

Alfred E Hartemink

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

156
papers

4,527
citations

35
h-index

63
g-index

195
ext. papers

5,506
ext. citations

4.7
avg, IF

6.45
L-index

#	Paper	IF	Citations
156	Characterizing soil microbial properties using MIR spectra across 12 ecoclimatic zones (NEON sites). <i>Geoderma</i> , 2022 , 409, 115647	6.7	0
155	A soil quality index using Vis-NIR and pXRF spectra of a soil profile. <i>Catena</i> , 2022 , 211, 105954	5.8	3
154	Delineation and description of soil horizons using ground-penetrating radar for soils under boreal forest in Central Karelia (Russia). <i>Catena</i> , 2022 , 214, 106285	5.8	
153	Using pXRF and vis-NIR spectra for predicting properties of soils developed in loess. <i>Pedosphere</i> , 2022 , 32, 602-615	5	1
152	Soil Catena Characterization using pXRF and Vis-NIR Spectroscopy in Northwest Turkey. <i>Eurasian Soil Science</i> , 2021 , 54, S1	1.5	0
151	Rapid estimation of a soil water retention curve using visible near infrared spectroscopy. <i>Journal of Hydrology</i> , 2021 , 603, 127195	6	0
150	Evaluating three calibration transfer methods for predictions of soil properties using mid-infrared spectroscopy. <i>Soil Science Society of America Journal</i> , 2021 , 85, 501-519	2.5	5
149	Spectral signatures of soil horizons and soil orders – An exploratory study of 270 soil profiles. <i>Geoderma</i> , 2021 , 389, 114961	6.7	6
148	Soil-dependent responses of US crop yields to climate variability and depth to groundwater. <i>Agricultural Systems</i> , 2021 , 190, 103085	6.1	5
147	Quantifying short-range variation of soil texture and total carbon of a 330-ha farm. <i>Catena</i> , 2021 , 201, 105200	5.8	7
146	Characterization of field-scale soil variation using a stepwise multi-sensor fusion approach and a cost-benefit analysis. <i>Catena</i> , 2021 , 201, 105190	5.8	10
145	Soils and sustainable development goals of the United Nations: An International Union of Soil Sciences perspective. <i>Geoderma Regional</i> , 2021 , 25, e00398	2.7	28
144	Building an International Soil Science 2021 , 359-383		
143	Prologue – The Roots of Soil Science 2021 , 1-35		
142	Building an American Soil Survey 2021 , 241-281		
141	From 1927 to 1960, and a Favor Returned 2021 , 435-494		
140	Chronicles and Progressions 2021 , 531-559		

