

Carol D Frost

List of Publications by Year in descending order

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107
papers

9,917
citations

66343

42
h-index

38395

95
g-index

113
all docs

113
docs citations

113
times ranked

4816
citing authors

#	ARTICLE	IF	CITATIONS
1	A Geochemical Classification for Granitic Rocks. <i>Journal of Petrology</i> , 2001, 42, 2033-2048.	2.8	3,179
2	On Ferroan (A-type) Granitoids: their Compositional Variability and Modes of Origin. <i>Journal of Petrology</i> , 2011, 52, 39-53.	2.8	651
3	A Geochemical Classification for Feldspathic Igneous Rocks. <i>Journal of Petrology</i> , 2008, 49, 1955-1969.	2.8	505
4	Reduced rapakivi-type granites: The tholeiite connection. <i>Geology</i> , 1997, 25, 647.	4.4	479
5	Petrogenesis of the 1.43 Ga Sherman Batholith, SE Wyoming, USA: a Reduced, Rapakivi-type Anorogenic Granite. <i>Journal of Petrology</i> , 1999, 40, 1771-1802.	2.8	283
6	Chemical weathering in the foreland of a retreating glacier. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1173-1189.	3.9	254
7	Nd, Pb, Sr, and O isotopic characterization of Saudi Arabian Shield terranes. <i>Chemical Geology</i> , 2006, 226, 163-188.	3.3	224
8	The Late Archean history of the Wyoming province as recorded by granitic magmatism in the Wind River Range, Wyoming. <i>Precambrian Research</i> , 1998, 89, 145-173.	2.7	182
9	CO ₂ , melts and granulite metamorphism. <i>Nature</i> , 1987, 327, 503-506.	27.8	179
10	On charnockites. <i>Gondwana Research</i> , 2008, 13, 30-44.	6.0	161
11	Petrogenesis of the Red Mountain pluton, Laramie anorthosite complex, Wyoming: implications for the origin of A-type granite. <i>Precambrian Research</i> , 2003, 124, 243-267.	2.7	150
12	The Wyoming Province: a distinctive Archean craton in Laurentian North America. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1391-1397.	1.3	122
13	Early Archean to Mesoproterozoic evolution of the Wyoming Province: Archean origins to modern lithospheric architecture. <i>Canadian Journal of Earth Sciences</i> , 2003, 40, 1357-1374.	1.3	120
14	IGCP Project 510 "A-type Granites and Related Rocks through Time": Project vita, results, and contribution to granite research. <i>Lithos</i> , 2012, 151, 1-16.	1.4	119
15	Mid-Pleistocene lavas from the Segoum volcanic center, central Aleutian arc: closed-system fractional crystallization of a basalt to rhyodacite eruptive suite. <i>Contributions To Mineralogy and Petrology</i> , 1992, 110, 87-112.	3.1	116
16	Caledonian Magma Genesis and Crustal Recycling. <i>Journal of Petrology</i> , 1985, 26, 515-544.	2.8	114
17	Nd Isotope Systematics of Coarse- and Fine-Grained Sediments: Examples from the Middle Proterozoic Belt-Purcell Supergroup. <i>Journal of Geology</i> , 1987, 95, 309-327.	1.4	114
18	Preservation of Fe isotope heterogeneities during diagenesis and metamorphism of banded iron formation. <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 211-235.	3.1	107

