

Douglas Rumble

List of Publications by Year in descending order

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85
papers

5,375
citations

76326

40
h-index

82547

72
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85
all docs

85
docs citations

85
times ranked

3983
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Sustainability of a High-Energy, Low-Diversity Crustal Biome. <i>Science</i> , 2006, 314, 479-482.	12.6	350
2	New insights into Archean sulfur cycle from mass-independent sulfur isotope records from the Hamersley Basin, Australia. <i>Earth and Planetary Science Letters</i> , 2003, 213, 15-30.	4.4	311
3	Mass-dependent fractionation of quadruple stable sulfur isotope system as a new tracer of sulfur biogeochemical cycles. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2238-2252.	3.9	303
4	Quadruple sulfur isotope analysis of ca. 3.5 Ga Dresser Formation: New evidence for microbial sulfate reduction in the early Archean. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5675-5691.	3.9	209
5	S-33 constraints on the seawater sulfate contribution in modern seafloor hydrothermal vent sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1170-1182.	3.9	184
6	Unusually low $\delta^{18}\text{O}$ ultra-high-pressure metamorphic rocks from the Sulu Terrain, eastern China. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2859-2864.	3.9	182
7	Fluid Flow in Chondritic Parent Bodies: Deciphering the Compositions of Planetesimals. <i>Science</i> , 1999, 286, 1331-1335.	12.6	178
8	Low $\delta^{18}\text{O}$ zircons, U-Pb dating, and the age of the Qinglongshan oxygen and hydrogen isotope anomaly near Donghai in Jiangsu Province, China. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2299-2306.	3.9	154
9	Atmospheric Sulfur in Archean Komatiite-Hosted Nickel Deposits. <i>Science</i> , 2009, 326, 1086-1089.	12.6	152
10	The Qinglongshan oxygen and hydrogen isotope anomaly near Donghai in Jiangsu Province, China. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3307-3321.	3.9	144
11	Analysis for Oxygen and Sulfur Isotope Ratios in Oxide and Sulfide Minerals by Spot Heating with a Carbon Dioxide Laser in a Fluorine Atmosphere. <i>Accounts of Chemical Research</i> , 1994, 27, 237-241.	15.6	120
12	Carbon isotope geochemistry of graphite vein deposits from New Hampshire, U.S.A.. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1239-1247.	3.9	119
13	Petrogenesis of olivine-phyric shergottite Larkman Nunatak 06319: Implications for enriched components in martian basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2190-2214.	3.9	119
14	Petrography and composition of Martian regolith breccia meteorite Northwest Africa 7475. <i>Meteoritics and Planetary Science</i> , 2015, 50, 326-352.	1.6	100
15	Origin of two distinct multiple-sulfur isotope compositions of pyrite in the 2.5Ga Klein Naute Formation, Griqualand West Basin, South Africa. <i>Precambrian Research</i> , 2009, 169, 48-57.	2.7	96
16	Origin of felsic achondrites Graves Nunataks 06128 and 06129, and ultramafic brachinites and brachinite-like achondrites by partial melting of volatile-rich primitive parent bodies. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 81, 94-128.	3.9	91
17	An ultraviolet laser microprobe for the in situ analysis of multisulfur isotopes and its use in measuring Archean sulfur isotope mass-independent anomalies. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3101-3118.	3.9	87
18	Late Archean euxinic conditions before the rise of atmospheric oxygen. <i>Geology</i> , 2011, 39, 119-122.	4.4	87

