	65
83	Long-term dynamics of terrestrial carbon stocks in Austria: a comprehensive assessment of the time period from 1830 to 2000. Regional Environmental Change, 2007, 7, 37-47.	2.9	62
84	Combining agent-based and stock-flow modelling approaches in a participative analysis of the integrated land system in Reichraming, Austria. Landscape Ecology, 2009, 24, 1149-1165.	4.2	62
85	Industrialization, Fossil Fuels, and the Transformation of Land Use. Journal of Industrial Ecology, 2008, 12, 686-703.	5.5	61
86	India's biophysical economy, 1961â€“2008. Sustainability in a national and global context. Ecological Economics, 2012, 76, 60-69.	5.7	60
87	Considering sustainability thresholds for BECCS in IPCC and biodiversity assessments. GCB Bioenergy, 2021, 13, 510-515.	5.6	60
88	High-Resolution Maps of Material Stocks in Buildings and Infrastructures in Austria and Germany. Environmental Science & Technology, 2021, 55, 3368-3379.	10.0	57
89	Land-use change and socio-economic metabolism in Austriaâ€”Part II: land-use scenarios for 2020. Land Use Policy, 2003, 20, 21-39.	5.6	56
90	Trading Land: A Review of Approaches to Accounting for Upstream Land Requirements of Traded Products. Journal of Industrial Ecology, 2015, 19, 703-714.	5.5	55

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91	Changes in the spatial patterns of human appropriation of net primary production (HANPP) in Europe 1990â€“2006. Regional Environmental Change, 2016, 16, 1225-1238.	2.9	55
92	Natural and socioeconomic determinants of the embodied human appropriation of net primary production and its relation to other resource use indicators. Ecological Indicators, 2012, 23, 222-231.	6.3	54
93	Long-term trajectories of the human appropriation of net primary production: Lessons from six national case studies. Ecological Economics, 2012, 77, 129-138.	5.7	54
94	Contrasted greenhouse gas emissions from local versus long-range tomato production. Agronomy for Sustainable Development, 2014, 34, 593-602.	5.3	53
95	Long Term Socio-Ecological Research. , 2013, , .		52
96	From planetary to societal boundaries: an argument for collectively defined self-limitation. Sustainability: Science, Practice, and Policy, 2021, 17, 264-291.	1.9	50
97	The Energetic Metabolism of the European Union and the United States: Decadal Energy Input Time-Series with an Emphasis on Biomass. Journal of Industrial Ecology, 2008, 10, 151-171.	5.5	49
98	Prospects for a saturation of humanityâ€™s resource use? An analysis of material stocks and flows in nine world regions from 1900 to 2035. Global Environmental Change, 2021, 71, 102410.	7.8	48
99	What determines geographical patterns of the global human appropriation of net primary production?. Journal of Land Use Science, 2009, 4, 15-33.	2.2	47
100	Resource flows and land use in Austria 1950â€“2000: using the MEFA framework to monitor societyâ€“nature interaction for sustainability. Land Use Policy, 2004, 21, 215-230.	5.6	46
101	Social Ecology. , 2016, , .		45
102	Title is missing!. Human Ecology, 2003, 31, 53-86.	1.4	44
103	Human Appropriation of Net Primary Production. Science, 2002, 296, 1968-1969.	12.6	44
104	Global socioeconomic carbon stocks in long-lived products 1900â€“2008. Environmental Research Letters, 2012, 7, 034023.	5.2	43
105	Mapping and analysing cropland use intensity from a NPP perspective. Environmental Research Letters, 2016, 11, 014008.	5.2	43
106	Using and shaping the land: a long-term perspective. Land Use Policy, 2001, 18, 1-8.	5.6	42
107	Natural climate solutions versus bioenergy: Can carbon benefits of natural succession compete with bioenergy from short rotation coppice?. GCB Bioenergy, 2019, 11, 1283-1297.	5.6	42
108	Global Human Appropriation of Net Primary Production for Biomass Consumption in the European Union, 1986â€“2007. Journal of Industrial Ecology, 2015, 19, 825-836.	5.5	41

