

# Heinz Schandl

## List of Publications by Year in descending order

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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	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
2	Plastic Waste Management in India: Challenges, Opportunities, and Roadmap for Circular Economy. <i>Sustainability</i> , 2022, 14, 4425.	3.2	23
3	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
4	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
5	Exploring the relationship between economic complexity and resource efficiency. <i>Resources, Conservation and Recycling</i> , 2022, 186, 106530.	10.8	7
6	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
7	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
8	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
9	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
10	Scarcity-weighted fossil fuel footprint of China at the provincial level. <i>Applied Energy</i> , 2020, 258, 114081.	10.1	95
11	Measuring progress of China's circular economy. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105070.	10.8	68
12	Proposal for a new compilation system for metal ores in economy wide material flow accounting. <i>Journal of Industrial Ecology</i> , 2020, 24, 1220-1233.	5.5	3
13	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
14	Shared socio-economic pathways and their implications for global materials use. <i>Resources, Conservation and Recycling</i> , 2020, 160, 104866.	10.8	42
15	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
16	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
17	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
18	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

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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	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
21	Global Material Flows and Resource Productivity: Forty Years of Evidence. <i>Journal of Industrial Ecology</i> , 2018, 22, 827-838.	5.5	232
22	Explanatory Variables for National Socio-Economic 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
23	Assessing carbon footprints of cities under limited information. <i>Journal of Cleaner Production</i> , 2018, 176, 1254-1270.	9.3	70
24	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
25	Sustainable urban systems: Co-design and framing for transformation. <i>Ambio</i> , 2018, 47, 57-77.	5.5	213
26	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
27	Sustainability indicators from resource flow trends in the Philippines. <i>Resources, Conservation and Recycling</i> , 2018, 138, 74-86.	10.8	20
28	Assessing global resource use and greenhouse emissions to 2050, with ambitious resource efficiency and climate mitigation policies. <i>Journal of Cleaner Production</i> , 2017, 144, 403-414.	9.3	87
29	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
30	Global socioeconomic material stocks rise 23-fold over the 20th century and require half of annual resource use. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1880-1885.	7.1	409
31	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
32	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
33	Material Flow Accounting: Measuring Global Material Use for Sustainable Development. <i>Annual Review of Environment and Resources</i> , 2017, 42, 647-675.	13.4	108
34	Global Patterns and Trends for Non-Metallic Minerals used for Construction. <i>Journal of Industrial Ecology</i> , 2017, 21, 924-937.	5.5	80
35	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
36	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

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37	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
38	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
39	Australia is 'free to choose' economic growth and falling environmental pressures. <i>Nature</i> , 2016, 534, S1-S2.	27.8	4
40	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
41	A conceptual model of the socioeconomic impacts of unconventional fossil fuel extraction. <i>Global Environmental Change</i> , 2016, 36, 101-110.	7.8	52
42	Decoupling global environmental pressure and economic growth: scenarios for energy use, materials use and carbon emissions. <i>Journal of Cleaner Production</i> , 2016, 132, 45-56.	9.3	382
43	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
44	Material Flow Analysis. , 2015, , 760-764.		2
45	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
46	The socio-economic drivers of material stock accumulation in Japan's prefectures. <i>Ecological Economics</i> , 2015, 113, 76-84.	5.7	69
47	Australia is "free to choose" economic growth and falling environmental pressures. <i>Nature</i> , 2015, 527, 49-53.	27.8	130
48	The material footprint of nations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6271-6276.	7.1	1,114
49	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
50	Accounting for the Material Stock of Nations. <i>Journal of Industrial Ecology</i> , 2014, 18, 407-420.	5.5	138
51	Material use and material efficiency in Latin America and the Caribbean. <i>Ecological Economics</i> , 2013, 94, 19-27.	5.7	61
52	The Effects of Climate and Socio-Demographics on Direct Household Carbon Dioxide Emissions in Australia. <i>Geographical Research</i> , 2013, 51, 424-438.	1.8	3
53	Development and Dematerialization: An International Study. <i>PLoS ONE</i> , 2013, 8, e70385.	2.5	118
54	"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

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55	Material Flows and Material Productivity in China, Australia, and Japan. Journal of Industrial Ecology, 2012, 16, 352-364.	5.5	81
56	Methodology and Indicators of Economy-wide Material Flow Accounting. Journal of Industrial Ecology, 2011, 15, 855-876.	5.5	376
57	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
58	Sustainable Resource Use in the Asia-Pacific Region. Journal of Industrial Ecology, 2010, 14, 533-536.	5.5	5
59	Resource use and resource efficiency in the Asia-Pacific region. Global Environmental Change, 2010, 20, 636-647.	7.8	150
60	Socio-metabolic transitions in developing Asia. Technological Forecasting and Social Change, 2009, 76, 267-281.	11.6	33
61	The Dematerialization Potential of the Australian Economy. Journal of Industrial Ecology, 2009, 13, 863-880.	5.5	36
62	Challenges for Post Keynesian Growth Theory: Utopia Meets Environmental and Social Reality. , 2009, , .		0
63	Regional Patterns in Global Resource Extraction. Journal of Industrial Ecology, 2008, 10, 133-147.	5.5	40
64	The Global Sociometabolic Transition. Journal of Industrial Ecology, 2008, 12, 637-656.	5.5	218
65	Australia's Resource Use Trajectories. Journal of Industrial Ecology, 2008, 12, 669-685.	5.5	33
66	Materials Use Across World Regions. Journal of Industrial Ecology, 2008, 12, 629-636.	5.5	17
67	Socio-ecological regime transitions in Austria and the United Kingdom. Ecological Economics, 2008, 65, 187-201.	5.7	130
68	Long term trends in resource exergy consumption and useful work supplies in the UK, 1900 to 2000. Ecological Economics, 2008, 68, 126-140.	5.7	42
69	The biophysical perspective of a middle income economy: Material flows in Mexico. Ecological Economics, 2008, 68, 317-327.	5.7	100
70	The Great Transformation: A Socio-metabolic Reading of the Industrialization of the United Kingdom. , 2007, , .		8
71	Transition in a Contemporary Context: Patterns of Development in a Globalizing World. , 2007, , .		2
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. Gaia, 2006, 15, 285-293.	0.7	4

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73	Using land-time-budgets to analyse farming systems and poverty alleviation policies in the Lao PDR. International Journal of Global Environmental Issues, 2005, 5, 142.	0.1	22
74	Title is missing!. Human Ecology, 2003, 31, 53-86.	1.4	44
75	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
76	Industrial ecology: the UK. , 2002, , .		0
77	Social Metabolism and Labour in a Local Context: Changing Environmental Relations on Trinket Island. Population and Environment, 2001, 23, 71-104.	3.0	61
78	Delinking of economic growth and materials turnover. Innovation: the European Journal of Social Science Research, 1999, 12, 31-45.	1.6	11
79	Urban ecology and industrial ecology. , 0, , .		3