139	Seventh International Congress of Soil Science 1960 2021 , 495-530		
138	Synergistic use of hyperspectral imagery, Sentinel-1 and LiDAR improves mapping of soil physical and geochemical properties at the farm-scale. <i>European Journal of Soil Science</i> , 2021 , 72, 1690	3.4	4
137	Using vis-NIR and pXRF data to distinguish soil parent materials [An example using 136 pedons from Wisconsin, USA. <i>Geoderma</i> , 2021 , 396, 115091	6.7	10
136	Formation and variation of a 4.5 m deep Oxisol in southeastern Brazil. <i>Catena</i> , 2021 , 206, 105492	5.8	5
135	Soil chronosequence and biosequence on old lake sediments of the Burdur Lake in Turkey. <i>Pedosphere</i> , 2021 , 31, 882-891	5	2
134	Pochva Americana I 2021 , 37-69		
133	Of Soils and Men 2021 , 283-319		
132	Retrieving Heterogeneous Surface Soil Moisture at 100 m Across the Globe via Fusion of Remote Sensing and Land Surface Parameters. <i>Frontiers in Water</i> , 2020 , 2,	2.6	4
131	Distribution and properties of sandy soils in the conterminous USA [A conceptual thickness model, and taxonomic analysis. <i>Catena</i> , 2020 , 195, 104746	5.8	2
130	The U.S. National Committee for Soil Science: Activities, Opportunities for Service. <i>CSA News</i> , 2020 , 65, 18-19	0.1	
129	Establishing an Empirical Model for Surface Soil Moisture Retrieval at the U.S. Climate Reference Network Using Sentinel-1 Backscatter and Ancillary Data. <i>Remote Sensing</i> , 2020 , 12, 1242	5	8
128	How deep is the soil studied [An analysis of four soil science journals. <i>Plant and Soil</i> , 2020 , 452, 5-18	4.2	17
127	Soil horizon variation: A review. <i>Advances in Agronomy</i> , 2020 , 160, 125-185	7.7	23
126	Predicting the color of sandy soils from Wisconsin, USA. <i>Geoderma</i> , 2020 , 361, 114039	6.7	11
125	Soil and environmental issues in sandy soils. <i>Earth-Science Reviews</i> , 2020 , 208, 103295	10.2	39
124	Managing Soils for Recovering from the COVID-19 Pandemic. <i>Soil Systems</i> , 2020 , 4, 46	3.5	30
123	Data fusion of vis-NIR and PXRF spectra to predict soil physical and chemical properties. <i>European Journal of Soil Science</i> , 2020 , 71, 316-333	3.4	26
122	Mulching effects on soil nutrient levels and yield in coffee farming systems in Rwanda. <i>Soil Use and Management</i> , 2020 , 36, 58-70	3.1	5

121	100 Years of Soil Science Society in the U.S.. <i>CSA News</i> , 2020 , 65, 26-27	0.1	1
120	Geochemical Fingerprint and Soil Carbon of Sandy Alfisols. <i>Soil Systems</i> , 2019 , 3, 59	3.5	3
119	Quantifying Coarse Fragments in Soil Samples Using a Digital Camera. <i>Eurasian Soil Science</i> , 2019 , 52, 954-962	1.5	5
118	Open access publishing and soil science trends and developments. <i>Geoderma Regional</i> , 2019 , 18, e00231	1.7	4
117	Unraveling location-specific and time-dependent interactions between soil water content and environmental factors in cropped sandy soils using Sentinel-1 and moisture probes. <i>Journal of Hydrology</i> , 2019 , 575, 780-793	6	7
116	Soil horizon delineation using vis-NIR and pXRF data. <i>Catena</i> , 2019 , 180, 298-308	5.8	19
115	Spatial-temporal analysis of soil water storage and deep drainage under irrigated potatoes in the Central Sands of Wisconsin, USA. <i>Agricultural Water Management</i> , 2019 , 217, 226-235	5.9	8
114	A method for automated soil horizon delineation using digital images. <i>Geoderma</i> , 2019 , 343, 97-115	6.7	20
113	Digital mapping of a soil profile. <i>European Journal of Soil Science</i> , 2019 , 70, 27-41	3.4	29
112	Land use and climate change effects on soil organic carbon in North and Northeast China. <i>Science of the Total Environment</i> , 2019 , 647, 1230-1238	10.2	70
111	Soil organic carbon in sandy soils: A review. <i>Advances in Agronomy</i> , 2019 , 158, 217-310	7.7	38
110	Climate and Land-Use Change Effects on Soil Carbon Stocks over 150 Years in Wisconsin, USA. <i>Remote Sensing</i> , 2019 , 11, 1504	5	12
109	Effects of carbon on moisture storage in soils of the Wisconsin Central Sands, USA. <i>European Journal of Soil Science</i> , 2019 , 70, 565-577	3.4	16
108	Raster sampling of soil profiles. <i>Geoderma</i> , 2018 , 318, 99-108	6.7	13
107	A mechanistic model to predict soil thickness in a valley area of Rio Grande do Sul, Brazil. <i>Geoderma</i> , 2018 , 309, 17-31	6.7	9
106	THE GLOBALSOILMAP PROJECT: PAST, PRESENT, FUTURE, AND NATIONAL EXAMPLES FROM FRANCE. <i>Dokuchaev Soil Bulletin</i> , 2018 , 3-23	0.6	3
105	New perspectives to use Munsell color charts with electronic devices. <i>Computers and Electronics in Agriculture</i> , 2018 , 155, 378-385	6.5	13
104	Soil weathering analysis using a portable X-ray fluorescence (PXRF) spectrometer in an Inceptisol from the Brazilian Cerrado. <i>Applied Clay Science</i> , 2018 , 162, 27-37	5.2	35