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109	The Role of Formalisation, Participation and Context in the Success of Public Involvement Mechanisms in Resource Management. Systemic Practice and Action Research, 2008, 21, 423-441.	1.7	40
110	Multiple Impacts of Land-Use/Cover Change. , 2006, , 71-116.		39
111	International trade and Austria's livestock system: Direct and hidden carbon emission flows associated with production and consumption of products. Ecological Economics, 2010, 69, 920-929.	5.7	39
112	Patterns and changes of land use and land-use efficiency in Africa 1980â€“2005: an analysis based on the human appropriation of net primary production framework. Regional Environmental Change, 2016, 16, 1507-1520.	2.9	39
113	Stocks, flows, services and practices: Nexus approaches to sustainable social metabolism. Ecological Economics, 2021, 182, 106949.	5.7	39
114	Net landâ€atmosphere flows of biogenic carbon related to bioenergy: towards an understanding of systemic feedbacks. GCB Bioenergy, 2013, 5, 351-357.	5.6	38
115	Social metabolism: a metric for biophysical growth and degrowth. , 2015, , .		35
116	Does agricultural trade reduce pressure on land ecosystems? Decomposing drivers of the embodied human appropriation of net primary production. Ecological Economics, 2021, 181, 106915.	5.7	34
117	Reviewing the scope and thematic focus of 100â€‰000 publications on energy consumption, services and social aspects of climate change: a big data approach to demand-side mitigation [*]. Environmental Research Letters, 2021, 16, 033001.	5.2	34
118	Land use intensification increasingly drives the spatiotemporal patterns of the global human appropriation of net primary production in the last century. Global Change Biology, 2022, 28, 307-322.	9.5	33
119	Formalised and Non-Formalised Methods in Resource Managementâ€”Knowledge and Social Learning in Participatory Processes: An Introduction. Systemic Practice and Action Research, 2008, 21, 381-387.	1.7	31
120	Inclusion, Transparency, and Enforcement: How the EU-Mercosur Trade Agreement Fails the Sustainability Test. One Earth, 2020, 3, 268-272.	6.8	31
121	Stock-flow relations in the socio-economic metabolism of the United Kingdom 1800â€“2017. Resources, Conservation and Recycling, 2020, 161, 104960.	10.8	31
122	Material stocks in global electricity infrastructures â€“ An empirical analysis of the power sector's stock-flow-service nexus. Resources, Conservation and Recycling, 2021, 173, 105723.	10.8	30
123	Relative effects of land conversion and land-use intensity on terrestrial vertebrate diversity. Nature Communications, 2022, 13, 615.	12.8	29
124	Energy Resources and Potentials. , 0, , 425-512.		28
125	Global Environmental Change and Historical Transitions. Innovation: the European Journal of Social Science Research, 2001, 14, 117-142.	1.6	27
126	A socioâ€ecological model for predicting impacts of landâ€use and climate change on regional plant diversity in the Austrian Alps. Global Change Biology, 2020, 26, 2336-2352.	9.5	26

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127	Greenhouse gas implications of mobilizing agricultural biomass for energy: a reassessment of global potentials in 2050 under different food-system pathways. Environmental Research Letters, 2020, 15, 034066.	5.2	25
128	Biodiversity models need to represent landâ€use intensity more comprehensively. Global Ecology and Biogeography, 2021, 30, 924-932.	5.8	25
129	Testing the Effectiveness of Environmental Variables to Explain European Terrestrial Vertebrate Species Richness across Biogeographical Scales. PLoS ONE, 2015, 10, e0131924.	2.5	25
130	Pushing the Planetary Boundaries. Science, 2012, 338, 1419-1420.	12.6	24
