

Nelia W Dunbar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4876409/publications.pdf>

Version: 2024-02-01

63
papers

3,274
citations

126907

33
h-index

155660

55
g-index

63
all docs

63
docs citations

63
times ranked

3613
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 7.4 Active volcanoes in Marie Byrd Land. Geological Society Memoir, 2021, 55, 759-783.	1.7	12
2	Antarctic surface temperature and elevation during the Last Glacial Maximum. Science, 2021, 372, 1097-1101.	12.6	61
3	Co-occurrence of Acheulian and Oldowan artifacts with <i>Homo erectus</i> cranial fossils from Gona, Afar, Ethiopia. Science Advances, 2020, 6, eaaw4694.	10.3	43
4	Volcanic glass properties from 1459 C.E. volcanic event in South Pole ice core dismiss Kuwae caldera as a potential source. Scientific Reports, 2019, 9, 14437.	3.3	20
5	The SP19 chronology for the South Pole Ice Core – Part 1: volcanic matching and annual layer counting. Climate of the Past, 2019, 15, 1793-1808.	3.4	38
6	New Zealand supereruption provides time marker for the Last Glacial Maximum in Antarctica. Scientific Reports, 2017, 7, 12238.	3.3	59
7	The first physical evidence of subglacial volcanism under the West Antarctic Ice Sheet. Scientific Reports, 2017, 7, 11457.	3.3	21
8	Synchronous volcanic eruptions and abrupt climate change ~17.7 ka plausibly linked by stratospheric ozone depletion. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10035-10040.	7.1	58
9	Rapid transport of ash and sulfate from the 2011 Puyehue-Cordón Caulle (Chile) eruption to West Antarctica. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8908-8920.	3.3	24
10	Advancements and best practices for analysis and correlation of tephra and cryptotephra in ice. Quaternary Geochronology, 2017, 40, 45-55.	1.4	49
11	The WAIS Divide deep ice core WD2014 chronology – Part 2: Annual-layer counting (0–31 ka BP). Climate of the Past, 2016, 12, 769-786.	3.4	137
12	Turmoil at Turrialba Volcano (Costa Rica): Degassing and eruptive processes inferred from high-frequency gas monitoring. Journal of Geophysical Research: Solid Earth, 2016, 121, 5761-5775.	3.4	105
13	Late Oligocene–early Miocene landscape evolution of the Lake Mead region during the transition from Sevier contraction to Basin and Range extension. Bulletin of the Geological Society of America, 2015, , B31144.1.	3.3	1
14	Megacrystals track magma convection between reservoir and surface. Earth and Planetary Science Letters, 2015, 413, 1-12.	4.4	35
15	Late Miocene hominin teeth from the Gona Paleanthropological Research Project area, Afar, Ethiopia. Journal of Human Evolution, 2015, 81, 68-82.	2.6	22
16	Eruptive history and magmatic stability of Erebus volcano, Antarctica: Insights from englacial tephra. Geochemistry, Geophysics, Geosystems, 2014, 15, 4180-4202.	2.5	28
17	Glaciovolcanic evidence for a polythermal Neogene East Antarctic Ice Sheet. Geology, 2014, 42, 39-41.	4.4	17
18	Alteration of volcanoclastic deposits at Minna Bluff: Geochemical insights on mineralizing environment and climate during the Late Miocene in Antarctica. Geochemistry, Geophysics, Geosystems, 2014, 15, 3258-3280.	2.5	14

