# Rory D Cottrell

List of Publications by Year
in descending order



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|---|---|---|---|
| 28 papers | 2,245 citations | 430843 18 h-index | 477281 29 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 1756 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Timeâ€Resolved Paleomagnetic Record of Main Group Pallasites: Evidence for a Largeâ€Cored, Thinâ€Mantled Parent Body. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006900. | 3.6 | 10 |
| 2 | Absence of a long-lived lunar paleomagnetosphere. Science Advances, 2021, 7, . | 10.3 | 18 |
| 3 | Paleomagnetism indicates that primary magnetite in zircon records a strong Hadean geodynamo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2309-2318. | 7.1 | 46 |
| 4 | Young inner core inferred from Ediacaran ultra-low geomagnetic field intensity. Nature Geoscience, 2019, 12, 143-147. | 12.9 | 121 |
| 5 | Primary pseudo-single and single-domain magnetite inclusions in quartzite cobbles of the Jack Hills (Western Australia): implications for the Hadean geodynamo. Geophysical Journal International, 2019, 216, 598-608. | 2.4 | 5 |
| 6 | New Archeomagnetic Directional Records From Iron Age Southern Africa (ca. 425â€“1550 CE) and Implications for the South Atlantic Anomaly. Geophysical Research Letters, 2018, 45, 1361-1369. | 4.0 | 18 |
| 7 | Cluster analysis on a sphere: Application to magnetizations from metasediments of the Jack Hills, Western Australia. Earth and Planetary Science Letters, 2018, 484, 67-80. | 4.4 | 10 |
| 8 | Detrital magnetite and chromite in Jack Hills quartzite cobbles: Further evidence for the preservation of primary magnetizations and new insights into sediment provenance. Earth and Planetary Science Letters, 2016, 451, 298-314. | 4.4 | 15 |
| 9 | Comment on: Pervasive remagnetization of detrital zircon host rocks in the Jack Hills, Western Australia and implications for records of the early dynamo, by Weiss et al. (2015). Earth and Planetary Science Letters, 2016, 450, 406-408. | 4.4 | 8 |
| 10 | The inverse microconglomerate test: Further evidence for the preservation of Hadean magnetizations in metasediments of the Jack Hills, Western Australia. Geophysical Research Letters, 2016, 43, 4215-4220. | 4.0 | 14 |
| 11 | Antiquity of the South Atlantic Anomaly and evidence for top-down control on the geodynamo. Nature Communications, 2015, 6, 7865. | 12.8 | 81 |
| 12 | A Hadean to Paleoarchean geodynamo recorded by single zircon crystals. Science, 2015, 349, 521-524. | 12.6 | 207 |
| 13 | Signals from the ancient geodynamo: A paleomagnetic field test on the Jack Hills metaconglomerate. Earth and Planetary Science Letters, 2013, 367, 123-132. | 4.4 | 14 |
| 14 | Evidence for a Dynamo in the Main Group Pallasite Parent Body. Science, 2012, 338, 939-942. | 12.6 | 108 |
| 15 | An archeomagnetic analysis of burnt grain bin floors from ca. 1200 to 1250 AD Iron-Age South Africa. Physics of the Earth and Planetary Interiors, 2012, 190-191, 71-79. | 1.9 | 18 |
| 16 | Geodynamo, Solar Wind, and Magnetopause 3.4 to 3.45 Billion Years Ago. Science, 2010, 327, 1238-1240. | 12.6 | 256 |
| 17 | Evidence for a 3.45â€billionâ€yearâ€old magnetic remanence: Hints of an ancient geodynamo from conglomerates of South Africa. Geochemistry, Geophysics, Geosystems, 2009, 10, . | 2.5 | 40 |
| 18 | New Late Cretaceous macrobaenid turtle with Asian affinities from the High Canadian Arctic: Dispersal via ice-free polar routes. Geology, 2009, 37, 183-186. | 4.4 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Kiaman Reversed Polarity Superchron at Kiama: Toward a field strength estimate based on single silicate crystals. Physics of the Earth and Planetary Interiors, 2008, 169, 49-58. | 1.9 | 31 |
| 20 | Geomagnetic field strength 3.2 billion years ago recorded by single silicate crystals. Nature, 2007, 446, 657-660. | 27.8 | 114 |
| 21 | The Emperor Seamounts: Southward Motion of the Hawaiian Hotspot Plume in Earth's Mantle. Science, 2003, 301, 1064-1069. | 12.6 | 375 |
| 22 | A Late Cretaceous pole for the Pacific plate: implications for apparent and true polar wander and the drift of hotspots. Tectonophysics, 2003, 362, 321-333. | 2.2 | 45 |
| 23 | The Cretaceous superchron geodynamo: Observations near the tangent cylinder. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14020-14025. | 7.1 | 117 |
| 24 | High Geomagnetic Intensity During the Mid-Cretaceous from Thellier Analyses of Single Plagioclase Crystals. Science, 2001, 291, 1779-1783. | 12.6 | 147 |
| 25 | In search of high-fidelity geomagnetic paleointensities: A comparison of single plagioclase crystal and whole rock Thellier-Thellier analyses. Journal of Geophysical Research, 2000, 105, 23579-23594. | 3.3 | 55 |
| 26 | Geomagnetic paleointensity derived from single plagioclase crystals. Earth and Planetary Science Letters, 1999, 169, 1-5. | 4.4 | 81 |
| 27 | Paleomagnetic evidence for motion of the Hawaiian hotspot during formation of the Emperor seamounts. Earth and Planetary Science Letters, 1997, 153, 171-180. | 4.4 | 156 |
| 28 | Magnetostratigraphy of the Late Cretaceous to Eocene Sverdrup Basin: Implications for heterochroneity, deformation, and rotations in the Canadian Arctic archipelago. Journal of Geophysical Research, 1997, 102, 723-746. | 3.3 | 17 |