

Thomas E Gill

List of Publications by Citations

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73
papers

5,167
citations

29
h-index

71
g-index

87
ext. papers

5,785
ext. citations

5.2
avg, IF

5.56
L-index

#	Paper	IF	Citations
73	ENVIRONMENTAL CHARACTERIZATION OF GLOBAL SOURCES OF ATMOSPHERIC SOIL DUST IDENTIFIED WITH THE NIMBUS 7 TOTAL OZONE MAPPING SPECTROMETER (TOMS) ABSORBING AEROSOL PRODUCT. <i>Reviews of Geophysics</i> , 2002 , 40, 2-1	23.1	2000
72	Global-scale attribution of anthropogenic and natural dust sources and their emission rates based on MODIS Deep Blue aerosol products. <i>Reviews of Geophysics</i> , 2012 , 50,	23.1	800
71	Long-range transport of North African dust to the eastern United States. <i>Journal of Geophysical Research</i> , 1997 , 102, 11225-11238		240
70	Eolian sediments generated by anthropogenic disturbance of playas: human impacts on the geomorphic system and geomorphic impacts on the human system. <i>Geomorphology</i> , 1996 , 17, 207-228	4.3	169
69	Enzyme activities and microbial community structure in semiarid agricultural soils. <i>Biology and Fertility of Soils</i> , 2003 , 38, 216-227	6.1	123
68	SALTATING PARTICLES, PLAYA CRUSTS AND DUST AEROSOLS AT OWENS (DRY) LAKE, CALIFORNIA. <i>Earth Surface Processes and Landforms</i> , 1996 , 21, 621-639	3.7	114
67	Preferential dust sources: A geomorphological classification designed for use in global dust-cycle models. <i>Journal of Geophysical Research</i> , 2011 , 116,		107
66	Intensified dust storm activity and Valley fever infection in the southwestern United States. <i>Geophysical Research Letters</i> , 2017 , 44, 4304-4312	4.9	105
65	Relation of vertical flux of particles smaller than 10 μ m to total aeolian horizontal mass flux at Owens Lake. <i>Journal of Geophysical Research</i> , 1997 , 102, 26009-26015		95
64	Screening the phytoremediation potential of desert broom (<i>Baccharis sarothroides</i> Gray) growing on mine tailings in Arizona, USA. <i>Environmental Pollution</i> , 2008 , 153, 362-8	9.3	89
63	Land use/land cover and point sources of the 15 December 2003 dust storm in southwestern North America. <i>Geomorphology</i> , 2009 , 105, 18-27	4.3	78
62	Geomorphic and land cover characteristics of aeolian dust sources in West Texas and eastern New Mexico, USA. <i>Aeolian Research</i> , 2012 , 3, 459-466	3.9	67
61	Multiple causes of wind erosion in the Dust Bowl. <i>Aeolian Research</i> , 2015 , 19, 15-36	3.9	63
60	Source characteristics of hazardous Chihuahuan Desert dust outbreaks. <i>Atmospheric Environment</i> , 2010 , 44, 2457-2468	5.3	58
59	Technologies for laboratory generation of dust from geological materials. <i>Journal of Hazardous Materials</i> , 2006 , 132, 1-13	12.8	57
58	Hospital admissions for asthma and acute bronchitis in El Paso, Texas: do age, sex, and insurance status modify the effects of dust and low wind events?. <i>Environmental Research</i> , 2011 , 111, 1148-55	7.9	52
57	Spatial and seasonal variability in fine mineral dust and coarse aerosol mass at remote sites across the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3080-3097	4.4	49

