Carol A Finn

List of Publications by Year
in descending order

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64 papers	2,642 citations	218677 26 h-index	214800 47 g-index
87 all docs	87 docs citations	87 times ranked	2248 citing authors

#	Article	IF	Citations
1	EMAG2: A 2â€“arc min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	452
2	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. Nature, 2011, 479, 388-392.	27.8	198
3	Active volcanism beneath the West Antarctic ice sheet and implications for ice-sheet stability. Nature, 1993, 361, 526-529.	27.8	183
4	A Cenozoic diffuse alkaline magmatic province (DAMP) in the southwest Pacific without rift or plume origin. Geochemistry, Geophysics, Geosystems, 2005, 6, .	2.5	146
5	Aerogeophysical measurements of collapse-prone hydrothermally altered zones at Mount Rainier volcano. Nature, 2001, 409, 600-603.	27.8	100
6	Seismic reflection images beneath Puget Sound, western Washington State: The Puget Lowland thrust sheet hypothesis. Journal of Geophysical Research, 1997, 102, 27469-27489.	3.3	97
7	Subglacial sediments: A regional geological template for ice flow in West Antarctica. Geophysical Research Letters, 2001, 28, 3493-3496.	4.0	96
8	Patterns of late Cenozoic volcanic and tectonic activity in the West Antarctic rift system revealed by aeromagnetic surveys. Tectonics, 1996, 15, 660-676.	2.8	82
9	Aeromagnetic legacy of early Paleozoic subduction along the Pacific margin of Gondwana. Geology, 1999, 27, 1087.	4.4	80
10	CASERTZ aeromagnetic data reveal late Cenozoic flood basalts(?) in the West Antarctic rift system. Geology, 1994, 22, 527.	4.4	78
11	New Magnetic Anomaly Map of the Antarctic. Geophysical Research Letters, 2018, 45, 6437-6449.	4.0	78
12	High-resolution aeromagnetic mapping of volcanic terrain, Yellowstone National Park. Journal of Volcanology and Geothermal Research, 2002, 115, 207-231.	2.1	68
13	Tectonics and conductivity structures in the Southern Washington Cascades. Journal of Geophysical Research, 1987, 92, 10179-10193.	3.3	60
14	Aeromagnetic evidence for a buried Early Cretaceous magmatic arc, northeast Japan. Journal of Geophysical Research, 1994, 99, 22165-22185.	3.3	56
15	Glimpses of East Antarctica: Aeromagnetic and satellite magnetic view from the central Transantarctic Mountains of East Antarctica. Journal of Geophysical Research, 2010, 115, .	3.3	52
16	Geophysical constraints on Washington Convergent Margin Structure. Journal of Geophysical Research, 1990, 95, 19533-19546.	3.3	48
17	Klamath-Blue Mountain lineament, Oregon. Geology, 1986, 14, 528.	4.4	44
18	Threeâ€dimensional geophysical mapping of rock alteration and water content at Mount Adams, Washington: Implications for lahar hazards. Journal of Geophysical Research, 2007, 112, .	3.3	43

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19	Mapping the 3D extent of the Northern Lobe of the Bushveld layered mafic intrusion from geophysical data. Precambrian Research, 2015, 268, 279-294.	2.7	40
20	Freezing of ridges and water networks preserves the Gamburtsev Subglacial Mountains for millions of years. Geophysical Research Letters, 2014, 41, 8114-8122.	4.0	38
21	Geoelectric hazard maps for the continental United States. Geophysical Research Letters, 2016, 43, 9415-9424.	4.0	38
22	Evidence from gravity data for an intrusive complex beneath Mount St. Helens. Journal of Geophysical Research, 1987, 92, 10207-10222.	3.3	36
23	The USGS Geomagnetism Program and Its Role in Space Weather Monitoring. Space Weather, 2011, 9, .	3.7	36
24	An aeromagnetic study of Mount St. Helens. Journal of Geophysical Research, 1987, 92, 10194-10206.	3.3	33
25	Gravity evidence for a shallow intrusion under Medicine Lake volcano, California. Geology, 1982, 10, 503.	4.4	31
26	28. Analysis of Gravity Data in Volcanic Terrain and Gravity Anomalies and Subvolcanic Intrusions in the Cascade Range, U.S.A., and at Other Selected Volcanoes. , 1985, , 361-374.		28
27	Combining Multiphase Groundwater Flow and Slope Stability Models to Assess Stratovolcano Flank Collapse in the Cascade Range. Journal of Geophysical Research: Solid Earth, 2018, 123, 2787-2805.	3.4	27
28	Three-dimensional geophysical mapping of shallow water saturated altered rocks at Mount Baker, Washington: Implications for slope stability. Journal of Volcanology and Geothermal Research, 2018, 357, 261-275.	2.1	25
29	Gravity models of the Bushveld Complex â€“ Have we come full circle?. Journal of African Earth Sciences, 2014, 92, 97-118.	2.0	21
30	Air and shipborne magnetic surveys of the Antarctic into the 21st century. Tectonophysics, 2013, 585, 3-12.	2.2	19
31	Scouting Cratonâ€™s Edge in Paleo-Pacific Gondwana. , 2006, , 165-173.		18
32	Evidence for a shallow pluton beneath the Goat Rocks Wilderness, Washington, from gravity and magnetic data. Journal of Geophysical Research, 1987, 92, 4867-4880.	3.3	17
33	Overview of the magnetic signatures of the Palaeoproterozoic Rustenburg Layered Suite, Bushveld Complex, South Africa. Precambrian Research, 2013, 236, 193-213.	2.7	17
34	ADMAP â€” A Digital Magnetic Anomaly Map of the Antarctic. , 2006, , 109-116.		16
35	Geophysical imaging of the Yellowstone hydrothermal plumbing system. Nature, 2022, 603, 643-647.	27.8	13
36	Geological and Thermal Control of the Hydrothermal System in Northern Yellowstone Lake: Inferences From Highâ€Resolution Magnetic Surveys. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019743.	3.4	12

