Edgar G Hertwich

List of Publications by Citations

183 papers	12,192 citations	57 h-index	105 g-index
205 ext. papers	14,298 ext. citations	8.3 avg, IF	7.16 L-index

#	Paper	IF	Citations
183	Carbon footprint of nations: a global, trade-linked analysis. *Environmental Science & Technology* , **2009**, 43, 6414-20	10.3	1014
182	CO2 embodied in international trade with implications for global climate policy. *Environmental Science & Technology*, **2008**, 42, 1401-7	10.3	839
181	Affluence drives the global displacement of land use. *Global Environmental Change*, **2013**, 23, 433-438	10.1	402
180	CO2 emissions from biomass combustion for bioenergy: atmospheric decay and contribution to global warming. *GCB Bioenergy*, **2011**, 3, 413-426	5.6	372
179	Integrated life-cycle assessment of electricity-supply scenarios confirms global environmental benefit of low-carbon technologies. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6277-82	11.5	358
178	Post-Kyoto greenhouse gas inventories: production versus consumption. *Climatic Change*, **2008**, 86, 51-66	4.5	307
177	Carbon, land, and water footprint accounts for the European Union: consumption, production, and displacements through international trade. *Environmental Science & Technology*, **2012**, 46, 10883-91	10.3	298
176	Environmental Impact Assessment of Household Consumption. *Journal of Industrial Ecology*, **2016**, 20, 526-536	7.2	295
175	Life cycle approaches to sustainable consumption: a critical review. *Environmental Science & Technology*, **2005**, 39, 4673-84	10.3	272
174	Consumption and the Rebound Effect: An Industrial Ecology Perspective. *Journal of Industrial Ecology*, **2008**, 9, 85-98	7.2	234
173	Evaluation of process- and input-output-based life cycle inventory data with regard to truncation and aggregation issues. *Environmental Science & Technology*, **2011**, 45, 10170-7	10.3	192
172	Pollution embodied in trade: The Norwegian case. *Global Environmental Change*, **2006**, 16, 379-387	10.1	180
171	Understanding future emissions from low-carbon power systems by integration of life-cycle assessment and integrated energy modelling. *Nature Energy*, **2017**, 2, 939-945	62.3	178
170	Human and environmental impact assessment of postcombustion CO2 capture focusing on emissions from amine-based scrubbing solvents to air. *Environmental Science & Technology*, **2010**, 44, 1496-502	10.3	159
169	Structural analysis of international trade: Environmental impacts of Norway. *Economic Systems Research*, **2006**, 18, 155-181	2.1	147
168	Human toxicity potentials for life-cycle assessment and toxics release inventory risk screening. *Environmental Toxicology and Chemistry*, **2001**, 20, 928-939	3.8	147
167	The case for consumption-based accounting of greenhouse gas emissions to promote local climate action. *Environmental Science and Policy*, **2009**, 12, 791-798	6.2	144