56	Earlier onset of the spring fine dust season in the southwestern United States. <i>Geophysical Research Letters</i> , 2016 , 43, 4001-4009	4.9	49
55	Dust: Small-scale processes with global consequences. <i>Eos</i> , 2011 , 92, 241-242	1.5	48
54	Large-scale variability of wind erosion mass flux rates at Owens Lake: 1. Vertical profiles of horizontal mass fluxes of wind-eroded particles with diameter greater than 50 μ m. <i>Journal of Geophysical Research</i> , 1997 , 102, 25977-25987		44
53	Manganese-rich rock varnish does occur in Antarctica. <i>Chemical Geology</i> , 1992 , 99, 289-298	4.2	43
52	A two-parameter Weibull function to describe airborne dust particle size distributions. <i>Earth Surface Processes and Landforms</i> , 1999 , 24, 943-955	3.7	41
51	DATING ROCK VARNISHES BY THE CATION RATIO METHOD WITH PIXE, ICP, AND THE ELECTRON MICROPROBE. <i>International Journal of PIXE</i> , 1990 , 01, 157-195	0.1	41
50	Do MODIS-defined dust sources have a geomorphological signature?. <i>Geophysical Research Letters</i> , 2016 , 43, 2606-2613	4.9	40
49	Publication trends in aeolian research: An analysis of the Bibliography of Aeolian Research. <i>Geomorphology</i> , 2009 , 105, 6-17	4.3	40
48	Elemental geochemistry of wind-erodible playa sediments, Owens Lake, California. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 189, 209-213	1.2	40
47	Wind modeling of Chihuahuan Desert dust outbreaks. <i>Atmospheric Environment</i> , 2009 , 43, 347-354	5.3	37
46	Blowing dust and highway safety in the southwestern United States: Characteristics of dust emission "hotspots" and management implications. <i>Science of the Total Environment</i> , 2018 , 621, 1023-1032	19.2	37
45	Geomorphology of the Chihuahuan Desert based on potential dust emissions. <i>Journal of Maps</i> , 2011 , 7, 249-259	2.2	36
44	Validating the use of ¹³⁷ Cs measurements to estimate rates of soil redistribution by wind. <i>Catena</i> , 2007 , 70, 455-464	5.8	28
43	Laboratory Studies of the Cloud Droplet Activation Properties and Corresponding Chemistry of Saline Playa Dust. <i>Environmental Science & Technology</i> , 2017 , 51, 1348-1356	10.3	26
42	Optical depth, size distribution and flux of dust from Owens Lake, California. <i>Earth Surface Processes and Landforms</i> , 1999 , 24, 463-479	3.7	25
41	The association of land cover with aeolian sediment production at Jornada Basin, New Mexico, USA. <i>Aeolian Research</i> , 2011 , 3, 55-66	3.9	24
40	ClNO Production from NO Uptake on Saline Playa Dusts: New Insights into Potential Inland Sources of ClNO. <i>Environmental Science & Technology</i> , 2019 , 53, 7442-7452	10.3	19
39	Fine dust emissions from active sands at coastal Oceano Dunes, California. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2947-2964	6.8	18

38	Anemochory of diapausing stages of microinvertebrates in North American drylands. <i>Freshwater Biology</i> , 2019 , 64, 1303-1314	3.1	18
37	Regional transport of a chemically distinctive dust: Gypsum from White Sands, New Mexico (USA). <i>Aeolian Research</i> , 2015 , 16, 1-10	3.9	18
36	Evidence for regional aeolian transport of freshwater micrometazoans in arid regions. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 320-330	7.9	18
35	Dust emission from crusted surfaces: Insights from field measurements and modelling. <i>Aeolian Research</i> , 2019 , 40, 1-14	3.9	17
34	Identifying Sources of Aeolian Mineral Dust: Present and Past 2014 , 51-74		16
33	Measurement of soil/dust arsenic by gas phase chemiluminescence. <i>Talanta</i> , 2008 , 77, 372-9	6.2	15
32	Salt Separation Processes in the Saltcedar <i>Tamarix ramosissima</i> (Ledeb.). <i>Communications in Soil Science and Plant Analysis</i> , 2010 , 41, 1271-1281	1.5	14
31	Identifying and characterizing dust point sources in the southwestern United States using remote sensing and GIS. <i>Geomorphology</i> , 2020 , 353, 107019	4.3	14
30	Spatial and temporal patterns of heavy metal deposition resulting from a smelter in El Paso, Texas. <i>Journal of Geochemical Exploration</i> , 2020 , 210, 106414	3.8	11
29	Transport and mixing of eolian sand from local sources resulting in variations in grain size in a gypsum dune field, White Sands, New Mexico, USA. <i>Sedimentary Geology</i> , 2016 , 333, 184-197	2.8	10
28	Particle size/composition relationships of wind-eroding sediments, Owens (dry) Lake, California, USA. <i>X-Ray Spectrometry</i> , 2008 , 37, 111-115	0.9	10
27	Wet Dust Deposition Across Texas During the 2012 Drought: An Overlooked Pathway for Elemental Flux to Ecosystems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8238-8254	4.4	9
26	A review of Earth Artificial Intelligence. <i>Computers and Geosciences</i> , 2022 , 159, 105034	4.5	9
25	Drought and land use/land cover impact on dust sources in Southern Great Plains and Chihuahuan Desert of the U.S.: Inferring anthropogenic effect. <i>Science of the Total Environment</i> , 2021 , 755, 142461	10.2	9
24	Use of light-extinction method and inverse modeling to study aerosols in the Paso del Norte Airshed. <i>Atmospheric Environment</i> , 2011 , 45, 7360-7369	5.3	8
23	Directional analysis and filtering for dust storm detection in NOAA-AVHRR imagery 2009 ,		8
22	Dust emission source characterization for visibility hazard assessment on Lordsburg Playa in Southwestern New Mexico, USA. <i>Geoenvironmental Disasters</i> , 2020 , 7, 34	3.6	6
21	End-Member Mixing Analysis (EMMA) Applied to Sediment Grain Size Distributions to Characterize Formational Processes of the Main Excavation Block, Unit 2, of the Rimrock Draw Rockshelter (35HA3855), Harney Basin, Eastern Oregon (USA). <i>Archaeometry</i> , 2017 , 59, 331-345	1.6	5