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19	Evidence for extensive Proterozoic remobilization of the Aldan shield and implications for Proterozoic plate tectonic reconstructions of Siberia and Laurentia. <i>Precambrian Research</i> , 1998, 89, 1-23.	2.7	103
20	The Geochemical Evolution of Anorthosite Residual Magmas in the Laramie Anorthosite Complex, Wyoming. <i>Journal of Petrology</i> , 1996, 37, 637-660.	2.8	100
21	Title is missing!. <i>Bulletin of the Geological Society of America</i> , 1996, 108, 1357.	3.3	98
22	Nd isotope character of New Zealand sediments; implications for terrane concepts and crustal evolution. <i>Numerische Mathematik</i> , 1989, 289, 744-770.	1.4	97
23	High-Al gabbros in the Laramie Anorthosite Complex, Wyoming: implications for the composition of melts parental to Proterozoic anorthosite. <i>Contributions To Mineralogy and Petrology</i> , 1995, 119, 166-180.	3.1	94
24	The relationship between A-type granites and residual magmas from anorthosite: evidence from the northern Sherman batholith, Laramie Mountains, Wyoming, USA. <i>Precambrian Research</i> , 2002, 119, 45-71.	2.7	92
25	Strontium Isotopic Identification of Water-Rock Interaction and Ground Water Mixing. <i>Ground Water</i> , 2004, 42, 418-432.	1.3	86
26	Origin of the Charnockites of the Louis Lake Batholith, Wind River Range, Wyoming. <i>Journal of Petrology</i> , 2000, 41, 1759-1776.	2.8	81
27	The tonaliteâ€“trondjemiteâ€“granodiorite (TTC) to granodioriteâ€“granite (GG) transition in the late Archean plutonic rocks of the central Wyoming Province. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1419-1444.	1.3	78
28	Proterozoic ferroan feldspathic magmatism. <i>Precambrian Research</i> , 2013, 228, 151-163.	2.7	74
29	U-Pb sphene dating of metamorphism: the importance of sphene growth in the contact aureole of the Red Mountain pluton, Laramie Mountains, Wyoming. <i>Contributions To Mineralogy and Petrology</i> , 1996, 125, 186-199.	3.1	73
30	Paleogeographic implications of nonâ€“North American sediment in the Mesoproterozoic upper Belt Supergroup and Lemhi Group, Idaho and Montana, USA. <i>Geology</i> , 2010, 38, 927-930.	4.4	72
31	Tobago, West Indies, a fragment of a Mesozoic oceanic island arc: petrochemical evidence. <i>Journal of the Geological Society</i> , 1989, 146, 953-964.	2.1	58
32	A strontium and neodymium isotopic investigation of the Laramie anorthosites, Wyoming, USA: Implications for magma chamber processes and the evolution of magma conduits in Proterozoic anorthosites. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 95-107.	3.9	58
33	The Chimakurti, Errakonda, and Uppalapadu plutons, Eastern Ghats Belt, India: An unusual association of tholeiitic and alkaline magmatism. <i>Lithos</i> , 2007, 97, 30-57.	1.4	57
34	Nd isotopic evidence for the antiquity of the Wyoming province. <i>Geology</i> , 1993, 21, 351.	4.4	55
35	Hadean origins of Paleoproterozoic continental crust in the central Wyoming Province. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 259-280.	3.3	55
36	Timing of sedimentation, metamorphism, and plutonism in the Helgeland Nappe Complex, north-central Norwegian Caledonides. , 2007, 3, 683.		53