166	Comparative life cycle environmental assessment of CCS technologies. *International Journal of Greenhouse Gas Control*, **2011**, 5, 911-921	4.2	137
165	Life cycle assessment of a floating offshore wind turbine. *Renewable Energy*, **2009**, 34, 742-747	8.1	136
164	Mapping the carbon footprint of EU regions. *Environmental Research Letters*, **2017**, 12, 054013	6.2	128
163	Assessing the life cycle environmental impacts of wind power: A review of present knowledge and research needs. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 5994-6006	16.2	122
162	Material efficiency strategies to reducing greenhouse gas emissions associated with buildings, vehicles, and electronics□ review. *Environmental Research Letters*, **2019**, 14, 043004	6.2	115
161	Evaluating the environmental impact of products and production processes: a comparison of six methods. *Science of the Total Environment*, **1997**, 196, 13-29	10.2	115
160	Industrial ecology in integrated assessment models. *Nature Climate Change*, **2017**, 7, 13-20	21.4	113
159	Climate policy through changing consumption choices: Options and obstacles for reducing greenhouse gas emissions. *Global Environmental Change*, **2014**, 25, 5-15	10.1	112
158	Addressing biogenic greenhouse gas emissions from hydropower in LCA. *Environmental Science & Technology*, **2013**, 47, 9604-11	10.3	111
157	The Importance of Imports for Household Environmental Impacts. *Journal of Industrial Ecology*, **2006**, 10, 89-109	7.2	108
156	EFFECTS OF SECTOR AGGREGATION ON CO2 MULTIPLIERS IN MULTIREGIONAL INPUT□UTPUT ANALYSES. *Economic Systems Research*, **2014**, 26, 284-302	2.1	107
155	Investigating the Carbon Footprint of a University - The case of NTNU. *Journal of Cleaner Production* , **2013**, 48, 39-47	10.3	104
154	Life cycle assessment of a single-family residence built to either conventional- or passive house standard. *Energy and Buildings*, **2012**, 54, 470-479	7	102
153	Mapping the Carbon Footprint of Nations. *Environmental Science & Technology*, **2016**, 50, 10512-10517	10.3	102
152	Life cycle assessment of natural gas combined cycle power plant with post-combustion carbon capture, transport and storage. *International Journal of Greenhouse Gas Control*, **2011**, 5, 457-466	4.2	99
151	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. *Nature Communications*, **2019**, 10, 5229	17.4	97
150	THE LIFE CYCLE ENVIRONMENTAL IMPACTS OF CONSUMPTION. *Economic Systems Research*, **2011**, 23, 27-47	2.1	96
149	Ecological footprint of nations: Comparison of process analysis, and standard and hybrid multiregional input□utput analysis. *Ecological Economics*, **2014**, 101, 115-126	5.6	94

148	The Carbon Footprint of Norwegian Household Consumption 1999–2012. *Journal of Industrial Ecology*, **2016**, 20, 582-592	7.2	84
147	Approaches to correct for double counting in tiered hybrid life cycle inventories. *Journal of Cleaner Production*, **2009**, 17, 248-254	10.3	82
146	Parameter Uncertainty and Variability In Evaluative Fate and Exposure Models. *Risk Analysis*, **1999**, 19, 1193-1204	3.9	82
145	A Methodology for Integrated, Multiregional Life Cycle Assessment Scenarios under Large-Scale Technological Change. *Environmental Science & Technology*, **2015**, 49, 11218-26	10.3	79
144	The Bad Labor Footprint: Quantifying the Social Impacts of Globalization. *Sustainability*, **2014**, 6, 7514-7540	3.0	75
143	Concentrating-solar biomass gasification process for a 3rd generation biofuel. *Environmental Science & Technology*, **2009**, 43, 4207-12	10.3	73
142	The environmental effect of car-free housing: A case in Vienna. *Ecological Economics*, **2008**, 65, 516-530	5.6	72
141	A systematic uncertainty analysis of an evaluative fate and exposure model. *Risk Analysis*, **2000**, 20, 439-54	3.9	72
140	Integrating Global Climate Change Mitigation Goals with Other Sustainability Objectives: A Synthesis. *Annual Review of Environment and Resources*, **2015**, 40, 363-394	17.2	71
139	Global warming footprint of the electrochemical reduction of carbon dioxide to formate. *Journal of Cleaner Production*, **2015**, 104, 148-155	10.3	70
138	A decision-analytic framework for impact assessment part I: LCA and decision analysis. *International Journal of Life Cycle Assessment*, **2001**, 6, 5	4.6	67
137	Labor Embodied in Trade. *Journal of Industrial Ecology*, **2015**, 19, 343-356	7.2	64
136	A Theoretical Foundation for Life-Cycle Assessment. *Journal of Industrial Ecology*, **2000**, 4, 13-28	7.2	62
135	HARMONISING NATIONAL INPUT–OUTPUT TABLES FOR CONSUMPTION-BASED ACCOUNTING – EXPERIENCES FROM EXIOPOL. *Economic Systems Research*, **2014**, 26, 387-409	2.1	61
134	Environmental impacts of high penetration renewable energy scenarios for Europe. *Environmental Research Letters*, **2016**, 11, 014012	6.2	61
133	The Environmental Impact of Green Consumption and Sufficiency Lifestyles Scenarios in Europe: Connecting Local Sustainability Visions to Global Consequences. *Ecological Economics*, **2019**, 164, 106322	5.6	60
132	Towards a meaningful assessment of marine ecological impacts in life cycle assessment (LCA). *Environment International*, **2016**, 89-90, 48-61	12.9	60
131	Adoption and diffusion of heating systems in Norway: Coupling agent-based modeling with empirical research. *Environmental Innovation and Societal Transitions*, **2013**, 8, 42-61	7.6	60

