

Andrew P Roberts

List of Publications by Year in Descending Order

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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.

269
papers

15,439
citations

64
h-index

115
g-index

279
ext. papers

17,386
ext. citations

6.1
avg, IF

6.76
L-index

#	Paper	IF	Citations
269	The Magnetic and Color Reflectance Properties of Hematite: From Earth to Mars. <i>Reviews of Geophysics</i> , 2022 , 60,	23.1	2
268	Unlocking information about fine magnetic particle assemblages from first-order reversal curve diagrams: Recent advances. <i>Earth-Science Reviews</i> , 2022 , 227, 103950	10.2	1
267	Abyssal Manganese Nodule Recording of Global Cooling and Tibetan Plateau Uplift Impacts on Asian Aridification. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	2
266	Magnetotactic bacteria and magnetofossils: ecology, evolution and environmental implications. <i>Npj Biofilms and Microbiomes</i> , 2022 , 8,	8.2	2
265	Unexpected Magnetic Behavior of Natural Hematite-Bearing Rocks at Low Temperatures. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC010094	3.6	1
264	Magnetic Domain State and Anisotropy in Hematite (α -Fe ₂ O ₃) From First-Order Reversal Curve Diagrams. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB023027	3.6	2
263	Global warming-induced Asian hydrological climate transition across the Miocene-Pliocene boundary. <i>Nature Communications</i> , 2021 , 12, 6935	17.4	2
262	Influence of Early Low-Temperature and Later High-Temperature Diagenesis on Magnetic Mineral Assemblages in Marine Sediments From the Nankai Trough. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC010133	3.6	1
261	Identification and characterization of magnetotactic Gammaproteobacteria from a salt evaporation pool, Bohai Bay, China. <i>Environmental Microbiology</i> , 2021 ,	5.2	6
260	Climatically Modulated Dust Inputs from New Zealand to the Southwest Pacific Sector of the Southern Ocean Over the Last 410 kyr. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2020PA003949	2.3	2
259	Sea level and deep-sea temperature reconstructions suggest quasi-stable states and critical transitions over the past 40 million years. <i>Science Advances</i> , 2021 , 7,	14.3	3
258	Magnetotactic Bacterial Activity in the North Pacific Ocean and Its Relationship to Asian Dust Inputs and Primary Productivity Since 8.0 Ma. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094687	4.9	0
257	Diverse Intracellular Inclusion Types Within Magnetotactic Bacteria: Implications for Biogeochemical Cycling in Aquatic Environments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006310	3.7	3
256	Diverse phylogeny and morphology of magnetite biomineralized by magnetotactic cocci. <i>Environmental Microbiology</i> , 2021 , 23, 1115-1129	5.2	17
255	Assessment of Magnetic Techniques for Understanding Complex Mixtures of Magnetite and Hematite: The Inuyama Red Chert. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126,	3.6	3
254	A novel authigenic magnetite source for sedimentary magnetization. <i>Geology</i> , 2021 , 49, 360-365	5	7
253	Understanding Nonideal Paleointensity Recording in Igneous Rocks: Insights From Aging Experiments on Lava Samples and the Causes and Consequences of Fragile Curvature in Arai Plots. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22,	3.6	5

