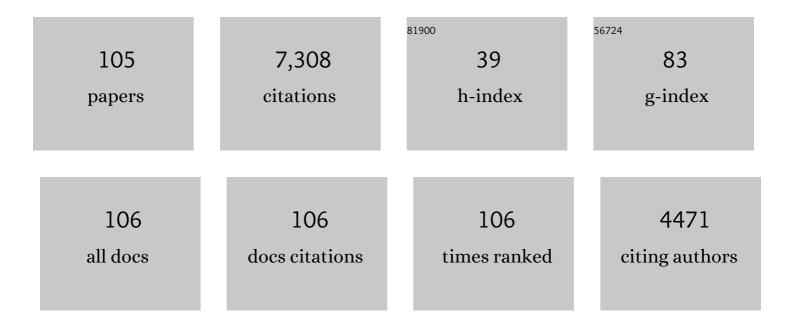
## Norman H Sleep

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mars as a time machine to Precambrian Earth. Journal of the Geological Society, 2022, 179, .	2.1	1
2	Evaluation of Seismic Hazard Models with Fragile Geologic Features. Seismological Research Letters, 2021, 92, 314-324.	1.9	7
3	Nonlinear Suppression of Highâ€Frequency S Waves by the Nearâ€Field Velocity Pulse With Reference to the 2002 Denali Earthquake. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018386.	3.4	0
4	Mild Displacements of Boulders during the 2019 Ridgecrest Earthquakes. Bulletin of the Seismological Society of America, 2020, 110, 1579-1588.	2.3	2
5	Are We Alone? An Interview with Dr. Norman Sleep. Astrobiology, 2020, 20, 563-571.	3.0	0
6	Nonlinear Interaction of Highâ€Frequency Seismic Waves With Sliding Fault Planes. Journal of Geophysical Research: Solid Earth, 2019, 124, 11748-11770.	3.4	0
7	Friction in Cold Ice Within Outer Solar System Satellites With Reference to Thermal Weakening at High Sliding Velocities. Journal of Geophysical Research E: Planets, 2019, 124, 2397-2413.	3.6	2
8	Thermal Weakening of Asperity Tips on Fault Planes at High Sliding Velocities. Geochemistry, Geophysics, Geosystems, 2019, 20, 1164-1188.	2.5	12
9	Cratonic basins with reference to the Michigan basin. Geological Society Special Publication, 2018, 472, 17-35.	1.3	4
10	Planetary Interior-Atmosphere Interaction and Habitability. , 2018, , 1-22.		2
11	Remote Faulting Triggered by Strong Seismic Waves from the Cretaceous–Paleogene Asteroid Impact. Seismological Research Letters, 2018, 89, 570-576.	1.9	9
12	Planetary Interior-Atmosphere Interaction and Habitability. , 2018, , 2937-2958.		1
13	Geological and Geochemical Constraints on the Origin and Evolution of Life. Astrobiology, 2018, 18, 1199-1219.	3.0	64
14	Asteroid bombardment and the core of Theia as possible sources for the Earth's late veneer component. Geochemistry, Geophysics, Geosystems, 2016, 17, 2623-2642.	2.5	21
15	Shallow Sedimentary Rock as a Fragile Geological Feature: Effects of Clay Content and Hydrology on Frictional Strength. Bulletin of the Seismological Society of America, 2016, 106, 2777-2783.	2.3	2
16	Heat flow, strong near-fault seismic waves, and near-fault tectonics on the central San Andreas Fault. Geochemistry, Geophysics, Geosystems, 2016, 17, 1778-1798.	2.5	2
17	Plate-tectonic evolution of the Earth: bottom-up and top-down mantle circulation. Canadian Journal of Earth Sciences, 2016, 53, 1103-1120.	1.3	38
18	Nonlinear attenuation from the interaction between different types of seismic waves and interaction of seismic waves with shallow ambient tectonic stress. Geochemistry, Geophysics, Geosystems, 2015, 16, 2336-2363.	2.5	6

