

Charles H Wellman

List of Publications by Year in descending order

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64
papers

3,914
citations

218677

26
h-index

128289

60
g-index

65
all docs

65
docs citations

65
times ranked

3166
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The timescale of early land plant evolution. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2274-E2283. | 7.1 | 654 |
| 2 | Fragments of the earliest land plants. Nature, 2003, 425, 282-285. | 27.8 | 525 |
| 3 | The Interrelationships of Land Plants and the Nature of the Ancestral Embryophyte. Current Biology, 2018, 28, 733-745.e2. | 3.9 | 398 |
| 4 | A timeline for terrestrialization: consequences for the carbon cycle in the Palaeozoic. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 519-536. | 4.0 | 227 |
| 5 | Origin and Radiation of the Earliest Vascular Land Plants. Science, 2009, 324, 353-353. | 12.6 | 224 |
| 6 | The microfossil record of early land plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 717-732. | 4.0 | 206 |
| 7 | Earth's earliest non-marine eukaryotes. Nature, 2011, 473, 505-509. | 27.8 | 153 |
| 8 | The terrestrial biota prior to the origin of land plants (embryophytes): a review of the evidence. Palaeontology, 2015, 58, 601-627. | 2.2 | 117 |
| 9 | Spore assemblages from the Lower Devonian "Lower Old Red Sandstone" deposits of the Rhynie outlier, Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2006, 97, 167-211. | 0.7 | 84 |
| 10 | Mid-Devonian Archaeopteris Roots Signal Revolutionary Change in Earliest Fossil Forests. Current Biology, 2020, 30, 421-431.e2. | 3.9 | 68 |
| 11 | Permanent dyads in sporangia and spore masses from the Lower Devonian of the Welsh Borderland. Botanical Journal of the Linnean Society, 1998, 127, 117-147. | 1.6 | 67 |
| 12 | Investigating Devonian trees as geo-engineers of past climates: linking palaeosols to palaeobotany and experimental geobiology. Palaeontology, 2015, 58, 787-801. | 2.2 | 66 |
| 13 | 2. Embryophytes on Land: The Ordovician to Lochkovian (Lower Devonian) Record. , 2001, , 3-28. | | 65 |
| 14 | The invasion of the land by plants: when and where?. New Phytologist, 2010, 188, 306-309. | 7.3 | 64 |
| 15 | Spores of the Rhynie chert plant Aglaophyton (Rhynia) major (Kidston and Lang) D.S. Edwards, 1986. Review of Palaeobotany and Palynology, 2006, 142, 229-250. | 1.5 | 63 |
| 16 | Tetrads in sporangia and spore masses from the Upper Silurian and Lower Devonian of the Welsh Borderland. Botanical Journal of the Linnean Society, 1999, 130, 111-156. | 1.6 | 56 |
| 17 | Early to Middle Devonian miospores from northern Saudi Arabia. Revue De Micropaleontologie, 2007, 50, 27-57. | 0.4 | 49 |
| 18 | Chapter 29 Palaeophytogeography of Ordovician-Silurian land plants. Geological Society Memoir, 2013, 38, 461-476. | 1.7 | 44 |