252	A Novel Magnetotactic Alphaproteobacterium Producing Intracellular Magnetite and Calcium-Bearing Minerals. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0155621	4.8	2
251	Low-Temperature Magnetic Properties of Marine Sediments Quantifying Magnetofossils, Superparamagnetism, and Maghemitization: Eastern Mediterranean Examples. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021793	3.6	1
250	Micromagnetic simulations of first-order reversal curve (FORC) diagrams of framboidal greigite. <i>Geophysical Journal International</i> , 2020 , 222, 1126-1134	2.6	6
249	Magnetic evidence for Yellow River sediment in the late Holocene deposit of the Yangtze River Delta, China. <i>Marine Geology</i> , 2020 , 427, 106274	3.3	8
248	Bullet-Shaped Magnetite Biomineralization Within a Magnetotactic Deltaproteobacterium: Implications for Magnetofossil Identification. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005680	3.7	19
247	Characterization and Quantification of Magnetofossils Within Abyssal Manganese Nodules From the Western Pacific Ocean and Implications for Nodule Formation. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008811	3.6	12
246	Magnetostratigraphy of Mid-Miocene mammalian fauna in the Lanzhou Basin, northeastern Tibetan Plateau: Implications for Asian mammal migration. <i>Geoscience Frontiers</i> , 2020 , 11, 1337-1344	6	1
245	Magnetic Properties of Sedimentary Smythite (Fe ₉ S ₁₁). <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018812	3.6	1
244	Hematite (α-Fe ₂ O ₃) quantification in sedimentary magnetism: limitations of existing proxies and ways forward. <i>Geoscience Letters</i> , 2020 , 7,	3.5	16
243	Uncertainty Propagation in Hierarchical Paleomagnetic Reconstructions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019488	3.6	3
242	Detrital remanent magnetization of single-crystal silicates with magnetic inclusions: constraints from deposition experiments. <i>Geophysical Journal International</i> , 2020 , 224, 2001-2015	2.6	4
241	Mechanism for enhanced eolian dust flux recorded in North Pacific Ocean sediments since 4.0 Ma: Aridity or humidity at dust source areas in the Asian interior?. <i>Geology</i> , 2020 , 48, 77-81	5	17
240	East Asian monsoon evolution since the late Miocene from the South China Sea. <i>Earth and Planetary Science Letters</i> , 2020 , 530, 115960	5.3	15
239	Continental-scale magnetic properties of surficial Australian soils. <i>Earth-Science Reviews</i> , 2020 , 203, 103028	2.8	7
238	An Automatic Model Selection-Based Machine Learning Framework to Estimate FORC Distributions. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB020418	3.6	1
237	Orbital climate variability on the northeastern Tibetan Plateau across the Eocene-Oligocene transition. <i>Nature Communications</i> , 2020 , 11, 5249	17.4	14
236	Biomineralization and Magnetism of Uncultured Magnetotactic Coccus Strain THC-1 With Non-chained Magnetosomal Magnetite Nanoparticles. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB020853	3.6	12
235	Magnetotaxis as an Adaptation to Enable Bacterial Shuttling of Microbial Sulfur and Sulfur Cycling Across Aquatic Oxic-Anoxic Interfaces. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2020JG005612	3.7	16

234	Magnetic Properties of Late Holocene Dead Sea Sediments as a Monitor of Regional Hydroclimate. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009176	3.6	1
233	Assessment and Integration of Bulk and Component-Specific Methods for Identifying Mineral Magnetic Assemblages in Environmental Magnetism. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB019024	3.6	5
232	Expanding magnetic organelle biogenesis in the domain Bacteria. <i>Microbiome</i> , 2020 , 8, 152	16.6	18
231	A test of the relative importance of iron fertilization from aeolian dust and volcanic ash in the stratified high-nitrate low-chlorophyll subarctic Pacific Ocean. <i>Quaternary Science Reviews</i> , 2020 , 248, 106577	3.9	2
230	Two-stage mid-Brunhes climate transition and mid-Pleistocene human diversification. <i>Earth-Science Reviews</i> , 2020 , 210, 103354	10.2	13
229	Magnetic Vortex States in Toroidal Iron Oxide Nanoparticles: Combining Micromagnetics with Tomography. <i>Nano Letters</i> , 2020 , 20, 7405-7412	11.5	2
228	Dating of tsunami boulders from Ishigaki Island, Japan, with a modified viscous remanent magnetization approach. <i>Earth and Planetary Science Letters</i> , 2019 , 520, 94-104	5.3	2
227	More efficient North Atlantic carbon pump during the Last Glacial Maximum. <i>Nature Communications</i> , 2019 , 10, 2170	17.4	10
226	Phylogenetic and Structural Identification of a Novel Magnetotactic Strain, WYHR-1, from a Freshwater Lake. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	20
225	Domain State Diagnosis in Rock Magnetism: Evaluation of Potential Alternatives to the Day Diagram. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 5286-5314	3.6	29
224	Diagenetic Fate of Biogenic Soft and Hard Magnetite in Chemically Stratified Sedimentary Environments of Mamanguá, Brazil. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 2313-2330	3.6	16
223	Dredging and canal gate technologies in Portus, the ancient harbour of Rome, reconstructed from event stratigraphy and multi-proxy sediment analysis. <i>Quaternary International</i> , 2019 , 511, 78-93	2	3
222	Paleomagnetic Recording Efficiency of Sedimentary Magnetic Mineral Inclusions: Implications for Relative Paleointensity Determinations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 6267-6279	3.6	4
221	Guadalupian (Middle Permian) ocean redox evolution in South China and its implications for mass extinction. <i>Chemical Geology</i> , 2019 , 530, 119318	4.2	6
220	Asynchronous Antarctic and Greenland ice-volume contributions to the last interglacial sea-level highstand. <i>Nature Communications</i> , 2019 , 10, 5040	17.4	29
219	Simulation of Remanent, Transient, and Induced FORC Diagrams for Interacting Particles With Uniaxial, Cubic, and Hexagonal Anisotropy. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 12404-12429	3.6	13
218	Quantifying the Similarity of Paleomagnetic Poles. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 12388-12403	3.6	4
217	Midlatitude Southern Hemisphere Temperature Change at the End of the Eocene Greenhouse Shortly Before Dawn of the Oligocene Icehouse. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 1995-2004	3.2	1

