

Robert W Fitzpatrick

List of Publications by Citations

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129
papers

2,777
citations

28
h-index

47
g-index

139
ext. papers

3,030
ext. citations

3.7
avg, IF

5.1
L-index

#	Paper	IF	Citations
129	New Data and a Revised Structural Model for Ferrihydrite. <i>Clays and Clay Minerals</i> , 1988 , 36, 111-124	2.1	239
128	Al-substituted goethite: An indicator of pedogenic and other weathering environments in South Africa. <i>Geoderma</i> , 1982 , 27, 335-347	6.7	197
127	The Influence of Aluminum on Iron Oxides. Part II. Preparation and Properties of Al-Substituted Hematites. <i>Clays and Clay Minerals</i> , 1979 , 27, 105-112	2.1	185
126	Components and microbial biomass content of size fractions in soils of contrasting aggregation. <i>Geoderma</i> , 1991 , 50, 37-62	6.7	140
125	Contributions of groundwater conditions to soil and water salinization. <i>Hydrogeology Journal</i> , 1999 , 7, 46-64	3.1	132
124	Iron-monosulfide oxidation in natural sediments: resolving microbially mediated S transformations using XANES, electron microscopy, and selective extractions. <i>Environmental Science & Technology</i> , 2009 , 43, 3128-34	10.3	97
123	Interpretation of soil features produced by ancient and modern processes in degraded landscapes: V. Development of saline sulfidic features in non-tidal seepage areas. <i>Geoderma</i> , 1996 , 69, 1-29	6.7	56
122	Thermal and Mineral Properties of Al-, Cr-, Mn-, Ni- and Ti-Substituted Goethite. <i>Clays and Clay Minerals</i> , 2006 , 54, 176-194	2.1	54
121	Changes in acidity and metal geochemistry in soils, groundwater, drain and river water in the Lower Murray River after a severe drought. <i>Science of the Total Environment</i> , 2014 , 485-486, 281-291	10.2	51
120	Thermoluminescence dating of coastal sand dunes at Cooloola and North Stradbroke Island, Australia. <i>Soil Research</i> , 1990 , 28, 465	1.8	49
119	Occurrence Of Lepidocrocite And its Association With Goethite in Natal Soils. <i>Soil Science Society of America Journal</i> , 1977 , 41, 1013-1018	2.5	47
118	Al Substitution and Differential Disorder in Soil Hematites. <i>Clays and Clay Minerals</i> , 1977 , 25, 373-374	2.1	44
117	Amorphous and Crystalline Titanium and Iron-Titanium Oxides in Synthetic Preparations, at Near Ambient Conditions, and in Soil Clays. <i>Clays and Clay Minerals</i> , 1978 , 26, 189-201	2.1	44
116	Micromorphological evidence for mineral weathering pathways in a coastal acid sulfate soil sequence with Mediterranean-type climate, South Australia. <i>Soil Research</i> , 2009 , 47, 403	1.8	42
115	Genesis of podzols on coastal dunes in southern Queensland .II. Geochemistry and forms of elements as deduced from various soil extraction procedures. <i>Soil Research</i> , 1992 , 30, 615	1.8	42
114	Historical developments in the understanding of acid sulfate soils. <i>Geoderma</i> , 2017 , 308, 191-206	6.7	38
113	Climate-driven mobilisation of acid and metals from acid sulfate soils. <i>Marine and Freshwater Research</i> , 2010 , 61, 129	2.2	36

