Stefan Giljum

List of Publications by Year
in descending order

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62 papers	6,503 citations	76196 40 h-index	143772 57 g-index
65 all docs	65 docs citations	65 times ranked	4177 citing authors

#	Article	IF	Citations
1	Integrating Ecological, Carbon and Water footprint into a â€œFootprint Familyâ€•of indicators: Definition and role in tracking human pressure on the planet. Ecological Indicators, 2012, 16, 100-112.	2.6	645
2	EXIOBASE 3: Developing a Time Series of Detailed Environmentally Extended Multiâ€Regional Inputâ€Output Tables. Journal of Industrial Ecology, 2018, 22, 502-515.	2.8	514
3	Methodology and Indicators of Economyâ€wide Material Flow Accounting. Journal of Industrial Ecology, 2011, 15, 855-876.	2.8	376
4	Global Sustainability Accountingâ€”Developing EXIOBASE for Multi-Regional Footprint Analysis. Sustainability, 2015, 7, 138-163.	1.6	321
5	A research agenda for improving national Ecological Footprint accounts. Ecological Economics, 2009, 68, 1991-2007.	2.9	239
6	Global Material Flows and Resource Productivity: Forty Years of Evidence. Journal of Industrial Ecology, 2018, 22, 827-838.	2.8	232
7	Materials embodied in international trade â€“ Global material extraction and consumption between 1995 and 2005. Global Environmental Change, 2012, 22, 568-576.	3.6	224
8	Towards a global multi-regional environmentally extended inputâ€“output database. Ecological Economics, 2009, 68, 1928-1937.	2.9	223
9	The material basis of the global economy. Ecological Economics, 2007, 64, 444-453.	2.9	205
10	Applying physical inputâ€“output analysis to estimate land appropriation (ecological footprints) of international trade activities. Ecological Economics, 2003, 44, 137-151.	2.9	199
11	Global patterns of ecologically unequal exchange: Implications for sustainability in the 21st century. Ecological Economics, 2021, 179, 106824.	2.9	194
12	Environmental and resource footprints in a global context: Europeâ€™s structural deficit in resource endowments. Global Environmental Change, 2016, 40, 171-181.	3.6	172
13	Measuring telecouplings in the global land system: A review and comparative evaluation of land footprint accounting methods. Ecological Economics, 2015, 114, 11-21.	2.9	155
14	Growth in Environmental Footprints and Environmental Impacts Embodied in Trade: Resource Efficiency Indicators from EXIOBASE3. Journal of Industrial Ecology, 2018, 22, 553-564.	2.8	147
15	CALCULATING ENERGY-RELATED CO₂EMISSIONS EMBODIED IN INTERNATIONAL TRADE USING A GLOBAL INPUTâ€“OUTPUT MODEL. Economic Systems Research, 2012, 24, 113-139.	1.2	137
16	Global Patterns of Material Flows and their Socio-Economic and Environmental Implications: A MFA Study on All Countries World-Wide from 1980 to 2009. Resources, 2014, 3, 319-339.	1.6	127
17	Trade, Materials Flows, and Economic Development in the South: The Example of Chile. Journal of Industrial Ecology, 2008, 8, 241-261.	2.8	123
18	Material Flows in Latin America. Journal of Industrial Ecology, 2008, 12, 704-720.	2.8	123

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19	A global-scale data set of mining areas. Scientific Data, 2020, 7, 289.	2.4	116
20	Material Footprint Assessment in a Global Inputâ€Output Framework. Journal of Industrial Ecology, 2015, 19, 792-804.	2.8	111
21	Designing an indicator of environmental responsibility. Ecological Economics, 2006, 59, 256-266.	2.9	108
22	Material Flow Accounting: Measuring Global Material Use for Sustainable Development. Annual Review of Environment and Resources, 2017, 42, 647-675.	5.6	108
23	Carbon and Materials Embodied in the International Trade of Emerging Economies. Journal of Industrial Ecology, 2012, 16, 636-646.	2.8	104
24	A comprehensive set of resource use indicators from the micro to the macro level. Resources, Conservation and Recycling, 2011, 55, 300-308.	5.3	102
25	Spatially explicit assessment of water embodied in European trade: A product-level multi-regional input-output analysis. Global Environmental Change, 2016, 38, 171-182.	3.6	98
26	Low carbon lifestyles: A framework to structure consumption strategies and options to reduce carbon footprints. Journal of Cleaner Production, 2016, 139, 1033-1043.	4.6	92
27	The Raw Material Equivalents of International Trade. Journal of Industrial Ecology, 2009, 13, 881-897.	2.8	91
28	Modelling scenarios towards a sustainable use of natural resources in Europe. Environmental Science and Policy, 2008, 11, 204-216.	2.4	90
29	Surge in global metal mining threatens vulnerable ecosystems. Global Environmental Change, 2021, 69, 102303.	3.6	72
30	Implementing the material footprint to measure progress towards Sustainable Development Goals 8 and 12. Nature Sustainability, 2022, 5, 157-166.	11.5	69
31	Towards Robust, Authoritative Assessments of Environmental Impacts Embodied in Trade: Current State and Recommendations. Journal of Industrial Ecology, 2018, 22, 585-598.	2.8	68
32	A review and comparative assessment of existing approaches to calculate material footprints. Ecological Economics, 2016, 127, 1-10.	2.9	63
33	Quantifying the global cropland footprint of the European Unionâ€™s non-food bioeconomy. Environmental Research Letters, 2019, 14, 045011.	2.2	58
34	Resource Footprints are Good Proxies of Environmental Damage. Environmental Science & Technology, 2017, 51, 6360-6366.	4.6	57
35	Environmental governance in the European Union: strategies and instruments for absolute decoupling. International Journal of Sustainable Development, 2005, 8, 31.	0.1	54
36	Identifying priority areas for European resource policies: a MRIO-based material footprint assessment. Journal of Economic Structures, 2016, 5, .	0.6	54