130	Low carbon lifestyles: A framework to structure consumption strategies and options to reduce carbon footprints. *Journal of Cleaner Production*, **2016**, 139, 1033-1043	10.3	59
129	Do we need a paradigm shift in life cycle impact assessment?. *Environmental Science & Technology*, **2011**, 45, 3833-4	10.3	58
128	Trade, transport, and sinks extend the carbon dioxide responsibility of countries: An editorial essay. *Climatic Change*, **2009**, 97, 379-388	4.5	57
127	Life-cycle Assessment of Carbon Dioxide Capture for Enhanced Oil Recovery. *Chinese Journal of Chemical Engineering*, **2008**, 16, 343-353	3.2	56
126	Effects of boreal forest management practices on the climate impact of CO2 emissions from bioenergy. *Ecological Modelling*, **2011**, 223, 59-66	3	55
125	Norwegian households perception of wood pellet stove compared to air-to-air heat pump and electric heating. *Energy Policy*, **2010**, 38, 3744-3754	7.2	55
124	Environmental Impacts of Capital Formation. *Journal of Industrial Ecology*, **2018**, 22, 55-67	7.2	53
123	Environmental impacts of balancing offshore wind power with compressed air energy storage (CAES). *Energy*, **2016**, 95, 91-98	7.9	52
122	Socioeconomic metabolism as paradigm for studying the biophysical basis of human societies. *Ecological Economics*, **2015**, 119, 83-93	5.6	51
121	Economic modelling and indicators in life cycle sustainability assessment. *International Journal of Life Cycle Assessment*, **2013**, 18, 1710-1721	4.6	51
120	Life cycle assessment demonstrates environmental co-benefits and trade-offs of low-carbon electricity supply options. *Renewable and Sustainable Energy Reviews*, **2017**, 76, 1283-1290	16.2	50
119	The growing importance of scope 3 greenhouse gas emissions from industry. *Environmental Research Letters*, **2018**, 13, 104013	6.2	50
118	Exploring policy options for a transition to sustainable heating system diffusion using an agent-based simulation. *Energy Policy*, **2011**, 39, 2722-2729	7.2	49
117	Identifying important characteristics of municipal carbon footprints. *Ecological Economics*, **2010**, 70, 60-66	5.6	49
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115	Carbon mitigation in domains of high consumer lock-in. *Global Environmental Change*, **2018**, 52, 117-130	10.1	46
114	Endogenizing Capital in MRIO Models: The Implications for Consumption-Based Accounting. *Environmental Science & Technology*, **2018**, 52, 13250-13259	10.3	46
113	More caution is needed when using life cycle assessment to determine energy return on investment (EROI). *Energy Policy*, **2015**, 76, 1-6	7.2	45

