

Ben Smith

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

7,104
citations

159525

30
h-index

265120

42
g-index

66
all docs

66
docs citations

66
times ranked

5690
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Comparisons of Satellite and Airborne Altimetry With Ground-Based Data From the Interior of the Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090572. | 1.5 | 26 |
| 2 | The Scientific Legacy of NASA's Operation IceBridge. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000712. | 9.0 | 49 |
| 3 | Ice-shelf retreat drives recent Pine Island Glacier speedup. <i>Science Advances</i> , 2021, 7, . | 4.7 | 44 |
| 4 | A Generalized Interpolation Material Point Method for Shallow Ice Shelves. 2: Anisotropic Nonlocal Damage Mechanics and Rift Propagation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002292. | 1.3 | 6 |
| 5 | A Generalized Interpolation Material Point Method for Shallow Ice Shelves. 1: Shallow Shelf Approximation and Ice Thickness Evolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002277. | 1.3 | 2 |
| 6 | Abrupt Common Era hydroclimate shifts drive west Greenland ice cap change. <i>Nature Geoscience</i> , 2021, 14, 756-761. | 5.4 | 9 |
| 7 | Ocean-induced melt volume directly paces ice loss from Pine Island Glacier. <i>Science Advances</i> , 2021, 7, eabi5738. | 4.7 | 9 |
| 8 | Mass balance of the ice sheets and glaciers – Progress since AR5 and challenges. <i>Earth-Science Reviews</i> , 2020, 201, 102976. | 4.0 | 44 |
| 9 | Pervasive ice sheet mass loss reflects competing ocean and atmosphere processes. <i>Science</i> , 2020, 368, 1239-1242. | 6.0 | 261 |
| 10 | A decade of variability on Jakobshavn Isbr : ocean temperatures pace speed through influence on mantle rigidity. <i>Cryosphere</i> , 2020, 14, 211-227. | 1.5 | 39 |
| 11 | Brief communication: Heterogenous thinning and subglacial lake activity on Thwaites Glacier, West Antarctica. <i>Cryosphere</i> , 2020, 14, 4603-4609. | 1.5 | 13 |
| 12 | Measuring Height Change Around the Periphery of the Greenland Ice Sheet With Radar Altimetry. <i>Frontiers in Earth Science</i> , 2019, 7, . | 0.8 | 16 |
| 13 | Land ice height-retrieval algorithm for NASA's ICESat-2 photon-counting laser altimeter. <i>Remote Sensing of Environment</i> , 2019, 233, 111352. | 4.6 | 113 |
| 14 | Regularized Coulomb Friction Laws for Ice Sheet Sliding: Application to Pine Island Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2019, 46, 4764-4771. | 1.5 | 93 |
| 15 | The Reference Elevation Model of Antarctica. <i>Cryosphere</i> , 2019, 13, 665-674. | 1.5 | 357 |
| 16 | Ice shelf basal melt rates from a high-resolution digital elevation model (DEM) record for Pine Island Glacier, Antarctica. <i>Cryosphere</i> , 2019, 13, 2633-2656. | 1.5 | 42 |
| 17 | Melt at grounding line controls observed and future retreat of Smith, Pope, and Kohler glaciers. <i>Cryosphere</i> , 2019, 13, 2817-2834. | 1.5 | 10 |
| 18 | Assessment of ICESat-2 Ice Sheet Surface Heights, Based on Comparisons Over the Interior of the Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 13072-13078. | 1.5 | 102 |