112	Acidification of floodplains due to river level decline during drought. <i>Journal of Contaminant Hydrology</i> , 2014 , 161, 10-23	3.9	32
111	Occurrence and properties of lepidocrocite in some soils of New Zealand, South Africa and Australia. <i>Soil Research</i> , 1985 , 23, 543	1.8	32
110	Pedological significance of the gravels in some red and grey earths of central north Queensland. <i>Soil Research</i> , 1983 , 21, 219	1.8	32
109	The role of organic matter in ameliorating acid sulfate soils with sulfuric horizons. <i>Geoderma</i> , 2015 , 255-256, 42-49	6.7	31
108	Addition of organic matter influences pH changes in reduced and oxidised acid sulfate soils. <i>Geoderma</i> , 2016 , 262, 125-132	6.7	30
107	Schwertmannite formation and properties in acidic drain environments following exposure and oxidation of acid sulfate soils in irrigation areas during extreme drought. <i>Geoderma</i> , 2017 , 308, 235-251	6.7	30
106	Effect of season and landscape position on the aluminium geochemistry of tropical acid sulfate soil leachate. <i>Soil Research</i> , 2009 , 47, 137	1.8	30
105	A Systematic Approach to Soil Forensics: Criminal Case Studies Involving Transference from Crime Scene to Forensic Evidence 2009 , 105-127		30
104	Monitoring and assessment of surface water acidification following rewetting of oxidised acid sulfate soils. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 1-18	3.1	29
103	Properties and Acid Dissolution of Metal-Substituted Hematites. <i>Clays and Clay Minerals</i> , 2001 , 49, 60-72.1		29
102	Interpretation of soil features produced by ancient and modern processes in degraded landscapes .1. A new method for constructing conceptual soil-water-landscape models. <i>Soil Research</i> , 1994 , 32, 889	1.8	28
101	Sulfate reduction in sulfuric material after re-flooding: Effectiveness of organic carbon addition and pH increase depends on soil properties. <i>Journal of Hazardous Materials</i> , 2015 , 298, 138-45	12.8	27
100	How Pedology and Mineralogy Helped Solve a Double Murder Case: Using Forensics to Inspire Future Generations of Soil Scientists. <i>Soil Horizons</i> , 2012 , 53, 14		27
99	Environmental consequences of soil sodicity. <i>Soil Research</i> , 1994 , 32, 1069	1.8	27
98	Magnetic properties of metal-substituted haematite. <i>Geophysical Journal International</i> , 1999 , 138, 571-580		26
97	Amount of organic matter required to induce sulfate reduction in sulfuric material after re-flooding is affected by soil nitrate concentration. <i>Journal of Environmental Management</i> , 2015 , 151, 437-42	7.9	24
96	Interpretation of soil features produced by ancient and modern processes in degraded landscapes. VII. Water duration. <i>Soil Research</i> , 1996 , 34, 803	1.8	24
95	The geochemistry during management of lake acidification caused by the rewetting of sulfuric (pH. <i>Applied Geochemistry</i> , 2014 , 41, 49-61	3.5	23

94	New Data and a Revised Structural Model for Ferrihydrite: Reply. <i>Clays and Clay Minerals</i> , 1990 , 38, 335-336		23
93	Sulfidic materials in dryland river wetlands. <i>Marine and Freshwater Research</i> , 2006 , 57, 775	2.2	23
92	Scanning electron microscope study of zircons and rutiles from a podzol chronosequence at Cooloola, Queensland, Australia. <i>Catena</i> , 1991 , 18, 11-30	5.8	22
91	Acid sulfate soil evolution models and pedogenic pathways during drought and reflooding cycles in irrigated areas and adjacent natural wetlands. <i>Geoderma</i> , 2017 , 308, 270-290	6.7	21
90	Comparison of tillage forces and wear rates of pressed and cast cultivator shares. <i>Soil and Tillage Research</i> , 1993 , 25, 317-328	6.5	21
89	Prolonged recovery of acid sulfate soils with sulfuric materials following severe drought: causes and implications. <i>Geoderma</i> , 2017 , 308, 312-320	6.7	20
88	Acid sulphate soil characterization in Negara Brunei Darussalam: a case study to inform management decisions. <i>Soil Use and Management</i> , 2013 , 29, 432-444	3.1	20
87	Field monitoring of solute and colloid mobility in a gneissic sub-catchment, South Australia. <i>Applied Clay Science</i> , 1995 , 9, 433-442	5.2	20
86	Soil solution composition and aggregate stability changes caused by long-term farming at four contrasting sites in South Australia. <i>Soil Research</i> , 1996 , 34, 511	1.8	20
85	Petrology and mineralogy of laterites in southern and eastern Australia and southern Africa. <i>Chemical Geology</i> , 1987 , 60, 237-250	4.2	20
84	Iron Compounds as Indicators of Pedogenic Processes: Examples from the Southern Hemisphere 1988 , 351-396		19
83	Assessing parent material uniformity of a red and black soil complex in the landscapes. <i>Catena</i> , 2009 , 78, 142-153	5.8	18
82	Demands on Soil Classification and Soil Survey Strategies: Special-Purpose Soil Classification Systems for Local Practical Use 2013 , 51-83		17
81	Restricting layers, flow paths and correlation between duration of soil saturation and soil morphological features along a hillslope with an altered soil water regime in western Victoria. <i>Soil Research</i> , 2002 , 40, 927	1.8	17
80	Interpretation of morphological features in a salt-affected duplex soil toposquence with an altered soil water regime in western Victoria. <i>Soil Research</i> , 2002 , 40, 903	1.8	17
79	Type of organic carbon amendment influences pH changes in acid sulfate soils in flooded and dry conditions. <i>Journal of Soils and Sediments</i> , 2016 , 16, 518-526	3.4	16
78	Iron Oxides. <i>Soil Science Society of America Book Series</i> , 2018 , 323-366		16
77	Sodicity in South Australia - a review. <i>Soil Research</i> , 1993 , 31, 911	1.8	14