112	Considering only first-order effects? How simplifications lead to unrealistic technology optimism in climate change mitigation. *Energy Policy*, **2011**, 39, 7448-7454	7.2	45
111	Assessing electric vehicle policy with region-specific carbon footprints. *Applied Energy*, **2019**, 256, 113923	10.7	44
110	Environmental implications of large-scale adoption of wind power: a scenario-based life cycle assessment. *Environmental Research Letters*, **2011**, 6, 045102	6.2	44
109	Implementing Carbon-Footprint-Based Calculation Tools in Municipal Greenhouse Gas Inventories. *Journal of Industrial Ecology*, **2010**, 14, 965-977	7.2	44
108	Deriving life cycle assessment coefficients for application in integrated assessment modelling. *Environmental Modelling and Software*, **2018**, 99, 111-125	5.2	43
107	Life cycle assessment of wood-based heating in Norway. *International Journal of Life Cycle Assessment*, **2009**, 14, 517-528	4.6	41
106	Quantifying the potential for consumer-oriented policy to reduce European and foreign carbon emissions. *Climate Policy*, **2020**, 20, S28-S38	5.3	41
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104	Prioritizing Consumption-Based Carbon Policy Based on the Evaluation of Mitigation Potential Using Input-Output Methods. *Journal of Industrial Ecology*, **2018**, 22, 540-552	7.2	40
103	High sensitivity of metal footprint to national GDP in part explained by capital formation. *Nature Geoscience*, **2018**, 11, 269-273	18.3	39
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101	Greenhouse gas emissions from the consumption of electric and electronic equipment by Norwegian households. *Environmental Science & Technology*, **2011**, 45, 8190-6	10.3	37
100	A decision-analytic framework for impact assessment. *International Journal of Life Cycle Assessment*, **2001**, 6, 265	4.6	37
99	Understanding the Climate Mitigation Benefits of Product Systems: Comment on Using Attributional Life Cycle Assessment to Estimate Climate-Change Mitigation. *Journal of Industrial Ecology*, **2014**, 18, 464-465	7.2	36
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97	Analyzing the carbon footprint from public services provided by counties. *Journal of Cleaner Production*, **2011**, 19, 1975-1981	10.3	35
96	A comment on functions, commodities and environmental impacts in an ecological–economic model. *Ecological Economics*, **2006**, 59, 1-6	5.6	35
95	Health benefits, ecological threats of low-carbon electricity. *Environmental Research Letters*, **2017**, 12, 034023	6.2	33

94	Critical review: life-cycle inventory procedures for long-term release of metals. *Environmental Science & Technology*, **2008**, 42, 4639-47	10.3	33
93	Consumption and Industrial Ecology. *Journal of Industrial Ecology*, **2008**, 9, 1-6	7.2	33
92	Intermittent rainfall in dynamic multimedia fate modeling. *Environmental Science & Technology* , **2001**, 35, 936-40	10.3	33
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86	Freshwater Vulnerability beyond Local Water Stress: Heterogeneous Effects of Water-Electricity Nexus Across the Continental United States. *Environmental Science & Technology*, **2017**, 51, 9899-9910	10.3	30
85	Environmental evaluation of power transmission in Norway. *Applied Energy*, **2013**, 101, 513-520	10.7	30
84	Shifting Trade Patterns as a Means of Reducing Global Carbon Dioxide Emissions. *Journal of Industrial Ecology*, **2009**, 13, 38-57	7.2	30
83	A comparison between the multimedia fate and exposure models CalTOX and uniform system for evaluation of substances adapted for life-cycle assessment based on the population intake fraction of toxic pollutants. *Environmental Toxicology and Chemistry*, **2005**, 24, 486-93	3.8	30
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77	Scarcity-weighted global land and metal footprints. *Ecological Indicators*, **2017**, 83, 323-327	5.8	27