#	ARTICLE	IF	CITATIONS
19	Eruption of reverse-zoned upper Tshirege Member, Bandelier Tuff from centralized vents within Valles caldera, New Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 276, 82-104.	2.1	23
20	Climate archives from 90 to 250 ka in horizontal and vertical ice cores from the Allan Hills Blue Ice Area, Antarctica. <i>Quaternary Research</i> , 2013, 80, 562-574.	1.7	20
21	Impact of known local and tropical volcanic eruptions of the past millennium on the WAIS Divide microparticle record. <i>Geophysical Research Letters</i> , 2013, 40, 4712-4716.	4.0	18
22	On the Time Scales of Magma Genesis, Melt Evolution, Crystal Growth Rates and Magma Degassing in the Erebus Volcano Magmatic System Using the ^{238}U , ^{235}U and ^{232}Th Decay Series. <i>Journal of Petrology</i> , 2013, 54, 235-271.	2.8	39
23	Recent volcanic accretion at 9°N – 10°N East Pacific Rise as resolved by combined geochemical and geological observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2547-2574.	2.5	19
24	Neogene tectonic and climatic evolution of the Western Ross Sea, Antarctica – Chronology of events from the AND-1B drill hole. <i>Global and Planetary Change</i> , 2012, 96-97, 189-203.	3.5	27
25	Ice motion and mass balance at the Allan Hills blue-ice area, Antarctica, with implications for paleoclimate reconstructions. <i>Journal of Glaciology</i> , 2012, 58, 399-406.	2.2	27
26	Understanding melt generation beneath the slow-spreading Kolbeinsey Ridge using ^{238}U , ^{230}Th , and ^{231}Pa excesses. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6300-6329.	3.9	33
27	Mantle to surface degassing of alkalic magmas at Erebus volcano, Antarctica. <i>Earth and Planetary Science Letters</i> , 2011, 306, 261-271.	4.4	116
28	Tephrochronology of the Siple Dome ice core, West Antarctica: correlations and sources. <i>Quaternary Science Reviews</i> , 2011, 30, 1602-1614.	3.0	51
29	The last interglacial as represented in the glaciochemical record from Mount Moulton Blue Ice Area, West Antarctica. <i>Quaternary Science Reviews</i> , 2011, 30, 1940-1947.	3.0	27
30	Importance of volcanic glass alteration to sediment stabilization: offshore Japan. <i>Sedimentology</i> , 2011, 58, 1138-1154.	3.1	42
31	Climate forcing by iron fertilization from repeated ignimbrite eruptions: The icehouse – silicic large igneous province (SLIP) hypothesis. , 2009, 5, 315-324.		92
32	Obliquity-paced Pliocene West Antarctic ice sheet oscillations. <i>Nature</i> , 2009, 458, 322-328.	27.8	564
33	Geologic and taphonomic context of El Bosque Petrificado Piedra Chamana (Cajamarca, Peru). <i>Bulletin of the Geological Society of America</i> , 2009, 121, 1172-1178.	3.3	10
34	Geochemistry and mineralogy of the phonolite lava lake, Erebus volcano, Antarctica: 1972–2004 and comparison with older lavas. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 589-605.	2.1	87
35	Englacial tephrostratigraphy of Erebus volcano, Antarctica. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 549-568.	2.1	36
36	Refinement of the late Quaternary geologic history of Erebus volcano, Antarctica using $^{40}\text{Ar}/^{39}\text{Ar}$ and ^{36}Cl age determinations. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 569-577.	2.1	20

