

# Tomer Fishman

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Material intensity database for the Dutch building stock: Towards Big Data in material stock analysis. <i>Journal of Industrial Ecology</i> , 2022, 26, 272-280.	2.8	24
2	Exploring the relationship between economic complexity and resource efficiency. <i>Resources, Conservation and Recycling</i> , 2022, 186, 106530.	5.3	7
3	Linking service provision to material cycles: A new framework for studying the resource efficiency-climate change (RECC) nexus. <i>Journal of Industrial Ecology</i> , 2021, 25, 260-273.	2.8	31
4	Urban development and sustainability challenges chronicled by a century of construction material flows and stocks in Tiexi, China. <i>Journal of Industrial Ecology</i> , 2021, 25, 162-175.	2.8	28
5	A framework of indicators for associating material stocks and flows to service provisioning: Application for Japan 1990-2015. <i>Journal of Cleaner Production</i> , 2021, 285, 125450.	4.6	25
6	High-Resolution Maps of Material Stocks in Buildings and Infrastructures in Austria and Germany. <i>Environmental Science &amp; Technology</i> , 2021, 55, 3368-3379.	4.6	57
7	A comprehensive set of global scenarios of housing, mobility, and material efficiency for material cycles and energy systems modeling. <i>Journal of Industrial Ecology</i> , 2021, 25, 305-320.	2.8	33
8	Estimation and mapping of the material stocks of buildings of Europe: a novel nighttime lights-based approach. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105509.	5.3	26
9	Global scenarios of resource and emission savings from material efficiency in residential buildings and cars. <i>Nature Communications</i> , 2021, 12, 5097.	5.8	121
10	Prospects for a saturation of humanity's resource use? An analysis of material stocks and flows in nine world regions from 1900 to 2035. <i>Global Environmental Change</i> , 2021, 71, 102410.	3.6	48
11	The weight of islands: Leveraging Grenada's material stocks to adapt to climate change. <i>Journal of Industrial Ecology</i> , 2020, 24, 369-382.	2.8	22
12	GIS-Based Material Stock Analysis (MSA) of Climate Vulnerabilities to the Tourism Industry in Antigua and Barbuda. <i>Sustainability</i> , 2020, 12, 8090.	1.6	16
13	A Life Cycle Thinking Framework to Mitigate the Environmental Impact of Building Materials. <i>One Earth</i> , 2020, 3, 564-573.	3.6	72
14	A systematic review of the evidence on decoupling of GDP, resource use and GHG emissions, part I: bibliometric and conceptual mapping. <i>Environmental Research Letters</i> , 2020, 15, 063002.	2.2	93
15	A systematic review of the evidence on decoupling of GDP, resource use and GHG emissions, part II: synthesizing the insights. <i>Environmental Research Letters</i> , 2020, 15, 065003.	2.2	357
16	Exploring future copper demand, recycling and associated greenhouse gas emissions in the EU-28. <i>Global Environmental Change</i> , 2020, 63, 102093.	3.6	56
17	Interactive Visualization and Industrial Ecology: Applications, Challenges, and Opportunities. <i>Journal of Industrial Ecology</i> , 2019, 23, 520-531.	2.8	11
18	What Affects the Secondhand Value of Smartphones: Evidence from eBay. <i>Journal of Industrial Ecology</i> , 2019, 23, 549-559.	2.8	39

#	ARTICLE	IF	CITATIONS
19	Estimating the Material Stock of Roads: The Vietnamese Case Study. <i>Journal of Industrial Ecology</i> , 2019, 23, 663-673.	2.8	30
20	A database seed for a community-driven material intensity research platform. <i>Scientific Data</i> , 2019, 6, 23.	2.4	66
21	Impact of the establishment of US offshore wind power on neodymium flows. <i>Nature Sustainability</i> , 2019, 2, 332-338.	11.5	74
22	Material efficiency strategies to reducing greenhouse gas emissions associated with buildings, vehicles, and electronics—a review. <i>Environmental Research Letters</i> , 2019, 14, 043004.	2.2	225
23	Integrating Material Stock Dynamics Into Economy-Wide Material Flow Accounting: Concepts, Modelling, and Global Application for 1900–2050. <i>Ecological Economics</i> , 2019, 156, 121-133.	2.9	128
24	Unified Materials Information System (UMIS): An Integrated Material Stocks and Flows Data Structure. <i>Journal of Industrial Ecology</i> , 2019, 23, 222-240.	2.8	15
25	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.	2.9	39
26	Analyzing critical material demand: A revised approach. <i>Science of the Total Environment</i> , 2018, 630, 1143-1148.	3.9	15
27	Global Material Flows and Resource Productivity: Forty Years of Evidence. <i>Journal of Industrial Ecology</i> , 2018, 22, 827-838.	2.8	232
28	Building Material Use and Associated Environmental Impacts in China 2000–2015. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14006-14014.	4.6	57
29	Implications of Emerging Vehicle Technologies on Rare Earth Supply and Demand in the United States. <i>Resources</i> , 2018, 7, 9.	1.6	60
30	Material stock's overburden: Automatic spatial detection and estimation of domestic extraction and hidden material flows. <i>Resources, Conservation and Recycling</i> , 2017, 123, 165-175.	5.3	10
31	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.	3.3	409
32	Global Patterns and Trends for Non-Metallic Minerals used for Construction. <i>Journal of Industrial Ecology</i> , 2017, 21, 924-937.	2.8	80
33	Material Flow Accounts and Driving Factors of Economic Growth in the Philippines. <i>Journal of Industrial Ecology</i> , 2017, 21, 1226-1236.	2.8	20
34	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.	4.6	71
35	The Weight of Society Over Time and Space: A Comprehensive Account of the Construction Material Stock of Japan, 1945–2010. <i>Journal of Industrial Ecology</i> , 2015, 19, 778-791.	2.8	196
36	The socio-economic drivers of material stock accumulation in Japan's prefectures. <i>Ecological Economics</i> , 2015, 113, 76-84.	2.9	69

#	ARTICLE	IF	CITATIONS
37	Accounting for the Material Stock of Nations. Journal of Industrial Ecology, 2014, 18, 407-420.	2.8	138