76	Porewater geochemistry of inland Acid sulfate soils with sulfuric horizons following postdrought reflooding with freshwater. <i>Journal of Environmental Quality</i> , 2015 , 44, 989-1000	3.4	13
75	A simplified incubation method using chip-trays as incubation vessels to identify sulphidic materials in acid sulphate soils. <i>Soil Use and Management</i> , 2012 , 28, 401-408	3.1	13
74	Global developments in forensic geology. <i>Episodes</i> , 2017 , 40, 120-131	1.6	13
73	Soil transference patterns on bras: Image processing and laboratory dragging experiments. <i>Forensic Science International</i> , 2016 , 258, 88-100	2.6	12
72	Effects of live wetland plant macrophytes on acidification, redox potential and sulphate content in acid sulphate soils. <i>Soil Use and Management</i> , 2017 , 33, 471-481	3.1	12
71	The importance of soil carbon and nitrogen for amelioration of acid sulphate soils. <i>Soil Use and Management</i> , 2016 , 32, 97-105	3.1	11
70	Alteration of organic matter during remediation of acid sulfate soils. <i>Geoderma</i> , 2018 , 332, 121-134	6.7	11
69	Linking organic matter composition in acid sulfate soils to pH recovery after re-submerging. <i>Geoderma</i> , 2017 , 308, 350-362	6.7	11
68	Soil: Forensic Analysis 2004 , 1-14		11
67	Weathering Assessment of Heavy Minerals in Age Sequences of Australian Sandy Soils. <i>Soil Science Society of America Journal</i> , 1991 , 55, 427	2.5	11
66	Drought effects on wet soils in inland wetlands and peatlands. <i>Earth-Science Reviews</i> , 2020 , 210, 103387	10.2	11
65	Geochemical processes following freshwater reflooding of acidified inland acid sulfate soils: An in situ mesocosm experiment. <i>Chemical Geology</i> , 2015 , 411, 200-214	4.2	10
64	Titanium and Zirconium Minerals. <i>Soil Science Society of America Book Series</i> , 1131-1205		10
63	Organic matter addition can prevent acidification during oxidation of sandy hypersulfidic and hyposulfidic material: Effect of application form, rate and C/N ratio. <i>Geoderma</i> , 2016 , 276, 26-32	6.7	10
62	Patterns produced when soil is transferred to bras by placing and dragging actions: The application of digital photography and image processing to support visible observations. <i>Forensic Science International</i> , 2017 , 276, 24-40	2.6	9
61	Consumption and alteration of different organic matter sources during remediation of a sandy sulfuric soil. <i>Geoderma</i> , 2019 , 347, 220-232	6.7	9
60	Composition and dissolution kinetics of jarosite-rich segregations extracted from an acid sulfate soil with sulfuric material. <i>Chemical Geology</i> , 2020 , 543, 119606	4.2	9
59	Effect of landuse on the composition of throughflow water immediately above clayey B horizons in the Warren Catchment, South Australia. <i>Australian Journal of Experimental Agriculture</i> , 1993 , 33, 239		9