103	Digital soil morphometrics of krotovinas in a deep Alfisol derived from loess in Shenyang, China. <i>Geoderma</i> , 2017 , 301, 11-18	6.7	18
102	Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. <i>GeoResJ</i> , 2017 , 14, 1-19		68
101	Short-range variation in a Wisconsin soilscape (USA). <i>Eurasian Soil Science</i> , 2017 , 50, 198-209	1.5	10
100	Digital soil mapping across the globe. <i>Geoderma Regional</i> , 2017 , 9, 1-4	2.7	52
99	Sampling designs for soil organic carbon stock assessment of soil profiles. <i>Geoderma</i> , 2017 , 307, 220-230	6.7	15
98	Soil organic carbon increases under intensive agriculture in the Central Sands, Wisconsin, USA. <i>Geoderma Regional</i> , 2017 , 10, 115-125	2.7	22
97	Mulching as a strategy to improve soil properties and reduce soil erodibility in coffee farming systems of Rwanda. <i>Catena</i> , 2017 , 149, 43-51	5.8	37
96	Current and Future Soil Research. <i>World Soils Book Series</i> , 2017 , 223-228	0.7	2
95	Soil-Forming Factors. <i>World Soils Book Series</i> , 2017 , 23-54	0.7	2
94	Linking soils to ecosystem services [A global review]. <i>Geoderma</i> , 2016 , 262, 101-111	6.7	479
93	Digital mapping of soil carbon in a viticultural region of Southern Brazil. <i>Geoderma</i> , 2016 , 261, 204-221	6.7	59
92	Mapping a Profile Wall of a Typic Udipsamments from the Central Sands in Wisconsin, USA. <i>Progress in Soil Science</i> , 2016 , 191-206		3
91	Total soil organic carbon and carbon sequestration potential in Nigeria. <i>Geoderma</i> , 2016 , 271, 202-215	6.7	102
90	Soil pH increase under paddy in South Korea between 2000 and 2012. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 221, 205-213	5.7	47
89	Variation of Soil Properties in a Mollisol Profile Wall. <i>Progress in Soil Science</i> , 2016 , 165-189		
88	Major Elements in Soils Along a 2.8km Altitudinal Gradient on the Tibetan Plateau, China. <i>Pedosphere</i> , 2016 , 26, 895-903	5	7
87	Impact of Restoration and Management on Aggregation and Organic Carbon Accumulation in Urban Grasslands. <i>Soil Science Society of America Journal</i> , 2016 , 80, 992-1002	2.5	5
86	The definition of soil since the early 1800s. <i>Advances in Agronomy</i> , 2016 , 137, 73-126	7.7	29

