Joseph G Meert

List of Publications by Year
in descending order

123 papers	11,667 citations	34105 52 h-index	26613 107 g-index
132 all docs	132 docs citations	132 times ranked	5030 citing authors

#	Article	IF	Citations
1	Phanerozoic polar wander, palaeogeography and dynamics. Earth-Science Reviews, 2012, 114, 325-368.	9.1	1,088
2	A synopsis of events related to the assembly of eastern Gondwana. Tectonophysics, 2003, 362, 1-40.	2.2	898
3	Continental break-up and collision in the Neoproterozoic and Palaeozoic â€" A tale of Baltica and Laurentia. Earth-Science Reviews, 1996, 40, 229-258.	9.1	710
4	The Neoproterozoic assembly of Gondwana and its relationship to the Ediacaranâ€"Cambrian radiation. Gondwana Research, 2008, 14, 5-21.	6.0	446
5	The making and unmaking of a supercontinent: Rodinia revisited. Tectonophysics, 2003, 375, 261-288.	2.2	430
6	Paleomagnetic constraints on timing of the Neoproterozoic breakup of Rodinia and the Cambrian formation of Gondwana. Geology, 1993, 21, 889.	4.4	351
7	The Proterozoic supercontinent Rodinia: paleomagnetically derived reconstructions for 1100 to 800 Ma. Earth and Planetary Science Letters, 1998, 154, 13-24.	4.4	349
8	What's in a name? The Columbia (Paleopangaea/Nuna) supercontinent. Gondwana Research, 2012, 21, 987-993.	6.0	343
9	Palaeomagnetic configuration of continents during the Proterozoic. Tectonophysics, 2003, 375, 289-324.	2.2	332
10	Precambrian crustal evolution of Peninsular India: A 3.0 billion year odyssey. Journal of Asian Earth Sciences, 2010, 39, 483-515.	2.3	301
11	A â€˜snowball Earthâ€™ climate triggered by continental break-up through changes in runoff. Nature, 2004, 428, 303-306.	27.8	292
12	The assembly of Gondwana 800-550 Ma. Journal of Geodynamics, 1997, 23, 223-235.	1.6	287
13	Paleomagnetism and Detrital Zircon Geochronology of the Upper Vindhyan Sequence, Son Valley and Rajasthan, India: A ca. 1000Ma Closure age for the Purana Basins?. Precambrian Research, 2008, 164, 137-159.	2.7	237
14	The Columbia supercontinent revisited. Gondwana Research, 2017, 50, 67-83.	6.0	212
15	Paleomagnetic Evidence for a Paleo-Mesoproterozoic Supercontinent Columbia. Gondwana Research, 2002, 5, 207-215.	6.0	206
16	Paleomagnetism and geochronology of the Malani Igneous Suite, Northwest India: Implications for the configuration of Rodinia and the assembly of Gondwana. Precambrian Research, 2009, 170, 13-26.	2.7	200
17	Paleomagnetic investigation of the Neoproterozoic Gagwe lavas and Mbozi complex, Tanzania and the assembly of Gondwana. Precambrian Research, 1995, 74, 225-244.	2.7	192
18	The 1375Ma â€œKibaran eventâ€•in Central Africa: Prominent emplacement of bimodal magmatism under extensional regime. Precambrian Research, 2010, 180, 63-84.	2.7	191

