Linda C Kah

List of Publications by Year
in descending order

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84 papers	8,436 citations	41344 49 h-index	56724 83 g-index
89 all docs	89 docs citations	89 times ranked	4805 citing authors

#	Article	IF	Citations
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	12.6	687
2	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. Science, 2015, 350, aac7575.	12.6	471
3	Low marine sulphate and protracted oxygenation of the Proterozoic biosphere. Nature, 2004, 431, 834-838.	27.8	413
4	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
5	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	12.6	327
6	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
7	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
8	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
9	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
10	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	12.6	224
11	Active Microbial Sulfur Disproportionation in the Mesoproterozoic. Science, 2005, 310, 1477-1479.	12.6	215
12	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	12.6	215
13	Calcium sulfate veins characterized by ChemCam/Curiosity at Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1991-2016.	3.6	214
14	Marine carbon reservoir, Corg-Ccarb coupling, and the evolution of the Proterozoic carbon cycle. Geology, 2004, 32, 129.	4.4	197
15	Geochemistry of a 1.2 Ga carbonate-evaporite succession, northern Baffin and Bylot Islands: implications for Mesoproterozoic marine evolution. Precambrian Research, 2001, 111, 203-234.	2.7	190
16	Curiosityâ€™s Mars Hand Lens Imager (MAHLI) Investigation. Space Science Reviews, 2012, 170, 259-317.	8.1	185
17	Î´¹³C stratigraphy of the Proterozoic Bylot Supergroup, Baffin Island, Canada: implications for regional lithostratigraphic correlations. Canadian Journal of Earth Sciences, 1999, 36, 313-332.	1.3	183
18	Perspectives on Proterozoic surface ocean redox from iodine contents in ancient and recent carbonate. Earth and Planetary Science Letters, 2017, 463, 159-170.	4.4	172

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19	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134
20	Mesoproterozoic carbon dioxide levels inferred from calcified cyanobacteria. Geology, 2007, 35, 799.	4.4	129
21	The Mars Science Laboratory (MSL) Mast cameras and Descent imager: Investigation and instrument descriptions. Earth and Space Science, 2017, 4, 506-539.	2.6	117
22	Biomarkers of black shales formed by microbial mats, Late Mesoproterozoic (1.1Ga) Taoudeni Basin, Mauritania. Precambrian Research, 2012, 196-197, 113-127.	2.7	113
23	An interval of high salinity in ancient Gale crater lake on Mars. Nature Geoscience, 2019, 12, 889-895.	12.9	105
24	Microbenthic distribution of Proterozoic tidal flats: Environmental and taphonomic considerations. Geology, 1996, 24, 79.	4.4	104
25	Sulfur isotope evidence for widespread euxinia and a fluctuating oxycline in Early to Middle Ordovician greenhouse oceans. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 313-314, 189-214.	2.3	94
26	Perseveranceâ€™s Scanning Habitable Environments with Raman and Luminescence for Organics and Chemicals (SHERLOC) Investigation. Space Science Reviews, 2021, 217, 1.	8.1	94
27	Chemostratigraphy of the Late Mesoproterozoic Atar Group, Taoudeni Basin, Mauritania: Muted isotopic variability, facies correlation, and global isotopic trends. Precambrian Research, 2012, 200-203, 82-103.	2.7	92
28	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. Science, 2021, 374, 711-717.	12.6	86
29	Isotopic composition of organic and inorganic carbon from the Mesoproterozoic Jixian Group, North China: Implications for biological and oceanic evolution. Precambrian Research, 2013, 224, 169-183.	2.7	80
30	Diagenetic origin of nodules in the Sheepbed member, Yellowknife Bay formation, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1637-1664.	3.6	80
31	Evidence for plunging river plume deposits in the Pahrump Hills member of the Murray formation, Gale crater, Mars. Sedimentology, 2019, 66, 1768-1802.	3.1	80
32	COVARIANCE OF MICROFOSSIL ASSEMBLAGES AND MICROBIALITE TEXTURES ACROSS AN UPPER MESOPROTEROZOIC CARBONATE PLATFORM. Palaios, 2013, 28, 453-470.	1.3	79
33	Carbon isotope chemostratigraphy of the Middle Riphean type section (Avzyan Formation, Southern) Tj ETQq1 1 0.784314 rgBT /Ove	3.3	72
34	Carbon isotope records in a Mesoproterozoic epicratonic sea: Carbon cycling in a low-oxygen world. Precambrian Research, 2013, 228, 85-101.	2.7	72
35	Heterogeneous redox conditions and a shallow chemocline in the Mesoproterozoic ocean: Evidence from carbonâ€“sulfurâ€“iron relationships. Precambrian Research, 2015, 257, 94-108.	2.7	68
36	MAHLI at the Rocknest sand shadow: Science and scienceâ€enabling activities. Journal of Geophysical Research E: Planets, 2013, 118, 2338-2360.	3.6	67