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37	On silica-rich granitoids and their eruptive equivalents. <i>American Mineralogist</i> , 2016, 101, 1268-1284.	1.9	50
38	Analysis of the Wallowa-Baker terrane boundary: Implications for tectonic accretion in the Blue Mountains province, northeastern Oregon. <i>Bulletin of the Geological Society of America</i> , 2010, 122, 517-536.	3.3	48
39	Late Jurassic magmatism, metamorphism, and deformation in the Blue Mountains Province, northeast Oregon. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 2083-2111.	3.3	48
40	CHEMICAL AND ISOTOPIC EVOLUTION OF THE ANORTHOSITIC PLUTONS OF THE LARAMIE ANORTHOSITE COMPLEX: EXPLANATIONS FOR VARIATIONS IN SILICA ACTIVITY AND OXYGEN FUGACITY OF MASSIF ANORTHOSITES. <i>Canadian Mineralogist</i> , 2010, 48, 925-946.	1.0	45
41	Petrogenesis of Mesozoic, Peraluminous Granites in the Lamoille Canyon Area, Ruby Mountains, Nevada, USA. <i>Journal of Petrology</i> , 2003, 44, 713-732.	2.8	44
42	Strontium isotope geochemistry of groundwater in the central part of the Dakota (Great Plains) aquifer, USA. <i>Applied Geochemistry</i> , 2004, 19, 359-377.	3.0	43
43	The geochemical evolution of water coproduced with coalbed natural gas in the Powder River Basin, Wyoming. <i>Environmental Geosciences</i> , 2008, 15, 153-171.	0.6	43
44	Mid-Pleistocene basalt from the Seguam Volcanic Center, central Aleutian Arc, Alaska: Local lithospheric structures and source variability in the Aleutian Arc. <i>Journal of Geophysical Research</i> , 1992, 97, 4561-4578.	3.3	41
45	Direct dating of deformation: U-Pb age of syndeformational sphene growth in the Proterozoic Laramie Peak shear zone. <i>Geology</i> , 1996, 24, 623.	4.4	41
46	Archean crustal growth by lateral accretion of juvenile supracrustal belts in the south-central Wyoming Province. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1533-1555.	1.3	41
47	Archean geochronological framework of the Bighorn Mountains, Wyoming. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1399-1418.	1.3	40
48	Late Archean structural and metamorphic history of the Wind River Range: Evidence for a long-lived active margin on the Archean Wyoming craton. <i>Bulletin of the Geological Society of America</i> , 2000, 112, 564-578.	3.3	38
49	Tracing Coalbed Natural Gas-Coproduced Water Using Stable Isotopes of Carbon. <i>Ground Water</i> , 2008, 46, 329-334.	1.3	38
50	PETROLOGY, GEOCHEMISTRY, AND STRUCTURE OF THE CHUGWATER ANORTHOSITE, LARAMIE ANORTHOSITE COMPLEX, SOUTHEASTERN WYOMING. <i>Canadian Mineralogist</i> , 2010, 48, 887-923.	1.0	35
51	A Geochemical Study of Magmatism across a Major Terrane Boundary: Sr and Nd Isotopes in Proterozoic Granitoids of the Southern Laramie Range, Wyoming. <i>Journal of Geology</i> , 1989, 97, 331-342.	1.4	35
52	Nd evidence for Proterozoic crustal development in the Belt-Purcell Supergroup. <i>Nature</i> , 1984, 312, 53-56.	27.8	34
53	Evaluation of amendments used to prevent sodification of irrigated fields. <i>Applied Geochemistry</i> , 2009, 24, 2113-2122.	3.0	30
54	Geochemical Evolution of Ground Water in the Great Plains (Dakota) Aquifer of Nebraska: Implications for the Management of a Regional Aquifer System. <i>Ground Water</i> , 2001, 39, 98-108.	1.3	29

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55	Nd evidence for extensive Archean basement in the western Churchill Province, Canada. <i>Canadian Journal of Earth Sciences</i> , 1986, 23, 1433-1437.	1.3	28
56	The 1.76-Ga Horse Creek anorthosite complex, Wyoming: A massif anorthosite emplaced late in the Medicine Bow orogeny. <i>Rocky Mountain Geology</i> , 2000, 35, 71-90.	0.9	27
57	Grenville-age A-type and related magmatism in southern Laurentia, Texas and New Mexico, U.S.A.. <i>Lithos</i> , 2007, 97, 58-87.	1.4	27
58	The Teton "Wind River domain: a 2.68-2.67 Ga active margin in the western Wyoming Province. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1489-1510.	1.3	26
59	Detecting Infiltration and Impacts of Introduced Water Using Strontium Isotopes. <i>Ground Water</i> , 2007, 45, 554-568.	1.3	26
60	A Test of a Quartz Eclogite Source for Parental Aleutian Magmas: A Mass Balance Approach. <i>Journal of Geology</i> , 1986, 94, 811-828.	1.4	26
61	Megacryst-bulk rock isotopic disequilibrium as an indicator of contamination processes: The Edgcombe Volcanic Field, SE Alaska. <i>Contributions To Mineralogy and Petrology</i> , 1988, 99, 105-112.	3.1	25
62	Continent-scale linearity of kimberlite-carbonatite magmatism, mid-continent North America. <i>Earth and Planetary Science Letters</i> , 2014, 403, 1-14.	4.4	25
63	Carbon isotope characterization of powder river basin coal bed waters: Key to minimizing unnecessary water production and implications for exploration and production of biogenic gas. <i>International Journal of Coal Geology</i> , 2014, 126, 106-119.	5.0	25
64	A neodymium isotopic study of crude oils and source rocks: potential applications for petroleum exploration. <i>Chemical Geology</i> , 1991, 91, 125-138.	3.3	24
65	Leucogranites of the Teton Range, Wyoming: A record of Archean collisional orogeny. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 528-549.	3.9	24
66	Petrologic constraints on the spatial distribution of crustal magma chambers, Atka Volcanic Center, central Aleutian arc. <i>Contributions To Mineralogy and Petrology</i> , 2002, 143, 567-586.	3.1	23
67	Tectonic histories of the Paleo- to Mesoarchean Sacawee block and Neoproterozoic Oregon Trail structural belt of the south-central Wyoming Province. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1445-1466.	1.3	21
68	Open-System Dehydration of Amphibolite, Morton Pass, Wyoming: Elemental and Nd and Sr Isotopic Effects. <i>Journal of Geology</i> , 1995, 103, 269-284.	1.4	20
69	A reassessment of Mojavia and a new Cheyenne Belt alignment in the eastern Great Basin. , 2011, 7, 513-527.		20
70	Petrology of the Vandfaldsdalen Macrodiike, Skaergaard Region, East Greenland. <i>Journal of Petrology</i> , 1989, 30, 271-298.	2.8	19
71	A petrologic re-investigation of the Adak volcanic center, central Aleutian arc, Alaska. <i>Journal of Volcanology and Geothermal Research</i> , 1994, 60, 109-146.	2.1	19
72	The Wyoming carbon underground storage project: Geologic characterization of the Moxa Arch and Rock Springs Uplift. <i>Energy Procedia</i> , 2011, 4, 4656-4663.	1.8	19

