

Alan D Howard

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141
papers

10,287
citations

54
h-index

99
g-index

149
ext. papers

11,429
ext. citations

8.2
avg, IF

6.36
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 141 | A detachment-limited model of drainage basin evolution. <i>Water Resources Research</i> , 1994 , 30, 2261-2285 | 5.4 | 820 |
| 140 | Channel changes in badlands. <i>Bulletin of the Geological Society of America</i> , 1983 , 94, 739 | 3.9 | 572 |
| 139 | Modeling fluvial erosion on regional to continental scales. <i>Journal of Geophysical Research</i> , 1994 , 99, 13971-13986 | | 540 |
| 138 | The case for rainfall on a warm, wet early Mars. <i>Journal of Geophysical Research</i> , 2002 , 107, 21-1-21-36 | | 414 |
| 137 | The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015 , 350, aad1815 | 33.3 | 295 |
| 136 | An intense terminal epoch of widespread fluvial activity on early Mars: 2. Increased runoff and paleolake development. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 280 |
| 135 | An intense terminal epoch of widespread fluvial activity on early Mars: 1. Valley network incision and associated deposits. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 235 |
| 134 | Geomorphology of the Colorado River in the Grand Canyon. <i>Journal of Geology</i> , 1981 , 89, 269-298 | 2 | 193 |
| 133 | The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016 , 351, 1284-93 | 33.3 | 180 |
| 132 | Sufficient conditions for river meandering: A simulation approach. <i>Water Resources Research</i> , 1984 , 20, 1659-1667 | 5.4 | 177 |
| 131 | The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016 , 351, aad8866 | 33.3 | 164 |
| 130 | Erosion of cohesionless sediment by groundwater seepage. <i>Water Resources Research</i> , 1988 , 24, 1659-1674 | 5.4 | 159 |
| 129 | Large alluvial fans on Mars. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 155 |
| 128 | A large paleolake basin at the head of Ma'adim Vallis, Mars. <i>Science</i> , 2002 , 296, 2209-12 | 33.3 | 152 |
| 127 | Badland Morphology and Evolution: Interpretation Using a Simulation Model. <i>Earth Surface Processes and Landforms</i> , 1997 , 22, 211-227 | 3.7 | 151 |
| 126 | Crater morphometry and modification in the Sinus Sabaeus and Margaritifer Sinus regions of Mars. <i>Journal of Geophysical Research</i> , 1997 , 102, 13321-13340 | | 150 |
| 125 | Martian Layered Fluvial Deposits: Implications for Noachian Climate Scenarios. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 147 |

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| 124 | The Role of Eolian Processes in Forming Surface Features of the Martian Polar Layered Deposits. <i>Icarus</i> , 2000 , 144, 267-288 | 3.8 | 137 |
| 123 | Sand transport model of barchan dune equilibrium. <i>Sedimentology</i> , 1978 , 25, 307-338 | 3.3 | 130 |
| 122 | Can springs cut canyons into rock?. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 124 |
| 121 | Pervasive aqueous paleoflow features in the Aeolis/Zephyria Plana region, Mars. <i>Icarus</i> , 2009 , 200, 52-76 | 3.8 | 121 |
| 120 | Interior channels in Martian valley networks: Discharge and runoff production. <i>Geology</i> , 2005 , 33, 489 | 5 | 121 |
| 119 | Theoretical model of optimal drainage networks. <i>Water Resources Research</i> , 1990 , 26, 2107-2117 | 5.4 | 119 |
| 118 | Geomorphology of Ma'adim Vallis, Mars, and associated paleolake basins. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 111 |
| 117 | Stratigraphic relationships within Martian polar cap deposits. <i>Icarus</i> , 1982 , 50, 161-215 | 3.8 | 111 |
| 116 | Simulating the development of Martian highland landscapes through the interaction of impact cratering, fluvial erosion, and variable hydrologic forcing. <i>Geomorphology</i> , 2007 , 91, 332-363 | 4.3 | 109 |
| 115 | Crater degradation in the Martian highlands: Morphometric analysis of the Sinus Sabaeus region and simulation modeling suggest fluvial processes. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 106 |
| 114 | Early development of karst systems: 1. Preferential flow path enlargement under laminar flow. <i>Water Resources Research</i> , 1994 , 30, 2837-2846 | 5.4 | 105 |
| 113 | Equilibrium and time scales in geomorphology: Application to sand-bed alluvial streams. <i>Earth Surface Processes and Landforms</i> , 1982 , 7, 303-325 | 3.7 | 105 |
| 112 | Structural control of the rapids and pools of the Colorado river in the Grand Canyon. <i>Science</i> , 1978 , 202, 629-31 | 33.3 | 104 |
| 111 | Formation of amphitheater-headed valleys by waterfall erosion after large-scale slumping on Hawai'i. <i>Bulletin of the Geological Society of America</i> , 2007 , 119, 805-822 | 3.9 | 103 |
| 110 | Origin of the stepped topography of the Martian poles. <i>Icarus</i> , 1978 , 34, 581-599 | 3.8 | 102 |
| 109 | Simulation of Stream Networks by Headword Growth and Branching*. <i>Geographical Analysis</i> , 2010 , 3, 29-50 | 2.9 | 95 |
| 108 | Topological and Geometrical Properties of Braided Streams. <i>Water Resources Research</i> , 1970 , 6, 1674-1688 | 3.4 | 95 |
| 107 | Geomorphic and stratigraphic analysis of Crater Terby and layered deposits north of Hellas basin, Mars. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 91 |

