

Joseph Galewsky

List of Publications by Year in descending order

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51
papers

2,351
citations

201674

27
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

2789
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of high-precision continuous measurements of water vapor isotopologues in laboratory and remote field deployments using wavelength-scanned cavity ring-down spectroscopy (WS-CRDS) technology. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2534-2542.	1.5	273
2	Stable isotopes in atmospheric water vapor and applications to the hydrologic cycle. <i>Reviews of Geophysics</i> , 2016, 54, 809-865.	23.0	241
3	Measurement of tectonic surface uplift rate in a young collisional mountain belt. <i>Nature</i> , 1997, 385, 501-507.	27.8	100
4	Diagnosis of Subtropical Humidity Dynamics Using Tracers of Last Saturation. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3353-3367.	1.7	97
5	EUREC4A. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	9.9	88
6	An initial-value problem for testing numerical models of the global shallow-water equations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 429-440.	1.7	88
7	Properties of air mass mixing and humidity in the subtropics from measurements of the D/H isotope ratio of water vapor at the Mauna Loa Observatory. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	85
8	An initial-value problem for testing numerical models of the global shallow-water equations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 56, 429.	1.7	84
9	Structural evolution of a modern arc-continent collision in Papua New Guinea. <i>Tectonics</i> , 1994, 13, 1007-1034.	2.8	69
10	An advection-condensation model for subtropical water vapor isotopic ratios. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	65
11	Estimate of bias in Aura TES HDO/H ₂ O profiles from comparison of TES and in situ HDO/H ₂ O measurements at the Mauna Loa observatory. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4491-4503.	4.9	59
12	Late-glacial to late-Holocene shifts in global precipitation δ ¹⁸ O. <i>Climate of the Past</i> , 2015, 11, 1375-1393.	3.4	57
13	Tropical Cyclone Genesis Factors in Simulations of the Last Glacial Maximum. <i>Journal of Climate</i> , 2012, 25, 4348-4365.	3.2	55
14	Hydrogen isotope correction for laser instrument measurement bias at low water vapor concentration using conventional isotope analyses: application to measurements from Mauna Loa Observatory, Hawaii. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 608-616.	1.5	54
15	Moist Dynamics and Orographic Precipitation in Northern and Central California during the New Year's Flood of 1997. <i>Monthly Weather Review</i> , 2005, 133, 1594-1612.	1.4	52
16	Upwind convective influences on the isotopic composition of atmospheric water vapor over the tropical Andes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7051-7063.	3.3	52
17	Foredeep tectonics and carbonate platform dynamics in the Huon Gulf, Papua New Guinea. <i>Geology</i> , 1996, 24, 819.	4.4	51
18	Variations in Tropical Cyclone Genesis Factors in Simulations of the Holocene Epoch. <i>Journal of Climate</i> , 2012, 25, 8196-8211.	3.2	51