20	The Role of Hydrates, Competing Chemical Constituents, and Surface Composition on ClNO Formation. <i>Environmental Science & Technology</i> , 2021 , 55, 2869-2877	10.3	5
19	Field sampling of loose erodible material: A new system to consider the full particle-size spectrum. <i>Aeolian Research</i> , 2017 , 28, 83-90	3.9	4
18	Intercomparison of PIXE and ICP-AES Analyses of Aeolian Dust from Owens (Dry) Lake, California. <i>Geostandards and Geoanalytical Research</i> , 2012 , 36, 83-102	3.6	4
17	Comparison of Aerosol Optical Depth from MODIS Product Collection 6.1 and AERONET in the Western United States. <i>Remote Sensing</i> , 2021 , 13, 2316	5	4
16	Composition and Characteristics of Aerosols in the Southern High Plains of Texas (USA) 2009 ,		3
15	Tracing gypsiferous White Sands aerosols in the shallow critical zone in the northern Sacramento Mountains, New Mexico using Sr/Ca and ⁸⁷ Sr/ ⁸⁶ Sr ratios. <i>Geoderma</i> , 2020 , 372, 114387	6.7	3
14	Understanding dust sources through remote sensing: Making a case for CubeSats. <i>Journal of Arid Environments</i> , 2021 , 184, 104335	2.5	3
13	Combining Optical and Radar Satellite Imagery to Investigate the Surface Properties and Evolution of the Lordsburg Playa, New Mexico, USA. <i>Remote Sensing</i> , 2021 , 13, 3402	5	3
12	Associations between Dust Exposure and Hospitalizations in El Paso, Texas, USA. <i>Atmosphere</i> , 2021 , 12, 1413	2.7	2
11	Characterizing formation processes of Rimrock Lake, a Late PleistoceneHolocene playa, Harney Basin, south-eastern Oregon, USA, using an end-member mixing analysis. <i>Journal of Quaternary Science</i> , 2018 , 33, 721-737	2.3	1
10	Automated detection of dust clouds and sources in NOAA-AVHRR satellite imagery 2012 ,		1
9	MM5-HPAC simulation experiments. <i>Meteorology and Atmospheric Physics</i> , 2005 , 90, 127-138	2	1
8	Partitioning variation in vegetation communities around Lajaneh Piosphere, Iran. <i>Arid Land Research and Management</i> , 2021 , 35, 32-54	1.8	1
7	Bibliometric analysis of piosphere research: implications for conservation and scientific collaboration. <i>International Journal of Sustainable Development and World Ecology</i> , 2021 , 28, 316-325	3.8	1
6	Fine dust emissions from active sands at coastal Oceano Dunes, California 2018 ,		1
5	SALTATING PARTICLES, PLAYA CRUSTS AND DUST AEROSOLS AT OWENS (DRY) LAKE, CALIFORNIA 1996 , 21, 621		1
4	Development of a bench scale method for constant output of mineral dust. <i>Aerosol Science and Technology</i> , 2021 , 55, 692-702	3.4	0
3	New Directions for the AMS Symposium on Education. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 1465-1467	6.1	

- 2 Catching the wind: New views of aeolian processes. *Eos*, **2003**, 84, 110 1.5
- 1 Stratigraphic relationship between Rimrock Lake and Hay Lake playa sediments, Harney Basin, eastern Oregon, USA. *Journal of Paleolimnology*, **2022**, 67, 1 2.1