

Anya M Reading

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82 papers	1,832 citations	24 h-index	41 g-index
87 ext. papers	2,108 ext. citations	2.9 avg, IF	5.14 L-index

#	Paper	IF	Citations
82	Geological mapping using remote sensing data: A comparison of five machine learning algorithms, their response to variations in the spatial distribution of training data and the use of explicit spatial information. <i>Computers and Geosciences</i> , 2014 , 63, 22-33	4.5	278
81	Contrasts in lithospheric structure within the Australian craton: Insights from surface wave tomography. <i>Earth and Planetary Science Letters</i> , 2005 , 231, 163-176	5.3	132
80	Crustal architecture of the Capricorn Orogen, Western Australia and associated metallogeny. <i>Australian Journal of Earth Sciences</i> , 2013 , 60, 681-705	1.4	105
79	Steps in lithospheric thickness within eastern Australia, evidence from surface wave tomography. <i>Tectonics</i> , 2008 , 27, n/a-n/a	4.3	100
78	AusMoho: the variation of Moho depth in Australia. <i>Geophysical Journal International</i> , 2011 , 187, 946-958.	4.6	93
77	Lithospheric structure of Tasmania from a novel form of teleseismic tomography. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		86
76	Anomalous lithosphere beneath the Proterozoic of western and central Australia: A record of continental collision and intraplate deformation?. <i>Precambrian Research</i> , 2008 , 166, 111-121	3.9	69
75	The upside of uncertainty: Identification of lithology contact zones from airborne geophysics and satellite data using random forests and support vector machines. <i>Geophysics</i> , 2013 , 78, WB113-WB126	3.1	57
74	Mapping geology and volcanic-hosted massive sulfide alteration in the Hellyer Mt Charter region, Tasmania, using Random Forests and Self-Organising Maps. <i>Australian Journal of Earth Sciences</i> , 2014 , 61, 287-304	1.4	50
73	Contrasts in mantle structure beneath Australia: relation to Tasman Lines?. <i>Australian Journal of Earth Sciences</i> , 2004 , 51, 563-569	1.4	45
72	High-frequency ambient noise tomography of southeast Australia: New constraints on Tasmania's tectonic past. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	44
71	The seismic structure of Precambrian and early Palaeozoic terranes in the Lambert Glacier region, East Antarctica. <i>Earth and Planetary Science Letters</i> , 2006 , 244, 44-57	5.3	43
70	Improved inversion for seismic structure using transformed, S-wave vector receiver functions: Removing the effect of the free surface. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	42
69	Seismic structure of the Yilgarn Craton, Western Australia. <i>Australian Journal of Earth Sciences</i> , 2003 , 50, 427-438	1.4	41
68	Lithospheric structure of the Pilbara Craton, Capricorn Orogen and northern Yilgarn Craton, Western Australia, from teleseismic receiver functions. <i>Australian Journal of Earth Sciences</i> , 2003 , 50, 439-445	1.4	37
67	Lithologic mapping using Random Forests applied to geophysical and remote-sensing data: A demonstration study from the Eastern Goldfields of Australia. <i>Geophysics</i> , 2018 , 83, B183-B193	3.1	36
66	Source locations of teleseismic P, SV, and SH waves observed in microseisms recorded by a large aperture seismic array in China. <i>Earth and Planetary Science Letters</i> , 2016 , 449, 39-47	5.3	34