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19	Sulfur isotope evidence for microbial sulfate reduction in altered oceanic basalts at ODP Site 801. <i>Earth and Planetary Science Letters</i> , 2008, 268, 110-123.	4.4	86
20	Oxygen-isotope equilibration and permeability enhancement during regional metamorphism. <i>Journal of the Geological Society</i> , 1983, 140, 619-628.	2.1	85
21	Stable isotope characteristics of eclogites from the ultra-high-pressure metamorphic terrain, east-central China. <i>Chemical Geology</i> , 1997, 137, 135-147.	3.3	83
22	Early formation of evolved asteroidal crust. <i>Nature</i> , 2009, 457, 179-182.	27.8	81
23	In situ oxygen isotope analysis with an excimer laser using F2 and BrF5 reagents and O2 gas as analyte. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4229-4234.	3.9	80
24	The origin of jadeitite-forming subduction-zone fluids: CL-guided SIMS oxygen-isotope and trace-element evidence. <i>American Mineralogist</i> , 2006, 91, 979-996.	1.9	80
25	The five stable isotope compositions of Fig Tree barites: Implications on sulfur cycle in ca. 3.2Ga oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4868-4879.	3.9	78
26	High precision analysis of all four stable isotopes of sulfur (³² S, ³³ S, ³⁴ S and ³⁶ S) at nanomole levels using a laser fluorination isotope-ratio-monitoring gas chromatography-mass spectrometry. <i>Chemical Geology</i> , 2006, 225, 30-39.	3.3	77
27	Hydrothermal graphite in New Hampshire: Evidence of carbon mobility during regional metamorphism. <i>Geology</i> , 1986, 14, 452.	4.4	76
28	Mineralogy and petrography of the Almahata Sitta ureilite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1618-1637.	1.6	74
29	Stable isotope geochemistry of marbles from the coesite UHP terrains of Dabieshan and Sulu, China. <i>Lithos</i> , 2000, 52, 79-95.	1.4	73
30	Carbon K-edge XANES spectromicroscopy of natural graphite. <i>Carbon</i> , 2008, 46, 1424-1434.	10.3	72
31	The direction of fluid flow during contact metamorphism of siliceous carbonate rocks: new data for the Monzoni and Predazzo aureoles, northern Italy, and a global review. <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 679-699.	3.1	68
32	The solubility of rocks in metamorphic fluids: A model for rock-dominated conditions to upper mantle pressure and temperature. <i>Earth and Planetary Science Letters</i> , 2015, 430, 486-498.	4.4	68
33	A large-radius high-mass-resolution multiple-collector isotope ratio mass spectrometer for analysis of rare isotopologues of O2, N2, CH4 and other gases. <i>International Journal of Mass Spectrometry</i> , 2016, 401, 1-10.	1.5	68
34	Methane sources and sinks in continental sedimentary systems: New insights from paired clumped isotopologues ¹³ CH3D and ¹² CH2D2. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 327-351.	3.9	65
35	Chapter 2. HIGH-PRESSURE MINERALS FROM DEEPLY SUBDUCTED METAMORPHIC ROCKS. , 1998, , 33-96.		62
36	The origin of correlated variations in in-situ and elemental concentrations in metamorphic garnet from southeastern Vermont, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2585-2597.	3.9	60