216	An Improved Algorithm for Unmixing First-Order Reversal Curve Diagrams Using Principal Component Analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 1595-1610	3.6	39
215	A Critical Appraisal of the Day Diagram. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 2618-2644	3.6	96
214	Magnetic Properties and Paleomagnetism of Zebra Rock, Western Australia: Chemical Remanence Acquisition in Hematite Pigment and Ediacaran Geomagnetic Field Behavior. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 732-748	3.6	13
213	Fingerprints of partial oxidation of biogenic magnetite from cultivated and natural marine magnetotactic bacteria using synchrotron radiation. <i>Environmental Microbiology Reports</i> , 2018 , 10, 337-343	3.7	11
212	Magnetostratigraphy of the Fenghuoshan Group in the Hoh Xil Basin and its tectonic implications for India-Eurasia collision and Tibetan Plateau deformation. <i>Earth and Planetary Science Letters</i> , 2018 , 486, 41-53	5.3	32
211	Magnetic Domain State Diagnosis in Soils, Loess, and Marine Sediments From Multiple First-Order Reversal Curve-Type Diagrams. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 998-1017	3.6	9
210	A Bayesian Approach to the Paleomagnetic Conglomerate Test. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 1132-1142	3.6	5
209	Ferrimagnetic Iron Sulfide Formation and Methane Venting Across the Paleocene-Eocene Thermal Maximum in Shallow Marine Sediments, Ancient West Siberian Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 21-42	3.6	14
208	Mineral magnetic record of the Miocene-Pliocene climate transition on the Chinese Loess Plateau, North China. <i>Quaternary Research</i> , 2018 , 89, 619-628	1.9	4
207	Global cooling and enhanced Eocene Asian mid-latitude interior aridity. <i>Nature Communications</i> , 2018 , 9, 3026	17.4	25
206	Genomic expansion of magnetotactic bacteria reveals an early common origin of magnetotaxis with lineage-specific evolution. <i>ISME Journal</i> , 2018 , 12, 1508-1519	11.9	59
205	Revisiting the Paleomagnetic Reversal Test: A Bayesian Hypothesis Testing Framework for a Common Mean Direction. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 7225-7236	3.6	10
204	Multidecadally resolved polarity oscillations during a geomagnetic excursion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8913-8918	11.5	10
203	Influence of Sea Level Change and Centennial East Asian Monsoon Variations on Northern South China Sea Sediments Over the Past 36 kyr. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 1674-1689	3.6	10
202	A new model for transformation of ferrihydrite to hematite in soils and sediments. <i>Geology</i> , 2018 ,	5	11
201	Coupled microbial bloom and oxygenation decline recorded by magnetofossils during the Palaeocene-Eocene Thermal Maximum. <i>Nature Communications</i> , 2018 , 9, 4007	17.4	34
200	Reply to Zhang et al.: Late Miocene-Pliocene magnetostratigraphy of the Shilou Red Clay on the eastern Chinese Loess Plateau. <i>Earth and Planetary Science Letters</i> , 2018 , 503, 252-255	5.3	2
199	Magnetic vortex effects on first-order reversal curve (FORC) diagrams for greigite dispersions. <i>Earth and Planetary Science Letters</i> , 2018 , 501, 103-111	5.3	14