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|----|---|-----|-----------|
| 19 | Palaeophytogeographical and palaeoecological implications of a miospore assemblage of earliest Devonian (Lochkovian) age from Saudi Arabia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 250, 237-254. | 2.3 | 39 |
| 20 | “Phytodebris” from Scottish Silurian and Lower Devonian continental deposits. Review of <i>Palaeobotany and Palynology</i> , 1995, 84, 255-279. | 1.5 | 36 |
| 21 | Palaeoecology and palaeophytogeography of the Rhynie chert plants: evidence from integrated analysis of in situ and dispersed spores. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 985-992. | 2.6 | 35 |
| 22 | Palaeoecology of a billion-year-old non-marine cyanobacterium from the Torridon Group and Nonesuch Formation. <i>Palaeontology</i> , 2016, 59, 89-108. | 2.2 | 34 |
| 23 | Spore assemblages from Upper Ordovician and lowermost Silurian sediments recovered from the Qusaiba-1 shallow core hole, Qasim region, central Saudi Arabia. Review of <i>Palaeobotany and Palynology</i> , 2015, 212, 111-126. | 1.5 | 33 |
| 24 | Reproductive Organs and In Situ Spores of <i>Asteroxylon mackiei</i> Kidston & Lang, the Most Complex Plant from the Lower Devonian Rhynie Chert. <i>International Journal of Plant Sciences</i> , 2013, 174, 293-308. | 1.3 | 32 |
| 25 | A Lower Devonian sporomorph assemblage from the Midland Valley of Scotland. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 1993, 84, 117-136. | 0.7 | 30 |
| 26 | Discussion on “Tectonic and environmental controls on Palaeozoic fluvial environments: reassessing the impacts of early land plants on sedimentation” <i>Journal of the Geological Society</i> , London, https://doi.org/10.1144/jgs2016-063 . <i>Journal of the Geological Society</i> , 2017, 174, 947-950. | 2.1 | 30 |
| 27 | Origin, function and development of the spore wall in early land plants. , 2004, , 43-63. | | 28 |
| 28 | Morphology and Wall Ultrastructure in Devonian Spores with Bifurcate-Tipped Processes. <i>International Journal of Plant Sciences</i> , 2002, 163, 451-474. | 1.3 | 27 |
| 29 | A quantitative comparison of dispersed spore/pollen and plant megafossil assemblages from a Middle Jurassic plant bed from Yorkshire, UK. <i>Paleobiology</i> , 2015, 41, 640-660. | 2.0 | 25 |
| 30 | Devonian spores from an intra-oceanic volcanic arc, West Junggar (Xinjiang, China) and the palaeogeographical significance of the associated fossil plant beds. Review of <i>Palaeobotany and Palynology</i> , 2014, 206, 10-22. | 1.5 | 23 |
| 31 | Resistance of Filamentous Chlorophycean, Ulvophycean, and Xanthophycean Algae to Acetolysis: Testing Proterozoic and Paleozoic Microfossil Attributions. <i>International Journal of Plant Sciences</i> , 2013, 174, 947-957. | 1.3 | 22 |
| 32 | Episodic river flooding events revealed by palynological assemblages in Jurassic deposits of the Brent Group, North Sea. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 485, 389-400. | 2.3 | 21 |
| 33 | Spore assemblages from the Lower Devonian Xujiachong Formation from Qujing, Yunnan, China. <i>Palaeontology</i> , 2012, 55, 583-611. | 2.2 | 20 |
| 34 | Palaeoecology and palaeophytogeography of the Rhynie chert plants: further evidence from integrated analysis of in situ and dispersed spores. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160491. | 4.0 | 20 |
| 35 | The Devonian landscape factory: plant-sediment interactions in the Old Red Sandstone of Svalbard and the rise of vegetation as a biogeomorphic agent. <i>Journal of the Geological Society</i> , 2021, 178, . | 2.1 | 20 |
| 36 | Cryptospores from the Katian (Upper Ordovician) of the Tungus basin: The first evidence for early land plants from the Siberian paleocontinent. Review of <i>Palaeobotany and Palynology</i> , 2016, 224, 4-13. | 1.5 | 18 |