58	Regional distribution trends and properties of acid sulfate soils during severe drought in wetlands along the lower River Murray, South Australia: Supporting hazard assessment. <i>Geoderma Regional</i> , 2014 , 2-3, 60-71	2.7	8
57	Distribution and causes of intricate saline - sodic soil patterns in an upland South Australian hillslope. <i>Soil Research</i> , 2009 , 47, 328	1.8	8
56	Quantitative Heavy-Mineral Analysis of a Pliocene Beach Placer Deposit in Southeastern Australia Using the AutoGeoSEM. <i>Journal of Sedimentary Research</i> , 2005 , 75, 742-759	2.1	8
55	Soil and catchment health indicators of sustainability: case studies from southern Australia and possibilities for the northern grains region of Australia. <i>Australian Journal of Experimental Agriculture</i> , 2003 , 43, 205		8
54	Addition of organic material to sulfuric soil can reduce leaching of protons, iron and aluminium. <i>Geoderma</i> , 2016 , 271, 63-70	6.7	8
53	Soil survey data rescued by means of user friendly soil identification keys and toposequence models to deliver soil information for improved land management. <i>GeoResJ</i> , 2015 , 6, 81-91		7
52	The use of mid-infrared diffuse reflectance spectroscopy for acid sulfate soil analysis. <i>Science of the Total Environment</i> , 2019 , 646, 1489-1502	10.2	7
51	The occurrence of inland acid sulphate soils in the floodplain wetlands of the MurrayDarling Basin, Australia, identified using a simplified incubation method. <i>Soil Use and Management</i> , 2013 , 29, 130-139	3.1	7
50	Soil: Forensic Analysis 2009 ,		7
49	Assessment of the Binding of Protons, Al and Fe to Biochar at Different pH Values and Soluble Metal Concentrations. <i>Water (Switzerland)</i> , 2018 , 10, 55	3	7
48	The application of a spectrophotometric method to determine pH in acidic (pH. <i>Talanta</i> , 2018 , 186, 421-426	4.26	6
47	Soils 2013 , 206-212		6
46	Scientific evidence for the identification of an Aboriginal massacre at the Sturt Creek sites on the Kimberley frontier of north-western Australia. <i>Forensic Science International</i> , 2017 , 279, 258-267	2.6	6
45	A soil-site evaluation index of productivity in intensively managed <i>Pinus radiata</i> (D. Don) plantations in South Australia. <i>Environmental Monitoring and Assessment</i> , 1996 , 39, 531-41	3.1	6
44	A soil-diagnostic key to manage saline and waterlogged catchments in the Mt Lofty Ranges, South Australia. <i>Soil Use and Management</i> , 1994 , 10, 145-152	3.1	6
43	Soil formation in the coast aeolianites and sands of Natal. <i>Journal of Soil Science</i> , 1985 , 36, 373-387		6
42	Colour plates - Interpretation of soil features produced by ancient and modern processes in degraded landscapes .1. A new method for constructing conceptual soil-water-landscape models. <i>Soil Research</i> , 1994 , 32, 880	1.8	6
41	Impacts of Climate Change, Climate Variability and Management on Soil and Water Quality in Wetlands of South Australia. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 456-459		5

40	Field trial and modelling of different strategies for remediation of soil salinity and sodicity in the Lower Murray irrigation areas. <i>Soil Research</i> , 2017 , 55, 670	1.8	5
39	Organic Materials Differ in Ability to Remove Protons, Iron and Aluminium from Acid Sulfate Soil Drainage Water. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	5
38	Fe and S K-edge XAS determination of iron-sulfur species present in a range of acid sulfate soils: Effects of particle size and concentration on quantitative XANES determinations. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012144	0.3	5
37	An algorithm to model mass balances quantitatively. <i>Computers and Geosciences</i> , 1998 , 24, 77-82	4.5	5
36	Field-based comparison of platinum and wax impregnated graphite redox electrodes. <i>Soil Research</i> , 1995 , 33, 415	1.8	5
35	Highly weathered soils in the east coast hinterland of Southern Africa with thick, humus-rich A1 horizons. <i>Journal of Soil Science</i> , 1984 , 35, 103-115		5
34	A Tentative Evaluation of Soil Types for Commercial Afforestation in the Transvaal and Natal. <i>South African Forestry Journal</i> , 1981 , 116, 28-39		5
33	Development of soil-landscape and vegetation indicators for managing waterlogged and saline catchments. <i>Australian Journal of Experimental Agriculture</i> , 2003 , 43, 245		5
32	Genesis of podzols on coastal dunes in southern Queensland. V. Chemistry and mineralogy of the non-opaque heavy mineral fraction. <i>Soil Research</i> , 1998 , 36, 699	1.8	5
31	Titanium and Zirconium Minerals. <i>Soil Science Society of America Book Series</i> , 2018 , 667-690		5
30	Mobilising citizen scientists to monitor rapidly changing acid sulfate soils. <i>Transactions of the Royal Society of South Australia</i> , 2016 , 140, 186-202	0.2	4
29	Chemical reduction causing land degradation. I Overview. <i>Plant and Soil</i> , 2004 , 267, 51-59	4.2	4
28	CLASSIFICATION SYSTEMS Australian 2005 , 211-216		4
27	The role of pedology and mineralogy in providing evidence for 5 crime investigations involving a wide range of earth materials. <i>Episodes</i> , 2017 , 40, 148-156	1.6	4
26	Restoration of wetlands: successes and failures on scalds comprising an iron oxide clogged layer with areas of acid sulfate soils. <i>Plant and Soil</i> , 2018 , 433, 289-307	4.2	4
25	An expert system to predict intricate saline - sodic subsoil patterns in upland South Australia. <i>Soil Research</i> , 2009 , 47, 602	1.8	3
24	Chemical reduction causing land degradation. II Detailed observations at a discharge site in the Eastern Dundas Tablelands, Victoria, Australia. <i>Plant and Soil</i> , 2004 , 267, 85-95	4.2	3
23	The influence of sucrose and glycerol on the formation and transformation of iron oxides □The implication for soil formation. <i>Applied Clay Science</i> , 1987 , 2, 41-62	5.2	3