#	ARTICLE	IF	CITATIONS
19	A Damara orogen perspective on the assembly of southwestern Gondwana. Geological Society Special Publication, 2008, 294, 257-278.	1.3	185
20	Reconstructions of the continents around the North Atlantic at about the 60th parallel. Earth and Planetary Science Letters, 2001, 187, 55-69.	4.4	180
21	Paleomagnetic and geochronological studies of the mafic dyke swarms of Bundelkhand craton, central India: Implications for the tectonic evolution and paleogeographic reconstructions. Precambrian Research, 2012, 198-199, 51-76.	2.7	160
22	The Paleozoic evolution of Central Tianshan: Geochemical and geochronological evidence. Gondwana Research, 2014, 25, 797-819.	6.0	130
23	Strange attractors, spiritual interlopers and lonely wanderers: The search for pre-Pangean supercontinents. Geoscience Frontiers, 2014, 5, 155-166.	8.4	126
24	A paleomagnetic and geochronologic study of the Majhgawan kimberlite, India: Implications for the age of the Upper Vindhyan Supergroup. Precambrian Research, 2006, 149, 65-75.	2.7	123
25	A detrital zircon Uâ€“Pb and Hf isotopic transect across the Son Valley sector of the Vindhyan Basin, India: Implications for basin evolution and paleogeography. Gondwana Research, 2014, 26, 348-364.	6.0	119
26	India's changing place in global Proterozoic reconstructions: A review of geochronologic constraints and paleomagnetic poles from the Dharwar, Bundelkhand and Marwar cratons. Journal of Geodynamics, 2010, 50, 224-242.	1.6	107
27	A plate-tectonic speed limit?. Nature, 1993, 363, 216-217.	27.8	104
28	The origin of microcontinents in the Central Asian Orogenic Belt: Constraints from paleomagnetism and geochronology. Precambrian Research, 2011, 185, 37-54.	2.7	104
29	The origin of the Baydaric microcontinent, Mongolia: Constraints from paleomagnetism and geochronology. Tectonophysics, 2010, 485, 306-320.	2.2	101
30	Growing Gondwana and Rethinking Rodinia: A Paleomagnetic Perspective. Gondwana Research, 2001, 4, 279-288.	6.0	99
31	Paleoproterozoic mafic dyke swarms from the Dharwar craton; paleomagnetic poles for India from 2.37 to 1.88Ga and rethinking the Columbia supercontinent. Precambrian Research, 2014, 244, 100-122.	2.7	98
32	The magnificent seven: A proposal for modest revision of the quality index. Tectonophysics, 2020, 790, 228549.	2.2	97
33	Paleomagnetic and⁴⁰Ar/³⁹Ar Study of the Sinyai Dolerite, Kenya: Implications for Gondwana Assembly. Journal of Geology, 1996, 104, 131-142.	1.4	94
34	The Neoproterozoic (1000â€“540 Ma) glacial intervals: No more snowball earth?. Earth and Planetary Science Letters, 1994, 123, 1-13.	4.4	93
35	Further geochronological and paleomagnetic constraints on Malani (and pre-Malani) magmatism in NW India. Tectonophysics, 2013, 608, 1254-1267.	2.2	91
36	Paleomagnetism of the Catoctin volcanic province: A new Vendian-Cambrian apparent polar wander path for North America. Journal of Geophysical Research, 1994, 99, 4625-4641.	3.3	88

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37	Tectonic Significance of the Fen Province, S. Norway: Constraints From Geochronology and Paleomagnetism. Journal of Geology, 1998, 106, 553-564.	1.4	87
38	A palaeomagnetic and palaeobiogeographical perspective on latest Neoproterozoic and early Cambrian tectonic events. Journal of the Geological Society, 2004, 161, 477-487.	2.1	86
39	Chapter 3 The Archaean and Proterozoic history of Peninsular India: tectonic framework for Precambrian sedimentary basins in India. Geological Society Memoir, 2015, 43, 29-54.	1.7	81
40	Preliminary report on the paleomagnetism of 1.88Ga dykes from the Bastar and Dharwar cratons, Peninsular India. Gondwana Research, 2011, 20, 335-343.	6.0	80
41	Early Permian slab breakoff in the Chinese Tianshan belt inferred from the post-collisional granitoids. Gondwana Research, 2015, 27, 228-243.	6.0	79
42	A paleomagnetic analysis of Cambrian true polar wander. Earth and Planetary Science Letters, 1999, 168, 131-144.	4.4	78
43	Paleogeography of Baltica in the Ediacaran: Paleomagnetic and geochronological data from the clastic Zigan Formation, South Urals. Precambrian Research, 2013, 236, 16-30.	2.7	66
44	The Paleoproterozoic magmaticâ€"metamorphic events and cover sediments of the Tiekelik Belt and their tectonic implications for the southern margin of the Tarim Craton, northwestern China. Precambrian Research, 2014, 254, 210-225.	2.7	64
45	Kotlin regional stage in the South Urals. Doklady Earth Sciences, 2011, 440, 1222-1226.	0.7	62
46	Paleo-position of the North China craton within the supercontinent Columbia: Constraints from new paleomagnetic results. Precambrian Research, 2014, 255, 276-293.	2.7	61
47	The Cambrian Explosion: Plume-driven birth of the second ecosystem on Earth. Gondwana Research, 2014, 25, 945-965.	6.0	59
48	Ediacaranâ€"Early Ordovician paleomagnetism of Baltica: A review. Gondwana Research, 2014, 25, 159-169.	6.0	58
49	Age and paleomagnetic signature of the AlnÃ¸ carbonatite complex (NE Sweden): Additional controversy for the Neoproterozoic paleoposition of Baltica. Precambrian Research, 2007, 154, 159-174.	2.7	56
50	Detrital Zircons Reveal Evidence of Hadean Crust in the Singhbhum Craton, India. Journal of Geology, 2018, 126, 541-552.	1.4	55
51	Revisiting the paleomagnetism of the 1.476 Ga St. Francois Mountains igneous province, Missouri. Tectonics, 2002, 21, 1-1-1-19.	2.8	54
52	Glaciation and ~770Ma Ediacara (?) Fossils from the Lesser Karatau Microcontinent, Kazakhstan. Gondwana Research, 2011, 19, 867-880.	6.0	52
53	Paleomagnetism, geochronology and tectonic implications of the Cambrian-age Carion granite, Central Madagascar. Tectonophysics, 2001, 340, 1-21.	2.2	51
54	Rapid changes of magnetic Field polarity in the late Ediacaran: Linking the Cambrian evolutionary radiation and increased UV-B radiation. Gondwana Research, 2016, 34, 149-157.	6.0	51