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73	The origin of extensive Neoproterozoic high-silica batholiths and the nature of intrusive complements to silicic ignimbrites: Insights from the Wyoming batholith, U.S.A.. <i>American Mineralogist</i> , 2016, 101, 1332-1347.	1.9	17
74	In suspect terrane? Provenance of the late Archean Phantom Lake metamorphic suite, Sierra Madre, Wyoming. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 1557-1577.	1.3	16
75	Strontium isotopes as indicators of aquifer communication in an area of coal-bed natural gas production, Powder River Basin, Wyoming and Montana. <i>Rocky Mountain Geology</i> , 2008, 43, 171-197.	0.9	16
76	Modern Wyoming plant and pronghorn isoscapes and their implications for archaeology. <i>Journal of Geochemical Exploration</i> , 2009, 102, 149-156.	3.2	15
77	Stratigraphic evaluation of reservoir and seal in a natural CO ₂ field: Lower Paleozoic, Moxa Arch, southwest Wyoming. <i>Rocky Mountain Geology</i> , 2010, 45, 113-132.	0.9	14
78	Baseline geochemical characterization of potential receiving reservoirs for carbon dioxide in the Greater Green River Basin, Wyoming. <i>Rocky Mountain Geology</i> , 2010, 45, 93-111.	0.9	13
79	Magma as a Source of Heat and Fluids in Granulite Metamorphism. , 1989, , 1-18.		13
80	Isotopic identification of natural vs. anthropogenic sources of Pb in Laramie basin groundwaters, Wyoming, USA. <i>Environmental Geology</i> , 2003, 43, 580-591.	1.2	12
81	Geologic carbon sequestration in Wyoming: prospects and progress. <i>Rocky Mountain Geology</i> , 2010, 45, 83-91.	0.9	12
82	Tectonic reconstruction and sediment provenance of a far-travelled oceanic nappe, Helgeland Nappe Complex, west-central Norway. <i>Geological Society Special Publication</i> , 2014, 390, 583-602.	1.3	12
83	Nature Versus Nurture: Preservation and Destruction of Archean Cratons. <i>Tectonics</i> , 2021, 40, e2021TC006714.	2.8	12
84	Geochemical analysis of Atlantic Rim water, Carbon County, Wyoming: New applications for characterizing coalbed natural gas reservoirs. <i>AAPG Bulletin</i> , 2011, 95, 191-217.	1.5	11
85	Sulfur Isotopes in Biogenically and Abiogenically Derived Uranium Roll-Front Deposits. <i>Economic Geology</i> , 2019, 114, 353-373.	3.8	11
86	Isotopic Provenance of Clastic Deposits: Application of Geochemistry to Sedimentary Provenance Studies. <i>Frontiers in Sedimentary Geology</i> , 1988, , 27-42.	0.2	11
87	Nd, Sr, and Pb isotopic characterization of Cretaceous and Paleogene volcanic and plutonic island arc rocks from Puerto Rico. , 1998, ,		10
88	Title is missing!. , 2012, 8, 518.		10
89	Nd and Sr isotopic data from argillaceous rocks of the Galice Formation and Rattlesnake Creek terrane, Klamath Mountains: Evidence for the input of Precambrian sources. , 2006, ,		9
90	Neoproterozoic tectonic history of the Teton Range: Record of accretion against the present-day western margin of the Wyoming Province. , 2018, 14, 1008-1030.		9