65	Dominant seismic noise sources in the Southern Ocean and West Pacific, 2000-2012, recorded at the Warramunga Seismic Array, Australia. <i>Geophysical Research Letters</i> , 2014 , 41, 3455-3463	4.9	31
64	New constraints on the seismic structure of West Australia: Evidence for terrane stabilization prior to the assembly of an ancient continent?. <i>Geology</i> , 2007 , 35, 379	5	30
63	The frequency dependence and locations of short-period microseisms generated in the Southern Ocean and West Pacific. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 5764-5781	3.6	29
62	Polarization filtering for automatic picking of seismic data and improved converted phase detection. <i>Geophysical Journal International</i> , 2001 , 147, 227-234	2.6	29
61	Evidence of micro-continent entrainment during crustal accretion. <i>Scientific Reports</i> , 2015 , 5, 8218	4.9	25
60	Constraints on the frequency-magnitude relation and maximum magnitudes in the UK from observed seismicity and glacio-isostatic recovery rates. <i>Geophysical Journal International</i> , 2002 , 137, 535-550	2.6	25
59	Deconvolution enhanced direction of arrival estimation using one- and three-component seismic arrays applied to ocean induced microseisms. <i>Geophysical Journal International</i> , 2016 , 206, 345-359	2.6	24
58	Structure of the Tasmanian lithosphere from 3D seismic tomography. <i>Australian Journal of Earth Sciences</i> , 2010 , 57, 381-394	1.4	23
57	An integrated multi-scale 3D seismic model of the Archaean Yilgarn Craton, Australia. <i>Tectonophysics</i> , 2006 , 420, 75-90	3.1	23
56	Core structure re-examined using new teleseismic data recorded in Antarctica: evidence for, at most, weak cylindrical seismic anisotropy in the inner core. <i>Geophysical Journal International</i> , 2010 , 180, 1329-1343	2.6	22
55	Seismic structure of the crust and uppermost mantle of the Capricorn and Paterson Orogens and adjacent cratons, Western Australia, from passive seismic transects. <i>Precambrian Research</i> , 2012 , 196-197, 295-308	3.9	20
54	The Seismic Structure of Wilkes Land/Terre Adelie, East Antarctica and Comparison with Australia: First Steps in Reconstructing the Deep Lithosphere of Gondwana. <i>Gondwana Research</i> , 2004 , 7, 21-30	5.1	18
53	Linking mainland Australia and Tasmania using ambient seismic noise tomography: Implications for the tectonic evolution of the east Gondwana margin. <i>Gondwana Research</i> , 2015 , 28, 1212-1227	5.1	15
52	Matched Field Processing of Three-Component Seismic Array Data Applied to Rayleigh and Love Microseisms. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 6871-6889	3.6	15
51	Improved implementation of the fk and Capon methods for array analysis of seismic noise. <i>Geophysical Journal International</i> , 2014 , 198, 1045-1054	2.6	14
50	South Sandwich slices reveal much about arc structure, geodynamics, and composition. <i>Eos</i> , 1998 , 79, 281-281	1.5	14
49	Lithological mapping in the Central African Copper Belt using Random Forests and clustering: Strategies for optimised results. <i>Ore Geology Reviews</i> , 2019 , 112, 103015	3.2	13
48	Multiple influences on regolith characteristics from continental-scale geophysical and mineralogical remote sensing data using Self-Organizing Maps. <i>Remote Sensing of Environment</i> , 2015 , 165, 86-99	13.2	13

47	A multiphase seismic investigation of the shallow subduction zone, southern North Island, New Zealand. <i>Geophysical Journal International</i> , 2001 , 147, 215-226	2.6	12
46	Full wavefield decomposition of high-frequency secondary microseisms reveals distinct arrival azimuths for Rayleigh and Love waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 4660-4673	3.6	10
45	A Multivariate Approach for Mapping Lithospheric Domain Boundaries in East Antarctica. <i>Geophysical Research Letters</i> , 2019 , 46, 10404-10416	4.9	9
44	Seismic anisotropy of East Antarctica from shear-wave splitting: Spatially varying contributions from lithospheric structural fabric and mantle flow?. <i>Earth and Planetary Science Letters</i> , 2008 , 268, 433-443	5.3	9
43	Element mobility and spatial zonation associated with the Archean Hamlet orogenic Au deposit, Western Australia: Implications for fluid pathways in shear zones. <i>Chemical Geology</i> , 2019 , 514, 10-26	4.2	8
42	The seismicity of the Antarctic plate 2007 ,		8
41	Inherited crustal deformation along the East Gondwana margin revealed by seismic anisotropy tomography. <i>Geophysical Research Letters</i> , 2016 , 43, 12,082-12,090	4.9	8
40	Constraining depth to basement for mineral exploration using microtremor: A demonstration study from remote inland Australia. <i>Geophysics</i> , 2013 , 78, B227-B242	3.1	7
39	Transdimensional change-point modeling as a tool to investigate uncertainty in applied geophysical inference: An example using borehole geophysical logs. <i>Geophysics</i> , 2013 , 78, WB89-WB99	3.1	6
38	On Seismic Strain-Release within the Antarctic Plate 2006 , 351-355		6
37	Insights into the structure and dynamics of the upper mantle beneath Bass Strait, southeast Australia, using shear wave splitting. <i>Physics of the Earth and Planetary Interiors</i> , 2019 , 289, 45-62	2.3	5
36	Spatial-Contextual Supervised Classifiers Explored: A Challenging Example of Lithostratigraphy Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 1371-1384	4.7	4
35	Investigating the deep structure of terranes and terrane boundaries: insights from earthquake seismic data. <i>Geological Society Special Publication</i> , 2005 , 246, 293-303	1.7	4
34	Identification of intrusive lithologies in volcanic terrains in British Columbia by machine learning using random forests: The value of using a soft classifier. <i>Geophysics</i> , 2020 , 85, B249-B258	3.1	4
33	Transdimensional ambient noise tomography of Bass Strait, southeast Australia, reveals the sedimentary basin and deep crustal structure beneath a failed continental rift. <i>Geophysical Journal International</i> , 2019 ,	2.6	4
32	Well-Posed Geoscientific Visualization Through Interactive Color Mapping. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	4
31	Improved supervised classification of bedrock in areas of transported overburden: Applying domain expertise at Kerkasha, Eritrea. <i>Applied Computing and Geosciences</i> , 2019 , 3-4, 100001	2.8	4
30	Antarctic Geothermal Heat Flow Model: Aq1. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2020GC009428	3.4	4

