

# Heinz Schandl

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

6,162  
citations

87888

38  
h-index

74163

75  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4108  
citing authors

#	ARTICLE	IF	CITATIONS
1	The material footprint of nations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6271-6276.	7.1	1,114
2	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
3	Decoupling global environmental pressure and economic growth: scenarios for energy use, materials use and carbon emissions. Journal of Cleaner Production, 2016, 132, 45-56.	9.3	382
4	Methodology and Indicators of Economy-wide Material Flow Accounting. Journal of Industrial Ecology, 2011, 15, 855-876.	5.5	376
5	Global Material Flows and Resource Productivity: Forty Years of Evidence. Journal of Industrial Ecology, 2018, 22, 827-838.	5.5	232
6	The Global Sociometabolic Transition. Journal of Industrial Ecology, 2008, 12, 637-656.	5.5	218
7	Sustainable urban systems: Co-design and framing for transformation. Ambio, 2018, 47, 57-77.	5.5	213
8	Resource use and resource efficiency in the Asia-Pacific region. Global Environmental Change, 2010, 20, 636-647.	7.8	150
9	Accounting for the Material Stock of Nations. Journal of Industrial Ecology, 2014, 18, 407-420.	5.5	138
10	Socio-ecological regime transitions in Austria and the United Kingdom. Ecological Economics, 2008, 65, 187-201.	5.7	130
11	Australia is "free to choose" economic growth and falling environmental pressures. Nature, 2015, 527, 49-53.	27.8	130
12	Energy use and economic development: A comparative analysis of useful work supply in Austria, Japan, the United Kingdom and the US during 100years of economic growth. Ecological Economics, 2010, 69, 1904-1917.	5.7	127
13	Development and Dematerialization: An International Study. PLoS ONE, 2013, 8, e70385.	2.5	118
14	Changes in the United Kingdom's natural relations in terms of society's metabolism and land-use from 1850 to the present day. Ecological Economics, 2002, 41, 203-221.	5.7	108
15	Material Flow Accounting: Measuring Global Material Use for Sustainable Development. Annual Review of Environment and Resources, 2017, 42, 647-675.	13.4	108
16	The biophysical perspective of a middle income economy: Material flows in Mexico. Ecological Economics, 2008, 68, 317-327.	5.7	100
17	Scarcity-weighted fossil fuel footprint of China at the provincial level. Applied Energy, 2020, 258, 114081.	10.1	95
18	Assessing global resource use and greenhouse emissions to 2050, with ambitious resource efficiency and climate mitigation policies. Journal of Cleaner Production, 2017, 144, 403-414.	9.3	87

#	ARTICLE	IF	CITATIONS
19	A spatial analysis of material stock accumulation and demolition waste potential of buildings: A case study of Padua. <i>Resources, Conservation and Recycling</i> , 2019, 142, 245-256.	10.8	86
20	How important are realistic building lifespan assumptions for material stock and demolition waste accounts?. <i>Resources, Conservation and Recycling</i> , 2017, 122, 143-154.	10.8	82
21	Material Flows and Material Productivity in China, Australia, and Japan. <i>Journal of Industrial Ecology</i> , 2012, 16, 352-364.	5.5	81
22	Global Patterns and Trends for Non-Metallic Minerals used for Construction. <i>Journal of Industrial Ecology</i> , 2017, 21, 924-937.	5.5	80
23	Multi-Scale Governance of Sustainable Natural Resource Use—Challenges and Opportunities for Monitoring and Institutional Development at the National and Global Level. <i>Sustainability</i> , 2016, 8, 778.	3.2	73
24	Stochastic Analysis and Forecasts of the Patterns of Speed, Acceleration, and Levels of Material Stock Accumulation in Society. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3729-3737.	10.0	71
25	Assessing carbon footprints of cities under limited information. <i>Journal of Cleaner Production</i> , 2018, 176, 1254-1270.	9.3	70
26	The socio-economic drivers of material stock accumulation in Japan's prefectures. <i>Ecological Economics</i> , 2015, 113, 76-84.	5.7	69
27	Implementing the material footprint to measure progress towards Sustainable Development Goals 8 and 12. <i>Nature Sustainability</i> , 2022, 5, 157-166.	23.7	69
28	Measuring progress of China's circular economy. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105070.	10.8	68
29	Modeling material flows and stocks of the road network in the United States 1905–2015. <i>Resources, Conservation and Recycling</i> , 2017, 127, 168-178.	10.8	62
30	Social Metabolism and Labour in a Local Context: Changing Environmental Relations on Trinket Island. <i>Population and Environment</i> , 2001, 23, 71-104.	3.0	61
31	Material use and material efficiency in Latin America and the Caribbean. <i>Ecological Economics</i> , 2013, 94, 19-27.	5.7	61
32	Ossified materialism: introduction to the special volume on absolute reductions in materials throughput and emissions. <i>Journal of Cleaner Production</i> , 2016, 132, 1-12.	9.3	58
33	A conceptual model of the socioeconomic impacts of unconventional fossil fuel extraction. <i>Global Environmental Change</i> , 2016, 36, 101-110.	7.8	52
34	Consumption-based material flow indicators – Comparing six ways of calculating the Austrian raw material consumption providing six results. <i>Ecological Economics</i> , 2016, 128, 177-186.	5.7	46
35	Title is missing!. <i>Human Ecology</i> , 2003, 31, 53-86.	1.4	44
36	The footprint of using metals: new metrics of consumption and productivity. <i>Environmental Economics and Policy Studies</i> , 2015, 17, 369-388.	2.0	44

