

Tyler Volk

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

841
citations

759233

12
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

578
citing authors

#	ARTICLE	IF	CITATIONS
1	Biotic enhancement of weathering and the habitability of Earth. <i>Nature</i> , 1989, 340, 457-460.	27.8	391
2	Rise of angiosperms as a factor in long-term climatic cooling. <i>Geology</i> , 1989, 17, 107.	4.4	78
3	Sensitivity of climate and atmospheric CO ₂ to deep-ocean and shallow-ocean carbonate burial. <i>Nature</i> , 1989, 337, 637-640.	27.8	57
4	Biotic enhancement of weathering and surface temperatures on earth since the origin of life. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1991, 90, 357-371.	2.3	47
5	Mass extinctions, atmospheric sulphur and climatic warming at the K/T boundary. <i>Nature</i> , 1988, 332, 63-65.	27.8	37
6	Did Surface Temperatures Constrain Microbial Evolution?. <i>BioScience</i> , 1993, 43, 390-393.	4.9	28
7	Natural Selection, Gaia, and Inadvertent By-Products: A Reply to Lenton and Wilkinson's Response. <i>Climatic Change</i> , 2003, 58, 13-19.	3.6	28
8	Interactions of CO ₂ , temperature and management practices: Simulations with a modified version of CERES-Wheat. <i>Agricultural Systems</i> , 1995, 49, 135-152.	6.1	26
9	Toward a Future for Gaia Theory. <i>Climatic Change</i> , 2002, 52, 423-430.	3.6	25
10	Gaia and Evolutionary Biology. <i>BioScience</i> , 1992, 42, 686-693.	4.9	17
11	Biogeochemical modeling at mass extinction boundaries: Atmospheric carbon dioxide and ocean alkalinity at the K/T boundary. <i>Lecture Notes in Earth Sciences</i> , 1990, , 333-345.	0.5	16
12	Biotic enhancement of weathering and surface temperatures on earth since the origin of life. <i>Global and Planetary Change</i> , 1991, 4, 357-371.	3.5	14
13	Open systems living in a closed biosphere: a new paradox for the Gaia debate. <i>BioSystems</i> , 1990, 23, 371-384.	2.0	13
14	Multiple impact event in the Paleozoic: Collision with a string of comets or asteroids?. <i>Geophysical Research Letters</i> , 1996, 23, 49-52.	4.0	12
15	The properties of organisms are not tunable parameters selected because they create maximum entropy production on the biosphere scale: A by-product framework in response to Kleidon. <i>Climatic Change</i> , 2007, 85, 251-258.	3.6	12
16	Growing wheat in Biosphere 2 under elevated CO ₂ : Observations and modeling. <i>Ecological Engineering</i> , 1999, 13, 273-286.	3.6	10
17	Self-organization of the Earth's biosphere-geochemical or geophysiological?. <i>Origins of Life and Evolution of Biospheres</i> , 1994, 24, 435-450.	1.9	9
18	Seeing Deeper into Gaia Theory. <i>Climatic Change</i> , 2003, 57, 5-7.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Considerations in miniaturizing simplified agro-ecosystems for advanced life support. Ecological Engineering, 1996, 6, 99-108.	3.6	5
20	Thermodynamics and civilization: from ancient rivers to fossil fuel energy servants. Climatic Change, 2009, 95, 433-438.	3.6	3