Randy Korotev

List of Publications by Year
in descending order

75 papers	5,885 citations	109137 35 h-index	82410 72 g-index
76 all docs	76 docs citations	76 times ranked	3432 citing authors

#	Article	IF	Citations
1	Ground truth constraints and remote sensing of lunar highland crust composition. Meteoritics and Planetary Science, 2022, 57, 527-557.	0.7	5
2	Lunar meteorites from northern Africa. Meteoritics and Planetary Science, 2021, 56, 206-240.	0.7	22
3	Geochemistry and Petrogenesis of Northwest Africa 10401: A New Type of the Mgâ€Suite Rocks. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006225.	1.5	30
4	Potassium isotopic composition of the Moon. Geochimica Et Cosmochimica Acta, 2020, 280, 263-280.	1.6	40
5	Petrogenesis and Shock Metamorphism of Basaltic Lunar Meteorites Northwest Africa 4734 and 10597. Journal of Geophysical Research E: Planets, 2019, 124, 2583-2598.	1.5	12
6	Petrography, relationships, and petrogenesis of the gabbroic lithologies in Northwest Africa 773 clan members Northwest Africa 773, 2727, 3160, 3170, 7007, and 10656. Meteoritics and Planetary Science, 2019, 54, 2083-2115.	0.7	15
7	Petrogenesis of lunar impact melt rock meteorite Oued Awlitis 001. Meteoritics and Planetary Science, 2019, 54, 2167-2188.	0.7	6
8	Petrography and geochemistry of lunar meteorites Dhofar 1673, 1983, and 1984. Meteoritics and Planetary Science, 2019, 54, 300-320.	0.7	5
9	Spinel assemblages in lunar meteorites Graves Nunataks 06157 and Dhofar 1528: Implications for impact melting and equilibration in the Moon's upper mantle. Meteoritics and Planetary Science, 2019, 54, 379-394.	0.7	8
10	Update (2012-2017) on lunar meteorites from Oman. Meteoritics and Planetary Science, 2017, 52, 1251-1256.	0.7	8
11	Petrology and geochemistry of feldspathic impactâ€melt breccia Abar al' Uj 012, theÂfirst lunar meteorite from Saudi Arabia. Meteoritics and Planetary Science, 2016, 51, 1830-1848.	0.7	15
12	Silica polymorphs in lunar granite: Implications for granite petrogenesis on the Moon. American Mineralogist, 2015, 100, 1533-1543.	0.9	32
13	Petrography and composition of Martian regolith breccia meteorite Northwest Africa 7475. Meteoritics and Planetary Science, 2015, 50, 326-352.	0.7	100
14	The earliest Lunar Magma Ocean differentiation recorded in Fe isotopes. Earth and Planetary Science Letters, 2015, 430, 202-208.	1.8	33
15	The petrogenesis of impact basin melt rocks in lunar meteorite ShiÂr 161. American Mineralogist, 2014, 99, 1626-1647.	0.9	11
16	Thorite in an Apollo 12 granite fragment and age determination using the electron microprobe. Geochimica Et Cosmochimica Acta, 2014, 135, 307-320.	1.6	18
17	Connecting Lunar Meteorites to Source Terranes on the Moon. Microscopy and Microanalysis, 2014, 20, 1670-1671.	0.2	2
18	Lunar meteorites from Oman. Meteoritics and Planetary Science, 2012, 47, 1365-1402.	0.7	44

