

Amy C Barr

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,044
citations

430874

18
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of domes on Europa: The role of thermally induced compositional diapirism. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	102
2	Modeling stresses on satellites due to nonsynchronous rotation and orbital eccentricity using gravitational potential theory. <i>Icarus</i> , 2009, 200, 188-206.	2.5	91
3	Convection in ice I shells and mantles with self-consistent grain size. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	88
4	Enceladus: An Active Cryovolcanic Satellite. , 2009, , 683-724.		65
5	Onset of convection in the icy Galilean satellites: Influence of rheology. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	61
6	Constraints on gas giant satellite formation from the interior states of partially differentiated satellites. <i>Icarus</i> , 2008, 198, 163-177.	2.5	61
7	Mobile lid convection beneath Enceladus' south polar terrain. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	59
8	On the origin of Earth's Moon. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1573-1601.	3.6	53
9	Recent tectonic activity on Pluto driven by phase changes in the ice shell. <i>Geophysical Research Letters</i> , 2016, 43, 6775-6782.	4.0	52
10	Interior structures and tidal heating in the TRAPPIST-1 planets. <i>Astronomy and Astrophysics</i> , 2018, 613, A37.	5.1	49
11	Origin of a partially differentiated Titan. <i>Icarus</i> , 2010, 209, 858-862.	2.5	42
12	Interpreting the densities of the Kuiper belt's dwarf planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1542-1548.	4.4	38
13	Convective instability in ice I with non-Newtonian rheology: Application to the icy Galilean satellites. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
14	Scaling of melt production in hypervelocity impacts from high-resolution numerical simulations. <i>Icarus</i> , 2011, 211, 913-916.	2.5	37
15	Global resurfacing of Uranus's moon Miranda by convection. <i>Geology</i> , 2014, 42, 931-934.	4.4	31
16	Tidal heating and the habitability of the TRAPPIST-1 exoplanets. <i>Astronomy and Astrophysics</i> , 2019, 624, A2.	5.1	30
17	Formation of Ganymede's grooved terrain by convection-driven resurfacing. <i>Icarus</i> , 2014, 227, 206-209.	2.5	26
18	Compaction and Melt Transport in Ammonia-Rich Ice Shells: Implications for the Evolution of Triton. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3105-3118.	3.6	25

#	ARTICLE	IF	CITATIONS
19	Enhanced Mixing in Giant Impact Simulations with a New Lagrangian Method. <i>Astrophysical Journal</i> , 2019, 870, 127.	4.5	21
20	Forecasting Rates of Volcanic Activity on Terrestrial Exoplanets and Implications for Cryovolcanic Activity on Extrasolar Ocean Worlds. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 084402.	3.1	19
21	Experimental Constraints on the Fatigue of Icy Satellite Lithospheres by Tidal Forces. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 390-404.	3.6	17
22	Formation of exomoons: a solar system perspective. <i>The Astronomical Review</i> , 2016, 12, 24-52.	4.0	16
23	The mass and density of the dwarf planet (225088) 2007 OR10. <i>Icarus</i> , 2019, 334, 3-10.	2.5	16
24	Scientific Research Identity Development Need Not Wait Until College: Examining the Motivational Impact of a Pre-college Authentic Research Experience. <i>Research in Science Education</i> , 2022, 52, 1481-1496.	2.3	8
25	Pluto's telltale heart. <i>Nature</i> , 2016, 540, 42-43.	27.8	0