Kjartan M Kinch

List of Publications by Year
in descending order

60	7,003	109137	143772
papers	citations	35 h-index	57 g-index

61	61	61	4263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
3	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
4	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
5	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
6	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
7	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
8	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
9	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
10	Mars Exploration Rover Athena Panoramic Camera (Pancam) investigation. Journal of Geophysical Research, 2003, 108, .	3.3	247
11	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
12	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	6.0	241
13	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
14	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
15	Pancam Multispectral Imaging Results from the Spirit Rover at Gusev Crater. Science, 2004, 305, 800-806.	6.0	153
16	Evidence from Opportunity's Microscopic Imager for Water on Meridiani Planum. Science, 2004, 306, 1727-1730.	6.0	146
17	Pancam Multispectral Imaging Results from the Opportunity Rover at Meridiani Planum. Science, 2004, 306, 1703-1709.	6.0	135
18	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134

#	Article	IF	Citations
19	Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager. Science, 2004, 305, 824-826.	6.0	130
20	Indication of drier periods on Mars from the chemistry and mineralogy of atmospheric dust. Nature, 2005, 436, 62-65.	13.7	125
21	The Mars Science Laboratory Curiosity rover Mastcam instruments: Preflight and inâ€flight calibration, validation, and data archiving. Earth and Space Science, 2017, 4, 396-452.	1.1	113
22	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
23	Diagenetic silica enrichment and lateâ€stage groundwater activity in Gale crater, Mars. Geophysical Research Letters, 2017, 44, 4716-4724.	1.5	87
24	The electrical properties of Mars analogue dust. Planetary and Space Science, 2004, 52, 279-290.	0.9	79
25	Magnetic Properties Experiments on the Mars Exploration Rover Spirit at Gusev Crater. Science, 2004, 305, 827-829.	6.0	77
26	The Mars 2020 Perseverance Rover Mast Camera Zoom (Mastcam-Z) Multispectral, Stereoscopic Imaging Investigation. Space Science Reviews, 2021, 217, 24.	3.7	76
27	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earthâ€like worlds. Journal of Geophysical Research E: Planets, 2016, 121, 1927-1961.	1.5	72
28	ChemCam passive reflectance spectroscopy of surface materials at the Curiosity landing site, Mars. Icarus, 2015, 249, 74-92.	1.1	70
29	Dust deposition on the Mars Exploration Rover Panoramic Camera (Pancam) calibration targets. Journal of Geophysical Research, 2007, 112, .	3.3	67
30	Overview of the Microscopic Imager Investigation during Spirit's first 450 sols in Gusev crater. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	64
31	Magnetic Properties Experiments on the Mars Exploration Rover mission. Journal of Geophysical Research, 2003, 108, .	3.3	55
32	An environmental simulation wind tunnel for studying Aeolian transport on mars. Planetary and Space Science, 2008, 56, 426-437.	0.9	54
33	Dust deposition on the decks of the Mars Exploration Rovers: 10â€‰years of dust dynamics on the Panoramic Camera calibration targets. Earth and Space Science, 2015, 2, 144-172.	1.1	49
34	Visible to near-infrared MSL/Mastcam multispectral imaging: Initial results from select high-interest science targets within Gale Crater, Mars. American Mineralogist, 2017, 102, 1202-1217.	0.9	43
35	Crater Statistics on the Darkâ€Toned, Mafic Floor Unit in Jezero Crater, Mars. Geophysical Research Letters, 2019, 46, 2408-2416.	1.5	40
36	Radiative transfer modeling of dust-coated Pancam calibration target materials: Laboratory visible/near-infrared spectrogoniometry. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	31