85	Measuring and Modelling Soil Depth Functions. <i>Progress in Soil Science</i> , 2016 , 225-240		14
84	Comparing Soil C Stocks from Soil Profile Data Using Four Different Methods. <i>Progress in Soil Science</i> , 2016 , 315-329		2
83	Developments in Digital Soil Morphometrics. <i>Progress in Soil Science</i> , 2016 , 425-433		
82	The use of soil classification in journal papers between 1975 and 2014. <i>Geoderma Regional</i> , 2015 , 5, 127-139		28
81	90 years IUSS and global soil science. <i>Soil Science and Plant Nutrition</i> , 2015 , 61, 579-586	1.6	5
80	Hypotheses presence and acceptance in seven soil science journals. <i>Geoderma</i> , 2015 , 243-244, 10-17	6.7	
79	Digital Mapping of Topsoil Carbon Content and Changes in the Driftless Area of Wisconsin, USA. <i>Soil Science Society of America Journal</i> , 2015 , 79, 155-164	2.5	27
78	Rapid Changes in Sandy Soils under Intensive Agriculture in Wisconsin. <i>Soil Horizons</i> , 2015 , 56, 1		3
77	New Tools for Pedologists: Digital Soil Morphometrics. <i>Soil Horizons</i> , 2015 , 56, 1		4
76	Terra Rossa catenas in Wisconsin, USA. <i>Catena</i> , 2014 , 123, 148-152	5.8	10
75	Digital soil mapping of a red clay subsoil covered by loess. <i>Geoderma</i> , 2014 , 230-231, 296-304	6.7	13
74	Soil-forming factors and Soil Taxonomy. <i>Geoderma</i> , 2014 , 226-227, 231-237	6.7	60
73	Towards digital soil morphometrics. <i>Geoderma</i> , 2014 , 230-231, 305-317	6.7	111
72	The joy of teaching soil science. <i>Geoderma</i> , 2014 , 217-218, 1-9	6.7	34
71	GlobalSoilMap. <i>Advances in Agronomy</i> , 2014 , 93-134	7.7	175
70	Soils with iron-cemented layers on golf courses in the USA. <i>Geoderma</i> , 2014 , 232-234, 198-207	6.7	9
69	Digital mapping of soil organic carbon contents and stocks in Denmark. <i>PLoS ONE</i> , 2014 , 9, e105519	3.7	177
68	Digital Mapping of Soil Particle-Size Fractions for Nigeria. <i>Soil Science Society of America Journal</i> , 2014 , 78, 1953-1966	2.5	80

67	GlobalSoilMap project history 2014 , 3-8		2
66	The GlobalSoilMap project specifications 2014 , 9-12		14
65	GIS-based multi-criteria analysis for Arabica coffee expansion in Rwanda. <i>PLoS ONE</i> , 2014 , 9, e107449	3.7	26
64	Soil Carbon Research Priorities 2014 , 483-490		9
63	GlobalSoilMap and Global Carbon Predictions 2014 , 363-372		
62	Distribution and classification of soils with clay-enriched horizons in the USA. <i>Geoderma</i> , 2013 , 209-210, 153-160	6.7	38
61	Salic Horizons in Soils of the USA. <i>Pedosphere</i> , 2013 , 23, 600-608	5	5
60	Soils with fragipans in the USA. <i>Catena</i> , 2013 , 104, 233-242	5.8	33
59	An Inverted Horizon Soilscape in Wisconsin. <i>Soil Horizons</i> , 2013 , 54, 30		2
58	Soil Maps of the United States of America. <i>Soil Science Society of America Journal</i> , 2013 , 77, 1117-1132	2.5	20
57	Soil genesis and classification. <i>Catena</i> , 2013 , 104, 251-256	5.8	14
56	Soil maps of the world. <i>Geoderma</i> , 2013 , 207-208, 256-267	6.7	42
55	Soil maps of The Netherlands. <i>Geoderma</i> , 2013 , 204-205, 1-9	6.7	26
54	Classification and distribution of soils with lamellae in the USA. <i>Geoderma</i> , 2013 , 206, 92-100	6.7	18
53	Coffee Farming and Soil Management in Rwanda. <i>Outlook on Agriculture</i> , 2013 , 42, 47-52	2.9	18
52	Avaliaço de cinco algoritmos de fvores de deciso e trs tipos de modelos digitais de elevao para mapeamento digital de solos a nvel semidetalhado na Bacia do Lageado Grande, RS, Brasil. <i>Ciencia Rural</i> , 2013 , 43, 1967-1973	1.3	10
51	Citations and the h index of soil researchers and journals in the Web of Science, Scopus, and Google Scholar. <i>PeerJ</i> , 2013 , 1, e183	3.1	37
50	Soil maps of Wisconsin. <i>Geoderma</i> , 2012 , 189-190, 451-461	6.7	15