131	The transformation of provisioning systems from an integrated perspective of social metabolism and political economy: a conceptual framework. Sustainability Science, 2021, 16, 1405-1421.	4.9	23
132	Doing more with less: Provisioning systems and the transformation of the stock-flow-service nexus. Ecological Economics, 2021, 187, 107093.	5.7	23
133	2099 Aluminum-Lithium with Key-Locked Inserts for Aerospace Applications. Journal of Materials Engineering and Performance, 2007, 16, 584-591.	2.5	21
134	Global effects of national biomass production and consumption: Austria's embodied HANPP related to agricultural biomass in the year 2000. Ecological Economics, 2012, 84, 66-73.	5.7	21
135	Finite Land Resources and Competition. , 2014, , 35-69.		21
136	Response: complexities of sustainable forest use. GCB Bioenergy, 2013, 5, 1-2.	5.6	20
137	Global land use impacts on biomass productionâ€"a spatial-differentiated resource-related life cycle impact assessment method. International Journal of Life Cycle Assessment, 2015, 20, 440-450.	4.7	20
138	The use of steel in the United Kingdom's transport sector: A stockâ€"flowâ€"service nexus case study. Journal of Industrial Ecology, 2021, 25, 125-143.	5.5	19
139	Agroecological measures and circular economy strategies to ensure sufficient nitrogen for sustainable farming. Global Environmental Change, 2021, 69, 102313.	7.8	19
140	Indicators of sustainable land use: concepts for the analysis of societyâ€nature interrelations and implications for sustainable development. Management of Environmental Quality, 1999, 10, 177-191.	0.4	18
141	Conceptualising Long-Term Socio-ecological Research (LTSER): Integrating the Social Dimension. , 2010, , 377-398.		17
142	The stock-flow-service nexus of personal mobility in an urban context: Vienna, Austria. Environmental Development, 2022, 41, 100628.	4.1	17
143	From resource extraction to manufacturing and construction: flows of stock-building materials in 177 countries from 1900 to 2016. Resources, Conservation and Recycling, 2022, 179, 106122.	10.8	17
144	Greenhouse gas emissions of small scale ornamental plant production in Austria - A case study. Journal of Cleaner Production, 2017, 141, 1123-1133.	9.3	16

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145	On the boundary between man-made and natural emissions: Problems in defining European ecosystems. Journal of Geophysical Research, 1999, 104, 8153-8159.	3.3	14
146	Land and Water: Linkages to Bioenergy. , 0, , 1459-1526.		14
147	Conceptualizing, Observing and Comparing Socioecological Transitions. , 2007, , .		14
148	How much infrastructure is required to support decent mobility for all? An exploratory assessment. Ecological Economics, 2022, 200, 107511.	5.7	14
149	Material requirements of global electricity sector pathways to 2050 and associated greenhouse gas emissions. Journal of Cleaner Production, 2022, 358, 132014.	9.3	13
150	Beyond Inputs and Outputs: Opening the Black-Box of Land-Use Intensity. , 2016, , 93-124.		12
151	Changes in perspective needed to forge â€˜noâ€regretâ€™ forestâ€based climate change mitigation strategies. GCB Bioenergy, 2022, 14, 246-257.	5.6	12
152	Title is missing!. Population and Environment, 2001, 23, 49-70.	3.0	11
153	On the Utility of Counting Joules: Reply to Comments by Mario Giampietro. Journal of Industrial Ecology, 2008, 10, 187-192.	5.5	11
154	Land Use Competition: Ecological, Economic and Social Perspectives. , 2016, , 1-17.		10
155	Exploring the option space for land system futures at regional to global scales: The diagnostic agro-food, land use and greenhouse gas emission model BioBaM-GHG 2.0. Ecological Modelling, 2021, 459, 109729.	2.5	10
156	Conceptual and Empirical Approaches to Mapping and Quantifying Land-Use Intensity. , 2014, , 61-86.		10
