

Anastassia M Makarieva

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,639
citations

331259

21
h-index

301761

39
g-index

69
all docs

69
docs citations

69
times ranked

1803
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic energy generation in heat engines and heat pumps: the relationship between surface pressure, temperature and circulation cell size. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1272752.	0.8	6
2	Natural Ecosystems and Earth's Habitability: Attempting a Cross-Disciplinary Synthesis. <i>Strategies for Sustainability</i> , 2022, , 143-169.	0.2	1
3	Life's Energy and Information: Contrasting Evolution of Volume- versus Surface-Specific Rates of Energy Consumption. <i>Entropy</i> , 2020, 22, 1025.	1.1	10
4	Comments on "An Evaluation of Hurricane Superintensity in Axisymmetric Numerical Models". <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 3971-3975.	0.6	3
5	Comments on "The Condensation-Induced Atmospheric Dynamics a New Theory of the Origin of the Winds?". <i>Journals of the Atmospheric Sciences</i> , 2019, 2019, 81-85.	0.6	3
6	Forest restoration: Transformative trees. <i>Science</i> , 2019, 366, 316-317.	6.0	16
7	Fuel for cyclones: The water vapor budget of a hurricane as dependent on its movement. <i>Atmospheric Research</i> , 2017, 193, 216-230.	1.8	30
8	The equations of motion for moist atmospheric air. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7300-7307.	1.2	7
9	Governance of Societies. , 2016, , 75-115.		2
10	Empirical evidence for the condensational theory of hurricanes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2396-2398.	0.9	6
11	Comments on "The Tropospheric Land-Sea Warming Contrast as the Driver of Tropical Sea Level Pressure Changes". <i>Journal of Climate</i> , 2015, 28, 4293-4307.	1.2	6
12	Why Does Air Passage over Forest Yield More Rain? Examining the Coupling between Rainfall, Pressure, and Atmospheric Moisture Content*. <i>Journal of Hydrometeorology</i> , 2014, 15, 411-426.	0.7	51
13	Condensational power of air circulation in the presence of a horizontal temperature gradient. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 294-298.	0.9	10
14	Revisiting forest impact on atmospheric water vapor transport and precipitation. <i>Theoretical and Applied Climatology</i> , 2013, 111, 79-96.	1.3	70
15	The Key Physical Parameters Governing Frictional Dissipation in a Precipitating Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2916-2929.	0.6	13
16	Where do winds come from? A new theory on how water vapor condensation influences atmospheric pressure and dynamics. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1039-1056.	1.9	99
17	Condensation of water vapor in the gravitational field. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 115, 723-728.	0.2	11
18	Condensational theory of stationary tornadoes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2259-2261.	0.9	13

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19	Radial profiles of velocity and pressure for condensation-induced hurricanes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1053-1058.	0.9	11
20	Have Ecological Human Rights Been Globally Lost? A Conflict of Ecological Spatial Requirements and Cultural Landscape Opportunities in Modern Homo sapiens. <i>Structure and Function of Mountain Ecosystems in Japan</i> , 2011, , 129-137.	0.1	1
21	The Biotic Pump: Condensation, atmospheric dynamics and climate. <i>International Journal of Water</i> , 2010, 5, 365.	0.1	49
22	A critique of some modern applications of the Carnot heat engine concept: the dissipative heat engine cannot exist. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 1893-1902.	1.0	21
23	Comprehending ecological and economic sustainability. <i>Annals of the New York Academy of Sciences</i> , 2010, 1195, E1-E18.	1.8	0
24	Comment on "Energy Uptake and Allocation During Ontogeny". <i>Science</i> , 2009, 325, 1206-1206.	6.0	13
25	Re-calibrating the snake palaeothermometer. <i>Nature</i> , 2009, 460, E2-E3.	13.7	5
26	Condensation-induced dynamic gas fluxes in a mixture of condensable and non-condensable gases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2801-2804.	0.9	11
27	Condensation-induced kinematics and dynamics of cyclones, hurricanes and tornadoes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4201-4205.	0.9	18
28	Precipitation on land versus distance from the ocean: Evidence for a forest pump of atmospheric moisture. <i>Ecological Complexity</i> , 2009, 6, 302-307.	1.4	77
29	The forest biotic pump of river basins. <i>Russian Journal of Ecology</i> , 2008, 39, 537-540.	0.3	6
30	Energy budget of the biosphere and civilization: Rethinking environmental security of global renewable and non-renewable resources. <i>Ecological Complexity</i> , 2008, 5, 281-288.	1.4	61
31	Mean mass-specific metabolic rates are strikingly similar across life's major domains: Evidence for life's metabolic optimum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16994-16999.	3.3	276
32	<i>Cybernetics.</i> , 2008, , 806-812.		1
33	<i>Cybernetics.</i> , 2008, , 553-558.		0
34	Allometric scaling as an indicator of ecosystem state: a new approach. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2008, , 107-117.	0.1	1
35	Size- and temperature-independence of minimum life-supporting metabolic rates. <i>Functional Ecology</i> , 2006, 20, 83-96.	1.7	62
36	Distributive network model of Banavar, Damuth, Maritan and Rinaldo (2002): Critique and perspective. <i>Journal of Theoretical Biology</i> , 2006, 239, 394-397.	0.8	8

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37	A strategy for the survival of humanity is on the agenda. Herald of the Russian Academy of Sciences, 2006, 76, 139-143.	0.2	1
38	Conservation of water cycle on land via restoration of natural closed-canopy forests: implications for regional landscape planning. Ecological Research, 2006, 21, 897-906.	0.7	45
39	Revising the distributive networks models of West, Brown and Enquist (1997) and Banavar, Maritan and Rinaldo (1999): Metabolic inequity of living tissues provides clues for the observed allometric scaling rules. Journal of Theoretical Biology, 2005, 237, 291-301.	0.8	49
40	Biochemical universality of living matter and its metabolic implications. Functional Ecology, 2005, 19, 547-557.	1.7	35
41	Temperature-associated upper limits to body size in terrestrial poikilotherms. Oikos, 2005, 111, 425-436.	1.2	61
42	Energetics of the smallest: do bacteria breathe at the same rate as whales?. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 2219-2224.	1.2	96
43	Gigantism, temperature and metabolic rate in terrestrial poikilotherms. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 2325-2328.	1.2	57
44	Why do population density and inverse home range scale differently with body size?. Ecological Complexity, 2005, 2, 259-271.	1.4	49
45	ENERGY PARTITIONING BETWEEN DIFFERENT-SIZED ORGANISMS AND ECOSYSTEM STABILITY. Ecology, 2004, 85, 1811-1813.	1.5	32
46	Ontogenetic growth: models and theory. Ecological Modelling, 2004, 176, 15-26.	1.2	55
47	On the dependence of speciation rates on species abundance and characteristic population size. Journal of Biosciences, 2004, 29, 119-128.	0.5	19
48	Revising the fundamentals of ecological knowledge: the biotaâ€™environment interaction. Ecological Complexity, 2004, 1, 17-36.	1.4	37
49	Body size, energy consumption and allometric scaling: a new dimension in the diversityâ€™stability debate. Ecological Complexity, 2004, 1, 139-175.	1.4	39
50	A Note on Metabolic Rate Dependence on Body Size in Plants and Animals. Journal of Theoretical Biology, 2003, 221, 301-307.	0.8	70
51	How Valid are the Biological and Ecological Principles Underpinning Global Change Science?. Energy and Environment, 2002, 13, 299-310.	2.7	3
52	Variance of protein heterozygosity in different species of mammals with respect to the number of loci studied. Heredity, 2001, 87, 41-51.	1.2	12