

Randy Korotev

List of Publications by Year in descending order

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75
papers

5,885
citations

109264

35
h-index

82499

72
g-index

76
all docs

76
docs citations

76
times ranked

3432
citing authors

#	ARTICLE	IF	CITATIONS
1	The "North American shale composite" Its compilation, major and trace element characteristics. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 2469-2482.	1.6	1,700
2	Major lunar crustal terranes: Surface expressions and crust-mantle origins. <i>Journal of Geophysical Research</i> , 2000, 105, 4197-4216.	3.3	719
3	Feldspathic lunar meteorites and their implications for compositional remote sensing of the lunar surface and the composition of the lunar crust. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4895-4923.	1.6	208
4	Lunar geochemistry as told by lunar meteorites. <i>Chemie Der Erde</i> , 2005, 65, 297-346.	0.8	177
5	Lunar surface geochemistry: Global concentrations of Th, K, and FeO as derived from lunar prospector and Clementine data. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3791-3805.	1.6	158
6	A SELF-CONSISTENT COMPILATION OF ELEMENTAL CONCENTRATION DATA FOR 93 GEOCHEMICAL REFERENCE SAMPLES. <i>Geostandards and Geoanalytical Research</i> , 1996, 20, 217-245.	1.7	139
7	Raman spectroscopy for mineral identification and quantification for in situ planetary surface analysis: A point count method. <i>Journal of Geophysical Research</i> , 1997, 102, 19293-19306.	3.3	129
8	The great lunar hot spot and the composition and origin of the Apollo mafic ("LKFM") impact-melt breccias. <i>Journal of Geophysical Research</i> , 2000, 105, 4317-4345.	3.3	124
9	The case for an Imbrium origin of the Apollo thorium-rich impact-melt breccias. <i>Meteoritics and Planetary Science</i> , 1998, 33, 959-975.	0.7	118
10	Teabags: Computer programs for instrumental neutron activation analysis. <i>Journal of Radioanalytical Chemistry</i> , 1982, 70, 439-458.	0.5	102
11	Petrography and composition of Martian regolith breccia meteorite Northwest Africa 7475. <i>Meteoritics and Planetary Science</i> , 2015, 50, 326-352.	0.7	100
12	Compositional and lithological diversity among brecciated lunar meteorites of intermediate iron concentration. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1287-1322.	0.7	90
13	Compositional variation in Apollo 16 impact-melt breccias and inferences for the geology and bombardment history of the Central Highlands of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 3931-3969.	1.6	89
14	Some things we can infer about the Moon from the composition of the Apollo 16 regolith. <i>Meteoritics and Planetary Science</i> , 1997, 32, 447-478.	0.7	87
15	The materials of the lunar Procellarum KREEP Terrane: A synthesis of data from geomorphological mapping, remote sensing, and sample analyses. <i>Journal of Geophysical Research</i> , 2000, 105, 20403-20415.	3.3	85
16	Apollo 16 regolith breccias: Characterization and evidence for early formation in the mega-regolith. <i>Journal of Geophysical Research</i> , 1986, 91, 277-303.	3.3	78
17	Comparative zircon U-Pb geochronology of impact melt breccias from Apollo 12 and lunar meteorite SaU 169, and implications for the age of the Imbrium impact. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 277-286.	1.8	77
18	Northwest Africa 032: Product of lunar volcanism. <i>Meteoritics and Planetary Science</i> , 2002, 37, 371-394.	0.7	74