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37	Photogeologic Map of the Perseverance Rover Field Site in Jezero Crater Constructed by the Mars 2020 Science Team. Space Science Reviews, 2020, 216, 1.	8.1	67
38	Mineralâ€Filled Fractures as Indicators of Multigenerational Fluid Flow in the Pahrump Hills Member of the Murray Formation, Gale Crater, Mars. Earth and Space Science, 2019, 6, 238-265.	2.6	66
39	Uranium isotope evidence for limited euxinia in mid-Proterozoic oceans. Earth and Planetary Science Letters, 2019, 521, 150-157.	4.4	61
40	Changes in organic matter production and accumulation as a mechanism for isotopic evolution in the Mesoproterozoic ocean. Geological Magazine, 2003, 140, 397-420.	1.5	60
41	Shaler: inÂsitu analysis of a fluvial sedimentary deposit on Mars. Sedimentology, 2018, 65, 96-122.	3.1	59
42	Protracted oxygenation of the Proterozoic biosphere. International Geology Review, 2011, 53, 1424-1442.	2.1	58
43	Behavior of marine sulfur in the Ordovician. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 458, 133-153.	2.3	58
44	Morphology of Molar-Tooth Structures in Precambrian Carbonates: Influence of Substrate Rheology and Implications for Genesis. Journal of Sedimentary Research, 2006, 76, 310-323.	1.6	57
45	Mercury isotope signatures record photic zone euxinia in the Mesoproterozoic ocean. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10594-10599.	7.1	56
46	Chemical variations in Yellowknife Bay formation sedimentary rocks analyzed by ChemCam on board the Curiosity rover on Mars. Journal of Geophysical Research E: Planets, 2015, 120, 452-482.	3.6	51
47	Oceanic molybdenum drawdown by epeiric sea expansion in the Mesoproterozoic. Chemical Geology, 2013, 356, 21-37.	3.3	50
48	MICROBIALITES IN A HIGH-ALTITUDE ANDEAN LAKE: MULTIPLE CONTROLS ON CARBONATE PRECIPITATION AND LAMINA ACCRETION. Palaios, 2014, 29, 233-249.	1.3	50
49	Subaqueous shrinkage cracks in the Sheepbed mudstone: Implications for early fluid diagenesis, Gale crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1597-1613.	3.6	50
50	Late-stage diagenetic concretions in the Murray formation, Gale crater, Mars. Icarus, 2019, 321, 866-890.	2.5	50
51	Chemistry and texture of the rocks at Rocknest, Gale Crater: Evidence for sedimentary origin and diagenetic alteration. Journal of Geophysical Research E: Planets, 2014, 119, 2109-2131.	3.6	48
52	A persistently low level of atmospheric oxygen in Earthâ€™s middle age. Nature Communications, 2021, 12, 351.	12.8	48
53	Characteristics of pebbleâ€and cobbleâ€sized clasts along the Curiosity rover traverse from Bradbury Landing to Rocknest. Journal of Geophysical Research E: Planets, 2013, 118, 2361-2380.	3.6	44
54	Reconstructing sea-level change from the internal architecture of stromatolite reefs: an example from the Mesoproterozoic Sulky Formation, Dismal Lakes Group, arctic Canada. Canadian Journal of Earth Sciences, 2006, 43, 653-669.	1.3	37