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55	Paleomagnetic and ⁴⁰Ar/³⁹Ar Studies of Late Kibaran Intrusives in Burundi, East Africa: Implications for Late Proterozoic Supercontinents. Journal of Geology, 1994, 102, 621-637.	1.4	49
56	Late Proterozoic paleomagnetism and tectonic models: a critical appraisal. Precambrian Research, 1991, 53, 149-163.	2.7	48
57	Polar Wander and the Cambrian. Science, 1998, 279, 9a-9.	12.6	48
58	A true polar wander trigger for the Great Jurassic East Asian Aridification. Geology, 2019, 47, 1112-1116.	4.4	48
59	Late Ediacaran magnetostratigraphy of Baltica: Evidence for Magnetic Field Hyperactivity?. Earth and Planetary Science Letters, 2016, 435, 124-135.	4.4	42
60	Paleomagnetic analysis of the Marwar Supergroup, Rajasthan, India and proposed interbasinal correlations. Journal of Asian Earth Sciences, 2014, 91, 339-351.	2.3	40
61	The stratoid granites of central Madagascar: paleomagnetism and further age constraints on neoproterozoic deformation. Precambrian Research, 2003, 120, 101-129.	2.7	38
62	Ages of detrital zircons (U/Pb, LA-ICP-MS) from the Latest Neoproterozoicâ€“Middle Cambrian(?) Asha Group and Early Devonian Takaty Formation, the Southwestern Urals: A test of an Australia-Baltica connection within Rodinia. Precambrian Research, 2014, 244, 288-305.	2.7	37
63	Geochemical characterization of a reconstructed 1110â€‾Ma Large Igneous Province. Precambrian Research, 2019, 332, 105382.	2.7	37
64	A Closure of the Mongolâ€Okhotsk Ocean by the Middle Jurassic: Reconciliation of Paleomagnetic and Geological Evidence. Geophysical Research Letters, 2020, 47, e2020GL088235.	4.0	37
65	Coupled modeling of global carbon cycle and climate in the Neoproterozoic: links between Rodinia breakup and major glaciations. Comptes Rendus - Geoscience, 2007, 339, 212-222.	1.2	35
66	Palaeoproterozoic magmaticâ€“metamorphic history of the Quanji Massif, Northwest China: implications for a single North China-Quanji-Tarim craton within the Columbia supercontinent?. International Geology Review, 2015, 57, 1772-1790.	2.1	34
67	Paleomagnetism of the Late Archean Nyanzian System, western Kenya. Precambrian Research, 1994, 69, 113-131.	2.7	33
68	The Oslo Rift: new palaeomagnetic and40Ar/39Ar age constraints. Geophysical Journal International, 1998, 135, 1045-1059.	2.4	32
69	Early Proterozoic palaeomagnetic data from the Pechenga Zone (north-west Russia) and their bearing on Early Proterozoic palaeogeography. Geophysical Journal International, 1995, 122, 520-536.	2.4	31
70	Paleomagnetism and geochronology of mafic dykes from the Southern Granulite Terrane, India: Expanding the Dharwar craton southward. Tectonophysics, 2019, 760, 4-22.	2.2	31
71	Non-dipole fields and inclination bias: insights from a random walk analysis. Earth and Planetary Science Letters, 2003, 214, 395-408.	4.4	30
72	Cooling of a Late-Syn Orogenic Pluton: Evidence from Laser K-feldspar Modelling of the Carion Granite, Madagascar. Gondwana Research, 2001, 4, 541-550.	6.0	29

