

# James S Gerber

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5693238/publications.pdf>

Version: 2024-02-01

17  
papers

11,075  
citations

516215

16  
h-index

887659

17  
g-index

18  
all docs

18  
docs citations

18  
times ranked

15022  
citing authors

| #  | ARTICLE                                                                                                                                                                                               | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Solutions for a cultivated planet. <i>Nature</i> , 2011, 478, 337-342.                                                                                                                                | 13.7 | 5,821     |
| 2  | Closing yield gaps through nutrient and water management. <i>Nature</i> , 2012, 490, 254-257.                                                                                                         | 13.7 | 2,055     |
| 3  | Leverage points for improving global food security and the environment. <i>Science</i> , 2014, 345, 325-328.                                                                                          | 6.0  | 584       |
| 4  | Climate change has likely already affected global food production. <i>PLoS ONE</i> , 2019, 14, e0217148.                                                                                              | 1.1  | 470       |
| 5  | Redefining agricultural yields: from tonnes to people nourished per hectare. <i>Environmental Research Letters</i> , 2013, 8, 034015.                                                                 | 2.2  | 444       |
| 6  | Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017, 7, 63-68.                                                                                                | 8.1  | 414       |
| 7  | Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020, 1, 266-272.                                                                                    | 6.2  | 285       |
| 8  | Nitrogen use in the global food system: past trends and future trajectories of agronomic performance, pollution, trade, and dietary demand. <i>Environmental Research Letters</i> , 2016, 11, 095007. | 2.2  | 227       |
| 9  | Increasing importance of precipitation variability on global livestock grazing lands. <i>Nature Climate Change</i> , 2018, 8, 214-218.                                                                | 8.1  | 156       |
| 10 | Climate adaptation by crop migration. <i>Nature Communications</i> , 2020, 11, 1243.                                                                                                                  | 5.8  | 153       |
| 11 | Quantification of global and national nitrogen budgets for crop production. <i>Nature Food</i> , 2021, 2, 529-540.                                                                                    | 6.2  | 108       |
| 12 | A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014, 9, 054002.                                                                           | 2.2  | 100       |
| 13 | An attainable global vision for conservation and human well-being. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 563-570.                                                               | 1.9  | 71        |
| 14 | Mapping global development potential for renewable energy, fossil fuels, mining and agriculture sectors. <i>Scientific Data</i> , 2019, 6, 101.                                                       | 2.4  | 64        |
| 15 | Global irrigation contribution to wheat and maize yield. <i>Nature Communications</i> , 2021, 12, 1235.                                                                                               | 5.8  | 61        |
| 16 | A World at Risk: Aggregating Development Trends to Forecast Global Habitat Conversion. <i>PLoS ONE</i> , 2015, 10, e0138334.                                                                          | 1.1  | 50        |
| 17 | Assessment of yield gaps on global grazed-only permanent pasture using climate binning. <i>Global Change Biology</i> , 2020, 26, 1820-1832.                                                           | 4.2  | 11        |