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| 106 | Drainage basin evolution in Noachian Terra Cimmeria, Mars. <i>Journal of Geophysical Research</i> , 2002 , 107, 10-1 | | 88 |
| 105 | Long-term precipitation and late-stage valley network formation: Landform simulations of Parana Basin, Mars. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 86 |
| 104 | Optimal Angles of Stream Junction: Geometric, Stability to Capture, and Minimum Power Criteria. <i>Water Resources Research</i> , 1971 , 7, 863-873 | 5.4 | 86 |
| 103 | Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto. <i>Nature</i> , 2016 , 540, 94-96 | 50.4 | 84 |
| 102 | The state and future of Mars polar science and exploration. <i>Icarus</i> , 2000 , 144, 210-42 | 3.8 | 83 |
| 101 | Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. <i>Nature</i> , 2016 , 534, 82-5 | 50.4 | 81 |
| 100 | Initial results from the New Horizons exploration of 2014 MU, a small Kuiper Belt object. <i>Science</i> , 2019 , 364, | 33.3 | 80 |
| 99 | Long Profile Development of Bedrock Channels: Interaction of Weathering, Mass Wasting, Bed Erosion, and Sediment Transport. <i>Geophysical Monograph Series</i> , 1998 , 297-319 | 1.1 | 77 |
| 98 | River meandering on Earth and Mars: A comparative study of Aeolis Dorsa meanders, Mars and possible terrestrial analogs of the Usuktuk River, AK, and the Quinn River, NV. <i>Geomorphology</i> , 2015 , 240, 102-120 | 4.3 | 70 |
| 97 | Fluvial features on Titan: Insights from morphology and modeling. <i>Bulletin of the Geological Society of America</i> , 2013 , 125, 299-321 | 3.9 | 69 |
| 96 | Minimum hydrochemical conditions allowing limestone cave development. <i>Water Resources Research</i> , 1994 , 30, 607-615 | 5.4 | 68 |
| 95 | Early Development of Karst Systems: 2. Turbulent Flow. <i>Water Resources Research</i> , 1995 , 31, 19-26 | 5.4 | 67 |
| 94 | Sedimentology and climatic environment of alluvial fans in the martian Saheki crater and a comparison with terrestrial fans in the Atacama Desert. <i>Icarus</i> , 2014 , 229, 131-156 | 3.8 | 64 |
| 93 | Multivariate characterization of meandering. <i>Geomorphology</i> , 1991 , 4, 161-186 | 4.3 | 63 |
| 92 | Topography and stratigraphy of Martian polar layered deposits. <i>Icarus</i> , 1982 , 50, 140-160 | 3.8 | 63 |
| 91 | Simulation Model of Stream Capture. <i>Bulletin of the Geological Society of America</i> , 1971 , 82, 1355 | 3.9 | 63 |
| 90 | Simulated degradation of lunar impact craters and a new method for age dating farside mare deposits. <i>Journal of Geophysical Research</i> , 2000 , 105, 20387-20401 | | 62 |
| 89 | Role of debris flows in long-term landscape denudation in the central Appalachians of Virginia. <i>Geology</i> , 2003 , 31, 339 | 5 | 59 |

