

Victor G Gorshkov

List of Publications by Year in descending order

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46
papers

1,674
citations

331259

21
h-index

301761

39
g-index

46
all docs

46
docs citations

46
times ranked

1781
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuel for cyclones: The water vapor budget of a hurricane as dependent on its movement. Atmospheric Research, 2017, 193, 216-230.	1.8	30
2	The equations of motion for moist atmospheric air. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7300-7307.	1.2	7
3	Governance of Societies. , 2016, , 75-115.		2
4	Empirical evidence for the condensational theory of hurricanes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2396-2398.	0.9	6
5	Comments on "The Tropospheric Land-Sea Warming Contrast as the Driver of Tropical Sea Level Pressure Changes". Journal of Climate, 2015, 28, 4293-4307.	1.2	6
6	Why Does Air Passage over Forest Yield More Rain? Examining the Coupling between Rainfall, Pressure, and Atmospheric Moisture Content*. Journal of Hydrometeorology, 2014, 15, 411-426.	0.7	51
7	Condensational power of air circulation in the presence of a horizontal temperature gradient. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 294-298.	0.9	10
8	Revisiting forest impact on atmospheric water vapor transport and precipitation. Theoretical and Applied Climatology, 2013, 111, 79-96.	1.3	70
9	The Key Physical Parameters Governing Frictional Dissipation in a Precipitating Atmosphere. Journals of the Atmospheric Sciences, 2013, 70, 2916-2929.	0.6	13
10	Where do winds come from? A new theory on how water vapor condensation influences atmospheric pressure and dynamics. Atmospheric Chemistry and Physics, 2013, 13, 1039-1056.	1.9	99
11	Condensational theory of stationary tornadoes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2259-2261.	0.9	13
12	Radial profiles of velocity and pressure for condensation-induced hurricanes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1053-1058.	0.9	11
13	Have Ecological Human Rights Been Globally Lost? A Conflict of Ecological Spatial Requirements and Cultural Landscape Opportunities in Modern Homo sapiens. Structure and Function of Mountain Ecosystems in Japan, 2011, , 129-137.	0.1	1
14	The Biotic Pump: Condensation, atmospheric dynamics and climate. International Journal of Water, 2010, 5, 365.	0.1	49
15	A critique of some modern applications of the Carnot heat engine concept: the dissipative heat engine cannot exist. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 1893-1902.	1.0	21
16	Comprehending ecological and economic sustainability. Annals of the New York Academy of Sciences, 2010, 1195, E1-E18.	1.8	0
17	Comment on "Energy Uptake and Allocation During Ontogeny". Science, 2009, 325, 1206-1206.	6.0	13
18	Re-calibrating the snake palaeothermometer. Nature, 2009, 460, E2-E3.	13.7	5

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	The forest biotic pump of river basins. <i>Russian Journal of Ecology</i> , 2008, 39, 537-540.	0.3	6
23	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
24	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
25	Size- and temperature-independence of minimum life-supporting metabolic rates. <i>Functional Ecology</i> , 2006, 20, 83-96.	1.7	62
26	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
27	A strategy for the survival of humanity is on the agenda. <i>Herald of the Russian Academy of Sciences</i> , 2006, 76, 139-143.	0.2	1
28	Conservation of water cycle on land via restoration of natural closed-canopy forests: implications for regional landscape planning. <i>Ecological Research</i> , 2006, 21, 897-906.	0.7	45
29	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. <i>Journal of Theoretical Biology</i> , 2005, 237, 291-301.	0.8	49
30	Biochemical universality of living matter and its metabolic implications. <i>Functional Ecology</i> , 2005, 19, 547-557.	1.7	35
31	Temperature-associated upper limits to body size in terrestrial poikilotherms. <i>Oikos</i> , 2005, 111, 425-436.	1.2	61
32	Energetics of the smallest: do bacteria breathe at the same rate as whales?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2219-2224.	1.2	96
33	Gigantism, temperature and metabolic rate in terrestrial poikilotherms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2325-2328.	1.2	57
34	Why do population density and inverse home range scale differently with body size?. <i>Ecological Complexity</i> , 2005, 2, 259-271.	1.4	49
35	ENERGY PARTITIONING BETWEEN DIFFERENT-SIZED ORGANISMS AND ECOSYSTEM STABILITY. <i>Ecology</i> , 2004, 85, 1811-1813.	1.5	32
36	Ontogenetic growth: models and theory. <i>Ecological Modelling</i> , 2004, 176, 15-26.	1.2	55

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37	On the dependence of speciation rates on species abundance and characteristic population size. Journal of Biosciences, 2004, 29, 119-128.	0.5	19
38	Revising the fundamentals of ecological knowledge: the biota–environment interaction. Ecological Complexity, 2004, 1, 17-36.	1.4	37
39	Body size, energy consumption and allometric scaling: a new dimension in the diversity–stability debate. Ecological Complexity, 2004, 1, 139-175.	1.4	39
40	A Note on Metabolic Rate Dependence on Body Size in Plants and Animals. Journal of Theoretical Biology, 2003, 221, 301-307.	0.8	70
41	How Valid are the Biological and Ecological Principles Underpinning Global Change Science?. Energy and Environment, 2002, 13, 299-310.	2.7	3
42	On the Natural Biological Regulation of the Environment. Environmental Conservation, 1995, 22, 170-174.	0.7	0
43	Physical and Biological Bases of Life Stability. , 1995, , .		76
44	Energetics of the biosphere. Uspekhi Fizicheskikh Nauk, 1980, 23, 386-408.	0.3	4
45	The anomalous pole singularities in atomic processes. Physics Letters, Section A: General, Atomic and Solid State Physics, 1974, 46, 467-468.	0.9	10
46	Electrodynamic processes in colliding beams of high-energy particles. Uspekhi Fizicheskikh Nauk, 1973, 16, 322-338.	0.3	10