22	Demands on Soil Classification in Australia 2002 , 77-100		3
21	Exploring passivation-based treatments for jarosite from an acid sulfate soil. <i>Chemical Geology</i> , 2021 , 561, 120034	4.2	3
20	Porosity and organic matter distribution in jarositic phyto tubules of sulfuric soils assessed by combined μ CT and NanoSIMS analysis. <i>Geoderma</i> , 2021 , 399, 115124	6.7	3
19	Assisting Non-Soil Experts to Identify Soil Types for Land Management to Support Restoration of Arid Rangeland Native Vegetation in Kuwait. <i>Arid Land Research and Management</i> , 2015 , 29, 288-305	1.8	2
18	Assisting nonsoil specialists to identify soil types for land management: an approach using a soil identification key and toposequence models. <i>Soil Use and Management</i> , 2014 , 30, n/a-n/a	3.1	2
17	Conceptual Soil-Regolith Toposequence Models to Support Soil Survey and Land Evaluation 2013 , 165-174		2
16	A slope sequence of Podzols in the southern Cape, South Africa 1. Physical and micromorphological properties. <i>South African Journal of Plant and Soil</i> , 1992 , 9, 94-102	0.8	2
15	Differential X-Ray Diffraction (DXRD) of poorly crystalline materials in synthetic, metal-substituted goethite and hematite. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1992 , 155, 423-429		2
14	Organic materials retain high proportion of protons, iron and aluminium from acid sulphate soil drainage water with little subsequent release. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 23582-23592	5.1	2
13	Addition of clayey soils with high net negative acidity to sulfuric sandy soil can minimise pH changes during wet and dry periods. <i>Geoderma</i> , 2016 , 269, 153-159	6.7	1
12	The forensic comparison of trace amounts of soil on a pyjama top with hypersulphidic subaqueous soil from a river as evidence in a homicide cold case. <i>Geological Society Special Publication</i> , 2019 , SP492-2019-59	1.7	1
11	Submission on the Draft Murray-Darling Basin Plan. <i>Transactions of the Royal Society of South Australia</i> , 2013 , 137, 135-137	0.2	1
10	Spatial and temporal trends in soil salinity for identifying perched and deep groundwater systems. <i>Soil Use and Management</i> , 2011 , 27, 264-279	3.1	1
9	A web-based approach to improve collation and communication of complex soil-landscape data with examples relating to agricultural production, environmental degradation and mineral exploration. <i>Soil Use and Management</i> , 2011 , 27, 550-559	3.1	1
8	Nature and origin of a duripan in a Durixeralf-Duraqualf toposequence: micromorphological aspects. <i>Developments in Soil Science</i> , 1993 , 835-844	1.3	1
7	Addition of wheat straw to acid sulfate soils with different clay contents reduces acidification in two consecutive submerged-moist cycles. <i>Geoderma</i> , 2021 , 385, 114892	6.7	1
6	Trace evidence examination using laboratory and synchrotron X-ray diffraction techniques. <i>Geological Society Special Publication</i> , 2019 , SP492-2019-36	1.7	1
5	Acute Respiratory Obstruction due to Accidental Inhalation of Perlite: A Novel Mechanism for Upper Airway Occlusion with Cast Formation. <i>Journal of Forensic Sciences</i> , 2020 , 65, 1354-1359	1.8	0

4	An introduction to forensic soil science and forensic geology: a synthesis. <i>Geological Society Special Publication</i> , SP492-2021-81	1.7	o
3	Dr Keith Norrish (1924-2017). <i>Clay Minerals</i> , 2017 , 52, 537-538	1.3	
2	Extreme biogeochemical effects following simulation of recurrent drought in acid sulfate soils. <i>Applied Geochemistry</i> , 2022 , 136, 105146	3.5	
1	Self-Mulching as a Classification Criterion at the Subgroup or Family Level. <i>Soil Science Society of America Journal</i> , 1991 , 55, 1804-1805	2.5	