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37	Overview of the magnetic properties experiments on the Mars Exploration Rovers. Journal of Geophysical Research, 2009, 114, .	3.3	31
38	Constraints on iron sulfate and iron oxide mineralogy from ChemCam visible/near-infrared reflectance spectroscopy of Mt. Sharp basal units, Gale Crater, Mars. American Mineralogist, 2016, 101, 1501-1514.	0.9	31
39	Pre-Flight Calibration of the Mars 2020 Rover Mastcam Zoom (Mastcam-Z) Multispectral, Stereoscopic Imager. Space Science Reviews, 2021, 217, 29.	3.7	31
40	Radiometric Calibration Targets for the Mastcam-Z Camera on the Mars 2020 Rover Mission. Space Science Reviews, 2020, 216, 1.	3.7	27
41	Preliminary analysis of the MER magnetic properties experiment using a computational fluid dynamics model. Planetary and Space Science, 2006, 54, 28-44.	0.9	23
42	Stratigraphic Relationships in Jezero Crater, Mars: Constraints on the Timing of Fluvialâ€Lacustrine Activity From Orbital Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006840.	1.5	20
43	An integrated laser anemometer and dust accumulator for studying wind-induced dust transport on Mars. Planetary and Space Science, 2006, 54, 1065-1072.	0.9	18
44	An Optimized Calibration Procedure for Determining Elemental Ratios Using Laser-Induced Breakdown Spectroscopy. Analytical Chemistry, 2013, 85, 1492-1500.	3.2	18
45	CASTAway: An asteroid main belt tour and survey. Advances in Space Research, 2018, 62, 1998-2025.	1.2	18
46	A miniature laser anemometer for measurement of wind speed and dust suspension on Mars. Planetary and Space Science, 2004, 52, 1177-1186.	0.9	17
47	Search for magnetic minerals in Martian rocks: Overview of the Rock Abrasion Tool (RAT) magnet investigation on Spirit and Opportunity. Journal of Geophysical Research, 2008, 113, .	3.3	10
48	The albedo of Mars: Six Mars years of observations from Pancam on the Mars Exploration Rovers and comparisons to MOC, CTX and HiRISE. Icarus, 2018, 314, 159-174.	1.1	10
49	Low crater frequencies and low model ages in lunar maria: Recent endogenic activity or degradation effects?. Meteoritics and Planetary Science, 2018, 53, 826-838.	0.7	8
50	Photometric characterization of Lucideon and Avian Technologies color standards including application for calibration of the Mastcam-Z instrument on the Mars 2020 rover. Optical Engineering, 2019, 58, 1.	0.5	8
51	Textures of the soils and rocks at Gusev Crater from Spirit's Microscopic Imager. Science, 2004, 305, 824-6.	6.0	7
52	Magnetic properties of Martian surface materials. , 2008, , 366-380.		6
53	Device for measuring surface accumulation of dust: applications for future magnetic properties experiments on Mars. Planetary and Space Science, 2004, 52, 693-698.	0.9	5
54	Interference from terrestrial sources and its impact on the GRAS GPS radio occultation receiver. Radio Science, 2014, 49, 1-6.	0.8	5

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55	Backscattering MÃ¶ssbauer spectroscopy of Martian dust. Hyperfine Interactions, 2006, 166, 523-527.	0.2	4
56	Analysis of magnetic dust layers on Mars by PIXE and XRF. X-Ray Spectrometry, 2005, 34, 359-362.	0.9	3
57	Compositional and Mineralogic Analyses of Mars Using Multispectral Imaging on the Mars Exploration Rover, Phoenix, and Mars Science Laboratory Missions. , 2019, , 513-537.		3
58	Simulations of the magnetic properties experiment on Mars Exploration Rovers. Hyperfine Interactions, 2006, 166, 555-560.	0.2	1
59	An Instrument Anomaly in the Mars Exploration Rover Pancam 1,009â€nm Filter (R7): Characterization, Simulation, Correction, and Preliminary Verification. Earth and Space Science, 2019, 6, 96-115.	1.1	0
60	Backscattering MÃ¶ssbauer spectroscopy of Martian dust. , 2006, , 523-527.		0