

Rob Sullivan

List of Publications by Year in descending order

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69
papers

8,506
citations

57631

44
h-index

102304

66
g-index

71
all docs

71
docs citations

71
times ranked

3897
citing authors

#	ARTICLE	IF	CITATIONS
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
3	The Opportunity Rover's Athena Science Investigation at Meridiani Planum, Mars. <i>Science</i> , 2004, 306, 1698-1703.	6.0	507
4	The Spirit Rover's Athena Science Investigation at Gusev Crater, Mars. <i>Science</i> , 2004, 305, 794-799.	6.0	404
5	Volatile, Isotope, and Organic Analysis of Martian Finest with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
6	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
7	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
8	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	6.0	323
9	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
10	Wind-driven particle mobility on Mars: Insights from Mars Exploration Rover observations at "El Dorado" and surroundings at Gusev Crater. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	255
11	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
12	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	238
13	Aeolian processes at the Mars Exploration Rover Meridiani Planum landing site. <i>Nature</i> , 2005, 436, 58-61.	13.7	233
14	Erosion rates at the Mars Exploration Rover landing sites and long-term climate change on Mars. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	215
15	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215
16	Curiosity's Mars Hand Lens Imager (MAHLI) Investigation. <i>Space Science Reviews</i> , 2012, 170, 259-317.	3.7	185
17	Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site. <i>Science</i> , 2004, 306, 1723-1726.	6.0	153
18	Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	149

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19	Evidence from Opportunity's Microscopic Imager for Water on Meridiani Planum. <i>Science</i> , 2004, 306, 1727-1730.	6.0	146
20	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 71-79.	1.5	138
21	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
22	Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager. <i>Science</i> , 2004, 305, 824-826.	6.0	130
23	The imager for Mars Pathfinder experiment. <i>Journal of Geophysical Research</i> , 1997, 102, 4003-4025.	3.3	128
24	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.	1.1	119
25	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. <i>Earth and Space Science</i> , 2017, 4, 506-539.	1.1	117
26	Morphology of European bands at high resolution: A mid-ocean ridge-type rift mechanism. <i>Journal of Geophysical Research</i> , 2002, 107, 4-1.	3.3	101
27	Results of the Imager for Mars Pathfinder windsock experiment. <i>Journal of Geophysical Research</i> , 2000, 105, 24547-24562.	3.3	96
28	Chemistry, mineralogy, and grain properties at Namib and High dunes, Bagnold dune field, Gale crater, Mars: A synthesis of Curiosity rover observations. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2510-2543.	1.5	95
29	Aeolian saltation on Mars at low wind speeds. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2111-2143.	1.5	90
30	Cohesions, friction angles, and other physical properties of Martian regolith from Mars Exploration Rover wheel trenches and wheel scuffs. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	86
31	Aeolian features and processes at the Mars Pathfinder landing site. <i>Journal of Geophysical Research</i> , 1999, 104, 8573-8584.	3.3	83
32	Sedimentary processes of the Bagnold Dunes: Implications for the eolian rock record of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2544-2573.	1.5	83
33	Surficial Deposits at Gusev Crater Along Spirit Rover Traverses. <i>Science</i> , 2004, 305, 807-810.	6.0	82
34	Small crater modification on Meridiani Planum and implications for erosion rates and climate change on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2522-2547.	1.5	80
35	Martian aeolian activity at the Bagnold Dunes, Gale Crater: The view from the surface and orbit. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2077-2110.	1.5	77
36	The Mars 2020 Perseverance Rover Mast Camera Zoom (Mastcam-Z) Multispectral, Stereoscopic Imaging Investigation. <i>Space Science Reviews</i> , 2021, 217, 24.	3.7	76

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37	Constraints on ripple migration at Meridiani Planum from Opportunity and HiRISE observations of fresh craters. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73
38	Sand Grain Sizes and Shapes in Eolian Bedforms at Gale Crater, Mars. <i>Geophysical Research Letters</i> , 2018, 45, 9471-9479.	1.5	71
39	Martian variable features: New insight from the Mars Express Orbiter and the Mars Exploration Rover Spirit. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	64
40	Overview of the Microscopic Imager Investigation during Spirit's first 450 sols in Gusev crater. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	64
41	Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
42	The Bagnold Dunes in Southern Summer: Active Sediment Transport on Mars Observed by the Curiosity Rover. <i>Geophysical Research Letters</i> , 2018, 45, 8853-8863.	1.5	50
43	A Broad Continuum of Aeolian Impact Ripple Morphologies on Mars is Enabled by Low Wind Dynamic Pressures. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006485.	1.5	47
44	The dynamic atmospheric and aeolian environment of Jezero crater, Mars. <i>Science Advances</i> , 2022, 8, .	4.7	47
45	Columbia Hills, Mars: Aeolian features seen from the ground and orbit. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
46	Degradation of Victoria crater, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
47	Coarse Sediment Transport in the Modern Martian Environment. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1380-1394.	1.5	44
48	First in situ investigation of a dark wind streak on Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	42
49	Gone with the wind: Eolian erasure of the Mars Rover tracks. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40
50	Surface processes recorded by rocks and soils on Meridiani Planum, Mars: Microscopic Imager observations during Opportunity's first three extended missions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	39
51	Context of ancient aqueous environments on Mars from in situ geologic mapping at Endeavour Crater. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 538-569.	1.5	37
52	Multi-model Meteorological and Aeolian Predictions for Mars 2020 and the Jezero Crater Region. <i>Space Science Reviews</i> , 2021, 217, 20.	3.7	35
53	Pre-Flight Calibration of the Mars 2020 Rover Mastcam Zoom (Mastcam-Z) Multispectral, Stereoscopic Imager. <i>Space Science Reviews</i> , 2021, 217, 29.	3.7	31
54	The Curiosity Rover's Exploration of Glen Torridon, Gale Crater, Mars: An Overview of the Campaign and Scientific Results. <i>Journal of Geophysical Research E: Planets</i> , 2023, 128, .	1.5	27

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55	Numerical Study of Shear Stress Distribution Over Sand Ripples Under Terrestrial and Martian Conditions. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 175-185.	1.5	23
56	Characterization of traverse slippage experienced by Spirit rover on Husband Hill at Gusev crater. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
57	Temporal observations of bright soil exposures at Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19
58	Orbital and In-situ Investigation of Periodic Bedrock Ridges in Glen Torridon, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	18
59	The Aeolian Environment in Glen Torridon, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	14
60	Comparison of aerodynamic roughness measured in a field experiment and in a wind tunnel simulation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1993, 48, 25-50.	1.7	13
61	Transient atmospheric effects of the landing of the Mars Science Laboratory rover: The emission and dissipation of dust and carbazic acid. <i>Advances in Space Research</i> , 2016, 58, 1066-1092.	1.2	12
62	Turbulent Shear Flow Over Large Martian Ripples. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006515.	1.5	10
63	Engraved on the rocks—Aeolian abrasion of Martian mudstone exposures and their relationship to modern wind patterns in Gale Crater, Mars. <i>Depositional Record</i> , 2020, 6, 625-647.	0.8	9
64	Diurnal Variability in Aeolian Sediment Transport at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	9
65	The Physical Properties and Geochemistry of Grains on Aeolian Bedforms at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	9
66	Overview of Spirit Microscopic Imager Results. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 528-584.	1.5	4
67	Active ground patterns near Mars' equator in the Glen Torridon region of Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 0, , .	1.5	3
68	Megaripple. , 2014, , 1-5.		1
69	Megaripple. , 2015, , 1346-1350.		0