29	Separation of tectonic and local components of horizontal GPS station velocities: a case study for glacial isostatic adjustment in East Antarctica. <i>Geophysical Journal International</i> , 2020 , 222, 1555-1569	2.6	3
28	Combining Machine Learning and Geophysical Inversion for Applied Geophysics. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-5	0.2	3
27	Exploiting seismic signal and noise in an intracratonic environment to constrain crustal structure and source parameters of infrequent earthquakes. <i>Geophysical Journal International</i> , 2012 , 188, 1303-1321	3.6	3
26	The Antarctic Crust and Upper Mantle: A Flexible 3D Model and Software Framework for Interdisciplinary Research. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	3
25	Lithological mapping via Random Forests: Information Entropy as a proxy for inaccuracy. <i>ASEG Extended Abstracts</i> , 2016 , 2016, 1-4	0.2	3
24	Inverse modeling constrained by potential field data, petrophysics, and improved geologic mapping: A case study from prospective northwest Tasmania. <i>Geophysics</i> , 2020 , 85, K13-K26	3.1	2
23	Delineation of fault segments in mines using seismic source mechanisms and location uncertainty. <i>Journal of Applied Geophysics</i> , 2019 , 170, 103828	1.7	2
22	TaggerVR: Interactive Data Analytics for Geoscience - A Novel Interface for Interactive Visual Analytics of Large Geoscientific Datasets in Cloud Repositories 2015 ,		2
21	Shallow fault location in coal measures using offset Wenner resistivity profiling1. <i>Geophysical Prospecting</i> , 1994 , 42, 343-356	1.9	2
20	A Grid for Multidimensional and Multivariate Spatial Representation and Data Processing. <i>Journal of Open Research Software</i> , 2020 , 8,	2.3	2
19	Seismic observations of a complex firn structure across the Amery Ice Shelf, East Antarctica. <i>Journal of Glaciology</i> , 2021 , 67, 777-787	3.4	2
18	CCLocAn Improved Interferometric Seismic Event Location Algorithm Applied to Induced Seismicity. <i>Seismological Research Letters</i> , 2021 ,	3	2
17	Impacts of the Cryosphere and Atmosphere on Observed Microseisms Generated in the Southern Ocean. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005354	3.8	2
16	Short Timescale Analysis of Microseisms and Application to Array Calibration. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 2684-2701	3.6	1
15	Efficient regional scale 3D potential field geophysical modelling to redefine the geometry of granite bodies beneath prospective, geologically complex, northwest Tasmania. <i>Ore Geology Reviews</i> , 2020 , 127, 103799	3.2	1
14	The Utility of Machine Learning in Identification of Key Geophysical and Geochemical Datasets: A Case Study in Lithological Mapping in the Central African Copper Belt. <i>ASEG Extended Abstracts</i> , 2018 , 2018, 1-4	0.2	1
13	Structure of the crust and upper mantle beneath Bass Strait, southeast Australia, from teleseismic body wave tomography. <i>Physics of the Earth and Planetary Interiors</i> , 2019 , 294, 106276	2.3	1
12	Animated analysis of geoscientific datasets: An interactive graphical application. <i>Computers and Geosciences</i> , 2017 , 109, 87-94	4.5	1

11	Insights into the continental structure of southeast Australia and Tasmania from passive seismic and magnetic datasets. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-4	0.2	1
10	Geological knowledge discovery and minerals targeting from regolith using a machine learning approach. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-4	0.2	1
9	Analytic and numerical solutions to the seismic wave equation in continuous media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200636	2.4	1
8	Crustal structure of southeast Australia from teleseismic receiver functions. <i>Solid Earth</i> , 2021 , 12, 463-481	0.3	1
7	Depth to basement and seismic velocity structure from passive seismic soundings in central Australia. <i>ASEG Extended Abstracts</i> , 2013 , 2013, 1-4	0.2	
6	Supervised and unsupervised classification of near-mine soil Geochemistry and Geophysics data. <i>ASEG Extended Abstracts</i> , 2013 , 2013, 1-4	0.2	
5	Bouncing continents: insights into the physics of the polar regions of the Earth from the POLENET project in the International Polar Year. <i>Physics Education</i> , 2008 , 43, 383-391	0.8	
4	Combining Seismic Data from Passive and Active Sources for understanding the terrane structure of the Eastern Goldfields, Western Australia. <i>ASEG Extended Abstracts</i> , 2007 , 2007, 1-4	0.2	
3	Antarctic seismology. <i>Physics Education</i> , 1999 , 34, 175-179	0.8	
2	Big Data Techniques for Applied Geoscience: Compute and Communicate. <i>ASEG Extended Abstracts</i> , 2016 , 2016, 1-5	0.2	
1	Large-Amplitude Elastic Free-Surface Waves: Geometric Nonlinearity and Peakons. <i>Journal of Elasticity</i> , 2021 , 1	1.5	