Catherine M Weitz

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Degradation at the <i>InSight</i> Landing Site, <i>Homestead Hollow</i> , Mars: Constraints From Rock Heights and Shapes. Earth and Space Science, 2022, 9, . | 2.6 | 3 |
| 2 | CRISMâ€Based High Spatial Resolution Thermal Inertia Mapping Along Curiosity's Traverses in Gale Crater. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 11 |
| 3 | Orbital Observations of a Marker Horizon at Gale Crater. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 5 |
| 4 | In Situ and Orbital Stratigraphic Characterization of the InSight Landing Site—A Type Example of a Regolith overed Lava Plain on Mars. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 17 |
| 5 | The Aeolian Environment in Glen Torridon, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 14 |
| 6 | The Physical Properties and Geochemistry of Grains on Aeolian Bedforms at Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 9 |
| 7 | Vortexâ€Dominated Aeolian Activity at InSight's Landing Site, Part 2: Local Meteorology, Transport Dynamics, and Model Analysis. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006514. | 3.6 | 19 |
| 8 | Vortexâ€Dominated Aeolian Activity at InSight's Landing Site, Part 1: Multiâ€Instrument Observations, Analysis, and Implications. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006757. | 3.6 | 23 |
| 9 | Crater Morphometry on the Mafic Floor Unit at Jezero Crater, Mars: Comparisons to a Known Basaltic Lava Plain at the InSight Landing Site. Geophysical Research Letters, 2020, 47, e2020GL089607. | 4.0 | 11 |
| 10 | Comparison of InSight <i>Homestead</i> Hollow to Hollows at the Spirit Landing Site. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006435. | 3.6 | 10 |
| 11 | An Impact Crater Origin for the InSight Landing Site at Homestead Hollow, Mars: Implications for Near Surface Stratigraphy, Surface Processes, and Erosion Rates. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006333. | 3.6 | 24 |
| 12 | Degradation of <i>Homestead Hollow</i> at the <i>InSight</i> Landing Site Based on the Distribution and Properties of Local Deposits. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006350. | 3.6 | 20 |
| 13 | Geology of the InSight landing site on Mars. Nature Communications, 2020, 11, 1014. | 12.8 | 107 |
| 14 | Implementing New Feature Extraction Techniques for Characterization of Complex Mineral Signatures of Salty Regions on Mars. , 2020, , . | | 0 |
| 15 | Formation of clays, ferrihydrite, and possible salts in Hydrae Chasma, Mars. Icarus, 2019, 319, 392-406. | 2.5 | 8 |
| 16 | GEOLOGY OF THE INSIGHT LANDING SITE, MARS. , 2019, , . | | 2 |
| 17 | AN IMPACT ORIGIN FOR HOMESTEAD HOLLOW, THE LANDING LOCATION OF THE INSIGHT LANDER ON MARS. , 2019, , . | | 4 |
| 18 | SURFACE ALTERATION FROM LANDING INSIGHT ON MARS AND ITS IMPLICATIONS FOR SHALLOW REGOLITH | | 5 |

STRUCTURE., 2019, , .