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19	Concentrations of radioactive elements in lunar materials. <i>Journal of Geophysical Research</i> , 1998, 103, 1691-1701.	3.3	72
20	Petrography and geochemistry of the LaPaz Icefield basaltic lunar meteorite and source crater pairing with Northwest Africa 032. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1073-1101.	0.7	65
21	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. <i>Meteoritics and Planetary Science</i> , 1996, 31, 403-412.	0.7	59
22	Northwest Africa 773: lunar mare breccia with a shallow-formed olivine-cumulate component, inferred very-low-Ti (VLT) heritage, and a KREEP connection. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4857-4879.	1.6	59
23	National Bureau of Standards coal flyash (SRM 1633a) as a multielement standard for instrumental neutron activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1987, 110, 159-177.	0.7	58
24	Test of a model for trace element partition during closed-system solidification of a silicate liquid. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 921-939.	1.6	54
25	Lithologic distribution and geologic history of the Apollo 17 site: The record in soils and small rock particles from the highland massifs. <i>Meteoritics and Planetary Science</i> , 1996, 31, 116-145.	0.7	49
26	Feldspathic lunar meteorites Pecora Escarpment 02007 and Dhofar 489: Contamination of the surface of the lunar highlands by post-basin impacts. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5935-5956.	1.6	47
27	A ferroan region of the lunar highlands as recorded in meteorites MAC88104 and MAC88105. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3051-3071.	1.6	46
28	Lunar meteorite Queen Alexandra Range 93069 and the iron concentration of the lunar highlands surface. <i>Meteoritics and Planetary Science</i> , 1996, 31, 909-924.	0.7	45
29	2. Understanding the Lunar Surface and Space-Moon Interactions. , 2006, , 83-220.		44
30	Lunar meteorites from Oman. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1365-1402.	0.7	44
31	A new look at the Apollo 11 regolith and KREEP. <i>Journal of Geophysical Research</i> , 2001, 106, 12339-12353.	3.3	43
32	The geochemistry and provenance of Apollo 16 mafic glasses. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 6050-6067.	1.6	41
33	Evidence of phyllosilicates in Woolly Patch, an altered rock encountered at West Spur, Columbia Hills, by the Spirit rover in Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	40
34	Apollo 12 revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1540-1573.	1.6	40
35	Potassium isotopic composition of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 263-280.	1.6	40
36	Antarctic Meteorite ALHA81005 – Not just another lunar anorthositic norite. <i>Geophysical Research Letters</i> , 1983, 10, 829-832.	1.5	37

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37	Europium mass balance in polymict samples and implications for plutonic rocks of the lunar crust. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 1795-1813.	1.6	34
38	Apollo 15 green glass: Compositional distribution and petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 4075-4090.	1.6	34
39	A laser probe $^{40}\text{Ar}/^{39}\text{Ar}$ and INAA investigation of four Apollo granulitic breccias. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5781-5798.	1.6	34
40	Petrography and geochemistry of five new Apollo 16 mare basalts and evidence for post-basin deposition of basaltic material at the site. <i>Meteoritics and Planetary Science</i> , 2006, 41, 263-284.	0.7	33
41	Petrology, geochemistry, and age of low-Ti mare-basalt meteorite Northeast Africa 003-A: A possible member of the Apollo 15 mare basaltic suite. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3450-3470.	1.6	33
42	The earliest Lunar Magma Ocean differentiation recorded in Fe isotopes. <i>Earth and Planetary Science Letters</i> , 2015, 430, 202-208.	1.8	33
43	$^{40}\text{Ar}/^{39}\text{Ar}$ dating of Apollo 12 regolith: Implications for the age of Copernicus and the source of nonmare materials. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 6016-6031.	1.6	32
44	Silica polymorphs in lunar granite: Implications for granite petrogenesis on the Moon. <i>American Mineralogist</i> , 2015, 100, 1533-1543.	0.9	32
45	Geochemistry and Petrogenesis of Northwest Africa 10401: A New Type of the Mg-Suite Rocks. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006225.	1.5	30
46	Geochemistry and petrology of lunar meteorite Queen Alexandra Range 94281, a mixed mare and highland regolith breccia, with special emphasis on very-low-titanium mafic components. <i>Meteoritics and Planetary Science</i> , 1998, 33, 581-601.	0.7	28
47	On the origin of impact glass in the Apollo 16 regolith. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7362-7388.	1.6	27
48	The meteorite component of Apollo 16 noritic impact melt breccias. <i>Journal of Geophysical Research</i> , 1987, 92, E491.	3.3	26
49	Mössbauer mineralogy on the Moon: The lunar regolith. , 1998, 117, 405-432.		26
50	Mixing levels, the apennine front soil component, and compositional trends in the Apollo 15 soils. <i>Journal of Geophysical Research</i> , 1987, 92, E411.	3.3	24
51	Major and trace element chemistry of Boulder 1 at Station 2, Apollo 17. <i>The Moon</i> , 1975, 14, 359-371.	0.4	23
52	Mineralogy, geochemistry, and $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of lunar granulitic breccia Northwest Africa 3163 and paired stones: Comparisons with Apollo samples. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2865-2881.	1.6	23
53	Lunar meteorites from northern Africa. <i>Meteoritics and Planetary Science</i> , 2021, 56, 206-240.	0.7	22
54	Comparative geochemistry of Apollo 16 surface soils and samples from cores 64002 and 60002 through 60007. <i>Journal of Geophysical Research</i> , 1982, 87, A269.	3.3	21