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37	Helicopter electromagnetic data map ice thickness at Mount Adams and Mount Baker, Washington, USA. Journal of Glaciology, 2012, 58, 1133-1143.	2.2	11
38	Introduction to the Special Section Northeast Japan: A Case History of Subduction. Journal of Geophysical Research, 1994, 99, 22137-22145.	3.3	10
39	Signs from the Precambrian: The geologic framework of Rocky Mountain region derived from aeromagnetic data. Geophysical Monograph Series, 2005, , 39-54.	0.1	10
40	Improved Geomagnetic Referencing in the Arctic Environment. , 2013, , .		8
41	Airborne Geophysical Imaging of Weak Zones on Iliamna Volcano, Alaska: Implications for Slope Stability. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020807.	3.4	8
42	When Wyoming Became Superior: Oblique Convergence Along the Southern Transâ€Hudson Orogen. Geophysical Research Letters, 2021, 48, e2021GL092970.	4.0	7
43	Using Nuclear Magnetic Resonance and Transient Electromagnetics to characterise water distribution beneath an ice covered volcanic crater: the case of Sherman Crater Mt. Baker, Washington. Near Surface Geophysics, 2014, 12, 285-296.	1.2	6
44	Realâ€time geomagnetic monitoring for space weatherâ€related applications: Opportunities and challenges. Space Weather, 2017, 15, 820-827.	3.7	6
45	Comment and Reply on "U.S. west coast revisited: An aeromagnetic perspective". Geology, 1991, 19, 950.	4.4	5
46	New digital data base helps to map North America. Eos, 2001, 82, 325-325.	0.1	5
47	New digital magnetic anomaly database for North America. The Leading Edge, 2001, 20, 870-872.	0.7	5
48	Improved Geomagnetic Referencing in the Arctic Environment (Russian). , 2013, , .		5
49	Mapping the 3D extent of the Stillwater Complex, Montanaâ€”Implications for potential platinum group element exploration and development. Precambrian Research, 2020, 348, 105860.	2.7	5
50	Geometry of the Bushveld Complex from 3D potential field modelling. Precambrian Research, 2021, 359, 106219.	2.7	5
51	Magnetic and Gravity Constraints on Forearc Upper Crustal Structure and Composition, Offshore Northeast Japan.. Journal of Geomagnetism and Geoelectricity, 1994, 46, 423-441.	0.9	5
52	Potential of airborne geophysical capabilities discussed. Eos, 2003, 84, 4.	0.1	4
53	Geomagnetic Referencing in the Arctic Environment (Russian). , 2011, , .		3
54	Geomagnetic Referencing in the Arctic Environment. , 2011, , .		3

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55	Crustal structure of the Gamburtsev Province, East Antarctica, from airborne geophysics. , 2017, , .		2
56	Helicopter magnetic and electromagnetic surveys at Mounts Adams, Baker and Rainier, Washington: Implications for debris flow hazards and volcano hydrology. , 2011, , .		2
57	The 180-km-long Meers-Willow Fault System in the Southern Oklahoma Aulacogen: A potential U.S. mid-continent seismic hazard. Bulletin of the Geological Society of America, 0, , .	3.3	1
58	Applications of Geophysical Methods to Volcano Monitoring. , 2006, , .		0
59	AGU Board and Council Project Team Take Next Steps. Eos, 2011, 92, 137-137.	0.1	0
60	Geomagnetic Referencing in the Arctic Environment. , 2012, , .		0
61	Influencing the future of AGU. Eos, 2012, 93, 7-7.	0.1	0
62	John B. â€œJackâ€•Townshend (1927-2012). Eos, 2012, 93, 524-525.	0.1	0
63	Gravity studies in volcanic terranes. , 1982, , .		0
64	GEOPHYSICAL IMAGING OF THE BURIED EXTENTS OF SELECTED LAYERED MAFIC INTRUSIONS AND RELATION TO PLATINUM GROUP ELEMENT EXPLORATION. , 2016, , .		0