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|----|--|-----|-----------|
| 37 | The nature and evolutionary relationships of the earliest land plants. <i>New Phytologist</i> , 2014, 202, 1-3. | 7.3 | 17 |
| 38 | Palaeogeographic and palaeoclimatic considerations based on Ordovician to Lochkovian vegetation. <i>Geological Society Special Publication</i> , 2010, 339, 49-58. | 1.3 | 16 |
| 39 | Wall ultrastructure in three species of the dispersed spore <i>Emphanisporites</i> from the Early Devonian. <i>Review of Palaeobotany and Palynology</i> , 2011, 163, 264-280. | 1.5 | 16 |
| 40 | Spores of the Rhynie chert plant <i>Horneophyton lignieri</i> (Kidston & Lang) Barghoorn & Darrah, 1938. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2003, 94, 429-443. | 0.7 | 15 |
| 41 | ULTRASTRUCTURE OF DISPERSED AND <i>IN SITU</i> SPECIMENS OF THE DEVONIAN SPORE <i>RHABDOSPORITES LANGII</i> : EVIDENCE FOR THE EVOLUTIONARY RELATIONSHIPS OF PROGYMNOSPERMS. <i>Palaeontology</i> , 2009, 52, 139-167. | 2.2 | 15 |
| 42 | Middle Jurassic vegetation dynamics based on quantitative analysis of spore/pollen assemblages from the Ravenscar Group, North Yorkshire, UK. <i>Palaeontology</i> , 2016, 59, 305-328. | 2.2 | 15 |
| 43 | Reply to Hedges et al.: Accurate timetrees do indeed require accurate calibrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9512-E9513. | 7.1 | 15 |
| 44 | Middle Ordovician acritarchs and problematic organic-walled microfossils from the Saq-Hanadir transitional beds in the QSIM-801 well, Saudi Arabia. <i>Revue De Micropaleontologie</i> , 2017, 60, 289-318. | 0.4 | 14 |
| 45 | Early Terrestrialization: Transition from Algal to Bryophyte Grade. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 9-28. | 1.0 | 13 |
| 46 | Morphology and wall ultrastructure of a new and highly distinctive megaspore from the Middle Jurassic of Yorkshire, UK. <i>Review of Palaeobotany and Palynology</i> , 2015, 216, 33-43. | 1.5 | 12 |
| 47 | Early land plant phytodebris. <i>Geological Society Special Publication</i> , 2021, 511, 309-320. | 1.3 | 12 |
| 48 | The Nonesuch Formation Lagerstätte: a rare window into freshwater life one billion years ago. <i>Journal of the Geological Society</i> , 2021, 178, . | 2.1 | 12 |
| 49 | Low tropical diversity during the adaptive radiation of early land plants. <i>Nature Plants</i> , 2022, 8, 104-109. | 9.3 | 12 |
| 50 | Palynology of the Middle Ordovician Hawaz Formation in the Murzuq Basin, south-west Libya. <i>Palynology</i> , 2017, 41, 31-56. | 1.5 | 11 |
| 51 | Filamentous green algae from the Early Devonian Rhynie chert. <i>Palaontologische Zeitschrift</i> , 2019, 93, 387-393. | 1.6 | 11 |
| 52 | Pellicle ultrastructure demonstrates that <i>Moyeria</i> is a fossil euglenid. <i>Palynology</i> , 2020, 44, 461-471. | 1.5 | 10 |
| 53 | Colonial palynomorphs from the Upper Ordovician of north-eastern Iran: <i>Thalli</i> , coenobial Chlorophyceae (Hydrodictyaceae) or cyanobacteria?. <i>Palynology</i> , 2020, 44, 575-585. | 1.5 | 10 |
| 54 | A possible billion-year-old holozoan with differentiated multicellularity. <i>Current Biology</i> , 2021, 31, 2658-2665.e2. | 3.9 | 9 |

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|----|---|-----|-----------|
| 55 | Middle Ordovician cryptospores from the Saq-Hanadir transitional beds in the QSIM-801 well, Saudi Arabia. <i>Revue De Micropaleontologie</i> , 2017, 60, 319-331. | 0.4 | 8 |
| 56 | Dinosaur-plant interactions within a Middle Jurassic ecosystemâ€™ palynology of the Burniston Bay dinosaur footprint locality, Yorkshire, UK. <i>Palaeobiodiversity and Palaeoenvironments</i> , 2018, 98, 139-151. | 1.5 | 8 |
| 57 | Spore assemblages from the Lower Devonian â€™Lower Old Red Sandstoneâ€™™ deposits of the Northern Highlands of Scotland: the Berriedale Outlier. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2014, 105, 227-238. | 0.3 | 6 |
| 58 | A key for the identification of cryptospores. <i>Palynology</i> , 2018, 42, 492-503. | 1.5 | 6 |
| 59 | An endemic flora of dispersed spores from the Middle Devonian of Iberia. <i>Papers in Palaeontology</i> , 2019, 5, 415-459. | 1.5 | 6 |
| 60 | Palaeontology: The Rhynie Chert Is the Gift that Keeps on Giving. <i>Current Biology</i> , 2019, 29, R93-R95. | 3.9 | 6 |
| 61 | Morphology and wall ultrastructure of the megaspore <i>Lagenicula (Triletes) mixta</i> (Winslow 1962) comb. nov. from the Carboniferous (Early Mississippian: mid Tournaisian) of Ohio, USA. <i>Review of Palaeobotany and Palynology</i> , 2009, 156, 51-61. | 1.5 | 5 |
| 62 | Studies of spore/pollen wall ultrastructure in fossil and living plants: A review of the subject area and the contribution of Bernard Lugardon. <i>Review of Palaeobotany and Palynology</i> , 2009, 156, 2-6. | 1.5 | 5 |
| 63 | Permanent dyads in sporangia and spore masses from the Lower Devonian of the Welsh Borderland. <i>Botanical Journal of the Linnean Society</i> , 1998, 127, 117-147. | 1.6 | 5 |
| 64 | Spore assemblages from the Lower Devonian â€™Lower Old Red Sandstoneâ€™™ deposits of Arran, Scotland. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2009, 100, 391-397. | 0.3 | 1 |