#	ARTICLE	IF	CITATIONS
37	Physical setting and tephrochronology of the summit caldera ice record at Mount Moulton, West Antarctica. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 796-812.	3.3	60
38	History of Quaternary volcanism and lava dams in western Grand Canyon based on lidar analysis, ⁴⁰ Ar/ ³⁹ Ar dating, and field studies: Implications for flow stratigraphy, timing of volcanic events, and lava dams. , 2008, 4, 183.		37
39	The geology of Gona, Afar, Ethiopia. , 2008, , .		10
40	The ⁴⁰ Ar/ ³⁹ Ar age constraints on the duration of resurgence at the Valles caldera, New Mexico. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58
41	An FTIR study of hydrogen in anorthoclase and associated melt inclusions. <i>American Mineralogist</i> , 2006, 91, 12-20.	1.9	35
42	Importance of Clay in Iron Transport and Sediment Reddening: Evidence from Reduction Features of the Abo Formation, New Mexico, U.S.A.. <i>Journal of Sedimentary Research</i> , 2005, 75, 562-571.	1.6	18
43	Dating the Siple Dome (Antarctica) ice core by manual and computer interpretation of annual layering. <i>Journal of Glaciology</i> , 2004, 50, 453-461.	2.2	90
44	⁴⁰ Ar/ ³⁹ Ar geochronology of magmatic activity, magma flux and hazards at Ruapehu volcano, Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 120, 271-287.	2.1	102
45	Tephra layers in the Siple Dome and Taylor Dome ice cores, Antarctica: Sources and correlations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	59
46	Dating firn cores by vertical strain measurements. <i>Journal of Glaciology</i> , 2002, 48, 401-406.	2.2	13
47	Solid inclusions of halite in quartz: evidence for the halite trend. <i>Chemical Geology</i> , 2001, 173, 179-191.	3.3	12
48	White Island volcano, New Zealand: carbon dioxide and sulfur dioxide emission rates and melt inclusion studies. <i>Chemical Geology</i> , 2001, 177, 187-200.	3.3	43
49	The effects of K-metasomatism on the mineralogy and geochemistry of silicic ignimbrites near Socorro, New Mexico. <i>Chemical Geology</i> , 2000, 167, 285-312.	3.3	44
50	Tectonic controls on the hydrogeology of the Rio Grande Rift, New Mexico. <i>Water Resources Research</i> , 1999, 35, 2641-2659.	4.2	54
51	Meteoritic event recorded in Antarctic ice. <i>Geology</i> , 1998, 26, 607.	4.4	38
52	Crystallization processes in an artificial magma: variations in crystal shape, growth rate and composition with melt cooling history. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 412-425.	3.1	34
53	Crystallization processes in an artificial magma: variations in crystal shape, growth rate and composition with melt cooling history. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 412-425.	3.1	4
54	Crystallization processes of anorthoclase phenocrysts in the Mount Erebus magmatic system: Evidence from crystal composition, crystal size distributions, and volatile contents of melt inclusions. <i>Antarctic Research Series</i> , 1994, , 129-146.	0.2	23

#	ARTICLE	IF	CITATIONS
55	Generation of rhyolitic melt in an artificial magma: Implications for fractional crystallization processes in natural magmas. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 57, 157-166.	2.1	8
56	Preliminary lithofacies assessment and $^{40}\text{Ar}/^{39}\text{Ar}$ ages of Cenozoic volcanic sequences in eastern Marie Byrd Land. <i>Antarctic Science</i> , 1993, 5, 105-106.	0.9	3
57	Petrogenesis and volatile stratigraphy of the Bishop Tuff: Evidence from melt inclusion analysis. <i>Journal of Geophysical Research</i> , 1992, 97, 15129-15150.	3.3	84
58	Volatile and trace element composition of melt inclusions from the Lower Bandelier Tuff: Implications for magma chamber processes and eruptive style. <i>Journal of Geophysical Research</i> , 1992, 97, 15151-15170.	3.3	68
59	Cause of chemical zoning in the Bishop (California) and Bandelier (New Mexico) magma chambers. <i>Earth and Planetary Science Letters</i> , 1992, 111, 97-108.	4.4	84
60	Volatile contents of obsidian clasts in tephra from the Taupo Volcanic Zone, New Zealand: Implications to eruptive processes. <i>Journal of Volcanology and Geothermal Research</i> , 1992, 49, 127-145.	2.1	35
61	Determination of pre-eruptive H_2O , F and Cl contents of silicic magmas using melt inclusions: Examples from Taupo volcanic center, New Zealand. <i>Bulletin of Volcanology</i> , 1989, 51, 177-184.	3.0	97
62	Pre-eruptive water content of rhyolitic magmas as determined by ion microprobe analyses of melt inclusions in phenocrysts. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 36, 293-302.	2.1	99
63	Evidence for limited zonation in silicic magma systems, Taupo Volcanic Zone, New Zealand. <i>Geology</i> , 1989, 17, 234.	4.4	67