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| 88 | Effect of slope on the threshold of motion and its application to orientation of wind ripples. <i>Bulletin of the Geological Society of America</i> , 1977 , 88, 853 | 3.9 | 59 |
| 87 | Role of hypsometry and planform in basin hydrologic response. <i>Hydrological Processes</i> , 1990 , 4, 373-385 | 3.3 | 54 |
| 86 | Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016 , 351, aad9045 | 33.3 | 52 |
| 85 | Outflow channels with deltaic deposits in Ismenius Lacus, Mars. <i>Icarus</i> , 2013 , 226, 385-401 | 3.8 | 51 |
| 84 | Paleohydrology of Eberswalde crater, Mars. <i>Geomorphology</i> , 2015 , 240, 83-101 | 4.3 | 50 |
| 83 | Topographic influences on development of Martian valley networks. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 50 |
| 82 | Catalogue of large alluvial fans in martian impact craters. <i>Icarus</i> , 2008 , 194, 101-110 | 3.8 | 47 |
| 81 | Simulation modeling and statistical classification of escarpment planforms. <i>Geomorphology</i> , 1995 , 12, 187-214 | 4.3 | 47 |
| 80 | Hydrology of early Mars: Valley network incision. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1365-1387 | 4.1 | 46 |
| 79 | Chapter 11. Spring sapping and valley network development. <i>Special Paper of the Geological Society of America</i> , 1990 , 235-266 | | 46 |
| 78 | The spiral troughs of Mars as cyclic steps. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1835-1857 | 4.1 | 45 |
| 77 | New Martian valley network volume estimate consistent with ancient ocean and warm and wet climate. <i>Nature Communications</i> , 2017 , 8, 15766 | 17.4 | 44 |
| 76 | Geological mapping of Sputnik Planitia on Pluto. <i>Icarus</i> , 2017 , 287, 261-286 | 3.8 | 43 |
| 75 | The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020 , 367, | 33.3 | 43 |
| 74 | Geomorphologic mapping of titan's polar terrains: Constraining surface processes and landscape evolution. <i>Icarus</i> , 2017 , 282, 214-236 | 3.8 | 43 |
| 73 | Quaternary deposits and landscape evolution of the central Blue Ridge of Virginia. <i>Geomorphology</i> , 2003 , 56, 139-154 | 4.3 | 43 |
| 72 | Sublimation as a landform-shaping process on Pluto. <i>Icarus</i> , 2017 , 287, 320-333 | 3.8 | 42 |
| 71 | Late Hesperian to early Amazonian midlatitude Martian valleys: Evidence from Newton and Gorgonum basins. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 42 |

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| 70 | A cold-wet middle-latitude environment on Mars during the Hesperian-Amazonian transition: Evidence from northern Arabia valleys and paleolakes. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 1667-1694 | 4.1 | 39 |
| 69 | Present and past glaciation on Pluto. <i>Icarus</i> , 2017 , 287, 287-300 | 3.8 | 39 |
| 68 | Modeling planform evolution of a mud-dominated meandering river: Quinn River, Nevada, USA. <i>Earth Surface Processes and Landforms</i> , 2014 , 39, 1365-1377 | 3.7 | 39 |
| 67 | The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016 , 539, 65-68 | 50.4 | 38 |
| 66 | Sedimentary resurfacing and fretted terrain development along the crustal dichotomy boundary, Aeolis Mensae, Mars. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 38 |
| 65 | Hydrology of early Mars: Lake basins. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 37 |
| 64 | A spatially explicit model of runoff, evaporation, and lake extent: Application to modern and late Pleistocene lakes in the Great Basin region, western United States. <i>Water Resources Research</i> , 2009 , 45, | 5.4 | 37 |
| 63 | Fluvial erosion as a mechanism for crater modification on Titan. <i>Icarus</i> , 2016 , 270, 114-129 | 3.8 | 37 |
| 62 | Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018 , 300, 129-144 | 3.8 | 36 |
| 61 | Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017 , 44, 11,745-11,753 | 4.9 | 36 |
| 60 | Stratigraphy of Aeolis Dorsa, Mars: Stratigraphic context of the great river deposits. <i>Icarus</i> , 2015 , 253, 223-242 | 3.8 | 34 |
| 59 | How to make a meandering river. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17245-6 | 11.5 | 33 |
| 58 | Are the basins of Titan's Hotei Regio and Tui Regio sites of former low latitude seas?. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 32 |
| 57 | Modeling fluvial erosion and deposition on continental shelves during sea level cycles. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 32 |
| 56 | Modeling glacial flow on and onto Pluto's Sputnik Planitia. <i>Icarus</i> , 2017 , 287, 301-319 | 3.8 | 31 |
| 55 | Photoclinometric determination of the topography of the Martian north polar cap. <i>Icarus</i> , 1982 , 50, 245-258 | 3.58 | 31 |
| 54 | Badlands 1994 , 213-242 | | 31 |
| 53 | Computer simulation of the role of groundwater seepage in forming Martian valley networks. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 29 |

