

Scott D Guzewich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7731352/publications.pdf>

Version: 2024-02-01

55
papers

3,088
citations

218677

26
h-index

155660

55
g-index

71
all docs

71
docs citations

71
times ranked

2587
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Martian Dust. , 2022, , 637-666. | | 6 |
| 2 | Volcanic Climate Warming Through Radiative and Dynamical Feedbacks of SO ₂ Emissions. Geophysical Research Letters, 2022, 49, . | 4.0 | 5 |
| 3 | The dynamic atmospheric and aeolian environment of Jezero crater, Mars. Science Advances, 2022, 8, . | 10.3 | 47 |
| 4 | The Mars Environmental Dynamics Analyzer, MEDA. A Suite of Environmental Sensors for the Mars 2020 Mission. Space Science Reviews, 2021, 217, 48. | 8.1 | 57 |
| 5 | Gravity Wave Observations by the Mars Science Laboratory REMS Pressure Sensor and Comparison With Mesoscale Atmospheric Modeling With MarsWRF. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006907. | 3.6 | 11 |
| 6 | 3D Simulations of the Early Martian Hydrological Cycle Mediated by a H ₂ CO ₂ Greenhouse. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006825. | 3.6 | 12 |
| 7 | Limits on Runoff Episode Duration for Early Mars: Integrating Lake Hydrology and Climate Models. Geophysical Research Letters, 2021, 48, e2021GL093523. | 4.0 | 5 |
| 8 | The Surface Energy Budget at Gale Crater During the First 2500 Sols of the Mars Science Laboratory Mission. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006804. | 3.6 | 16 |
| 9 | MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. Planetary Science Journal, 2021, 2, 211. | 3.6 | 6 |
| 10 | Estimating the altitudes of Martian water-ice clouds above the Mars Science Laboratory rover landing site. Planetary and Space Science, 2020, 182, 104785. | 1.7 | 9 |
| 11 | Studies of the 2018/Mars Year 34 Planetâ€œEncircling Dust Storm. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006700. | 3.6 | 9 |
| 12 | The Lineâ€œofâ€œSight Extinction Record at Gale Crater as Observed by MSL's Mastcam and Navcam through âˆ¼42,500â€œSols. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006465. | 3.6 | 3 |
| 13 | The Impact of Planetary Rotation Rate on the Reflectance and Thermal Emission Spectrum of Terrestrial Exoplanets around Sunlike Stars. Astrophysical Journal, 2020, 893, 140. | 4.5 | 5 |
| 14 | Aphelion Cloud Belt phase function investigations with Mars Color Imager (MARCI). Planetary and Space Science, 2020, 184, 104840. | 1.7 | 6 |
| 15 | Design of a direct-detection wind and aerosol lidar for mars orbit. CEAS Space Journal, 2020, 12, 149-162. | 2.3 | 12 |
| 16 | Detections of Water Vapor Increase Over the North Polar Troughs on Mars as Observed by CRISM. Geophysical Research Letters, 2020, 47, e2019GL086195. | 4.0 | 3 |
| 17 | Atmospheric transport into polar regions on Mars in different orbital epochs. Icarus, 2020, 347, 113816. | 2.5 | 8 |
| 18 | Changes in Soil Cohesion Due to Water Vapor Exchange: A Proposed Dryâ€œFlow Trigger Mechanism for Recurring Slope Lineae on Mars. Geophysical Research Letters, 2020, 47, e2020GL087618. | 4.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Visibility and Line-of-Sight Extinction Estimates in Gale Crater During the 2018/MY34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 9414-9421. | 4.0 | 13 |
| 20 | The Methane Diurnal Variation and Microsecond Flux at Gale Crater, Mars as Constrained by the ExoMars Trace Gas Orbiter and Curiosity Observations. <i>Geophysical Research Letters</i> , 2019, 46, 9430-9438. | 4.0 | 31 |
| 21 | Effects of the MY34/2018 Global Dust Storm as Measured by MSL REMS in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1899-1912. | 3.6 | 40 |
| 22 | Large Dust Aerosol Sizes Seen During the 2018 Martian Global Dust Event by the Curiosity Rover. <i>Geophysical Research Letters</i> , 2019, 46, 9448-9456. | 4.0 | 58 |
| 23 | Understanding the water cycle above the north polar cap on Mars using MRO CRISM retrievals of water vapor. <i>Icarus</i> , 2019, 321, 722-735. | 2.5 | 13 |
| 24 | IRTF/CSHELL mapping of atmospheric HDO, H ₂ O and D/H on Mars during northern summer. <i>Icarus</i> , 2019, 330, 204-216. | 2.5 | 8 |