76	Including impacts of particulate emissions on marine ecosystems in life cycle assessment: the case of offshore oil and gas production. *Integrated Environmental Assessment and Management*, **2011**, 7, 678-86	2.5	27
75	Increased carbon footprint of materials production driven by rise in investments. *Nature Geoscience* , **2021**, 14, 151-155	18.3	27
74	The flow of embodied carbon through the economies of China, the European Union, and the United States. *Resources, Conservation and Recycling*, **2019**, 145, 190-198	11.9	26
73	Nullius in Verba1: Advancing Data Transparency in Industrial Ecology. *Journal of Industrial Ecology*, **2018**, 22, 6-17	7.2	26
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71	Global climate targets and future consumption level: an evaluation of the required GHG intensity. *Environmental Research Letters*, **2013**, 8, 014016	6.2	24
70	Hybrid life-cycle assessment of natural gas based fuel chains for transportation. *Environmental Science & Technology*, **2006**, 40, 2797-804	10.3	24
69	Environmental Assessment of Two Waste Incineration Strategies for Central Norway (10 pp). *International Journal of Life Cycle Assessment*, **2005**, 10, 263-272	4.6	24
68	The human toxicity potential and a Strategy for Evaluating Model Performance in Life Cycle Impact Assessment. *International Journal of Life Cycle Assessment*, **2001**, 6, 106-109	4.6	24
67	Water scarcity risks mitigated or aggravated by the inter-regional electricity transmission across China. *Applied Energy*, **2019**, 238, 413-422	10.7	23
66	Fission or Fossil: Life Cycle Assessment of Hydrogen Production. *Proceedings of the IEEE*, **2006**, 94, 1785-1794	14.3	23
65	Parameter uncertainty and variability in evaluative fate and exposure models. *Risk Analysis*, **1999**, 19, 1193-204	3.9	22
64	Beyond peak emission transfers: historical impacts of globalization and future impacts of climate policies on international emission transfers. *Climate Policy*, **2020**, 20, S14-S27	5.3	22
63	Nexus Strength: A Novel Metric for Assessing the Global Resource Nexus. *Journal of Industrial Ecology*, **2018**, 22, 1473-1486	7.2	22
62	Global scenarios of resource and emission savings from material efficiency in residential buildings and cars. *Nature Communications*, **2021**, 12, 5097	17.4	22
61	Life cycle assessment of transport of electricity via different voltage levels: A case study for Nord-Trøndelag county in Norway. *Applied Energy*, **2015**, 157, 144-151	10.7	21
60	Scenarios for the environmental impact of fossil fuel power: Co-benefits and trade-offs of carbon capture and storage. *Energy*, **2012**, 45, 762-770	7.9	21
59	Exergy Analysis of the Process for Dimethyl Ether Production through Biomass Steam Gasification. *Industrial & Engineering Chemistry Research*, **2009**, 48, 10976-10985	3.9	21

58	Pollutant-specific scale of multimedia models and its implications for the potential dose. *Environmental Science & Technology*, **2001**, 35, 142-8	10.3	21
57	Multiregional environmental comparison of fossil fuel power generation—Assessment of the contribution of fugitive emissions from conventional and unconventional fossil resources. *International Journal of Greenhouse Gas Control*, **2015**, 33, 1-9	4.2	20
56	When Do Allocations and Constructs Respect Material, Energy, Financial, and Production Balances in LCA and EEIO?. *Journal of Industrial Ecology*, **2016**, 20, 67-84	7.2	18
55	Fugacity superposition: a new approach to dynamic multimedia fate modeling. *Chemosphere*, **2001**, 44, 843-53	8.4	18
54	Capital in the American carbon, energy, and material footprint. *Journal of Industrial Ecology*, **2020**, 24, 589-600	7.2	17
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52	Model-centered approach to early planning and design of an eco-industrial park around an oil refinery. *Environmental Science & Technology*, **2008**, 42, 4958-63	10.3	16
51	Hybrid life cycle assessment of a geothermal plant: From physical to monetary inventory accounting. *Journal of Cleaner Production*, **2017**, 142, 2509-2523	10.3	15
50	Comparative impact assessment of CCS portfolio: Life cycle perspective. *Energy Procedia*, **2011**, 4, 2486-2493	2.9	15
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48	Environmental Damage Assessment of Carbon Capture and Storage. *Journal of Industrial Ecology*, **2012**, 16, 407-419	7.2	14
47	ISO 14042 restricts use and development of impact assessment. *International Journal of Life Cycle Assessment*, **1998**, 3, 180-181	4.6	14
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45	Prospective Models of Society's Future Metabolism: What Industrial Ecology Has to Contribute **2016**, 21-43		13
44	The Application of Multi-regional Input-Output Analysis to Industrial Ecology. *Eco-efficiency in Industry and Science*, **2009**, 847-863		13
43	Method for endogenizing capital in the United States Environmentally-Extended Input-Output model. *Journal of Industrial Ecology*, **2019**, 23, 1410-1424	7.2	12
42	Evaluation of different CHP options for refinery integration in the context of a low carbon future. *International Journal of Greenhouse Gas Control*, **2009**, 3, 152-160	4.2	12
41	Linking service provision to material cycles: A new framework for studying the resource efficiency–climate change (RECC) nexus. *Journal of Industrial Ecology*, **2021**, 25, 260-273	7.2	11