49	Soil science reference books. <i>Catena</i> , 2012 , 95, 142-144	5.8	4
48	On the Soil in Soil Survey Horizons (1960-2009). <i>Soil Horizons</i> , 2012 , 53, 30		2
47	The challenges of collating legacy data for digital mapping of Nigerian soils 2012 , 453-458		4
46	Some Noteworthy Soil Science in Wisconsin. <i>Soil Horizons</i> , 2012 , 53, 20		1
45	Predicting soil properties in the tropics. <i>Earth-Science Reviews</i> , 2011 , 106, 52-62	10.2	144
44	Global pedodiversity, taxonomic distance, and the World Reference Base. <i>Geoderma</i> , 2010 , 155, 132-139.7		86
43	Individual, country, and journal self-citation in soil science. <i>Geoderma</i> , 2010 , 155, 434-438	6.7	18
42	Early soil knowledge and the birth and development of soil science. <i>Catena</i> , 2010 , 83, 23-33	5.8	85
41	GlobalSoilMap.net – A New Digital Soil Map of the World 2010 , 423-428		13
40	Environmental science. Digital soil map of the world. <i>Science</i> , 2009 , 325, 680-1	33.3	368
39	Publications for evaluations: The impact of soil science and soil scientists. <i>Journal of Soils and Water Conservation</i> , 2009 , 64, 18A-19A	2.2	1
38	The depiction of soil profiles since the late 1700s. <i>Catena</i> , 2009 , 79, 113-127	5.8	18
37	Experts address the question: What are the most important constraints to achieving food security in various parts of Africa? <i>Natural Resources Forum</i> , 2008 , 32, 163-166	2.2	5
36	Soils are back on the global agenda. <i>Soil Use and Management</i> , 2008 , 24, 327-330	3.1	44
35	Chapter 3 Sugarcane for Bioethanol. <i>Advances in Agronomy</i> , 2008 , 125-182	7.7	36
34	A soil science renaissance. <i>Geoderma</i> , 2008 , 148, 123-129	6.7	125
33	Land Cover, Extent, and Properties of Arenosols in Southern Africa. <i>Arid Land Research and Management</i> , 2008 , 22, 134-147	1.8	32
32	Trends in soil science education: Looking beyond the number of students. <i>Journal of Soils and Water Conservation</i> , 2008 , 63, 76A-83A	2.2	21