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|----|--|-----|-----------|
| 19 | Changes in flow of Crosson and Dotson ice shelves, West Antarctica, in response to elevated melt. <i>Cryosphere</i> , 2018, 12, 1415-1431. | 1.5 | 16 |
| 20 | Modeling biases in laser-altimetry measurements caused by scattering of green light in snow. <i>Remote Sensing of Environment</i> , 2018, 215, 398-410. | 4.6 | 10 |
| 21 | Observed rapid bedrock uplift in Amundsen Sea Embayment promotes ice-sheet stability. <i>Science</i> , 2018, 360, 1335-1339. | 6.0 | 147 |
| 22 | The Ice, Cloud, and land Elevation Satellite-2 (ICESat-2): Science requirements, concept, and implementation. <i>Remote Sensing of Environment</i> , 2017, 190, 260-273. | 4.6 | 600 |
| 23 | Connected subglacial lake drainage beneath Thwaites Glacier, West Antarctica. <i>Cryosphere</i> , 2017, 11, 451-467. | 1.5 | 70 |
| 24 | An automated, open-source pipeline for mass production of digital elevation models (DEMs) from very-high-resolution commercial stereo satellite imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 116, 101-117. | 4.9 | 447 |
| 25 | Seasonal to multiyear variability of glacier surface velocity, terminus position, and sea ice/ice mélange in northwest Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 818-833. | 1.0 | 121 |
| 26 | Brief Communication: Sudden drainage of a subglacial lake beneath the Greenland Ice Sheet. <i>Cryosphere</i> , 2015, 9, 103-108. | 1.5 | 24 |
| 27 | Brief Communication: Further summer speedup of Jakobshavn Isbr . <i>Cryosphere</i> , 2014, 8, 209-214. | 1.5 | 120 |
| 28 | The Greenland Ice Mapping Project (GIMP) land classification and surface elevation data sets. <i>Cryosphere</i> , 2014, 8, 1509-1518. | 1.5 | 401 |
| 29 | Constraining the recent mass balance of Pine Island and Thwaites glaciers, West Antarctica, with airborne observations of snow accumulation. <i>Cryosphere</i> , 2014, 8, 1375-1392. | 1.5 | 90 |
| 30 | Marine Ice Sheet Collapse Potentially Under Way for the Thwaites Glacier Basin, West Antarctica. <i>Science</i> , 2014, 344, 735-738. | 6.0 | 651 |
| 31 | Distinct patterns of seasonal Greenland glacier velocity. <i>Geophysical Research Letters</i> , 2014, 41, 7209-7216. | 1.5 | 190 |
| 32 | Airborne radar and ice-core observations of annual snow accumulation over Thwaites Glacier, West Antarctica confirm the spatiotemporal variability of global and regional atmospheric models. <i>Geophysical Research Letters</i> , 2013, 40, 3649-3654. | 1.5 | 119 |
| 33 | Influence of ice-sheet geometry and supraglacial lakes on seasonal ice-flow variability. <i>Cryosphere</i> , 2013, 7, 1185-1192. | 1.5 | 80 |
| 34 | Repeat warming in Greenland. <i>Nature Geoscience</i> , 2012, 5, 369-370. | 5.4 | 0 |
| 35 | A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189. | 6.0 | 1,246 |
| 36 | Mass balance of Greenland's three largest outlet glaciers, 2000-2010. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 1.5 | 116 |

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|----|---|-----|-----------|
| 37 | Light propagation in firn: application to borehole video. <i>Journal of Glaciology</i> , 2010, 56, 614-624. | 1.1 | 3 |
| 38 | Sensitivity of 21st century sea level to ocean-induced thinning of Pine Island Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 199 |
| 39 | An inventory of active subglacial lakes in Antarctica detected by ICESat (2003-2008). <i>Journal of Glaciology</i> , 2009, 55, 573-595. | 1.1 | 291 |
| 40 | A low-frequency ice-penetrating radar system adapted for use from an airplane: test results from Bering and Malaspina Glaciers, Alaska, USA. <i>Annals of Glaciology</i> , 2009, 50, 93-97. | 2.8 | 41 |
| 41 | Increased flow speed on a large East Antarctic outlet glacier caused by subglacial floods. <i>Nature Geoscience</i> , 2008, 1, 827-831. | 5.4 | 242 |
| 42 | Continued evolution of Jakobshavn Isbrae following its rapid speedup. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 202 |
| 43 | Seasonal Speedup Along the Western Flank of the Greenland Ice Sheet. <i>Science</i> , 2008, 320, 781-783. | 6.0 | 383 |