

# Wesley T Fraser

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

915  
citations

394421

19  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of zero tillage on soil enzyme activities, microbial characteristics and organic matter functional chemistry in temperate soils. <i>European Journal of Soil Biology</i> , 2015, 68, 9-17.	3.2	103
2	Plant spore walls as a record of long-term changes in ultraviolet-B radiation. <i>Nature Geoscience</i> , 2008, 1, 592-596.	12.9	68
3	Evolutionary stasis of sporopollenin biochemistry revealed by unaltered Pennsylvanian spores. <i>New Phytologist</i> , 2012, 196, 397-401.	7.3	66
4	The impact of oxidation on spore and pollen chemistry. <i>Journal of Micropalaeontology</i> , 2015, 34, 139-149.	3.6	59
5	Rapid determination of spore chemistry using thermochemolysis gas chromatography-mass spectrometry and micro-Fourier transform infrared spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 689.	2.9	58
6	Shedding light on sporopollenin chemistry, with reference to UV reconstructions. <i>Review of Palaeobotany and Palynology</i> , 2017, 238, 1-6.	1.5	50
7	Experimental determination of Li isotope behaviour during basalt weathering. <i>Chemical Geology</i> , 2019, 517, 34-43.	3.3	50
8	Changes in spore chemistry and appearance with increasing maturity. <i>Review of Palaeobotany and Palynology</i> , 2014, 201, 41-46.	1.5	46
9	Chemotaxonomy as a tool for interpreting the cryptic diversity of Poaceae pollen. <i>Review of Palaeobotany and Palynology</i> , 2016, 235, 140-147.	1.5	45
10	Formation of a polyalkyl macromolecule from the hydrolysable component within sporopollenin during heating/pyrolysis experiments with Lycopodium spores. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 95, 138-144.	5.5	44
11	Emission of methane, carbon monoxide, carbon dioxide and short-chain hydrocarbons from vegetation foliage under ultraviolet irradiation. <i>Plant, Cell and Environment</i> , 2015, 38, 980-989.	5.7	42
12	UV-B absorbing pigments in spores: biochemical responses to shade in a high-latitude birch forest and implications for sporopollenin-based proxies of past environmental change. <i>Polar Research</i> , 2011, 30, 831-832.	1.6	38
13	A novel palaeoaltimetry proxy based on spore and pollen wall chemistry. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 22-28.	4.4	35
14	Pollen and spores as a passive monitor of ultraviolet radiation. <i>Frontiers in Ecology and Evolution</i> , 2014, 2, .	2.2	35
15	Pollen-vegetation richness and diversity relationships in the tropics. <i>Vegetation History and Archaeobotany</i> , 2018, 27, 411-418.	2.1	31
16	Pollen and spores as biological recorders of past ultraviolet irradiance. <i>Scientific Reports</i> , 2016, 6, 39269.	3.3	27
17	Chemotaxonomy of domesticated grasses: a pathway to understanding the origins of agriculture. <i>Journal of Micropalaeontology</i> , 2019, 38, 83-95.	3.6	27
18	Palaeoproxies: botanical monitors and recorders of atmospheric change. <i>Palaeontology</i> , 2015, 58, 759-768.	2.2	21

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19	The modern pollen-vegetation relationships of a tropical forest-savannah mosaic landscape, Ghana, West Africa. <i>Palynology</i> , 2018, 42, 324-338.	1.5	20
20	Proxy reconstruction of ultraviolet-B irradiance at the Earth's surface, and its relationship with solar activity and ozone thickness. <i>Holocene</i> , 2020, 30, 155-161.	1.7	15
21	Sporopollenin chemistry and its durability in the geological record: an integration of extant and fossil chemical data across the seed plants. <i>Palaeontology</i> , 2021, 64, 285-305.	2.2	15
22	Stratigraphic completeness and resolution in an ancient mudrock succession. <i>Sedimentology</i> , 2018, 65, 1875-1890.	3.1	11
23	Ginkgo leaf cuticle chemistry across changing pCO <sub>2</sub> regimes. <i>Palaontologische Zeitschrift</i> , 2019, 93, 549-558.	1.6	5
24	Formation of uranium-thorium-rich bitumen nodules in the Lockne impact structure, Sweden: A mechanism for carbon concentration at impact sites. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1961-1969.	1.6	3
25	Variability in modern pollen rain from moist and wet tropical forest plots in Ghana, West Africa. <i>Grana</i> , 2019, 58, 45-62.	0.8	1