

# Peter Driscoll

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,561  
citations

361413

20  
h-index

477307

29  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1611  
citing authors

#	ARTICLE	IF	CITATIONS
1	History and Future of the Martian Dynamo and Implications of a Hypothetical Solid Inner Core. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006663.	3.6	13
2	VPlanet: The Virtual Planet Simulator. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 024502.	3.1	28
3	Super-Earth Internal Structures and Initial Thermal States. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006124.	3.6	26
4	Geodynamo Conductivity Limits. <i>Geophysical Research Letters</i> , 2019, 46, 7982-7989.	4.0	17
5	Editorial: Stratification in the Cores of Earth and Other Planets. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	0
6	Geodynamo recharged. <i>Nature Geoscience</i> , 2019, 12, 83-84.	12.9	7
7	Experimental Constraints on an MgO Exsolution-Driven Geodynamo. <i>Geophysical Research Letters</i> , 2019, 46, 7379-7385.	4.0	17
8	What makes a planet habitable?. <i>Science</i> , 2019, 364, 434-435.	12.6	18
9	The Habitability of Proxima Centauri b: Environmental States and Observational Discriminants. <i>Astrobiology</i> , 2018, 18, 133-189.	3.0	102
10	Paleomagnetic Biases Inferred From Numerical Dynamos and the Search for Geodynamo Evolution. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	7
11	Insufficient Energy From MgO Exsolution to Power Early Geodynamo. <i>Geophysical Research Letters</i> , 2017, 44, 11,376.	4.0	24
12	Simulating 2.4Ga of geodynamo history. <i>Geophysical Research Letters</i> , 2016, 43, 5680-5687.	4.0	85
13	Whole planet coupling between climate, mantle, and core: Implications for rocky planet evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1885-1914.	2.5	73
14	Frequency of Proterozoic geomagnetic superchrons. <i>Earth and Planetary Science Letters</i> , 2016, 437, 9-14.	4.4	45
15	Testing the dynamic coupling of the core-mantle and inner core boundaries. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4689-4701.	3.4	7
16	Tidal Heating of Earth-like Exoplanets around M Stars: Thermal, Magnetic, and Orbital Evolutions. <i>Astrobiology</i> , 2015, 15, 739-760.	3.0	96
17	On the thermal and magnetic histories of Earth and Venus: Influences of melting, radioactivity, and conductivity. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 236, 36-51.	1.9	93
18	Nonrandom geomagnetic reversal times and geodynamo evolution. <i>Earth and Planetary Science Letters</i> , 2014, 388, 9-17.	4.4	17

#	ARTICLE	IF	CITATIONS
19	Divergent evolution of Earth and Venus: Influence of degassing, tectonics, and magnetic fields. <i>Icarus</i> , 2013, 226, 1447-1464.	2.5	67
20	From superchrons to secular variation: A broadband dynamo frequency spectrum for the geomagnetic dipole. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 75-82.	4.4	37
21	A statistical boundary layer model for the mantle's region. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
22	Optimal dynamos in the cores of terrestrial exoplanets: Magnetic field generation and detectability. <i>Icarus</i> , 2011, 213, 12-23.	2.5	74
23	Geodynamo reversal frequency and heterogeneous core-mantle boundary heat flow. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 180, 66-79.	1.9	105
24	Effects of buoyancy and rotation on the polarity reversal frequency of gravitationally driven numerical dynamos. <i>Geophysical Journal International</i> , 2009, 178, 1337-1350.	2.4	55
25	Polarity reversals in geodynamo models with core evolution. <i>Earth and Planetary Science Letters</i> , 2009, 282, 24-33.	4.4	43
26	Dipole collapse and reversal precursors in a numerical dynamo. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 173, 121-140.	1.9	45
27	FIVE PLANETS AND AN INDEPENDENT CONFIRMATION OF HD 196885Ab FROM LICK OBSERVATORY. <i>Astrophysical Journal</i> , 2009, 703, 1545-1556.	4.5	59
28	Five Intermediate-Period Planets from the N2K Sample. <i>Astrophysical Journal</i> , 2007, 669, 1336-1344.	4.5	116
29	Retired A Stars and Their Companions: Exoplanets Orbiting Three Intermediate-Mass Subgiants. <i>Astrophysical Journal</i> , 2007, 665, 785-793.	4.5	223
30	Two Jovian-Mass Planets in Earthlike Orbits. <i>Astrophysical Journal</i> , 2007, 670, 1391-1400.	4.5	46