

# R L Kirk

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

5,764  
citations

236833

25  
h-index

395590

33  
g-index

41  
all docs

41  
docs citations

41  
times ranked

2882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment (HiRISE). Journal of Geophysical Research, 2007, 112, .	3.3	1,253
2	Rain, winds and haze during the Huygens probe's descent to Titan's surface. Nature, 2005, 438, 765-778.	13.7	529
3	The lakes of Titan. Nature, 2007, 445, 61-64.	13.7	507
4	The Sand Seas of Titan: Cassini RADAR Observations of Longitudinal Dunes. Science, 2006, 312, 724-727.	6.0	351
5	The rayed crater Zunil and interpretations of small impact craters on Mars. Icarus, 2005, 176, 351-381.	1.1	335
6	Ultrahigh resolution topographic mapping of Mars with MRO HiRISE stereo images: Meter-scale slopes of candidate Phoenix landing sites. Journal of Geophysical Research, 2008, 113, .	3.3	303
7	Hydrocarbon lakes on Titan: Distribution and interaction with a porous regolith. Geophysical Research Letters, 2008, 35, .	1.5	227
8	Selection of the Mars Science Laboratory Landing Site. Space Science Reviews, 2012, 170, 641-737.	3.7	216
9	Correlations between Cassini VIMS spectra and RADAR SAR images: Implications for Titan's surface composition and the character of the Huygens Probe Landing Site. Planetary and Space Science, 2007, 55, 2025-2036.	0.9	168
10	Compositional stratigraphy of clay-bearing layered deposits at Mawrth Vallis, Mars. Geophysical Research Letters, 2008, 35, .	1.5	165
11	Selection of the Mars Exploration Rover landing sites. Journal of Geophysical Research, 2003, 108, .	3.3	155
12	The High Resolution Imaging Science Experiment (HiRISE) during MRO's Primary Science Phase (PSP). Icarus, 2010, 205, 2-37.	1.1	153
13	Fluvial channels on Titan: Initial Cassini RADAR observations. Planetary and Space Science, 2008, 56, 1132-1144.	0.9	151
14	Selection of the InSight Landing Site. Space Science Reviews, 2017, 211, 5-95.	3.7	150
15	Mountains on Titan observed by Cassini Radar. Icarus, 2007, 192, 77-91.	1.1	140
16	Athena Microscopic Imager investigation. Journal of Geophysical Research, 2003, 108, .	3.3	129
17	High-resolution topomapping of candidate MER landing sites with Mars Orbiter Camera narrow-angle images. Journal of Geophysical Research, 2003, 108, .	3.3	118
18	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. Space Science Reviews, 2017, 212, 1897-1944.	3.7	111

#	ARTICLE	IF	CITATIONS
19	Topography and geomorphology of the Huygens landing site on Titan. <i>Planetary and Space Science</i> , 2007, 55, 2015-2024.	0.9	101
20	Near-infrared spectral mapping of Titan's mountains and channels. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
21	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
22	Near Surface Stratigraphy and Regolith Production in Southwestern Elysium Planitia, Mars: Implications for Hesperian-Amazonian Terrains and the InSight Lander Mission. <i>Space Science Reviews</i> , 2017, 211, 147-190.	3.7	57
23	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
24	Digital photogrammetric analysis of the IMP camera images: Mapping the Mars Pathfinder landing site in three dimensions. <i>Journal of Geophysical Research</i> , 1999, 104, 8869-8887.	3.3	36
25	The lakes and seas of Titan. <i>Eos</i> , 2007, 88, 569-570.	0.1	30
26	Degradation of 100m-scale Rocky Ejecta Craters at the InSight Landing Site on Mars and Implications for Surface Processes and Erosion Rates in the Hesperian and Amazonian. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2732-2759.	1.5	27
27	Analysis of Local Slopes at the InSight Landing Site on Mars. <i>Space Science Reviews</i> , 2017, 211, 109-133.	3.7	21
28	Evaluating Stereo Digital Terrain Model Quality at Mars Rover Landing Sites with HRSC, CTX, and HiRISE Images. <i>Remote Sensing</i> , 2021, 13, 3511.	1.8	14
29	Meter-Scale Slopes of Candidate MSL Landing Sites from Point Photoclinometry. <i>Space Science Reviews</i> , 2012, 170, 775-791.	3.7	11
30	Revealing Active Mars with HiRISE Digital Terrain Models. <i>Remote Sensing</i> , 2022, 14, 2403.	1.8	11
31	A New Digital Terrain Model of the Huygens Landing Site on Saturn's Largest Moon, Titan. <i>Earth and Space Science</i> , 2020, 7, e2020EA001127.	1.1	7
32	COMMUNITY TOOLS FOR CARTOGRAPHIC AND PHOTOGRAMMETRIC PROCESSING OF MARS EXPRESS HRSC IMAGES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-3/W1, 69-76.	0.2	7
33	EVALUATING STEREO DTM QUALITY AT JEZERO CRATER, MARS WITH HRSC, CTX, AND HIRISE IMAGES. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B3-2020, 1129-1136.	0.2	5
34	How Well Do We Know Europa's Topography? An Evaluation of the Variability in Digital Terrain Models of Europa. <i>Remote Sensing</i> , 2021, 13, 5097.	1.8	5
35	Overview of Spirit Microscopic Imager Results. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 528-584.	1.5	4
36	THE EFFECT OF ILLUMINATION ON STEREO DTM QUALITY: SIMULATIONS IN SUPPORT OF EUROPA EXPLORATION. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, III-4, 103-110.	0.0	4

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37	FURTHER ADVENTURES IN MARS DTM QUALITY: SMOOTHING ERRORS, SHARPENING DETAILS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2021, 659-666.	0.2	3
38	A NOVEL TECHNIQUE FOR PRECISION GEOMETRIC CORRECTION OF JITTER DISTORTION FOR THE EUROPA IMAGING SYSTEM AND OTHER ROLLING-SHUTTER CAMERAS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 735-739.	0.2	1