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55	Bentonite geochronology, marine geochemistry, and the Great Ordovician Biodiversification Event (GOBE). Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 321-322, 88-101.	2.3	37
56	Gale crater and impact processes â€“ Curiosityâ€™s first 364 Sols on Mars. Icarus, 2015, 249, 108-128.	2.5	37
57	Syndepositional precipitation of calcium sulfate in Gale Crater, Mars. Terra Nova, 2018, 30, 431-439.	2.1	35
58	Proterozoic microbial mats and their constraints on environments of silicification. Geobiology, 2017, 15, 469-483.	2.4	34
59	Sulfur isotope composition of carbonate-associated sulfate from the Mesoproterozoic Jixian Group, North China: Implications for the marine sulfur cycle. Precambrian Research, 2015, 266, 319-336.	2.7	33
60	Proterozoic carbonates of the Vindhyan Basin, India: Chemostratigraphy and diagenesis. Gondwana Research, 2018, 57, 10-25.	6.0	33
61	Deepâ€water microbialites of the Mesoproterozoic Dismal Lakes Group: microbial growth, lithification, and implications for coniform stromatolites. Geobiology, 2015, 13, 15-32.	2.4	32
62	Carbonate platform development in a Paleoproterozoic extensional basin, Vempalle Formation, Cuddapah Basin, India. Journal of Asian Earth Sciences, 2014, 91, 263-279.	2.3	27
63	Proterozoic sedimentary exhalative (SEDEX) deposits and links to evolving global ocean chemistry. , 2006, , .		26
64	Paired isotope records of carbonate and organic matter from the Middle Ordovician of Argentina: Intrabasinal variation and effects of the marine chemocline. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 490, 107-130.	2.3	24
65	Constraints on Meso- to Neoproterozoic seawater from ancient evaporite deposits. Earth and Planetary Science Letters, 2020, 532, 115951.	4.4	23
66	Progressive deformation of feldspar recording lowâ€barometry impact processes, Tenoumer impact structure, Mauritania. Meteoritics and Planetary Science, 2014, 49, 1007-1022.	1.6	21
67	The Taphonomy of Proterozoic Microbial Mats and Implications for Early Diagenetic Silicification. Geosciences (Switzerland), 2019, 9, 40.	2.2	20
68	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.	3.6	20
69	Distribution of primary and secondary features in the Pahrump Hills outcrop (Gale crater, Mars) as seen in a Mars Descent Imager (MARDI) â€œsidewalkâ€•mosaic. Icarus, 2019, 328, 194-209.	2.5	19
70	Extensive Polygonal Fracture Network in Siccar Point group Strata: Fracture Mechanisms and Implications for Fluid Circulation in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2019, 124, 2613-2634.	3.6	16
71	C-and Sr-isotope chemostratigraphy as a tool for verifying age of Riphean deposits in the Kama-Belaya aulacogen, the east European platform. Stratigraphy and Geological Correlation, 2007, 15, 12-29.	0.8	15
72	Mineralized microbialites as archives of environmental evolution, Laguna Negra, Catamarca Province, Argentina. Geobiology, 2019, 17, 199-222.	2.4	15

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73	Images from Curiosity: A New Look at Mars. Elements, 2015, 11, 27-32.	0.5	13
74	To what extent can intracrater layered deposits that lack clear sedimentary textures be used to infer depositional environments?. Icarus, 2015, 248, 526-538.	2.5	12
75	Title is missing!. , 2000, , 345-360.		8
76	Diagenesis Revealed by Fineâ€Scale Features at Vera Rubin Ridge, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2019JE006311.	3.6	7
77	Molar-Tooth Structure as a Window into the Deposition and Diagenesis of Precambrian Carbonate. Annual Review of Earth and Planetary Sciences, 2022, 50, 205-230.	11.0	7
78	Reevaluating the age of the Walden Creek Group and the kinematic evolution of the western Blue Ridge, southern Appalachians. Numerische Mathematik, 2016, 316, 279-308.	1.4	5
79	Is a Linear or a Walkabout Protocol More Efficient When Using a Rover to Choose Biologically Relevant Samples in a Small Region of Interest?. Astrobiology, 2020, 20, 327-348.	3.0	5
80	Carbonate fabric diversity and environmental heterogeneity in the late Mesoproterozoic Era. Geological Magazine, 2022, 159, 220-246.	1.5	5
81	Testing the efficiency of rover science protocols for robotic sample selection: A GeoHeuristic Operational Strategies Test. Acta Astronautica, 2018, 146, 300-315.	3.2	3
82	Predicting the Mechanical and Fracture Properties of Mars Analog Sedimentary Lithologies. Earth and Space Science, 2020, 7, e2019EA000926.	2.6	2
83	Curiosity Rover Mars Hand Lens Imager (MAHLI) Views of the Sediments and Sedimentary Rocks of Gale Crater, Mars. Microscopy and Microanalysis, 2017, 23, 2142-2143.	0.4	1
84	Structural and chemical heterogeneity of Proterozoic organic microfossils of the ca. 1 Ga old Angmaat Formation, Baffin Island, Canada. Geobiology, 2021, 19, 557-584.	2.4	1