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37	Long term trends in resource exergy consumption and useful work supplies in the UK, 1900 to 2000. <i>Ecological Economics</i> , 2008, 68, 126-140.	5.7	42
38	The impacts of data deviations between MRIO models on material footprints: A comparison of EXIOBASE, Eora, and ICIO. <i>Journal of Industrial Ecology</i> , 2019, 23, 946-958.	5.5	42
39	Shared socio-economic pathways and their implications for global materials use. <i>Resources, Conservation and Recycling</i> , 2020, 160, 104866.	10.8	42
40	Regional Patterns in Global Resource Extraction. <i>Journal of Industrial Ecology</i> , 2008, 10, 133-147.	5.5	40
41	The Socio-Economic Metabolism of an Emerging Economy: Monitoring Progress of Decoupling of Economic Growth and Environmental Pressures in the Philippines. <i>Ecological Economics</i> , 2018, 147, 155-166.	5.7	39
42	A spatiotemporal urban metabolism model for the Canberra suburb of Braddon in Australia. <i>Journal of Cleaner Production</i> , 2020, 265, 121770.	9.3	38
43	The Dematerialization Potential of the Australian Economy. <i>Journal of Industrial Ecology</i> , 2009, 13, 863-880.	5.5	36
44	Regional material flow accounts for China: Examining China's natural resource use at the provincial and national level. <i>Journal of Industrial Ecology</i> , 2019, 23, 1425-1438.	5.5	34
45	Australia's Resource Use Trajectories. <i>Journal of Industrial Ecology</i> , 2008, 12, 669-685.	5.5	33
46	Socio-metabolic transitions in developing Asia. <i>Technological Forecasting and Social Change</i> , 2009, 76, 267-281.	11.6	33
47	Patterns of change in material use and material efficiency in the successor states of the former Soviet Union. <i>Ecological Economics</i> , 2014, 105, 211-219.	5.7	32
48	A framework of indicators for associating material stocks and flows to service provisioning: Application for Japan 1990â€“2015. <i>Journal of Cleaner Production</i> , 2021, 285, 125450.	9.3	25
49	The metabolic transition of a planned economy: Material flows in the USSR and the Russian Federation 1900 to 2010. <i>Ecological Economics</i> , 2016, 124, 76-85.	5.7	24
50	Material demand, and environmental and climate implications of Australia's building stock: Current status and outlook to 2060. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106143.	10.8	23
51	Plastic Waste Management in India: Challenges, Opportunities, and Roadmap for Circular Economy. <i>Sustainability</i> , 2022, 14, 4425.	3.2	23
52	Using land-time-budgets to analyse farming systems and poverty alleviation policies in the Lao PDR. <i>International Journal of Global Environmental Issues</i> , 2005, 5, 142.	0.1	22
53	Dirty Laundry in Manila: Comparing Resource Consumption Practices for Individual and Shared Laundering. <i>Journal of Industrial Ecology</i> , 2018, 22, 1389-1401.	5.5	22
54	Sustainability indicators from resource flow trends in the Philippines. <i>Resources, Conservation and Recycling</i> , 2018, 138, 74-86.	10.8	20