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37	Paleocene–Eocene climatic variation in western North America: Evidence from the $\delta^{18}\text{O}$ of pedogenic hematite. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 1405-1415.	3.3	55
38	Textural and isotopic variations in graphite from plutonic rocks, South-Central New Hampshire. <i>Contributions To Mineralogy and Petrology</i> , 1986, 93, 409-419.	3.1	54
39	One- and two-dimensional models of fluid flow and stable isotope exchange at an outcrop in the Adamello contact aureole, Southern Alps, Italy. <i>American Mineralogist</i> , 1995, 80, 1004-1019.	1.9	51
40	Correlation of Growth and Breakdown of Major and Accessory Minerals in Metapelites from Campolungo, Central Alps. <i>Journal of Petrology</i> , 2011, 52, 2293-2334.	2.8	46
41	The chromium isotopic composition of Almahata Sitta. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1771-1777.	1.6	44
42	The effect of net-transfer reactions on the isotopic composition of minerals. <i>Contributions To Mineralogy and Petrology</i> , 1990, 105, 322-336.	3.1	43
43	Constraint on the time scale of biotite-grade metamorphism during Acadian Orogeny from a natural garnet-garnet diffusion couple. <i>American Mineralogist</i> , 1996, 81, 1208-1216.	1.9	41
44	Formation of Wollastonite by Chemically Reactive Fluid Flow During Contact Metamorphism, Mt. Morrison Pendant, Sierra Nevada, California, USA. <i>Journal of Petrology</i> , 2001, 42, 1705-1728.	2.8	41
45	Water circulation in metamorphism. <i>Journal of Geophysical Research</i> , 1994, 99, 15499.	3.3	40
46	Fe-Ti oxide minerals from regionally metamorphosed quartzites of western New Hampshire. <i>Contributions To Mineralogy and Petrology</i> , 1973, 42, 181-195.	3.1	39
47	Tellurium isotopic composition of the early solar system—A search for effects resulting from stellar nucleosynthesis, ^{126}Sn decay, and mass-independent fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5099-5112.	3.9	35
48	The oxygen isotope composition of Almahata Sitta. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1765-1770.	1.6	35
49	Northwest Africa 011: A eucritic basalt from a non-eucrite parent body. <i>Meteoritics and Planetary Science</i> , 2005, 40, 343-360.	1.6	34
50	Isotope-ratio-monitoring of O_2 for microanalysis of $^{18}\text{O}/^{16}\text{O}$ and $^{17}\text{O}/^{16}\text{O}$ in geological materials. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3087-3094.	3.9	32
51	H/L chondrite LaPaz Icefield 031047—A feather of Icarus?. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6140-6159.	3.9	31
52	High-precision in situ oxygen isotope analysis of quartz using an ArF laser. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 687-702.	3.9	30
53	http://www.w3.org/1998/Math/MathML altimg="si35.svg"><mml:mrow><mml:mi mathvariant="normal"> $\hat{1}$ </mml:mi><mml:msup><mml:mrow /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:msup><mml:msub><mml:mrow><mml:mi mathvariant="normal">CH</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> values in microbialgenic methane result from co. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 225-236.	3.9	29
54	Stable Isotope Geochemistry of Ultrahigh-Pressure Rocks. <i>Petrology and Structural Geology</i> , 1998, , 241-259.	0.5	27

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55	Sulfur isotopic disequilibrium and fluid-rock interaction during metamorphism of sulfidic black shales from the Waterville-Augusta area, Maine, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 4257-4265.	3.9	22
56	Compositions of three low-FeO ordinary chondrites: Indications of a common origin with the H chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6511-6519.	3.9	22
57	Differentiation processes in FeO-rich asteroids revealed by the achondrite Lewis Cliff 88763. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1750-1766.	1.6	22
58	Oxygen isotopic compositions of IVA iron meteorites: implications for the thermal evolution derived from in situ ultraviolet laser microprobe analyses. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1159-1171.	3.9	20
59	A New Interpretation of Centimetre-scale Variations in the Progress of Infiltration-driven Metamorphic Reactions: Case Study of Carbonated Metaperidotite, Val d'Efra, Central Alps, Switzerland. <i>Journal of Petrology</i> , 2005, 46, 1725-1746.	2.8	19
60	Compositions of four unusual CM or CM-related Antarctic chondrites. <i>Chemie Der Erde</i> , 2009, 69, 161-168.	2.0	19
61	Oxygen isotope geochemistry of hydrothermally-altered synmetamorphic granitic rocks from South-Central Maine, USA. <i>Contributions To Mineralogy and Petrology</i> , 1986, 93, 420-428.	3.1	18
62	Comparison of oxygen isotope data obtained by laser fluorination of olivine with KrF excimer laser and CO ₂ laser. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3141-3149.	3.9	18
63	A carbon-rich region in Miller Range 091004 and implications for ureilite petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 379-395.	3.9	18
64	Petrology and oxygen isotopes of NWA 5492, a new metal-rich chondrite. <i>Meteoritics and Planetary Science</i> , 2012, 47, 363-373.	1.6	16
65	Oxygen and carbon isotope composition from the UHP Shuanghe marbles, Dabie Mountains, China. <i>Science in China Series D: Earth Sciences</i> , 1999, 42, 88-96.	0.9	15
66	Petrology and geochemistry of Yamato 984028: a cumulate lherzolitic shergottite with affinities to Y 000027, Y 000047, and Y 000097. <i>Polar Science</i> , 2011, 4, 497-514.	1.2	15
67	Andalusite, Kyanite, and Sillimanite from the Mount Moosilauke Region, New Hampshire. <i>Bulletin of the Geological Society of America</i> , 1973, 84, 2423.	3.3	13
68	Steep redox gradient and biogeochemical cycling driven by deeply sourced fluids and gases in a terrestrial mud volcano. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	13
69	The influence of fluids on the thermal history of a metamorphic terrain: New Hampshire, USA. <i>Geological Society Special Publication</i> , 1989, 43, 203-213.	1.3	12
70	Presidential Address to the Mineralogical Society of America Seattle, November 4, 2003: A mineralogical and geochemical record of atmospheric photochemistry. <i>American Mineralogist</i> , 2005, 90, 918-930.	1.9	12
71	The elemental composition of Almahata Sitta. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1718-1727.	1.6	12
72	Mass-independently fractionated sulfur in Archean paleosols: A large reservoir of negative $\delta^{33}\text{S}$ anomaly on the early Earth. <i>Chemical Geology</i> , 2013, 362, 74-81.	3.3	12