198	Signatures of Reductive Magnetic Mineral Diagenesis From Unmixing of First-Order Reversal Curves. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 4500-4522	3.6	38
197	The Low-Temperature Besnus Magnetic Transition: Signals Due to Monoclinic and Hexagonal Pyrrhotite. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 3364-3375	3.6	21
196	Origin of Magnetism in Hydrothermally Aged 2-Line Ferrihydrite Suspensions. <i>Environmental Science & Technology</i> , 2017 , 51, 2643-2651	10.3	10
195	Early Pleistocene occurrence of Acheulian technology in North China. <i>Quaternary Science Reviews</i> , 2017 , 156, 12-22	3.9	13
194	Magnetic domain state diagnosis using hysteresis reversal curves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 4767-4789	3.6	50
193	Volcanic records of the Laschamp geomagnetic excursion from Mt Ruapehu, New Zealand. <i>Earth and Planetary Science Letters</i> , 2017 , 472, 131-141	5.3	16
192	An updated age for the Xujiayao hominin from the Nihewan Basin, North China: Implications for Middle Pleistocene human evolution in East Asia. <i>Journal of Human Evolution</i> , 2017 , 106, 54-65	3.1	20
191	Remanence acquisition efficiency in biogenic and detrital magnetite and recording of geomagnetic paleointensity. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 1435-1450	3.6	29
190	Remagnetization mechanisms in Triassic red beds from South China. <i>Earth and Planetary Science Letters</i> , 2017 , 479, 219-230	5.3	20
189	Classical and exotic magnetism: Recent advances and perspectives. <i>Low Temperature Physics</i> , 2017 , 43, 895-900	0.7	3
188	Differences between the last two glacial maxima and implications for ice-sheet, $\delta^{18}O$, and sea-level reconstructions. <i>Quaternary Science Reviews</i> , 2017 , 176, 1-28	3.9	61
187	Tectonic, climatic, and diagenetic control of magnetic properties of sediments from Kumano Basin, Nankai margin, southwestern Japan. <i>Marine Geology</i> , 2017 , 391, 1-12	3.3	12
186	Resolving the Origin of Pseudo-Single Domain Magnetic Behavior. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 9534-9558	3.6	113
185	Widespread occurrence of silicate-hosted magnetic mineral inclusions in marine sediments and their contribution to paleomagnetic recording. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8415-8431	3.6	50
184	Control of Earth-like magnetic fields on the transformation of ferrihydrite to hematite and goethite. <i>Scientific Reports</i> , 2016 , 6, 30395	4.9	13
183	Estimating the concentration of aluminum-substituted hematite and goethite using diffuse reflectance spectrometry and rock magnetism: Feasibility and limitations. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 4180-4194	3.6	17
182	Magnetism of Al-substituted magnetite reduced from Al-hematite. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 4195-4210	3.6	10
181	Analyzing paleomagnetic data: To anchor or not to anchor?. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7742-7753	3.6	19