157	Long-Term Socio-Ecological Research in Practice: Lessons from Inter- and Transdisciplinary Research in the Austrian Eisenwurzen. Sustainability, 2016, 8, 743.	3.2	9
158	Global human â€œpredationâ€•on plant growth and biomass. Global Ecology and Biogeography, 2020, 29, 1052-1064.	5.8	7
159	Debating transformation in multiple crises. , 2013, , 480-484.		7
160	How the European recovery program (ERP) drove France's petroleum dependency, 1948â€“1975. Environmental Innovation and Societal Transitions, 2022, 42, 268-284.	5.5	7
161	Optimal climate protection strategies for space heating. Energy Policy, 1998, 26, 1125-1135.	8.8	6
162	The interrelations of Future Global Bioenergy Potentials, Food demand, and Agricultural Technology. , 2012, , 27-52.		6

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163	Simulation of human population dynamics by a hyperlogistic time-delay equation. Journal of Theoretical Biology, 1992, 156, 499-511.	1.7	5
164	Assessment of Sustainable Land Use in Producing Biomass. , 2006, , 173-192.		5
165	A Forest Transition: Austrian Carbon Budgets 1830â€“2010. , 2016, , 417-431.		5
166	Why Legacies Matter: Merits of a Long-Term Perspective. , 2016, , 149-168.		5
167	The Fossil-Fuel-Powered Carbon Sink: Carbon Flows and Austriaâ€™s Energetic Metabolism in a Long-term Perspective. , 2007, , .		5
168	A global inventory of electricity infrastructures from 1980 to 2017: Country-level data on power plants, grids and transformers. Data in Brief, 2021, 38, 107351.	1.0	4
169	Socioeconomic Metabolism and the Human Appropriation of Net Primary Production: What Promise Do They Hold for LTSER?. , 2013, , 29-52.		4
170	Critical Scales for Long-Term Socio-ecological Biodiversity Research. , 2013, , 123-138.		4
171	Compilation of an economy-wide material flow database for 14 stock-building materials in 177 countries from 1900 to 2016. MethodsX, 2022, 9, 101654.	1.6	4
172	Biofuel in question. New Scientist, 2008, 197, 18.	0.0	3
173	Competition for Land-Based Ecosystem Services: Trade-Offs and Synergies. , 2016, , 127-147.		3
174	Socio-ecological trajectories in a rural Austrian region from 1961 to 2011: comparing the theories of Malthus and Boserup via systemic-dynamic modelling. Journal of Land Use Science, 2020, 15, 652-672.	2.2	3
175	4. Sustainability Problems and Historical Transitionsâ€”A Description in Terms of Changes in Metabolism and Colonization Strategies. , 1998, , 57-76.		3
176	Conclusions: Likely and Unlikely Pasts, Possible and Impossible Futures. , 2007, , .		3
177	Landscapeâ€relevant indicators for pressures on the Environment. Innovation: the European Journal of Social Science Research, 1998, 11, 87-106.	1.6	2
178	Human Appropriation of Net Primary Production, Stocks and Flows of Carbon, and Biodiversity. , 2013, , 313-331.		2
179	Energy Flow Analysis. , 2015, , 626-632.		1
180	Systemic Feedbacks in Global Land Use. , 2016, , 315-334.		1

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181	How Far Does the European Union Reach? Analyzing Embodied HANPP. , 2016, , 349-360.		1
182	Of Birds and Bees: Biodiversity and the Colonization of Ecosystems. , 2016, , 375-388.		1
183	Sozial-Ã¶kologische Konzepte, Modelle und Indikatoren nachhaltiger Entwicklung. Trends im Ressourcenverbrauch in Ã–sterreich. , 2006, , .		1
184	Summary for Policymakers. , 2014, , 45-64.		1
185	Africaâ€™s Land System Trajectories 1980â€“2005. , 2016, , 361-373.		0
186	Using Integrated Models to Analyse Socio-ecological System Dynamics in Long-Term Socio-ecological Research â€“ Austrian Experiences. , 2013, , 53-75.		0
187	Zusammenfassung fÃ¼r Entscheidungstragende. , 2014, , 25-64.		0
188	Kapitel 2: Land- und Forstwirtschaft, Wasser, Ã–kosysteme und BiodiversitÃt. , 2014, , 771-856.		0
189	Causer-Related Indicators for Stresses Upon the Environment. Contributions To Economics, 1993, , 475-487.	0.3	0