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| 52 | Alluvial Fan Morphology, distribution and formation on Titan. <i>Icarus</i> , 2016 , 270, 238-247 | 3.8 | 28 |
| 51 | Tidal flow field in a small basin. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 28 |
| 50 | Fresh shallow valleys in the Martian midlatitudes as features formed by meltwater flow beneath ice. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 128-153 | 4.1 | 27 |
| 49 | Geology before Pluto: Pre-encounter considerations. <i>Icarus</i> , 2015 , 246, 65-81 | 3.8 | 24 |
| 48 | The landscape of Titan as witness to its climate evolution. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 2060-2077 | 4.1 | 24 |
| 47 | Inverted fluvial features in the Aeolis-Zephyria Plana, western Medusae Fossae Formation, Mars: Evidence for post-formation modification. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 24 |
| 46 | Fluvial Valley Networks on Mars 2008 , 419-451 | | 24 |
| 45 | Active Channel Geometry and Discharge Relations of U.S. Piedmont and Midwestern Streams: The Variable Exponent Model Revisited. <i>Water Resources Research</i> , 1995 , 31, 2353-2365 | 5.4 | 24 |
| 44 | Application of a boundary-layer model to flow over an eolian dune. <i>Journal of Geophysical Research</i> , 1985 , 90, 10631-10640 | | 23 |
| 43 | Resolving the era of river-forming climates on Mars using stratigraphic logs of river-deposit dimensions. <i>Earth and Planetary Science Letters</i> , 2015 , 420, 55-65 | 5.3 | 22 |
| 42 | Ice-driven creep on Martian debris slopes. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 22 |
| 41 | Pluto: Pits and mantles on uplands north and east of Sputnik Planitia. <i>Icarus</i> , 2017 , 293, 218-230 | 3.8 | 21 |
| 40 | Sublimation-driven erosion on Callisto: A landform simulation model test. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 20 |
| 39 | Scarp-bounded benches in Gorgonum Chaos, Mars: Formed beneath an ice-covered lake?. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 20 |
| 38 | Formation of gravel pavements during fluvial erosion as an explanation for persistence of ancient cratered terrain on Titan and Mars. <i>Icarus</i> , 2016 , 270, 100-113 | 3.8 | 19 |
| 37 | Modeling of ice pinnacle formation on Callisto. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 21-45 | 4.1 | 19 |
| 36 | Rock Slopes 1994 , 123-172 | | 18 |
| 35 | HiRISE views enigmatic deposits in the Sirenum Fossae region of Mars. <i>Icarus</i> , 2010 , 205, 53-63 | 3.8 | 17 |