#	Article	IF	Citations
19	Comparative zircon Uâ€“Pb geochronology of impact melt breccias from Apollo 12 and lunar meteorite SaU 169, and implications for the age of the Imbrium impact. Earth and Planetary Science Letters, 2012, 319-320, 277-286.	1.8	77
20	Apollo 12 revisited. Geochimica Et Cosmochimica Acta, 2011, 75, 1540-1573.	1.6	40
21	Mineralogy, geochemistry, and 40Arâ€“39Ar geochronology of lunar granulitic breccia Northwest Africa 3163 and paired stones: Comparisons with Apollo samples. Geochimica Et Cosmochimica Acta, 2011, 75, 2865-2881.	1.6	23
22	On the origin of impact glass in the Apollo 16 regolith. Geochimica Et Cosmochimica Acta, 2010, 74, 7362-7388.	1.6	27
23	Petrology, geochemistry, and age of low-Ti mare-basalt meteorite Northeast Africa 003-A: A possible member of the Apollo 15 mare basaltic suite. Geochimica Et Cosmochimica Acta, 2009, 73, 3450-3470.	1.6	33
24	Compositional and lithological diversity among brecciated lunar meteorites of intermediate iron concentration. Meteoritics and Planetary Science, 2009, 44, 1287-1322.	0.7	90
25	A laser probe 40Ar/39Ar and INAA investigation of four Apollo granulitic breccias. Geochimica Et Cosmochimica Acta, 2008, 72, 5781-5798.	1.6	34
26	Petrography and geochemistry of five new Apollo 16 mare basalts and evidence for postâ€basin deposition of basaltic material at the site. Meteoritics and Planetary Science, 2006, 41, 263-284.	0.7	33
27	Evidence of phyllosilicates in Wooly Patch, an altered rock encountered at West Spur, Columbia Hills, by the Spirit rover in Gusev crater, Mars. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	40
28	Larry A. Haskin (1934â€“2005). Geochimica Et Cosmochimica Acta, 2006, 70, 5899-5903.	1.6	0
29	The geochemistry and provenance of Apollo 16 mafic glasses. Geochimica Et Cosmochimica Acta, 2006, 70, 6050-6067.	1.6	41
30	40Ar/39Ar dating of Apollo 12 regolith: Implications for the age of Copernicus and the source of nonmare materials. Geochimica Et Cosmochimica Acta, 2006, 70, 6016-6031.	1.6	32
31	Feldspathic lunar meteorites Pecora Escarpment 02007 and Dhofar 489: Contamination of the surface of the lunar highlands by post-basin impacts. Geochimica Et Cosmochimica Acta, 2006, 70, 5935-5956.	1.6	47
32	2. Understanding the Lunar Surface and Space-Moon Interactions. , 2006, , 83-220.		44
33	Petrography and geochemistry of the LaPaz Icefield basaltic lunar meteorite and source crater pairing with Northwest Africa 032. Meteoritics and Planetary Science, 2005, 40, 1073-1101.	0.7	65
34	Lunar geochemistry as told by lunar meteorites. Chemie Der Erde, 2005, 65, 297-346.	0.8	177
35	PLANETARY SCIENCE: A Unique Chunk of the Moon. Science, 2004, 305, 622-623.	6.0	7
36	Lunar surface geochemistry: Global concentrations of Th, K, and FeO as derived from lunar prospector and Clementine data. Geochimica Et Cosmochimica Acta, 2004, 68, 3791-3805.	1.6	158

#	Article	IF	Citations
37	Feldspathic lunar meteorites and their implications for compositional remote sensing of the lunar surface and the composition of the lunar crust. Geochimica Et Cosmochimica Acta, 2003, 67, 4895-4923.	1.6	208
38	Northwest Africa 773: lunar mare breccia with a shallow-formed olivine-cumulate component, inferred very-low-Ti (VLT) heritage, and a KREEP connection. Geochimica Et Cosmochimica Acta, 2003, 67, 4857-4879.	1.6	59
39	Northwest Africa 032: Product of lunar volcanism. Meteoritics and Planetary Science, 2002, 37, 371-394.	0.7	74
40	A new look at the Apollo 11 regolith and KREEP. Journal of Geophysical Research, 2001, 106, 12339-12353.	3.3	43
41	The great lunar hot spot and the composition and origin of the Apollo mafic (â€œLKFMâ€) impact-melt breccias. Journal of Geophysical Research, 2000, 105, 4317-4345.	3.3	124
42	Major lunar crustal terranes: Surface expressions and crust-mantle origins. Journal of Geophysical Research, 2000, 105, 4197-4216.	3.3	719
43	The materials of the lunar Procellarum KREEP Terrane: A synthesis of data from geomorphological mapping, remote sensing, and sample analyses. Journal of Geophysical Research, 2000, 105, 20403-20415.	3.3	85
44	MÃ¶ssbauer mineralogy on the Moon: The lunar regolith. , 1998, 117, 405-432.		26
45	Geochemistry and petrology of lunar meteorite Queen Alexandra Range 94281, a mixed mare and highland regolith breccia, with special emphasis on veryâ€lowâ€titanium mafic components. Meteoritics and Planetary Science, 1998, 33, 581-601.	0.7	28
46	The case for an Imbrium origin of the Apollo thoriumâ€rich impactâ€melt breccias. Meteoritics and Planetary Science, 1998, 33, 959-975.	0.7	118
47	Concentrations of radioactive elements in lunar materials. Journal of Geophysical Research, 1998, 103, 1691-1701.	3.3	72
48	Raman spectroscopy for mineral identification and quantification for in situ planetary surface analysis: A point count method. Journal of Geophysical Research, 1997, 102, 19293-19306.	3.3	129
49	Lithological variation with depth and decoupling of maturity parameters in Apollo 16 regolith core 68001/2. Geochimica Et Cosmochimica Acta, 1997, 61, 2989-3002.	1.6	10
50	Some things we can infer about the Moon from the composition of the Apollo 16 regolith. Meteoritics and Planetary Science, 1997, 32, 447-478.	0.7	87
51	Lithologic distribution and geologic history of the Apollo 17 site: The record in soils and small rock particles from the highland massifs. Meteoritics and Planetary Science, 1996, 31, 116-145.	0.7	49
52	On the relationship between the Apollo 16 ancient regolith breccias and feldspathic fragmental breccias, and the composition of the prebasin crust in the Central Highlands of the Moon. Meteoritics and Planetary Science, 1996, 31, 403-412.	0.7	59
53	Lunar meteorite Queen Alexandra Range 93069 and the iron concentration of the lunar highlands surface. Meteoritics and Planetary Science, 1996, 31, 909-924.	0.7	45
54	A SELF-CONSISTENT COMPILATION OF ELEMENTAL CONCENTRATION DATA FOR 93 GEOCHEMICAL REFERENCE SAMPLES. Geostandards and Geoanalytical Research, 1996, 20, 217-245.	1.7	139