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73	Strain and Metamorphism: Metaclastic Rocks from New Hampshire. <i>Journal of Geology</i> , 1979, 87, 69-86.	1.4	9
74	Petrogenesis of Miller Range 07273, a new type of anomalous melt breccia: Implications for impact effects on the H chondrite asteroid. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1963-1990.	1.6	7
75	The Potential for Metamorphic Thermal Pulses to Develop During Compaction-Driven Fluid Flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 232-256.	2.5	7
76	Multiple sulfur isotopes reveal a possible non-crustal source of sulfur for the Bushveld Province, southern Africa. <i>Geology</i> , 2019, 47, 982-986.	4.4	7
77	Petrology and oxygen isotopic compositions of clasts in HED polymict breccia NWA 5232. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1184-1200.	1.6	6
78	The third isotope of the third element on the third planet. <i>American Mineralogist</i> , 2018, 103, 1-10.	1.9	3
79	Accretionary mixing of a eucrite impactor and the regolith of the L chondrite parent body. <i>Meteoritics and Planetary Science</i> , 2020, 55, 20-35.	1.6	3
80	Two new eucrite breccias from Northwest Africa. <i>Meteoritics and Planetary Science</i> , 2013, 48, E1.	1.6	2
81	Comment on "Remarkable fossil locality: Crinoid stems from migmatite of the Coast Plutonic Complex, British Columbia". <i>Geology</i> , 1986, 14, 631.	4.4	1
82	Sulfur, carbon, and oxygen isotope geochemistry of pyrite and calcite from veins and sediments sampled by borehole CCM-2, Creede Caldera, Colorado. , 2000, , 287-300.		1
83	Earth's Early Atmosphere, Biosphere, Lithosphere, and Hydrosphere. <i>ACS Symposium Series</i> , 2008, , 261-281.	0.5	1
84	Testing for Rapid Thermal Pulses in the Crust by Modeling Garnet Growth "Diffusion" Resorption Profiles in a UHT Metamorphic "Hot Spot", New Hampshire, USA. <i>Journal of Petrology</i> , 0, , .	2.8	1
85	Summary of Research on Stable-Isotope Geochemistry of UHP Rocks, 1993 to 1998. <i>International Geology Review</i> , 1999, 41, 1028-1032.	2.1	0