31	Land use change and population growth in the Morobe Province of Papua New Guinea between 1975 and 2000. <i>Journal of Environmental Management</i> , 2008 , 87, 117-24	7.9	47
30	Soil Map Density and a Nation's Wealth and Income 2008 , 53-66		4
29	Soil science and the h index. <i>Scientometrics</i> , 2007 , 73, 257-264	3	20
28	Soil science, population growth and food production: some historical developments 2007 , 85-97		
27	Assessing Soil Fertility Decline in the Tropics Using Soil Chemical Data. <i>Advances in Agronomy</i> , 2006 , 89, 179-225	7.7	65
26	Nutrient Stocks, Nutrient Cycling, and Soil Changes in Cocoa Ecosystems: A Review. <i>Advances in Agronomy</i> , 2005 , 86, 227-253	7.7	110
25	The Invasive Shrub Piper aduncum and Rural Livelihoods in the Finschhafen Area of Papua New Guinea. <i>Human Ecology</i> , 2005 , 33, 875-893	2	20
24	Plantation Agriculture in the Tropics: Environmental Issues. <i>Outlook on Agriculture</i> , 2005 , 34, 11-21	2.9	44
23	Nutrient stocks of short-term fallows on a high base status soil in the humid tropics of Papua New Guinea. <i>Agroforestry Systems</i> , 2004 , 63, 33-43	2	11
22	Integrated Nutrient Management Research with Sweet Potato in Papua New Guinea. <i>Outlook on Agriculture</i> , 2003 , 32, 173-182	2.9	7
21	Soil Science in Tropical and Temperate Regions—Some Differences and Similarities. <i>Advances in Agronomy</i> , 2002 , 269-292	7.7	31
20	Leaf litter decomposition of Piper aduncum, Gliricidia sepium and Imperata cylindrica in the humid lowlands of Papua New Guinea 2001 , 230, 115-124		40
19	Look at it this Way: Publishing Science: Past, Present and the Future. <i>Outlook on Agriculture</i> , 2001 , 30, 231-237	2.9	8
18	Biomass and nutrient accumulation of Piper aduncum and Imperata cylindrica fallows in the humid lowlands of Papua New Guinea. <i>Forest Ecology and Management</i> , 2001 , 144, 19-32	3.9	28
17	Developments and trends in soil science: 100 volumes of Geoderma (1967-2001). <i>Geoderma</i> , 2001 , 100, 217-268	6.7	29
16	Nutrient Deficiencies of Agricultural Crops in Papua New Guinea. <i>Outlook on Agriculture</i> , 2000 , 29, 97-108.	2.9	12
15	Soil seed bank and growth rates of an invasive species, Piper aduncum, in the lowlands of Papua New Guinea. <i>Journal of Tropical Ecology</i> , 2000 , 16, 243-251	1.3	36
14	Nitrogen use efficiency of taro and sweet potato in the humid lowlands of Papua New Guinea. <i>Agriculture, Ecosystems and Environment</i> , 2000 , 79, 271-280	5.7	37

13	Yield decline of sweet potato in the humid lowlands of Papua New Guinea. <i>Agriculture, Ecosystems and Environment</i> , 2000 , 79, 259-269	5.7	33
12	Inorganic nitrogen dynamics in fallows and maize on an Oxisol and Alfisol in the highlands of Kenya. <i>Geoderma</i> , 2000 , 98, 11-33	6.7	28
11	75 years The International Society of Soil Science. <i>Geoderma</i> , 2000 , 96, 1-18	6.7	31
10	Soil chemical and physical properties as indicators of sustainable land management under sugar cane in Papua New Guinea. <i>Geoderma</i> , 1998 , 85, 283-306	6.7	53
9	Changes in soil fertility and leaf nutrient concentration at a sugar cane plantation in Papua New Guinea. <i>Communications in Soil Science and Plant Analysis</i> , 1998 , 29, 1045-1060	1.5	8
8	ACIDIFICATION AND pH BUFFERING CAPACITY OF ALLUVIAL SOILS UNDER SUGARCANE. <i>Experimental Agriculture</i> , 1998 , 34, 231-243	1.7	8
7	Soil fertility decline in some Major Soil Groupings under permanent cropping in Tanga region, Tanzania. <i>Geoderma</i> , 1997 , 75, 215-229	6.7	46
6	Input and output of major nutrients under monocropping sisal in Tanzania. <i>Land Degradation and Development</i> , 1997 , 8, 305-310	4.4	13
5	Soil Nitrate and Water Dynamics in Sesbania Fallows, Weed Fallows, and Maize. <i>Soil Science Society of America Journal</i> , 1996 , 60, 568-574	2.5	82
4	Soil Fertility Decline and Fallow Effects in Ferralsols and Acrisols of Sisal Plantations in Tanzania. <i>Experimental Agriculture</i> , 1996 , 32, 173-184	1.7	9
3	Some Factors Influencing Yield Trends of Sugarcane in Papua New Guinea. <i>Outlook on Agriculture</i> , 1996 , 25, 227-234	2.9	7
2	Sisal Production and Soil Fertility Decline in Tanzania. <i>Outlook on Agriculture</i> , 1995 , 24, 91-96	2.9	10
1	The influence of parent material on soil fertility degradation in the coastal plain of Tanzania. <i>Land Degradation and Development</i> , 1995 , 6, 215-221	4.4	11