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37	From Satellite to Supply Chain: New Approaches Connect Earth Observation to Economic Decisions. One Earth, 2020, 3, 5-8.	3.6	49
38	Alternative Approaches of Physical Inputâ€“Output Analysis to Estimate Primary Material Inputs of Production and Consumption Activities. Economic Systems Research, 2004, 16, 301-310.	1.2	48
39	Consumption-based material flow indicators â€” Comparing six ways of calculating the Austrian raw material consumption providing six results. Ecological Economics, 2016, 128, 177-186.	2.9	46
40	The raw material basis of global value chains: allocating environmental responsibility based on value generation. Economic Systems Research, 2019, 31, 206-227.	1.2	43
41	The impacts of data deviations between MRIO models on material footprints: A comparison of EXIOBASE, Eora, and ICIO. Journal of Industrial Ecology, 2019, 23, 946-958.	2.8	42
42	Structural production layer decomposition: a new method to measure differences between MRIO databases for footprint assessments. Economic Systems Research, 2018, 30, 61-84.	1.2	36
43	Recent Progress in Assessment of Resource Efficiency and Environmental Impacts Embodied in Trade: An Introduction to this Special Issue. Journal of Industrial Ecology, 2018, 22, 489-501.	2.8	34
44	Towards a Comprehensive Framework of the Relationships between Resource Footprints, Quality of Life, and Economic Development. Sustainability, 2020, 12, 4734.	1.6	31
45	Beyond the simple material balance: a reply to Sangwon Suh's note on physical inputâ€“output analysis. Ecological Economics, 2004, 48, 19-22.	2.9	26
46	Towards a Conceptual Framework for Social-Ecological Systems Integrating Biodiversity and Ecosystem Services with Resource Efficiency Indicators. Sustainability, 2016, 8, 201.	1.6	23
47	Relevance of Global Multi Regional Input Output Databases for Global Environmental Policy: Experiences with EXIOBASE 3. Journal of Industrial Ecology, 2018, 22, 482-484.	2.8	17
48	Bioeconomy Transitions through the Lens of Coupled Social-Ecological Systems: A Framework for Place-Based Responsibility in the Global Resource System. Sustainability, 2019, 11, 5705.	1.6	17
49	Conceptual Foundations and Applications of Physical Input-Output Tables. Eco-efficiency in Industry and Science, 2009, , 61-75.	0.1	16
50	Supply versus use designs of environmental extensions in inputâ€“output analysis: Conceptual and empirical implications for the case of energy. Journal of Industrial Ecology, 2020, 24, 548-563.	2.8	16
51	Coupling circularity performance and climate action: From disciplinary silos to transdisciplinary modelling science. Sustainable Production and Consumption, 2022, 30, 269-277.	5.7	11
52	Physical Input-Output Analysis and Disposals to Nature. Eco-efficiency in Industry and Science, 2009, , 123-137.	0.1	8
53	The PIOLab: Building global physical inputâ€“output tables in a virtual laboratory. Journal of Industrial Ecology, 2022, 26, 683-703.	2.8	7
54	Accounting and Modelling Global Resource Use. Eco-efficiency in Industry and Science, 2009, , 139-160.	0.1	5

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55	Response to Comment on â€œResource Footprints are Good Proxies of Environmental Damageâ€³. Environmental Science & Technology, 2017, 51, 13056-13057.	4.6	3
56	The Global Cropland Footprint of the Non-Food Bioeconomy. SSRN Electronic Journal, 0, , .	0.4	2
57	European Resource Use and Resource Productivity in a Global Context. , 2011, , 27-45.		1
58	The Limits of Resource Use and Their Economic and Policy Implications. Eco-efficiency in Industry and Science, 2014, , 3-17.	0.1	1
59	Data, Indicators and Targets for Comprehensive Resource Policies. Eco-efficiency in Industry and Science, 2018, , 45-69.	0.1	0
60	Global Economic and Environmental Impacts of an ETR in Europe. , 2011, , 291-312.		0
61	Measuring Natural Resource Use from the Micro to the Macro Level. Studies in Ecological Economics, 2017, , 161-182.	0.2	0
62	Global resource use in a business-as-usual world up to 2030. , 2017, , 30-41.		0