Tomer Fishman

List of Publications by Year
in descending order

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37 papers	3,008 citations	218381 26 h-index	315357 38 g-index
41 all docs	41 docs citations	41 times ranked	1811 citing authors

#	Article	IF	Citations
1	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.	3.3	409
2	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.	2.2	357
3	Global Material Flows and Resource Productivity: Forty Years of Evidence. Journal of Industrial Ecology, 2018, 22, 827-838.	2.8	232
4	Material efficiency strategies to reducing greenhouse gas emissions associated with buildings, vehicles, and electronicsâ€"a review. Environmental Research Letters, 2019, 14, 043004.	2.2	225
5	The Weight of Society Over Time and Space: A Comprehensive Account of the Construction Material Stock of Japan, 1945â€"2010. Journal of Industrial Ecology, 2015, 19, 778-791.	2.8	196
6	Accounting for the Material Stock of Nations. Journal of Industrial Ecology, 2014, 18, 407-420.	2.8	138
7	Integrating Material Stock Dynamics Into Economy-Wide Material Flow Accounting: Concepts, Modelling, and Global Application for 1900â€"2050. Ecological Economics, 2019, 156, 121-133.	2.9	128
8	Global scenarios of resource and emission savings from material efficiency in residential buildings and cars. Nature Communications, 2021, 12, 5097.	5.8	121
9	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.	2.2	93
10	Global Patterns and Trends for Nonâ€Metallic Minerals used for Construction. Journal of Industrial Ecology, 2017, 21, 924-937.	2.8	80
11	Impact of the establishment of US offshore wind power on neodymium flows. Nature Sustainability, 2019, 2, 332-338.	11.5	74
12	A Life Cycle Thinking Framework to Mitigate the Environmental Impact of Building Materials. One Earth, 2020, 3, 564-573.	3.6	72
13	Stochastic Analysis and Forecasts of the Patterns of Speed, Acceleration, and Levels of Material Stock Accumulation in Society. Environmental Science & Technology, 2016, 50, 3729-3737.	4.6	71
14	The socio-economic drivers of material stock accumulation in Japan's prefectures. Ecological Economics, 2015, 113, 76-84.	2.9	69
15	A database seed for a community-driven material intensity research platform. Scientific Data, 2019, 6, 23.	2.4	66
16	Implications of Emerging Vehicle Technologies on Rare Earth Supply and Demand in the United States. Resources, 2018, 7, 9.	1.6	60
17	Building Material Use and Associated Environmental Impacts in China 2000â€"2015. Environmental Science & Technology, 2018, 52, 14006-14014.	4.6	57
18	High-Resolution Maps of Material Stocks in Buildings and Infrastructures in Austria and Germany. Environmental Science & Technology, 2021, 55, 3368-3379.	4.6	57

#	Article	IF	Citations
19	Exploring future copper demand, recycling and associated greenhouse gas emissions in the EU-28. Global Environmental Change, 2020, 63, 102093.	3.6	56
20	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.	3.6	48
21	The Socio-Economic Metabolism of an Emerging Economy: Monitoring Progress of Decoupling of Economic Growth and Environmental Pressures in the Philippines. Ecological Economics, 2018, 147, 155-166.	2.9	39
22	What Affects the Secondhand Value of Smartphones: Evidence from eBay. Journal of Industrial Ecology, 2019, 23, 549-559.	2.8	39
23	A comprehensive set of global scenarios of housing, mobility, and material efficiency for material cycles and energy systems modeling. Journal of Industrial Ecology, 2021, 25, 305-320.	2.8	33
24	Linking service provision to material cycles: A new framework for studying the resource efficiencyâ€“climate change (RECC) nexus. Journal of Industrial Ecology, 2021, 25, 260-273.	2.8	31
25	Estimating the Material Stock of Roads: The Vietnamese Case Study. Journal of Industrial Ecology, 2019, 23, 663-673.	2.8	30
26	Urban development and sustainability challenges chronicled by a century of construction material flows and stocks in Tiexi, China. Journal of Industrial Ecology, 2021, 25, 162-175.	2.8	28
27	Estimation and mapping of the material stocks of buildings of Europe: a novel nighttime lights-based approach. Resources, Conservation and Recycling, 2021, 169, 105509.	5.3	26
28	A framework of indicators for associating material stocks and flows to service provisioning: Application for Japan 1990â€“2015. Journal of Cleaner Production, 2021, 285, 125450.	4.6	25
29	Material intensity database for the Dutch building stock: Towards Big Data in material stock analysis. Journal of Industrial Ecology, 2022, 26, 272-280.	2.8	24
30	The weight of islands: Leveraging Grenada's material stocks to adapt to climate change. Journal of Industrial Ecology, 2020, 24, 369-382.	2.8	22
31	Material Flow Accounts and Driving Factors of Economic Growth in the Philippines. Journal of Industrial Ecology, 2017, 21, 1226-1236.	2.8	20
32	GIS-Based Material Stock Analysis (MSA) of Climate Vulnerabilities to the Tourism Industry in Antigua and Barbuda. Sustainability, 2020, 12, 8090.	1.6	16
33	Analyzing critical material demand: A revised approach. Science of the Total Environment, 2018, 630, 1143-1148.	3.9	15
34	Unified Materials Information System (UMIS): An Integrated Material Stocks and Flows Data Structure. Journal of Industrial Ecology, 2019, 23, 222-240.	2.8	15
35	Interactive Visualization and Industrial Ecology: Applications, Challenges, and Opportunities. Journal of Industrial Ecology, 2019, 23, 520-531.	2.8	11
36	Material stock's overburden: Automatic spatial detection and estimation of domestic extraction and hidden material flows. Resources, Conservation and Recycling, 2017, 123, 165-175.	5.3	10

#	Article	IF	Citations
37	Exploring the relationship between economic complexity and resource efficiency. Resources, Conservation and Recycling, 2022, 186, 106530.	5.3	7