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73	Permian Paleogeography of the Eastern CAOB: Paleomagnetic Constraints From Volcanic Rocks in Central Eastern Inner Mongolia, NE China. Journal of Geophysical Research: Solid Earth, 2018, 123, 2559-2582.	3.4	29
74	Comment on â€˜New palaeomagnetic result from Vendian red sediments in Cisbaikalia and the problem of the relationship ofÂSiberia and Laurentia in the Vendianâ€™ by S.ÂA. Pisarevsky, R.ÂA.ÂKomissarova and A. N. Khramov. Geophysical Journal International, 2001, 146, 867-870.	2.4	26
75	Paleomagnetism of upper Ediacaran clastics from the South Urals: Implications to paleogeography of Baltica and the opening of the Iapetus Ocean. Gondwana Research, 2015, 28, 191-208.	6.0	21
76	An expanding list of reliable paleomagnetic poles for Precambrian tectonic reconstructions. , 2021, , 605-639.		21
77	New constraints for the age of Vendian glacial deposits (Central Urals). Doklady Earth Sciences, 2013, 449, 303-308.	0.7	20
78	Two phases of Paleoproterozoic orogenesis in the Tarim Craton: Implications for Columbia assembly. Gondwana Research, 2020, 83, 201-216.	6.0	19
79	Late Paleozoic paleomagnetism of South Mongolia: Exploring relationships between Siberia, Mongolia and North China. Gondwana Research, 2016, 40, 124-141.	6.0	18
80	An Initial Collision of India and Asia in the Equatorial Humid Belt. Geophysical Research Letters, 2021, 48, e2021GL093408.	4.0	18
81	The Columbia supercontinent: Retrospective, status, and a statistical assessment of paleomagnetic poles used in reconstructions. Gondwana Research, 2022, 110, 143-164.	6.0	17
82	Testing the Neoproterozoic glacial models. Gondwana Research, 2007, 11, 573-574.	6.0	16
83	How well do Precambrian paleomagnetic data agree with the Phanerozoic apparent polar wander path? A Baltica case study. Precambrian Research, 2016, 285, 80-90.	2.7	16
84	Identifying late Neoproterozoicâ€“early Paleozoic sediments in the South Qilian Belt, China: A peri-Gondwana connection in the northern Tibetan Plateau. Gondwana Research, 2019, 76, 173-184.	6.0	16
85	In GAD we trust. Nature Geoscience, 2009, 2, 673-674.	12.9	15
86	Age of the Marwar Supergroup, NW India: A note on the Uâ€“Pb geochronology of Jodhpur Group felsic volcanics. Geoscience Frontiers, 2022, 13, 101287.	8.4	15
87	Paleomagnetic evidence for a stationary Marion hotspot: Additional paleomagnetic data from Madagascar. Gondwana Research, 2006, 10, 340-348.	6.0	14
88	Quantifying the Extent of the Paleoâ€Asian Ocean During the Late Carboniferous to Early Permian. Geophysical Research Letters, 2021, 48, e2021GL094498.	4.0	14
89	Precambrian microcontinents of the Ural-Mongolian Belt: New paleomagnetic and geochronological data. Geotectonics, 2011, 45, 51-70.	0.9	13
90	The East European Platform in the late Ediacaran: new paleomagnetic and geochronological data. Russian Geology and Geophysics, 2013, 54, 1392-1401.	0.7	13