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55	Materials Use Across World Regions. <i>Journal of Industrial Ecology</i> , 2008, 12, 629-636.	5.5	17
56	Improving the knowledge base on material flow analysis for Asian developing countries: A case study of Lao PDR. <i>Resources, Conservation and Recycling</i> , 2017, 127, 179-189.	10.8	13
57	A Comprehensive Material Flow Account for Lao PDR to Inform Environmental and Sustainability Policy. <i>Journal of Industrial Ecology</i> , 2019, 23, 649-662.	5.5	13
58	Estimating the total in-use stock of Laos using dynamic material flow analysis and nighttime light. <i>Resources, Conservation and Recycling</i> , 2021, 170, 105608.	10.8	12
59	Delinking of economic growth and materials turnover. <i>Innovation: the European Journal of Social Science Research</i> , 1999, 12, 31-45.	1.6	11
60	Explanatory Variables for National Socio-Metabolic Profiles and the Question of Forecasting National Material Flows in a Globalized Economy. <i>Journal of Industrial Ecology</i> , 2018, 22, 1451-1464.	5.5	9
61	On the importance of linking inputs and outputs in material flow accounts. The Weight of Nations report revisited. <i>Journal of Cleaner Production</i> , 2018, 204, 334-343.	9.3	9
62	Do sectoral material efficiency improvements add up to greenhouse gas emissions reduction on an economy-wide level?. <i>Journal of Industrial Ecology</i> , 2021, 25, 523-536.	5.5	9
63	"Biosensitive" cities: a conceptual framework for integrative understanding of the health of people and planetary ecosystems. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 378-384.	6.3	8
64	Socioeconomic Metabolism Takes the Stage in the International Environmental Policy Debate: A Special Issue to Review Research Progress and Policy Impacts. <i>Journal of Industrial Ecology</i> , 2015, 19, 689-694.	5.5	8
65	The Great Transformation: A Socio-metabolic Reading of the Industrialization of the United Kingdom. , 2007, , .		8
66	Exploring the relationship between economic complexity and resource efficiency. <i>Resources, Conservation and Recycling</i> , 2022, 186, 106530.	10.8	7
67	Copper ore material footprints and transfers embodied in domestic and international trade of provinces in China. <i>Journal of Industrial Ecology</i> , 2022, 26, 1423-1436.	5.5	6
68	Sustainable Resource Use in the Asia-Pacific Region. <i>Journal of Industrial Ecology</i> , 2010, 14, 533-536.	5.5	5
69	Data on the domestic processed output, balancing items, and solid waste potential for five major world economies. <i>Data in Brief</i> , 2019, 22, 662-675.	1.0	5
70	Australia is 'free to choose' economic growth and falling environmental pressures. <i>Nature</i> , 2016, 534, S1-S2.	27.8	4
71	Valuing ecosystem services of urban forests and open spaces: application of the SEEA framework in Australia*. <i>Australian Journal of Agricultural and Resource Economics</i> , 2021, 65, 37-65.	2.6	4
72	Der soziale Metabolismus der Industrialisierung: Die Überwindung der energetischen Schranken des agrarischen Wirtschaftens Der soziale Metabolismus der Industrialisierung: Die Überwindung der energetischen Schranken des agrarischen Wirtschaftens. <i>Gaia</i> , 2006, 15, 285-293.	0.7	4

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73	Urban ecology and industrial ecology. , 0, , .		3
74	The Effects of Climate and Socioâ€Demographics on Direct Household Carbon Dioxide Emissions in <scp>A</scp>ustralia. Geographical Research, 2013, 51, 424-438.	1.8	3
75	Proposal for a new compilation system for metal ores in economy wide material flow accounting. Journal of Industrial Ecology, 2020, 24, 1220-1233.	5.5	3
76	Material Flow Analysis. , 2015, , 760-764.		2
77	Transition in a Contemporary Context: Patterns of Development in a Globalizing World. , 2007, , .		2
78	Challenges for Post Keynesian Growth Theory: Utopia Meets Environmental and Social Reality. , 2009, , .		0
79	Industrial ecology: the UK. , 2002, , .		0