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19	Longâ€ŧerm deformation driven by small ambient tectonic stresses and strong oscillating tidal within Enceladus with analogy to rock behavior near the San Andreas Fault. Geochemistry, Geophysics, Geosystems, 2015, 16, 1670-1686.	2.5	4
20	The tethered Moon. Earth and Planetary Science Letters, 2015, 427, 74-82.	4.4	52
21	Terrestrial aftermath of the Moon-forming impact. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130172.	3.4	40
22	Physics of crustal fracturing and chert dike formation triggered by asteroid impact, â^1⁄43.26 Ga, Barberton greenstone belt, South Africa. Geochemistry, Geophysics, Geosystems, 2014, 15, 1054-1070.	2.5	21
23	Ambient tectonic stress as fragile geological feature. Geochemistry, Geophysics, Geosystems, 2014, 15, 3628-3644.	2.5	9
24	Nonlinear attenuation of S-waves and Love waves within ambient rock. Geochemistry, Geophysics, Geosystems, 2014, 15, 1419-1440.	2.5	16
25	Effect of latent heat of freezing on crustal generation at low spreading rates. Geochemistry, Geophysics, Geosystems, 2014, 15, 3161-3174.	2.5	28
26	Selfâ€organization of elastic moduli in the rock above blind faults. Geochemistry, Geophysics, Geosystems, 2013, 14, 733-750.	2.5	1
27	BIOLOGICAL EFFECTS ON THE SOURCE OF GEONEUTRINOS. International Journal of Modern Physics A, 2013, 28, 1330047.	1.5	9
28	The Michigan Basin. Geodynamic Series, 2013, , 93-98.	0.1	12
29	Life: Asteroid Target, Witness from the Early Earth, and Ubiquitous Effect on Global Geology. Astrobiology, 2012, 12, 1163-1164.	3.0	0
30	Paleontology of Earth's Mantle. Annual Review of Earth and Planetary Sciences, 2012, 40, 277-300.	11.0	44
31	Microscopic elasticity and rate and state friction evolution laws. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	10
32	Maintenance of permeable habitable subsurface environments by earthquakes and tidal stresses. International Journal of Astrobiology, 2012, 11, 257-268.	1.6	14
33	Seismically observable features of mature stagnant-lid convection at the base of the lithosphere: Some scaling relationships. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	6
34	Seismically damaged regolith as self-organized fragile geological feature. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	15
35	Deep-seated downslope slip during strong seismic shaking. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	13
36	Habitable Zone Limits for Dry Planets. Astrobiology, 2011, 11, 443-460.	3.0	240

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37	Rosing, Bird, Sleep & Bjerrum reply. Nature, 2011, 474, E1-E1.	27.8	20
38	Serpentinite and the dawn of life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2857-2869.	4.0	176
39	Small-scale convection beneath oceans and continents. Science Bulletin, 2011, 56, 1292-1317.	1.7	16
40	No climate paradox under the faint early Sun. Nature, 2010, 464, 744-747.	27.8	226
41	Application of rate and state friction formalism and flash melting to thin permanent slip zones of major faults. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	7
42	Sudden and gradual compaction of shallow brittle porous rocks. Journal of Geophysical Research, 2010, 115, .	3.3	5
43	Strong seismic shaking of randomly prestressed brittle rocks, rock damage, and nonlinear attenuation. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	11
44	The Hadean-Archaean Environment. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002527-a002527.	5.5	173
45	Stagnant lid convection and carbonate metasomatism of the deep continental lithosphere. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	46
46	Stagnant lid convection and the thermal subsidence of sedimentary basins with reference to Michigan. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	14
47	Production of brief extreme ground acceleration pulses by nonlinear mechanisms in the shallow subsurface. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	20
48	Scaling relationships for chemical lid convection with applications to cratonal lithosphere. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	11
49	Nonlinear attenuation and rock damage during strong seismic ground motions. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	15
50	Channeling at the base of the lithosphere during the lateral flow of plume material beneath flow line hot spots. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	32
51	Evolutionary ecology during the rise of dioxygen in the Earth's atmosphere. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2651-2664.	4.0	57
52	Did Earthquakes Keep the Early Crust Habitable?. Astrobiology, 2007, 7, 1023-1032.	3.0	34
53	Application of rate-and-state friction laws to creep compaction of unconsolidated sand under hydrostatic loading conditions. Journal of Geophysical Research, 2007, 112, .	3.3	4
54	Edgeâ€modulated stagnantâ€lid convection and volcanic passive margins. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	27

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55	Weak thermal convection within tilted plume conduits. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	3
56	Stress and Flow beneath Island Arcs. Geophysical Journal of the Royal Astronomical Society, 2007, 42, 827-857.	0.2	72
57	Niches of the pre-photosynthetic biosphere and geologic preservation of Earth's earliest ecology. Geobiology, 2007, 5, 101-117.	2.4	102
58	Strategy for Applying Neutrino Geophysics to the Earth Sciences Including Planetary Habitability. Earth, Moon and Planets, 2007, 99, 343-358.	0.6	4
59	Emergence of a Habitable Planet. Space Science Reviews, 2007, 129, 35-78.	8.1	334
60	Impacts and the Early Evolution of Life. , 2006, , 207-251.		30
61	Real contacts and evolution laws for rate and state friction. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	33
62	Frictional dilatancy. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	11
63	Weathering of quartz as an Archean climatic indicator. Earth and Planetary Science Letters, 2006, 241, 594-602.	4.4	53
64	The rise of continents—An essay on the geologic consequences of photosynthesis. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 232, 99-113.	2.3	96
65	Mantle plumes from top to bottom. Earth-Science Reviews, 2006, 77, 231-271.	9.1	125
66	EVOLUTION OF THE CONTINENTAL LITHOSPHERE. Annual Review of Earth and Planetary Sciences, 2005, 33, 369-393.	11.0	153
67	Physical basis of evolution laws for rate and state friction. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	23
68	Archaean palaeosols and Archaean air. Nature, 2004, 432, 1-1.	27.8	7
69	Osmium isotopic compositions of Os-rich platinum group element alloys from the Klamath and Siskiyou Mountains. Journal of Geophysical Research, 2004, 109, .	3.3	37
70	Survival of Archean cratonal lithosphere. Journal of Geophysical Research, 2003, 108, .	3.3	105
71	Fate of mantle plume material trapped within a lithospheric catchment with reference to Brazil. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	19
72	Geodynamic implications of xenolith geotherms. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	42

