## Joel E Cohen

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/7059484/publications.pdf
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2 Cauchy, normal and correlations versus heavy tails. Statistics and Probability Letters, 2022, 186, 109489.

Bilateral international migration flow estimates updated and refined by sex. Scientific Data, 2022, 9, 173.

Temporal and Spatial Taylor's Law: Application to Japanese Subnational Mortality Rates. Journal of the Royal Statistical Society Series A: Statistics in Society, 2022, 185, 1979-2006.

Spatial and temporal autocorrelations affect Taylor's law for US county populations: Descriptive and predictive models. PLoS ONE, 2021, 16, e0245062.

Taylorâ $€^{\mathrm{TM}}$ s law of fluctuation scaling for semivariances and higher moments of heavy-tailed data.
Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .

Every variance function, including Taylorâ $€^{T M}$ s power law of fluctuation scaling, can be produced by any
7 location-scale family of distributions with positive mean and variance. Theoretical Ecology, 2020, 13, 1-5.

Nonconcavity of the spectral radius in Levinger's theorem. Linear Algebra and Its Applications, 2020, 606, 201-218.

Species-abundance distributions and Taylorâ $€^{T M}$ s power law of fluctuation scaling. Theoretical Ecology,
2020, 13, 607-614.

Seasonality of Taylorâ $€^{\mathrm{TM}} \mathrm{s}$ law of fluctuation scaling in all-India daily rainfall. Npj Climate and
10 Seasonality of Taylorâ ${ }^{\mathrm{TM}}$ s law on
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Heavy-tailed distributions, correlations, kurtosis and Taylorâ $€^{T M}$ s Law of fluctuation scaling.
11 Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200610.

Yeast facilitates the multiplication of Drosophila bacterial symbionts but has no effect on the form
12 or parameters of Taylorâ $€^{T M} \mathrm{~s}$ law. PLoS ONE, 2020, 15, e0242692.
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13 Title is missing!. , 2020, 15, e0242692.
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Two Processes Regulating Trophic Energy Flow in Pelagic and Terrestrial Ecosystems: Trophic
22 Efficiency and Body Sizeấ $€$ "Dependent Biomass Production: (A Reply to Giacomini). American Naturalist 2018, 191, 364-367.


Linking parasite populations in hosts to parasite populations in space through Taylor's law and the
negative binomial distribution. Proceedings of the National Academy of Sciences of the United States

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& 29 \text { Taylor's law, via ratios, for some distributions with infinite mean. Journal of Applied Probability, 2017, } \\
& 54,657-669 \text {. }
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Modeling distances between humans using Taylorâ $€^{\mathrm{TM}}$ s law and geometric probability. Mathematical
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Taylorâ $€^{T M}$ s power law and fixed-precision sampling: application to abundance of fish sampled by gillnets
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in an African lake. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 87-100.

Chagas disease vector control and Taylor's law. PLoS Neglected Tropical Diseases, 2017, 11, e0006092.
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> Body size and hosts of Triatoma infestans populations affect the size of bloodmeal contents and
> female fecundity in rural northwestern Argentina. PLoS Neglected Tropical Diseases, 2017, 11,
> e0006097.
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Taylor's law and related allometric power laws in New Zealand mountain beech forests: the roles of
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18 space, time and environment. Oikos, 2016, 125, 1342-1357.

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| 40 | Sample and population exponents of generalized Taylorấ $€^{\mathrm{TM}}$ s law. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7755-7760. | 3.3 | 64 |
| 41 | Parasitism alters three power laws of scaling in a metazoan community: Taylorâ $€^{\mathrm{TM}} \mathrm{s}$ law, density-mass allometry, and variance-mass allometry. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1791-1796. | 3.3 | 52 |
| 42 | Robustness of Taylor's law under spatial hierarchical groupings of forest tree samples. Population Ecology, 2015, 57, 93-103. | 0.7 | 9 |
| 43 | Mean and variance of population density and temporal Taylorâ $\epsilon^{T M} \mathrm{~S}$ law in stochastic stage-structured density-dependent models of exploited fish populations. Theoretical Ecology, 2015, 8, 175-186. | 0.4 | 4 |
| 44 | Markov's Inequality and Chebyshev's Inequality for Tail Probabilities: A Sharper Image. American Statistician, 2015, 69, 5-7. | 0.9 | 15 |
| 45 | Random sampling of skewed distributions implies Taylorâ $€^{\mathrm{TM}}$ s power law of fluctuation scaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7749-7754. | 3.3 | 97 |

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Stochastic multiplicative population growth predicts and interprets Taylor's power law of
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74 Spatial Re-Establishment Dynamics of Local Populations of Vectors of Chagas Disease. PLoS Neglected79 Colour of environmental noise affects the nonlinear dynamics of cycling, stageấstructuredpopulations. Ecology Letters, 2008, 11, 820-830.
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80 Three allometric relations of population density to body mass: theoretical integration and empiricaltests in 149 food webs. Ecology Letters, 2008, 11, 1216-1228.
International migration beyond gravity: A statistical model for use in population projections.81 Proceedings of the National Academy of Sciences of the United States of America, 2008, 105,3.3

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Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16194-16199.
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Re-establishment of local populations of vectors of Chagas disease after insecticide spraying. Journal

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| 92 | Estimating Relative Energy Fluxes Using the Food Web, Species Abundance, and Body Size. Advances in Ecological Research, 2005, 36, 137-182. | 1.4 | 35 |
| 93 | BODY SIZES OF CONSUMERS AND THEIR RESOURCES. Ecology, 2005, 86, 2545-2545. | 1.5 | 105 |
| 94 | SPECIES' AVERAGE BODY MASS AND NUMERICAL ABUNDANCE IN A COMMUNITY FOOD WEB. , 2005, , 137-156. |  | 8 |
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Human Population: The Next Half Century. Science, 2003, 302, 1172-1175.6.0665
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