180	Asian monsoon modulation of nonsteady state diagenesis in hemipelagic marine sediments offshore of Japan. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 4383-4398	3.6	19
179	Early Carboniferous paleomagnetic results from the northeastern margin of the Qinghai-Tibetan plateau and their implications. <i>Gondwana Research</i> , 2016 , 36, 57-64	5.1	5
178	Discrimination of biogenic and detrital magnetite through a double Verwey transition temperature. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 3-14	3.6	53
177	Environmental magnetic implications of magnetofossil occurrence during the Middle Eocene Climatic Optimum (MECO) in pelagic sediments from the equatorial Indian Ocean. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 441, 212-222	2.9	23
176	New magnetostratigraphy of Late Miocene mammal fauna, NE Tibetan Plateau, China: Mammal migration and paleoenvironments. <i>Earth and Planetary Science Letters</i> , 2016 , 434, 220-230	5.3	12
175	Estimation and propagation of uncertainties associated with paleomagnetic directions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 2274-2289	3.6	9
174	Late Miocene-Pliocene Asian monsoon intensification linked to Antarctic ice-sheet growth. <i>Earth and Planetary Science Letters</i> , 2016 , 444, 75-87	5.3	58
173	Magnetostratigraphy of Chinese loess-paleosol sequences. <i>Earth-Science Reviews</i> , 2015 , 150, 139-167	10.2	40
172	The RESET project: constructing a European tephra lattice for refined synchronisation of environmental and archaeological events during the last c. 100 ka. <i>Quaternary Science Reviews</i> , 2015 , 118, 1-17	3.9	49
171	Magnetic mineral diagenesis. <i>Earth-Science Reviews</i> , 2015 , 151, 1-47	10.2	211
170	Asteroid impact vs. Deccan eruptions: The origin of low magnetic susceptibility beds below the Cretaceous-Paleogene boundary revisited. <i>Earth and Planetary Science Letters</i> , 2015 , 430, 209-223	5.3	15
169	Soil moisture balance and magnetic enhancement in loess-paleosol sequences from the Tibetan Plateau and Chinese Loess Plateau. <i>Earth and Planetary Science Letters</i> , 2015 , 409, 120-132	5.3	42
168	A protocol for variable-resolution first-order reversal curve measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 1364-1377	3.6	53
167	New magnetobiostratigraphic chronology and paleoceanographic changes across the Oligocene-Miocene boundary at DSDP Site 516 (Rio Grande Rise, SW Atlantic). <i>Paleoceanography</i> , 2015 , 30, 659-681		13
166	Antarctic glacio-eustatic contributions to late Miocene Mediterranean desiccation and reflooding. <i>Nature Communications</i> , 2015 , 6, 8765	17.4	44
165	Bipolar seesaw control on last interglacial sea level. <i>Nature</i> , 2015 , 522, 197-201	50.4	103
164	Source-to-sink magnetic properties of NE Saharan dust in Eastern Mediterranean marine sediments: review and paleoenvironmental implications. <i>Frontiers in Earth Science</i> , 2015 , 3,	3.5	8
163	A statistical simulation of magnetic particle alignment in sediments. <i>Geophysical Journal International</i> , 2014 , 197, 828-837	2.6	11

162	Sea-level and deep-sea-temperature variability over the past 5.3 million years. <i>Nature</i> , 2014 , 508, 477-82	50.4	364
161	Middle Eocene to Late Oligocene Antarctic glaciation/deglaciation and Southern Ocean productivity. <i>Paleoceanography</i> , 2014 , 29, 223-237		48
160	Understanding fine magnetic particle systems through use of first-order reversal curve diagrams. <i>Reviews of Geophysics</i> , 2014 , 52, 557-602	23.1	235
159	Magnetic detection and characterization of biogenic magnetic minerals: A comparison of ferromagnetic resonance and first-order reversal curve diagrams. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 6136-6158	3.6	37
158	Identification and environmental interpretation of diagenetic and biogenic greigite in sediments: A lesson from the Messinian Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3612-3627	3.6	54
157	Variable remanence acquisition efficiency in sediments containing biogenic and detrital magnetites: Implications for relative paleointensity signal recording. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2780-2796	3.6	30
156	Is there a link between geomagnetic reversal frequency and paleointensity? A Bayesian approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 5290-5304	3.6	17
155	Sea-level variability over five glacial cycles. <i>Nature Communications</i> , 2014 , 5, 5076	17.4	230
154	Characterizing magnetofossils from first-order reversal curve (FORC) central ridge signatures. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2170-2179	3.6	46
153	Haematite pigmentation events and palaeomagnetic recording: implications from the Pilbara Print Stone, Western Australia. <i>Geophysical Journal International</i> , 2014 , 199, 658-672	2.6	15
152	Enhanced primary productivity and magnetotactic bacterial production in response to middle Eocene warming in the Neo-Tethys Ocean. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014 , 414, 32-45	2.9	26
151	Volcanic iron fertilization of primary productivity at Kerguelen Plateau, Southern Ocean, through the Middle Miocene Climate Transition. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014 , 410, 1-13	2.9	9
150	Paleomagnetic and paleoenvironmental implications of magnetofossil occurrences in late Miocene marine sediments from the Guadalquivir Basin, SW Spain. <i>Frontiers in Microbiology</i> , 2014 , 5, 71	5.7	21
149	Syntectonic emplacement of Late Cretaceous mafic dyke swarms in coastal southeastern China: Insights from magnetic fabrics, rock magnetism and field evidence. <i>Tectonophysics</i> , 2014 , 637, 328-340	3.1	11
148	Introduction to 'Magnetic iron minerals in sediments and their relation to geologic processes, climate, and the geomagnetic field'. <i>Global and Planetary Change</i> , 2013 , 110, 259-263	4.2	5
147	Magnetic paleointensity stratigraphy and high-resolution Quaternary geochronology: successes and future challenges. <i>Quaternary Science Reviews</i> , 2013 , 61, 1-16	3.9	86
146	Magnetic properties of pelagic marine carbonates. <i>Earth-Science Reviews</i> , 2013 , 127, 111-139	10.2	74
145	A 500,000 year record of Indian summer monsoon dynamics recorded by eastern equatorial Indian Ocean upper water-column structure. <i>Quaternary Science Reviews</i> , 2013 , 77, 167-180	3.9	54