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73	Long lasting epeirogenic uplift from mantle plumes and the origin of the Southern African Plateau. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	67
74	Local lithospheric relief associated with fracture zones and ponded plume material. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-17.	2.5	35
75	Carbon dioxide cycling through the mantle and implications for the climate of ancient Earth. Geological Society Special Publication, 2002, 199, 231-257.	1.3	18
76	Ridge-crossing mantle plumes and gaps in tracks. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-33.	2.5	41
77	Carbon dioxide cycling and implications for climate on ancient Earth. Journal of Geophysical Research, 2001, 106, 1373-1399.	3.3	474
78	Oxygenating the atmosphere. Nature, 2001, 410, 317-318.	27.8	12
79	Physics of friction and strain rate localization in synthetic fault gouge. Journal of Geophysical Research, 2000, 105, 25875-25890.	3.3	60
80	Rate- and state-dependent friction of intact rock and gouge. Journal of Geophysical Research, 1999, 104, 17847-17855.	3.3	21
81	Refugia from asteroid impacts on early Mars and the early Earth. Journal of Geophysical Research, 1998, 103, 28529-28544.	3.3	122
82	Lateral flow and ponding of starting plume material. Journal of Geophysical Research, 1997, 102, 10001-10012.	3.3	177
83	Application of a unified rate and state friction theory to the mechanics of fault zones with strain localization. Journal of Geophysical Research, 1997, 102, 2875-2895.	3.3	144
84	The puzzle of the South Pacific. Nature, 1997, 389, 439-440.	27.8	4
85	A wayward plume?. Nature, 1995, 378, 19-20.	27.8	7
86	Frictional heating and the stability of rate and state dependent frictional sliding. Geophysical Research Letters, 1995, 22, 2785-2788.	4.0	26
87	Martian plate tectonics. Journal of Geophysical Research, 1994, 99, 5639.	3.3	321
88	Top-down convection. Nature, 1993, 366, 410-411.	27.8	2
89	Upwelling beneath ocean ridges. Nature, 1993, 366, 635-636.	27.8	1
90	Creep, compaction and the weak rheology of major faults. Nature, 1992, 359, 687-692.	27.8	394

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91	Hotspot Volcanism and Mantle Plumes. Annual Review of Earth and Planetary Sciences, 1992, 20, 19-43.	11.0	114
92	A reprieve for ocean crust. Nature, 1990, 347, 518-519.	27.8	2
93	Processes within the Mantle: <i>Seismic Tomography and Mantie Circulation</i> . R. K. O'Nions and B. Parsons, Eds. Royal Society, London, 1989. viii, 152 pp., illus. £37.50. Reprinted from <i>Philosophical Transactions of the Royal Society</i> A, vol. 328 (1989). From a meeting, London, U.K., April 1988 Science, 1990. 248, 1141-1141.	12.6	0
94	Annihilation of ecosystems by large asteroid impacts on the early Earth. Nature, 1989, 342, 139-142.	27.8	508
95	More about the moment of inertia of Mars. Geophysical Research Letters, 1989, 16, 1333-1336.	4.0	32
96	Gradual entrainment of a chemical layer at the base of the mantle by overlying convection. Geophysical Journal International, 1988, 95, 437-447.	2.4	119
97	Dynamically supported geoid highs over hotspots: Observation and theory. Journal of Geophysical Research, 1988, 93, 7690-7708.	3.3	209
98	Gravity and lithospheric stress on the terrestrial planets with reference to the Tharsis Region of Mars. Journal of Geophysical Research, 1985, 90, 4469-4489.	3.3	83
99	A Midâ€Ocean Ridge Thermal Model: Constraints on the volume of axial hydrothermal heat flux. Journal of Geophysical Research, 1985, 90, 11345-11353.	3.3	199
100	Thermal contraction and flexure of intracratonal basins: a three-dimensional study of the Michigan basin. Geophysical Journal International, 1984, 76, 587-635.	2.4	60
101	Archean Plate Tectonics: Constraints and Inferences. Journal of Geology, 1982, 90, 363-379.	1.4	348
102	A deep borehole in the Michigan Basin. Journal of Geophysical Research, 1978, 83, 5815-5819.	3.3	48
103	Formation of oceanic crust: Some thermal constraints. Journal of Geophysical Research, 1975, 80, 4037-4042.	3.3	389
104	Segregation of Magma from a Mostly Crystalline Mush. Bulletin of the Geological Society of America, 1974, 85, 1225.	3.3	191
105	Sensitivity of heat flow and gravity to the mechanism of sea-floor spreading. Journal of Geophysical Research, 1969, 74, 542-549.	3.3	229