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91	India and Antarctica in the Precambrian: a brief analysis. Geological Society Special Publication, 2017, 457, 339-351.	1.3	13
92	Assessing the intersection/remagnetization puzzle with synthetic apparent polar wander paths. Geophysical Journal International, 2018, 214, 1164-1172.	2.4	12
93	The Nama Group revisited. Geophysical Journal International, 1997, 129, 637-650.	2.4	11
94	Late Ediacaran magnetic field hyperactivity: Quantifying the reversal frequency in the Zigan Formation, Southern Urals, Russia. Gondwana Research, 2021, 94, 133-142.	6.0	11
95	Paleomagnetic Constraints on Neoproterozoic â€˜Snowball Earth' Continental Reconstructions. Geophysical Monograph Series, 0, , 5-11.	0.1	10
96	Reply to JDA Piper on â€œThe making and unmaking of a supercontinent: Rodinia revisitedâ€. Tectonophysics, 2004, 383, 99-103.	2.2	9
97	Neoproterozoic tectonic transition from subduction-related convergence to continental extension of the Tarim Block, NW China. Precambrian Research, 2021, 362, 106278.	2.7	9
98	An â€œInverse Conglomerateâ€•Paleomagnetic Test and Timing of In Situ Terra Rossa Formation at Bloomington, Indiana. Journal of Geology, 2009, 117, 126-138.	1.4	8
99	Does the planetary dynamo go cycling on? Re-examining the evidence for cycles in magnetic reversal rate. International Journal of Astrobiology, 2018, 17, 44-50.	1.6	8
100	Paleomagnetic results from the Singhbhum Craton, India: Remagnetization, demagnetization, and complication. Precambrian Research, 2021, 359, 106165.	2.7	8
101	The Precambrian drift history and paleogeography of India. , 2021, , 305-332.		8
102	Heat flow in the Ozark Plateau, Arkansas and Missouri: relationship to groundwater flow. Journal of Volcanology and Geothermal Research, 1991, 47, 337-347.	2.1	7
103	Heat flow at the Platanares, Honduras, geothermal site. Journal of Volcanology and Geothermal Research, 1991, 45, 91-99.	2.1	7
104	The Cambrian Carion Granite of Madagascar: A Case of Late Pan-African Shoshonitic Magmatism. Gondwana Research, 2001, 4, 746-747.	6.0	7
105	The fingerprint of Precambrian basement in the Chinese Central Tianshan: evidence from inherited/xenocrystic zircons of magmatic rocks. Geological Magazine, 2015, 152, 176-183.	1.5	7
106	Paleomagnetism and dating of a thick lava pile in the Permian Bakaly formation of eastern Kazakhstan: Regularities and singularities of the paleomagnetic record in thick lava series. Physics of the Earth and Planetary Interiors, 2016, 253, 5-20.	1.9	7
107	Microâ€Blocks in NE Asia Amalgamated Into the Unified Amuria Block by â^¼300ÂMa: First Paleomagnetic Evidence From the Songliao Block, NE China. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022881.	3.4	7
108	Evolution of the Arabian-Nubian Shield in Gabal Samra area, Sinai; implications from zircon Uâ€"Pb geochronology. Journal of African Earth Sciences, 2022, 192, 104538.	2.0	7

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109	Proterozoic East Gondwana: Supercontinent Assembly and Breakup, Special Publication 206. Eos, 2003, 84, 372.	0.1	6
110	The neoproterozoic (1100-540 Ma) glacial intervals: No more snowball Earth?: Reply. Earth and Planetary Science Letters, 1995, 131, 123-125.	4.4	5
111	Paleomagnetism of Bhander Sediments from Bhopal Inlier, Vindhyan Supergroup. Journal of the Geological Society of India, 2013, 82, 588-589.	1.1	5
112	Late Paleozoic geomagnetic-field estimates from studies of Permian lavas in northeastern Kazakhstan. Russian Geology and Geophysics, 2014, 55, 108-117.	0.7	5
113	A Neoarchean paleomagnetic pole from the Kisii Series of western Kenya: Implications for crustal mobility. Precambrian Research, 2016, 279, 91-102.	2.7	5
114	Soft-sediment deformation structures (SSDS) in the Ediacaran and lower Cambrian succession of the Aksu area, NW Tarim Basin, and their implications. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 567, 110237.	2.3	5
115	Geochemical and palaeomagnetic characteristics of the Vestfold Hills mafic dykes in the Prydz Bay region: implications of a Paleoproterozoic connection between East Antarctica and Proto-India. Geological Society Special Publication, 2022, 518, 149-171.	1.3	5
116	Biogeography and the nature and timing of the Cambrian radiation. The Paleontological Society Papers, 2004, 10, 79-92.	0.6	4
117	Four-stage building of the Cambrian Carion pluton (Madagascar). Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2009, 100, 133-145.	0.3	4
118	Ediacaranâ€“Cambrian paleogeography of Baltica: A paleomagnetic view from a diamond pit on the White Sea east coast. Lithosphere, 2016, 8, 564-573.	1.4	4
119	Protracted magmatism and magnetization around the McClure Mountain alkaline igneous complex. Lithosphere, 2019, 11, 590-602.	1.4	4
120	The (Paleo)Geography of Evolution: Making Sense of Changing Biology and Changing Continents. Evolution: Education and Outreach, 2012, 5, 547-554.	0.8	3
121	Episodic Neoproterozoic extension-related magmatism in the Altyn Tagh, NW China: implications for extension and breakup processes of Rodinia supercontinent. International Geology Review, 2022, 64, 1474-1489.	2.1	3
122	Gondwanaland, Formation. Encyclopedia of Earth Sciences Series, 2011, , 434-436.	0.1	3
123	Earth as an Evolving Planetary System. Eos, 2005, 86, 182.	0.1	0