Amy C Barr

List of Publications by Year
in descending order

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	Scientific Research Identity Development Need Not Wait Until College: Examining the Motivational Impact of a Pre-college Authentic Research Experience. Research in Science Education, 2022, 52, 1481-1496.	2.3	8
2	Forecasting Rates of Volcanic Activity on Terrestrial Exoplanets and Implications for Cryovolcanic Activity on Extrasolar Ocean Worlds. Publications of the Astronomical Society of the Pacific, 2020, 132, 084402.	3.1	19
3	The mass and density of the dwarf planet (225088) 2007 OR10. Icarus, 2019, 334, 3-10.	2.5	16
4	Enhanced Mixing in Giant Impact Simulations with a New Lagrangian Method. Astrophysical Journal, 2019, 870, 127.	4.5	21
5	Tidal heating and the habitability of the TRAPPIST-1 exoplanets. Astronomy and Astrophysics, 2019, 624, A2.	5.1	30
6	Experimental Constraints on the Fatigue of Icy Satellite Lithospheres by Tidal Forces. Journal of Geophysical Research E: Planets, 2018, 123, 390-404.	3.6	17
7	Compaction and Melt Transport in Ammoniaâ€Rich Ice Shells: Implications for the Evolution of Triton. Journal of Geophysical Research E: Planets, 2018, 123, 3105-3118.	3.6	25
8	Interior structures and tidal heating in the TRAPPIST-1 planets. Astronomy and Astrophysics, 2018, 613, A37.	5.1	49
9	Pluto's telltale heart. Nature, 2016, 540, 42-43.	27.8	0
10	Interpreting the densities of the Kuiper belt's dwarf planets. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1542-1548.	4.4	38
11	On the origin of Earth's Moon. Journal of Geophysical Research E: Planets, 2016, 121, 1573-1601.	3.6	53
12	Formation of exomoons: a solar system perspective. The Astronomical Review, 2016, 12, 24-52.	4.0	16
13	Recent tectonic activity on Pluto driven by phase changes in the ice shell. Geophysical Research Letters, 2016, 43, 6775-6782.	4.0	52
14	Global resurfacing of Uranusâ€™s moon Miranda by convection. Geology, 2014, 42, 931-934.	4.4	31
15	Formation of Ganymedeâ€™s grooved terrain by convection-driven resurfacing. Icarus, 2014, 227, 206-209.	2.5	26
16	Scaling of melt production in hypervelocity impacts from high-resolution numerical simulations. Icarus, 2011, 211, 913-916.	2.5	37
17	Origin of a partially differentiated Titan. Icarus, 2010, 209, 858-862.	2.5	42
18	Modeling stresses on satellites due to nonsynchronous rotation and orbital eccentricity using gravitational potential theory. Icarus, 2009, 200, 188-206.	2.5	91

#	Article	IF	Citations
19	Enceladus: An Active Cryovolcanic Satellite. , 2009, , 683-724.		65
20	Constraints on gas giant satellite formation from the interior states of partially differentiated satellites. Icarus, 2008, 198, 163-177.	2.5	61
21	Mobile lid convection beneath Enceladus' south polar terrain. Journal of Geophysical Research, 2008, 113, .	3.3	59
22	Convection in ice I shells and mantles with self-consistent grain size. Journal of Geophysical Research, 2007, 112, .	3.3	88
23	Onset of convection in the icy Galilean satellites: Influence of rheology. Journal of Geophysical Research, 2005, 110, .	3.3	61
24	The origin of domes on Europa: The role of thermally induced compositional diapirism. Geophysical Research Letters, 2004, 31, .	4.0	102
25	Convective instability in ice I with non-Newtonian rheology: Application to the icy Galilean satellites. Journal of Geophysical Research, 2004, 109, .	3.3	37