144	Calculating uncertainties on predictions of palaeoprecipitation from the magnetic properties of soils. <i>Global and Planetary Change</i> , 2013 , 110, 379-385	4.2	17
143	Critical single domain grain sizes in chains of interacting greigite particles: Implications for magnetosome crystals. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 5430-5441	3.6	18
142	Paleoclimate Variability in the Mediterranean and Red Sea Regions during the Last 500,000 Years. <i>Current Anthropology</i> , 2013 , 54, S183-S201	2.1	61
141	Quantifying magnetite magnetofossil contributions to sedimentary magnetizations. <i>Earth and Planetary Science Letters</i> , 2013 , 382, 58-65	5.3	39
140	Low-temperature magnetic properties of pelagic carbonates: Oxidation of biogenic magnetite and identification of magnetosome chains. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 6049-6065	3.6	42
139	Environmental magnetic record of paleoclimate, unroofing of the Transantarctic Mountains, and volcanism in late Eocene to early Miocene glaci-marine sediments from the Victoria Land Basin, Ross Sea, Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1845-1861	3.6	17
138	A geological perspective on potential future sea-level rise. <i>Scientific Reports</i> , 2013 , 3, 3461	4.9	31
137	Dynamics of green Sahara periods and their role in hominin evolution. <i>PLoS ONE</i> , 2013 , 8, e76514	3.7	134
136	Environmental magnetism: Principles and applications. <i>Reviews of Geophysics</i> , 2012 , 50,	23.1	376
135	Rapid coupling between ice volume and polar temperature over the past 150,000 years. <i>Nature</i> , 2012 , 491, 744-7	50.4	370
134	Volcanic ash layers illuminate the resilience of Neanderthals and early modern humans to natural hazards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13532-7	11.5	148
133	New constraints on climate forcing and variability in the circum-Mediterranean region from magnetic and geochemical observations of sapropels S1, S5 and S6. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012 , 333-334, 1-12	2.9	8
132	Magnetotactic bacterial response to Antarctic dust supply during the PalaeoceneEocene thermal maximum. <i>Earth and Planetary Science Letters</i> , 2012 , 333-334, 122-133	5.3	55
131	Giant magnetofossils and hyperthermal events. <i>Earth and Planetary Science Letters</i> , 2012 , 351-352, 258-269	5.9	40
130	First paleomagnetic results of mid- to late Holocene sediments from Lake Issyk-Kul (Kyrgyzstan): Implications for paleosecular variation in central Asia. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	9
129	Estimating best fit binary mixing lines in the Day plot. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		11
128	A method for unmixing magnetic hysteresis loops. <i>Journal of Geophysical Research</i> , 2012 , 117,		31
127	Estimation of significance levels and confidence intervals for first-order reversal curve distributions. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	53

126	Inconsistent magnetic polarities in magnetite- and greigite-bearing sediments: Understanding complex magnetizations in the late Messinian in the Adana Basin (southern Turkey). <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	4
125	Searching for single domain magnetite in the 'pseudo-single-domain' sedimentary haystack: Implications of biogenic magnetite preservation for sediment magnetism and relative paleointensity determinations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		124
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