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19	Flexural-eustatic numerical model for drowning of the Eocene perialpine carbonate ramp and implications for Alpine geodynamics. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 1052-1066.	3.3	49
20	Measurements of water vapor D/H ratios from Mauna Kea, Hawaii, and implications for subtropical humidity dynamics. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	49
21	Orographic precipitation isotopic ratios in stratified atmospheric flows: Implications for paleoelevation studies. <i>Geology</i> , 2009, 37, 791-794.	4.4	46
22	Diagnosis of Zonal Mean Relative Humidity Changes in a Warmer Climate. <i>Journal of Climate</i> , 2010, 23, 4556-4569.	3.2	46
23	Tropical cyclone triggering of sediment discharge in Taiwan. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	41
24	Rain shadow development during the growth of mountain ranges: An atmospheric dynamics perspective. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
25	Surface measurements of upper tropospheric water vapor isotopic composition on the Chajnantor Plateau, Chile. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	38
26	Deuterium excess in subtropical free troposphere water vapor: Continuous measurements from the Chajnantor Plateau, northern Chile. <i>Geophysical Research Letters</i> , 2014, 41, 8652-8659.	4.0	35
27	Refining paleoaltimetry reconstructions of the Sierra Nevada, California, using air parcel trajectories. <i>Geology</i> , 2013, 41, 259-262.	4.4	32
28	Orographic Clouds in Terrain-Blocked Flows: An Idealized Modeling Study. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3460-3478.	1.7	27
29	Tectonic controls on facies transitions in an oblique collision: The western Solomon Sea, Papua New Guinea. <i>Bulletin of the Geological Society of America</i> , 1997, 109, 1266-1278.	3.3	24
30	A test of the advection–condensation model for subtropical water vapor using stable isotopologue observations from Mauna Loa Observatory, Hawaii. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
31	Summertime Moisture Transport to the Southern South American Altiplano: Constraints from In Situ Measurements of Water Vapor Isotopic Composition. <i>Journal of Climate</i> , 2015, 28, 2635-2649.	3.2	24
32	Late Pleistocene glaciations of the arid subtropical Andes and new results from the Chajnantor Plateau, northern Chile. <i>Quaternary Science Reviews</i> , 2015, 128, 98-116.	3.0	24
33	The dynamics of foreland basin carbonate platforms: tectonic and eustatic controls. <i>Basin Research</i> , 1998, 10, 409-416.	2.7	23
34	A last–saturation diagnosis of subtropical water vapor response to global warming. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	19
35	Variation in structure, style, and driving mechanism of adjoining segments of the North Panama deformed belt. <i>Special Paper of the Geological Society of America</i> , 1995, , 225-234.	0.5	16
36	The post-Variscan thermal and denudational history of Ireland. <i>Geological Society Special Publication</i> , 2002, 196, 371-399.	1.3	16

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37	Water vapor isotopic composition of a stratospheric air intrusion: Measurements from the Chajnantor Plateau, Chile. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9679-9691.	3.3	16
38	Dynamical downscaling of tropical cyclones from CCSM4 simulations of the Last Glacial Maximum. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1229-1247.	3.8	16
39	A Last Saturation Analysis of ENSO Humidity Variability in the Subtropical Pacific. <i>Journal of Climate</i> , 2010, 23, 918-931.	3.2	14
40	Controls on the water vapor isotopic composition near the surface of tropical oceans and role of boundary layer mixing processes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12235-12260.	4.9	14
41	Using Stable Isotopes in Water Vapor to Diagnose Relationships Between Lower-Tropospheric Stability, Mixing, and Low-Cloud Cover Near the Island of Hawaii. <i>Geophysical Research Letters</i> , 2018, 45, 297-305.	4.0	12
42	A Stochastic Model for Diagnosing Subtropical Humidity Dynamics with Stable Isotopologues of Water Vapor. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1741-1753.	1.7	11
43	Constraining Supersaturation and Transport Processes in a South American Cold-Air Outbreak Using Stable Isotopologues of Water Vapor. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2055-2069.	1.7	10
44	Late Cenozoic surface uplift of the southern Sierra Nevada (California, USA): A paleoclimate perspective on lee-side stable isotope paleoaltimetry. <i>Geology</i> , 2016, 44, 451-454.	4.4	10
45	Convergent margin extension associated with arc-continent collision: The Finsch Deep, Papua New Guinea. <i>Tectonics</i> , 1997, 16, 77-87.	2.8	9
46	Sensitivity of glaciation in the arid subtropical Andes to changes in temperature, precipitation, and solar radiation. <i>Global and Planetary Change</i> , 2018, 163, 86-96.	3.5	8
47	Exploring landscape sensitivity to the Pacific Trade Wind Inversion on the subsiding island of Hawaii. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2048-2069.	2.8	7
48	Relationships Between Inversion Strength, Lower-Tropospheric Moistening, and Low-Cloud Fraction in the Subtropical Southeast Pacific Derived From Stable Isotopologues of Water Vapor. <i>Geophysical Research Letters</i> , 2018, 45, 7701-7710.	4.0	5
49	Marine Boundary Layer Decoupling and the Stable Isotopic Composition of Water Vapor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	5
50	Atmospheric Flow Patterns Around the Southern Alps of New Zealand and Implications for Paleoaltimetry. <i>Geophysical Research Letters</i> , 2017, 44, 11,601-11,605.	4.0	4
51	Reply to "Comment on Sensitivity of glaciation in the arid subtropical Andes to changes in temperature, precipitation, and solar radiation by". <i>Global and Planetary Change</i> , 2019, 172, 479-481.	3.5	0