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| 34 | Sublimation-driven erosion on Hyperion: Topographic analysis and landform simulation model tests. <i>Icarus</i> , 2012 , 220, 268-276 | 3.8 | 16 |
| 33 | The Global Distribution of Craters With Alluvial Fans and Deltas on Mars. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091653 | 4.9 | 16 |
| 32 | Constraints on the Noachian Paleoclimate of the Martian Highlands From Landscape Evolution Modeling. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2958-2979 | 4.1 | 16 |
| 31 | Drainage network development in the Keanakōiātephra, Kīlauea Volcano, Hawai'i Implications for fluvial erosion and valley network formation on early Mars. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 15 |
| 30 | Origin and development of theater-headed valleys in the Atacama Desert, northern Chile: Morphological analogs to martian valley networks. <i>Icarus</i> , 2014 , 243, 296-310 | 3.8 | 14 |
| 29 | An implicit finite difference method for drainage basin evolution. <i>Water Resources Research</i> , 2002 , 38, 21-1-21-5 | 5.4 | 13 |
| 28 | Formation of metre-scale bladed roughness on Europa's surface by ablation of ice. <i>Nature Geoscience</i> , 2018 , 11, 901-904 | 18.3 | 12 |
| 27 | A progressive black top hat transformation algorithm for estimating valley volumes on Mars. <i>Computers and Geosciences</i> , 2015 , 75, 17-23 | 4.5 | 11 |
| 26 | Great Expectations: Plans and Predictions for New Horizons Encounter With Kuiper Belt Object 2014 MU69 (Ultima Thule) <i>Geophysical Research Letters</i> , 2018 , 45, 8111-8120 | 4.9 | 11 |
| 25 | Morphometric analysis of Martian valley network basins using a circularity function. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 11 |
| 24 | Processes of limestone cave development. <i>International Journal of Speleology</i> , 1964 , 1, 47-60 | 2 | 10 |
| 23 | Badlands and Gullying 2009 , 265-299 | | 10 |
| 22 | Rock Slopes 2009 , 189-232 | | 10 |
| 21 | Rock-Mantled Slopes 1994 , 173-212 | | 9 |
| 20 | Century scale rainfall in the absolute Atacama Desert: Landscape response and implications for past and future rainfall. <i>Quaternary Science Reviews</i> , 2021 , 254, 106797 | 3.9 | 9 |
| 19 | An Assessment of Regional Variations in Martian Modified Impact Crater Morphology. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 763-779 | 4.1 | 7 |
| 18 | Evidence for a short period of hydrologic activity in Newton crater, Mars, near the Hesperian-Amazonian transition. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1082-1093 | 4.1 | 7 |
| 17 | Controls on the degree of fluvial incision of continental shelves. <i>Computers and Geosciences</i> , 2008 , 34, 1381-1393 | 4.5 | 7 |

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| 16 | Environmental management of the Colorado River within the Grand Canyon. <i>Environmental Management</i> , 1977 , 1, 391-400 | 3.1 | 7 |
| 15 | Evidence for ancient lakes in the Hellas region 2010 , 195-222 | | 7 |
| 14 | Washboard and fluted terrains on Pluto as evidence for ancient glaciation. <i>Nature Astronomy</i> , 2019 , 3, 62-68 | 12.1 | 7 |
| 13 | Taking the measure of a landscape: Comparing a simulated and natural landscape in the Virginia Coastal Plain. <i>Geomorphology</i> , 2012 , 137, 27-40 | 4.3 | 6 |
| 12 | Introduction to the special issue: Planetary geomorphology. <i>Geomorphology</i> , 2015 , 240, 1-7 | 4.3 | 5 |
| 11 | Rock-Mantled Slopes 2009 , 233-263 | | 5 |
| 10 | The Nature and Origin of Deposits in Uzboi Vallis on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1842-1862 | 4.1 | 4 |
| 9 | Degradation of Endeavour Crater Based on Orbital and Rover-Based Observations in Combination With Landscape Evolution Modeling. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 1472-1494 | 4.1 | 3 |
| 8 | Correction to "Are the basins of Titan's Hotei Regio and Tui Regio sites of former low latitude seas?" <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 3 |
| 7 | GLOBAL DISTRIBUTION OF ALLUVIAL FANS AND DELTAS ON MARS 2018 , | | 3 |
| 6 | Quasi-periodic climatic changes on Mars and Earth. <i>Eos</i> , 1981 , 62, 755 | 1.5 | 2 |
| 5 | Comment on "The volume of water required to carve the Martian valley networks: Improved constraints using updated methods" <i>Icarus</i> , 2020 , 336, 113321 | 3.8 | 1 |
| 4 | Modeling global-scale mass flows on the Lagrangian satellites of Dione and Tethys. <i>Icarus</i> , 2021 , 369, 114612 | 3.8 | 1 |
| 3 | Inverted channel variations identified on a distal portion of a bajada in the central Atacama Desert, Chile. <i>Geomorphology</i> , 2021 , 393, 107925 | 4.3 | 1 |
| 2 | Reply to: Penitente formation is unlikely on Europa. <i>Nature Geoscience</i> , 2020 , 13, 20-21 | 18.3 | 0 |
| 1 | Modeling Planetary Landscapes 2021 , | | |