| 25 | Seasonal Variation in Martian Water Ice Cloud Particle Size. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 636-643. | 3.6 | 21 |
| 26 | Vertical and horizontal heterogeneity of atmospheric dust loading in northern Gale Crater, Mars. <i>Icarus</i> , 2019, 329, 197-206. | 2.5 | 6 |
| 27 | Constraints on Mars Aphelion Cloud Belt phase function and ice crystal geometries. <i>Planetary and Space Science</i> , 2019, 168, 62-72. | 1.7 | 8 |
| 28 | Albedos, Equilibrium Temperatures, and Surface Temperatures of Habitable Planets. <i>Astrophysical Journal</i> , 2019, 884, 75. | 4.5 | 18 |
| 29 | Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 71-79. | 4.0 | 138 |
| 30 | The cascade from local to global dust storms on Mars: Temporal and spatial thresholds on thermal and dynamical feedback. <i>Icarus</i> , 2018, 302, 514-536. | 2.5 | 21 |
| 31 | An investigation of dust storms observed with the Mars Color Imager. <i>Icarus</i> , 2017, 289, 199-213. | 2.5 | 28 |
| 32 | What causes Mars' annular polar vortices?. <i>Geophysical Research Letters</i> , 2017, 44, 71-78. | 4.0 | 28 |
| 33 | The Modern Near-Surface Martian Climate: A Review of In-situ Meteorological Data from Viking to Curiosity. <i>Space Science Reviews</i> , 2017, 212, 295-338. | 8.1 | 153 |
| 34 | Penitentes as the origin of the bladed terrain of Tartarus Dorsa on Pluto. <i>Nature</i> , 2017, 541, 188-190. | 27.8 | 43 |
| 35 | Winds measured by the Rover Environmental Monitoring Station (REMS) during the Mars Science Laboratory (MSL) rover's Bagnold Dunes Campaign and comparison with numerical modeling using MarsWRF. <i>Icarus</i> , 2017, 291, 203-231. | 2.5 | 119 |
| 36 | The Vertical Dust Profile Over Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2779-2792. | 3.6 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | The effect of dust on the martian polar vortices. <i>Icarus</i> , 2016, 278, 100-118. | 2.5 | 26 |
| 38 | Martian polar vortices: Comparison of reanalyses. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1770-1785. | 3.6 | 35 |
| 39 | Atmospheric tides in Gale Crater, Mars. <i>Icarus</i> , 2016, 268, 37-49. | 2.5 | 45 |
| 40 | Mars Orbiter Camera climatology of textured dust storms. <i>Icarus</i> , 2015, 258, 1-13. | 2.5 | 54 |
| 41 | General circulation models of the dynamics of Pluto's volatile transport on the eve of the New Horizons encounter. <i>Icarus</i> , 2015, 254, 306-323. | 2.5 | 17 |
| 42 | MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210. | 12.6 | 166 |
| 43 | Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459. | 12.6 | 90 |
| 44 | Seasonal variations in Pluto's atmospheric tides. <i>Icarus</i> , 2015, 246, 247-267. | 2.5 | 10 |
| 45 | Influence of water ice clouds on nighttime tropical temperature structure as seen by the Mars Climate Sounder. <i>Geophysical Research Letters</i> , 2014, 41, 3375-3381. | 4.0 | 47 |
| 46 | The vertical distribution of Martian aerosol particle size. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2694-2708. | 3.6 | 42 |
| 47 | Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480. | 12.6 | 508 |
| 48 | Thermal tides during the 2001 Martian global-scale dust storm. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 506-519. | 3.6 | 42 |
| 49 | X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932. | 12.6 | 327 |
| 50 | Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505. | 12.6 | 280 |
| 51 | Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. <i>Science</i> , 2013, 341, 260-263. | 12.6 | 241 |
| 52 | Mission to the Trojan asteroids: Lessons learned during a JPL Planetary Science Summer School mission design exercise. <i>Planetary and Space Science</i> , 2013, 76, 68-82. | 1.7 | 1 |
| 53 | The impact of a realistic vertical dust distribution on the simulation of the Martian General Circulation. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 980-993. | 3.6 | 37 |
| 54 | High-altitude dust layers on Mars: Observations with the Thermal Emission Spectrometer. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1177-1194. | 3.6 | 60 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Observations of planetary waves and nonmigrating tides by the Mars Climate Sounder. Journal of Geophysical Research, 2012, 117, . | 3.3 | 45 |