

Bradford J Foley

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

803
citations

687363

13
h-index

794594

19
g-index

24
all docs

24
docs citations

24
times ranked

747
citing authors

#	ARTICLE	IF	CITATIONS
1	THE ROLE OF PLATE TECTONICSâ€“CLIMATE COUPLING AND EXPOSED LAND AREA IN THE DEVELOPMENT OF HABITABLE CLIMATES ON ROCKY PLANETS. <i>Astrophysical Journal</i> , 2015, 812, 36.	4.5	124
2	The conditions for plate tectonics on super-Earths: Inferences from convection models with damage. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 281-290.	4.4	112
3	Generation of plateâ€like behavior and mantle heterogeneity from a spherical, viscoplastic convection model. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	91
4	Upper and mid-mantle anisotropy beneath the Tonga slab. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	78
5	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
6	Initiation of plate tectonics from postâ€magma ocean thermochemical convection. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8538-8561.	3.4	69
7	Carbon Cycling and Habitability of Earth-Sized Stagnant Lid Planets. <i>Astrobiology</i> , 2018, 18, 873-896.	3.0	66
8	Scaling laws for convection with temperature-dependent viscosity and grain-damage. <i>Geophysical Journal International</i> , 2014, 199, 580-603.	2.4	32
9	The dependence of planetary tectonics on mantle thermal state: applications to early Earth evolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170409.	3.4	31
10	Habitability of Earth-like Stagnant Lid Planets: Climate Evolution and Recovery from Snowball States. <i>Astrophysical Journal</i> , 2019, 875, 72.	4.5	31
11	Long-term preservation of early formed mantle heterogeneity by mobile lid convection: Importance of grainsize evolution. <i>Earth and Planetary Science Letters</i> , 2017, 475, 94-105.	4.4	18
12	Warming early Mars with climate cycling: The effect ofâ€% $C _O$ altimg="si136.svg"><mml:mrow><mml:mi>C</mml:mi><mml:msub><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mrow><mml:mi>C</mml:mi><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow></mml:math> Icarus, 2020, 345, 113770.	2.5	18
13	A Volatile-poor Formation of LHS 3844b Based on Its Lack of Significant Atmosphere. <i>Planetary Science Journal</i> , 2020, 1, 36.	3.6	18
14	On the dynamics of coupled grain size evolution and shear heating in lithospheric shear zones. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 283, 7-25.	1.9	14
15	Waterworlds May Have Better Climate Buffering Capacities than Their Continental Counterparts. <i>Astrophysical Journal Letters</i> , 2020, 902, L10.	8.3	10
16	Mantle Degassing Lifetimes through Galactic Time and the Maximum Age Stagnant-lid Rocky Exoplanets Can Support Temperate Climates. <i>Astrophysical Journal Letters</i> , 2022, 930, L6.	8.3	8
17	Orbital Dynamics and the Evolution of Planetary Habitability in the AU Mic System. <i>Astronomical Journal</i> , 2022, 163, 20.	4.7	6
18	The Effects of Planetary and Stellar Parameters on Brittle Lithospheric Thickness. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006952.	3.6	3

#	ARTICLE	IF	CITATIONS
19	Scaling laws for stagnant-lid convection with a buoyant crust. <i>Geophysical Journal International</i> , 2021, 228, 631-663.	2.4	1
20	Timescale of Short-Term Subduction Episodicity in Convection Models With Grain Damage: Applications to Archean Tectonics. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020478.	3.4	0
21	The Heat Budget of Rocky Planets. , 0 , 4-1-4-60.		0