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55	The nature of the meteoritic components of Apollo 16 soil, as inferred from correlations of iron, cobalt, iridium, and gold with nickel. <i>Journal of Geophysical Research</i> , 1987, 92, E447.	3.3	21
56	A simulated geochemical rover mission to the Taurus-Littrow valley of the Moon. <i>Journal of Geophysical Research</i> , 1995, 100, 14403.	3.3	19
57	Thorite in an Apollo 12 granite fragment and age determination using the electron microprobe. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 307-320.	1.6	18
58	Composition and maturity of Apollo 16 regolith core 60013/14. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4813-4826.	1.6	17
59	Chemical homogeneity of National Bureau of Standards coal flyash (SRM 1633a). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1987, 110, 179-189.	0.7	16
60	Petrology and geochemistry of feldspathic impact melt breccia Abar al' Uj 012, the first lunar meteorite from Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1830-1848.	0.7	15
61	Petrography, relationships, and petrogenesis of the gabbroic lithologies in Northwest Africa 773 clan members Northwest Africa 773, 2727, 3160, 3170, 7007, and 10656. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2083-2115.	0.7	15
62	Stratigraphy and geochemistry of the Stone Mountain Core (64001/2). <i>Journal of Geophysical Research</i> , 1984, 89, C143.	3.3	14
63	Petrogenesis and Shock Metamorphism of Basaltic Lunar Meteorites Northwest Africa 4734 and 10597. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2583-2598.	1.5	12
64	The petrogenesis of impact basin melt rocks in lunar meteorite Shi'ar 161. <i>American Mineralogist</i> , 2014, 99, 1626-1647.	0.9	11
65	Cobalt and nickel concentrations in the komatiite component of Apollo 16 polymict samples. <i>Earth and Planetary Science Letters</i> , 1990, 96, 481-489.	1.8	10
66	Lithological variation with depth and decoupling of maturity parameters in Apollo 16 regolith core 68001/2. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 2989-3002.	1.6	10
67	Update (2012-2017) on lunar meteorites from Oman. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1251-1256.	0.7	8
68	Spinel assemblages in lunar meteorites Graves Nunataks 06157 and Dhofar 1528: Implications for impact melting and equilibration in the Moon's upper mantle. <i>Meteoritics and Planetary Science</i> , 2019, 54, 379-394.	0.7	8
69	PLANETARY SCIENCE: A Unique Chunk of the Moon. <i>Science</i> , 2004, 305, 622-623.	6.0	7
70	Petrogenesis of lunar impact melt rock meteorite Oued Awlitis 001. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2167-2188.	0.7	6
71	Petrography and geochemistry of lunar meteorites Dhofar 1673, 1983, and 1984. <i>Meteoritics and Planetary Science</i> , 2019, 54, 300-320.	0.7	5
72	Ground truth constraints and remote sensing of lunar highland crust composition. <i>Meteoritics and Planetary Science</i> , 2022, 57, 527-557.	0.7	5

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73	Geochemical comparison of four cores from the Manson impact structure. , 1996, , .		3
74	Connecting Lunar Meteorites to Source Terranes on the Moon. Microscopy and Microanalysis, 2014, 20, 1670-1671.	0.2	2
75	Larry A. Haskin (1934â€“2005). Geochimica Et Cosmochimica Acta, 2006, 70, 5899-5903.	1.6	0