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|----|--|-----|-----------|
| 19 | MODIFICATION OF HOMESTEAD HOLLOW AT THE INSIGHT LANDING SITE. , 2019, , . | | 1 |
| 20 | Sand Mineralogy Within the Bagnold Dunes, Gale Crater, as Observed In Situ and From Orbit. Geophysical Research Letters, 2018, 45, 9488-9497. | 4.0 | 52 |
| 21 | Morphologic Diversity of Martian Ripples: Implications for Largeâ€Ripple Formation. Geophysical Research Letters, 2018, 45, 10,229. | 4.0 | 59 |
| 22 | The Bagnold Dunes in Southern Summer: Active Sediment Transport on Mars Observed by the Curiosity Rover. Geophysical Research Letters, 2018, 45, 8853-8863. | 4.0 | 50 |
| 23 | Sand Grain Sizes and Shapes in Eolian Bedforms at Gale Crater, Mars. Geophysical Research Letters, 2018, 45, 9471-9479. | 4.0 | 71 |
| 24 | Evidence for impact melt sheets in lunar highland smooth plains and implications for polar landing sites. Icarus, 2018, 314, 294-298. | 2.5 | 3 |
| 25 | Investigation of Lunar Spinels at Sinus Aestuum. Journal of Geophysical Research E: Planets, 2017, 122, 2013-2033. | 3.6 | 11 |
| 26 | Stratigraphy and formation of clays, sulfates, and hydrated silica within a depression in Coprates Catena, Mars. Journal of Geophysical Research E: Planets, 2016, 121, 805-835. | 3.6 | 16 |
| 27 | Groundwater flow induced collapse and flooding in Noctis Labyrinthus, Mars. Planetary and Space Science, 2016, 124, 1-14. | 1.7 | 18 |
| 28 | Mineralogy, morphology and stratigraphy of the light-toned interior layered deposits at Juventae Chasma. Icarus, 2015, 251, 315-331. | 2.5 | 23 |
| 29 | Mixtures of clays and sulfates within deposits in western Melas Chasma, Mars. Icarus, 2015, 251, 291-314. | 2.5 | 53 |
| 30 | Reconstructing the aqueous history within the southwestern Melas basin, Mars: Clues from stratigraphic and morphometric analyses of fans. Icarus, 2014, 242, 19-37. | 2.5 | 38 |
| 31 | Fresh exposures of hydrous Feâ€bearing amorphous silicates on Mars. Geophysical Research Letters, 2014, 41, 8744-8751. | 4.0 | 21 |
| 32 | Gypsum, opal, and fluvial channels within a trough of Noctis Labyrinthus, Mars: Implications for aqueous activity during the Late Hesperian to Amazonian. Planetary and Space Science, 2013, 87, 130-145. | 1.7 | 42 |
| 33 | Geologic relationships between gray hematite, sulfates, and clays in Capri Chasma. Journal of Geophysical Research, 2012, 117, . | 3.3 | 31 |
| 34 | Most Mars minerals in a nutshell: Various alteration phases formed in a single environment in Noctis Labyrinthus. Journal of Geophysical Research, 2012, 117, . | 3.3 | 74 |
| 35 | Diverse mineralogies in two troughs of Noctis Labyrinthus, Mars. Geology, 2011, 39, 899-902. | 4.4 | 63 |
| 36 | The High Resolution Imaging Science Experiment (HiRISE) during MRO's Primary Science Phase (PSP). Icarus, 2010, 205, 2-37. | 2.5 | 153 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Mineralogy and chemistry of cobbles at Meridiani Planum, Mars, investigated by the Mars Exploration Rover Opportunity. Journal of Geophysical Research, 2010, 115, . | 3.3 | 14 |
| 38 | Visible and nearâ€infrared multispectral analysis of geochemically measured rock fragments at the Opportunity landing site in Meridiani Planum. Journal of Geophysical Research, 2010, 115, . | 3.3 | 7 |
| 39 | Mineralogy of Juventae Chasma: Sulfates in the lightâ€ŧoned mounds, mafic minerals in the bedrock, and hydrated silica and hydroxylated ferric sulfate on the plateau. Journal of Geophysical Research, 2009, 114, . | 3.3 | 156 |
| 40 | Sublacustrine depositional fans in southwest Melas Chasma. Journal of Geophysical Research, 2009, 114, . | 3.3 | 68 |
| 41 | Gray hematite distribution and formation in Ophir and Candor chasmata. Journal of Geophysical Research, 2008, 113, . | 3.3 | 24 |
| 42 | Soil sedimentology at Gusev Crater from Columbia Memorial Station to Winter Haven. Journal of Geophysical Research, 2008, 113, . | 3.3 | 21 |
| 43 | Meteorites on Mars observed with the Mars Exploration Rovers. Journal of Geophysical Research, 2008, 113, . | 3.3 | 75 |
| 44 | Hematite spherules at Meridiani: Results from MI, Miniâ€TES, and Pancam. Journal of Geophysical Research, 2008, 113, . | 3.3 | 38 |
| 45 | Lightâ€ŧoned strata and inverted channels adjacent to Juventae and Ganges chasmata, Mars. Geophysical Research Letters, 2008, 35, . | 4.0 | 49 |
| 46 | Surface processes recorded by rocks and soils on Meridiani Planum, Mars: Microscopic Imager observations during Opportunity's first three extended missions. Journal of Geophysical Research, 2008, 113, . | 3.3 | 39 |
| 47 | Opaline silica in young deposits on Mars. Geology, 2008, 36, 847. | 4.4 | 303 |
| 48 | Morphology, chemistry, and spectral properties of Hawaiian rock coatings and implications for Mars. Journal of Geophysical Research, 2007, 112, . | 3.3 | 76 |
| 49 | Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment (HiRISE). Journal of Geophysical Research, 2007, 112, . | 3.3 | 1,253 |
| 50 | Soil grain analyses at Meridiani Planum, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 75 |
| 51 | Erosion rates at the Mars Exploration Rover landing sites and long-term climate change on Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 215 |
| 52 | Formation of a terraced fan deposit in Coprates Catena, Mars. Icarus, 2006, 184, 436-451. | 2.5 | 33 |
| 53 | Aeolian processes at the Mars Exploration Rover Meridiani Planum landing site. Nature, 2005, 436, 58-61. | 27.8 | 233 |
| 54 | Wind-Related Processes Detected by the Spirit Rover at Gusev Crater, Mars. Science, 2004, 305, 810-813. | 12.6 | 94 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site. Science, 2004, 306, 1723-1726. | 12.6 | 153 |
| 56 | Evidence from Opportunity's Microscopic Imager for Water on Meridiani Planum. Science, 2004, 306, 1727-1730. | 12.6 | 146 |
| 57 | Pancam Multispectral Imaging Results from the Opportunity Rover at Meridiani Planum. Science, 2004, 306, 1703-1709. | 12.6 | 135 |
| 58 | Surficial Deposits at Gusev Crater Along Spirit Rover Traverses. Science, 2004, 305, 807-810. | 12.6 | 82 |
| 59 | Geology of the Melas Chasma landing site for the Mars Exploration Rover mission. Journal of Geophysical Research, 2003, 108, . | 3.3 | 35 |
| 60 | Selection of the Mars Exploration Rover landing sites. Journal of Geophysical Research, 2003, 108, . | 3.3 | 155 |
| 61 | Theoretical modeling of eruption plumes on Mars under current and past climates. Journal of Geophysical Research, 2001, 106, 20547-20562. | 3.3 | 17 |
| 62 | Lunar regional dark mantle deposits: Geologic, multispectral, and modeling studies. Journal of Geophysical Research, 1998, 103, 22725-22759. | 3.3 | 98 |
| 63 | Mars Exploration Rover Pancam multispectral imaging of rocks, soils, and dust at Gusev crater and Meridiani Planum. , 0, , 281-314. | | 11 |