40	Material efficiency and climate change mitigation of passenger vehicles. *Journal of Industrial Ecology*, **2021**, 25, 494-510	7.2	11
39	Representing vehicle-technological opportunities in integrated energy modeling. *Transportation Research, Part D: Transport and Environment*, **2019**, 73, 76-86	6.4	10
38	Tracing the Uncertain Chinese Mercury Footprint within the Global Supply Chain Using a Stochastic, Nested Input-Output Model. *Environmental Science & Technology*, **2019**, 53, 6814-6823	10.3	9
37	Human toxicity potentials for life-cycle assessment and toxics release inventory risk screening **2001** , 20, 928		9
36	Unraveling the Nexus: Exploring the Pathways to Combined Resource Use. *Journal of Industrial Ecology*, **2019**, 23, 241-252	7.2	9
35	Carbon fueling complex global value chains tripled in the period 1995–2012. *Energy Economics*, **2020**, 86, 104651	8.3	8
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33	Increased carbon footprint of materials production driven by rise in investments		8
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30	Including Human Health Damages due to Road Traffic in Life Cycle Assessment of Dwellings. *International Journal of Life Cycle Assessment*, **2006**, 11, 64-71	4.6	7
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28	Interactive Visualization and Industrial Ecology: Applications, Challenges, and Opportunities. *Journal of Industrial Ecology*, **2019**, 23, 520-531	7.2	6
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26	Drivers of change in US residential energy consumption and greenhouse gas emissions, 1990–2015. *Environmental Research Letters*, **2021**, 16, 034045	6.2	6
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23	Environmental Due Diligence of CO2 Capture and Utilization Technologies □Framework and application. *Energy Procedia*, **2014**, 63, 7429-7436	2.3	5

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21	Energy system decarbonization and productivity gains reduced the coupling of CO2 emissions and economic growth in 73 countries between 1970 and 2016. *One Earth*, **2021**,	8.1	5
20	Linking Housing Policy, Housing Typology, and Residential Energy Demand in the United States. *Environmental Science & Technology*, **2021**, 55, 2224-2233	10.3	5
19	Pricing indirect emissions accelerates low-carbon transition of US light vehicle sector. *Nature Communications*, **2021**, 12, 7121	17.4	4
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17	Resource depletion in life-cycle assessment. *Environmental Toxicology and Chemistry*, **1996**, 15, 1442-1448	3.8	3
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15	Material flows and GHG emissions from housing stock evolution in US counties, 2020–50. *Buildings and Cities*, **2021**, 2, 599-617	3.3	3
14	Ageing society in developed countries challenges carbon mitigation. *Nature Climate Change*, **2022**, 12, 241-248	21.4	3
13	Potential Climate Impact Variations Due to Fueling Behavior of Plug-in Hybrid Vehicle Owners in the US. *Environmental Science & Technology*, **2021**, 55, 65-72	10.3	2
12	Assessment of Low Carbon Energy Technologies: Fossil Fuels and CCS. *Energy Procedia*, **2013**, 37, 2637-2644	2.3	1
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10	Theory without practice: a reply to the note from Heijungs on the average versus marginal debate in Life Cycle Impact Assessment. *International Journal of Life Cycle Assessment*,1	4.6	1
9	Life-cycle environmental and natural resource implications of energy efficiency technologies **2017**, 263-270		1
8	Individualism and nationally determined contributions to climate change. *Science of the Total Environment*, **2021**, 777, 146076	10.2	1
7	Analysis of the Li-ion battery industry in light of the global transition to electric passenger light duty vehicles until 2050. *Environmental Research: Infrastructure and Sustainability*, **2022**, 2, 011002		1
6	Books: Environmental Life-Cycle Assessment. *Journal of Industrial Ecology*, **1997**, 1, 128-131	7.2	
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3	Comment on "intermittent rainfall in dynamic multimedia fate modeling". *Environmental Science & Technology*, **2004**, 38, 5484	10.3
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1	Correction: Material flows and GHG emissions from housing stock evolution in US counties, 2020–50. *Buildings and Cities*, **2021**, 2, 797-799	3.3