#	Article	IF	Citations
55	Geochemical comparison of four cores from the Manson impact structure. , 1996, , .		3
56	A simulated geochemical rover mission to the Taurus-Littrow valley of the Moon. Journal of Geophysical Research, 1995, 100, 14403.	3.3	19
57	Compositional variation in Apollo 16 impact-melt breccias and inferences for the geology and bombardment history of the Central Highlands of the Moon. Geochimica Et Cosmochimica Acta, 1994, 58, 3931-3969.	1.6	89
58	Composition and maturity of Apollo 16 regolith core 60013/14. Geochimica Et Cosmochimica Acta, 1993, 57, 4813-4826.	1.6	17
59	Apollo 15 green glass: Compositional distribution and petrogenesis. Geochimica Et Cosmochimica Acta, 1992, 56, 4075-4090.	1.6	34
60	A ferroan region of the lunar highlands as recorded in meteorites MAC88104 and MAC88105. Geochimica Et Cosmochimica Acta, 1991, 55, 3051-3071.	1.6	46
61	Cobalt and nickel concentrations in the â€œkomatiite componentâ€•of Apollo 16 polymict samples. Earth and Planetary Science Letters, 1990, 96, 481-489.	1.8	10
62	Europium mass balance in polymict samples and implications for plutonic rocks of the lunar crust. Geochimica Et Cosmochimica Acta, 1988, 52, 1795-1813.	1.6	34
63	Mixing levels, the apennine front soil component, and compositional trends in the Apollo 15 soils. Journal of Geophysical Research, 1987, 92, E411.	3.3	24
64	The nature of the meteoritic components of Apollo 16 soil, as inferred from correlations of iron, cobalt, iridium, and gold with nickel. Journal of Geophysical Research, 1987, 92, E447.	3.3	21
65	The meteorite component of Apollo 16 noritic impact melt breccias. Journal of Geophysical Research, 1987, 92, E491.	3.3	26
66	National Bureau of Standards coal flyash (SRM 1633a) as a multielement standard for instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 1987, 110, 159-177.	0.7	58
67	Chemical homogeneity of National Bureau of Standards coal flyash (SRM 1633a). Journal of Radioanalytical and Nuclear Chemistry, 1987, 110, 179-189.	0.7	16
68	Apollo 16 regolith breccias: Characterization and evidence for early formation in the megaâ€•regolith. Journal of Geophysical Research, 1986, 91, 277-303.	3.3	78
69	Stratigraphy and geochemistry of the Stone Mountain Core (64001/2). Journal of Geophysical Research, 1984, 89, C143.	3.3	14
70	The â€œNorth American shale compositeâ€• Its compilation, major and trace element characteristics. Geochimica Et Cosmochimica Acta, 1984, 48, 2469-2482.	1.6	1,700
71	Antarctic Meteorite ALHA81005 â€“ Not just another lunar anorthositic norite. Geophysical Research Letters, 1983, 10, 829-832.	1.5	37
72	Comparative geochemistry of Apollo 16 surface soils and samples from cores 64002 and 60002 through 60007. Journal of Geophysical Research, 1982, 87, A269.	3.3	21

#	Article	IF	Citations
73	Teabags: Computer programs for instrumental neutron activation analysis. Journal of Radioanalytical Chemistry, 1982, 70, 439-458.	0.5	102
74	Test of a model for trace element partition during closed-system solidification of a silicate liquid. Geochimica Et Cosmochimica Acta, 1977, 41, 921-939.	1.6	54
75	Major and trace element chemistry of Boulder 1 at Station 2, Apollo 17. The Moon, 1975, 14, 359-371.	0.4	23