

James R Zimbelman

List of Publications by Year in descending order

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43
papers

1,992
citations

279798

23
h-index

302126

39
g-index

46
all docs

46
docs citations

46
times ranked

1071
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Transverse Aeolian Ridges (TARs) on Mars. <i>Geomorphology</i> , 2008, 101, 703-720. | 2.6 | 158 |
| 2 | Pervasive aqueous paleoflow features in the Aeolis/Zephyria Plana region, Mars. <i>Icarus</i> , 2009, 200, 52-76. | 2.5 | 144 |
| 3 | Extraterrestrial dunes: An introduction to the special issue on planetary dune systems. <i>Geomorphology</i> , 2010, 121, 1-14. | 2.6 | 144 |
| 4 | Origin of the Medusae Fossae Formation, Mars: Insights from a synoptic approach. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 141 |
| 5 | Medusae Fossae Formation: New perspectives from Mars Global Surveyor. <i>Journal of Geophysical Research</i> , 2002, 107, 2-1. | 3.3 | 121 |
| 6 | Evaluation of paleohydrologic models for terrestrial inverted channels: Implications for application to martian sinuous ridges. <i>Geomorphology</i> , 2009, 107, 300-315. | 2.6 | 99 |
| 7 | Transverse Aeolian Ridges on Mars: First results from HiRISE images. <i>Geomorphology</i> , 2010, 121, 22-29. | 2.6 | 96 |
| 8 | Latitude-dependent nature and physical characteristics of transverse aeolian ridges on Mars. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 90 |
| 9 | HiRISE images of yardangs and sinuous ridges in the lower member of the Medusae Fossae Formation, Mars. <i>Icarus</i> , 2010, 205, 198-210. | 2.5 | 82 |
| 10 | Transverse Aeolian Ridges (TARs) on Mars II: Distributions, orientations, and ages. <i>Icarus</i> , 2011, 213, 116-130. | 2.5 | 80 |
| 11 | Thermal mapping of the northern equatorial and temperate latitudes of Mars. <i>Journal of Geophysical Research</i> , 1979, 84, 8239-8251. | 3.3 | 73 |
| 12 | Estimates of rheologic properties for flows on the Martian volcano Ascreaus Mons. <i>Journal of Geophysical Research</i> , 1985, 90, 157-162. | 3.3 | 65 |
| 13 | Rheology of the 1983 Royal Gardens basalt flows, Kilauea Volcano, Hawaii. <i>Bulletin of Volcanology</i> , 1986, 48, 87-96. | 3.0 | 62 |
| 14 | Non-active dunes in the Acheron Fossae Region of Mars between the Viking and Mars Global Surveyor eras. <i>Geophysical Research Letters</i> , 2000, 27, 1069-1072. | 4.0 | 54 |
| 15 | Dune Worlds. , 2014, , . | | 51 |
| 16 | The rate of granule ripple movement on Earth and Mars. <i>Icarus</i> , 2009, 203, 71-76. | 2.5 | 47 |
| 17 | Hesperian Age for Western Medusae Fossae Formation, Mars. <i>Science</i> , 2012, 336, 1683-1683. | 12.6 | 46 |
| 18 | Image resolution and evaluation of genetic hypotheses for planetary landscapes. <i>Geomorphology</i> , 2001, 37, 179-199. | 2.6 | 42 |

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|----|--|------|-----------|
| 19 | Is the Gordii Dorsum escarpment on Mars an exhumed transcurrent fault?. <i>Nature</i> , 1988, 336, 143-146. | 27.8 | 41 |
| 20 | Morphology and emplacement of a long channeled lava flow near Ascreaeus Mons Volcano, Mars. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 41 |
| 21 | Cross-sectional profiles of sand ripples, megaripples, and dunes: a method for discriminating between formational mechanisms. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1120-1125. | 2.5 | 36 |
| 22 | Precision topography of a reversing sand dune at Bruneau Dunes, Idaho, as an analog for Transverse Aeolian Ridges on Mars. <i>Icarus</i> , 2014, 230, 29-37. | 2.5 | 35 |
| 23 | Patterns in Mobility and Modification of Middle- and High-Latitude Southern Hemisphere Dunes on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3205-3219. | 3.6 | 35 |
| 24 | Spatial resolution and the geologic interpretation of martian morphology: Implications for subsurface volatiles. <i>Icarus</i> , 1987, 71, 257-267. | 2.5 | 33 |
| 25 | Dingo Gap: Curiosity Went Up a Small Transverse Aeolian Ridge and Came Down a Megaripple. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006489. | 3.6 | 23 |
| 26 | Volcanism on the Red Planet: Mars. , 2000, , 75-112. | | 23 |
| 27 | Plateaus and sinuous ridges as the fingerprints of lava flow inflation in the Eastern Tharsis Plains of Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 342, 29-46. | 2.1 | 21 |
| 28 | Rafted pumice: A new model for the formation of the Medusae Fossae Formation, Mars. <i>Icarus</i> , 2020, 343, 113684. | 2.5 | 16 |
| 29 | The transition between sand ripples and megaripples on Mars. <i>Icarus</i> , 2019, 333, 127-129. | 2.5 | 15 |
| 30 | Lava-Rise Plateaus and Inflation Pits in the McCartys Lava Flow Field, New Mexico: An Analog for Pahoehoe-Like Lava Flows on Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005975. | 3.6 | 15 |
| 31 | Recent near-surface wind directions inferred from mapping sand ripples on Martian dunes. <i>Icarus</i> , 2015, 261, 169-181. | 2.5 | 14 |
| 32 | Wind streaks: geological and botanical effects on surface albedo contrast. <i>Geomorphology</i> , 1996, 17, 167-185. | 2.6 | 13 |
| 33 | Evaluation of large data sets for Transverse Aeolian Ridges (TARs) on Earth and Mars. <i>Planetary and Space Science</i> , 2020, 189, 104966. | 1.7 | 9 |
| 34 | Emplacement of the 1907 Mauna Loa basalt flow as derived from precision topography and satellite imaging. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 837-847. | 2.1 | 6 |
| 35 | Eolian dunes and deposits in the western United States as analogs to wind-related features on Mars. , 2007, , 232-264. | | 5 |
| 36 | Summary of the Third International Planetary Dunes Workshop: Remote Sensing and Image Analysis of Planetary Dunes, Flagstaff, Arizona, USA, June 12-15, 2012. <i>Aeolian Research</i> , 2013, 8, 29-38. | 2.7 | 3 |

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|----|--|-----|-----------|
| 37 | Martian volcanism: Current state of knowledge and known unknowns. <i>Chemie Der Erde</i> , 2022, 82, 125886. | 2.0 | 3 |
| 38 | Surface slope effects for ripple orientation on sand dunes in LÃ³pez crater, Terra Tyrrhena region of Mars. <i>Aeolian Research</i> , 2017, 26, 57-62. | 2.7 | 2 |
| 39 | Great Sand Dunes. <i>Dunes of the World</i> , 2020, , 239-285. | 0.5 | 2 |
| 40 | Learning About Planets Through Studying Wind-Related Processes on Earth. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1003-1006. | 3.6 | 1 |
| 41 | Marzieh Foroutan. <i>Planetary and Space Science</i> , 2020, 191, 104996. | 1.7 | 1 |
| 42 | Medusae Fossae Formation and the northern lowlands. , 2021, , 138-160. | | 1 |
| 43 | Igneous composition. , 2021, , 162-189. | | 0 |