

# Roland Geyer

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

19,603  
citations

279487

23  
h-index

395343

33  
g-index

42  
all docs

42  
docs citations

42  
times ranked

16970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production, use, and fate of all plastics ever made. <i>Science Advances</i> , 2017, 3, e1700782.	4.7	9,020
2	Plastic waste inputs from land into the ocean. <i>Science</i> , 2015, 347, 768-771.	6.0	7,686
3	Circular Economy Rebound. <i>Journal of Industrial Ecology</i> , 2017, 21, 593-602.	2.8	658
4	The Economics of Remanufacturing Under Limited Component Durability and Finite Product Life Cycles. <i>Management Science</i> , 2007, 53, 88-100.	2.4	289
5	The economics of cell phone reuse and recycling. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 47, 515-525.	1.5	242
6	Supply Loops and Their Constraints: The Industrial Ecology of Recycling and Reuse. <i>California Management Review</i> , 2004, 46, 55-73.	3.4	205
7	Common Misconceptions about Recycling. <i>Journal of Industrial Ecology</i> , 2016, 20, 1010-1017.	2.8	196
8	Production, use, and fate of synthetic polymers. , 2020, , 13-32.		189
9	Material flow analysis of polyethylene terephthalate in the US, 1996–2007. <i>Resources, Conservation and Recycling</i> , 2010, 54, 1161-1169.	5.3	132
10	Comparative life cycle assessment of smartphone reuse: repurposing vs. refurbishment. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 1099-1109.	2.2	96
11	Coupling GIS and LCA for biodiversity assessments of land use. <i>International Journal of Life Cycle Assessment</i> , 2010, 15, 454-467.	2.2	91
12	A Market-Based Framework for Quantifying Displaced Production from Recycling or Reuse. <i>Journal of Industrial Ecology</i> , 2016, 20, 719-729.	2.8	83
13	Coupling GIS and LCA for biodiversity assessments of land use. <i>International Journal of Life Cycle Assessment</i> , 2010, 15, 692-703.	2.2	70
14	Global land use impact assessment on biodiversity and ecosystem services in LCA. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1185-1187.	2.2	64
15	Parametric Assessment of Climate Change Impacts of Automotive Material Substitution. <i>Environmental Science &amp; Technology</i> , 2008, 42, 6973-6979.	4.6	56
16	Life Cycle Assessment of Solar Photovoltaic Microgrid Systems in Off-Grid Communities. <i>Environmental Science &amp; Technology</i> , 2017, 51, 1043-1052.	4.6	56
17	Synthetic microfiber emissions to land rival those to waterbodies and are growing. <i>PLoS ONE</i> , 2020, 15, e0237839.	1.1	54
18	Material Recycling and the Myth of Landfill Diversion. <i>Journal of Industrial Ecology</i> , 2019, 23, 541-548.	2.8	46

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19	Environmental Benefits of Novel Nonhuman Food Inputs to Salmon Feeds. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1967-1975.	4.6	39
20	A Brief History of Plastics. , 2020, , 31-47.		37
21	Toward Estimating Displaced Primary Production from Recycling: A Case Study of U.S. Aluminum. <i>Journal of Industrial Ecology</i> , 2018, 22, 314-326.	2.8	36
22	Consequential life cycle assessment of automotive material substitution: Replacing steel with aluminum in production of north American vehicles. <i>Environmental Impact Assessment Review</i> , 2019, 75, 47-58.	4.4	31
23	Spatially-Explicit Life Cycle Assessment of Sun-to-Wheels Transportation Pathways in the U.S.. <i>Environmental Science &amp; Technology</i> , 2013, 47, 1170-1176.	4.6	26
24	PET bottle reverse logisticsâ€™ environmental performance of Californiaâ€™s CRV program. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 456-471.	2.2	26
25	Smartphone Evolution and Reuse: Establishing a More Sustainable Model. , 2010, , .		24
26	Plastic gear loss estimates from remote observation of industrial fishing activity. <i>Fish and Fisheries</i> , 2022, 23, 22-33.	2.7	22
27	A review of methods for characterizing the environmental consequences of actions in life cycle assessment. <i>Journal of Industrial Ecology</i> , 2020, 24, 815-829.	2.8	21
28	Investigating the Energy-Water Usage Efficiency of the Reuse of Treated Municipal Wastewater for Artificial Groundwater Recharge. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2044-2053.	4.6	20
29	Life cycle assessment of hole transport free planarâ€™ mesoscopic perovskite solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 023502.	0.8	13
30	Quantity and fate of synthetic microfiber emissions from apparel washing in California and strategies for their reduction. <i>Environmental Pollution</i> , 2022, 298, 118835.	3.7	13
31	Causal inference for quantifying displaced primary production from recycling. <i>Journal of Cleaner Production</i> , 2019, 210, 1076-1084.	4.6	8
32	Parsimonious powertrain modeling for environmental vehicle assessments: part 1â€™ internal combustion vehicles. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 1566-1575.	2.2	5
33	Parsimonious powertrain modeling for environmental vehicle assessments: part 2â€™ electric vehicles. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 1576-1585.	2.2	5
34	Environmental Impacts of Utility-Scale Battery Storage in California. , 2019, , .		3
35	A model for the intensity of fishing gear. <i>Journal of Industrial Ecology</i> , 2022, 26, 1847-1857.	2.8	3
36	Assessing the Greenhouse Gas Savings Potential of Extended Producer Responsibility for Mattresses and Boxsprings in the United States. <i>Journal of Industrial Ecology</i> , 2016, 20, 917-928.	2.8	2

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37	Environmental assessment of transparent conductive oxide-free efficient flexible organo-lead halide perovskite solar cell. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-10.	1.2	2
38	The role and value of information for supply loop management: Framework and application for the end-of-life cell phone industry. , 2008, , .		1
39	Declaration of concernâ€™ an unambiguous rebuttal of the LEO-SCS-002 draft standard. International Journal of Life Cycle Assessment, 2013, 18, 302-305.	2.2	0