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91	Petrology and geochemistry of the Middle Jurassic Ironside Mountain batholith: Evolution of potassic magmas in a primitive arc setting. , 2006, , .		8
92	Mass balance calculations with end member compositional variability: applications to petrologic problems. Earth and Planetary Science Letters, 1987, 81, 212-220.	4.4	7
93	Arc plutonism following regional thrusting: Petrology and geochemistry of syn- and post-Nevadan plutons in the Siskiyou Mountains, Klamath Mountains province, California. , 2006, , .		7
94	Growth and zoning of the HortavÃ r intrusive complex, a layered alkaline pluton in the Norwegian Caledonides. , 2009, 5, 286-301.		6
95	2.7 Ga high-pressure granulites of the Teton Range: Record of Neoproterozoic continent collision and exhumation. , 2018, 14, 1031-1050.		6
96	Petrologic constraints on the origin of Proterozoic ferroan granites of the Laurentian margin. , 2023, , 151-173.		6
97	Rbâ€Sr and Smâ€Nd isotopic characterization of Eocene volcanic and volcanoclastic rocks from Puerto Rico. Geophysical Research Letters, 1991, 18, 545-548.	4.0	5
98	Nd isotopic anatomy of a pebble conglomerate from the Murihiku terrane of New Zealand: Record of a varied provenance along the Mesozoic Gondwanaland margin. Sedimentary Geology, 2005, 182, 201-208.	2.1	5
99	Geology, geochemistry and emplacement conditions of the Vega intrusive complex: an example of large-scale crustal anatexis in north-central Norway. Geological Society Special Publication, 2014, 390, 603-631.	1.3	5
100	Application of a Bayesian model to infer the contribution of coalbed natural gas produced water to the Powder River, Wyoming and Montana. Hydrological Processes, 2014, 28, 2361-2381.	2.6	4
101	Petrogenetic and tectonic interpretation of strongly peraluminous granitic rocks and their significance in the Archean rock record. American Mineralogist, 2021, 106, 1195-1208.	1.9	4
102	Evidence for Extensive Proterozoic Remobilization of the Aldan Shield and Implication for Proterozoic Plate Tectonic Reconstructions of Siberia and Laurentia. Gondwana Research, 2001, 4, 566-567.	6.0	3
103	Geoscientists, Who Have Documented the Rapid and Accelerating Climate Crisis for Decades, Are Now Pleading for Immediate Collective Action. Geophysical Research Letters, 2021, 48, e2021GL096644.	4.0	3
104	Geology of the Bear Mountain intrusive complex, Klamath Mountains, California. , 2006, , .		2
105	High-Al gabbros in the Laramie Anorthosite Complex, Wyoming: implications for the composition of melts parental to Proterozoic anorthosite. Contributions To Mineralogy and Petrology, 1995, 119, 166-180.	3.1	2
106	USING STRONTIUM ISOTOPES TO EVALUATE CBNG IRRIGATION AMENDMENTS. Journal of the American Society of Mining and Reclamation, 2007, 2007, 87-94.	0.3	1
107	On charnockites: Reply to the discussion by C. Bhattacharyya and B. Goswami. Gondwana Research, 2009, 15, 218-219.	6.0	0