Alfred E Hartemink

List of Publications by Citations

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	Linking soils to ecosystem services A global review. *Geoderma*, **2016**, 262, 101-111	6.7	479
155	Environmental science. Digital soil map of the world. *Science*, **2009**, 325, 680-1	33.3	368
154	Digital mapping of soil organic carbon contents and stocks in Denmark. *PLoS ONE*, **2014**, 9, e105519	3.7	177
153	GlobalSoilMap. *Advances in Agronomy*, **2014**, 93-134	7.7	175
152	Predicting soil properties in the tropics. *Earth-Science Reviews*, **2011**, 106, 52-62	10.2	144
151	A soil science renaissance. *Geoderma*, **2008**, 148, 123-129	6.7	125
150	Towards digital soil morphometrics. *Geoderma*, **2014**, 230-231, 305-317	6.7	111
149	Nutrient Stocks, Nutrient Cycling, and Soil Changes in Cocoa Ecosystems: A Review. *Advances in Agronomy*, **2005**, 86, 227-253	7.7	110
148	Total soil organic carbon and carbon sequestration potential in Nigeria. *Geoderma*, **2016**, 271, 202-215	6.7	102
147	Global pedodiversity, taxonomic distance, and the World Reference Base. *Geoderma*, **2010**, 155, 132-139	6.7	86
146	Early soil knowledge and the birth and development of soil science. *Catena*, **2010**, 83, 23-33	5.8	85
145	Soil Nitrate and Water Dynamics in Sesbania Fallows, Weed Fallows, and Maize. *Soil Science Society of America Journal*, **1996**, 60, 568-574	2.5	82
144	Digital Mapping of Soil Particle-Size Fractions for Nigeria. *Soil Science Society of America Journal*, **2014**, 78, 1953-1966	2.5	80
143	Land use and climate change effects on soil organic carbon in North and Northeast China. *Science of the Total Environment*, **2019**, 647, 1230-1238	10.2	70
142	Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. *GeoResJ*, **2017**, 14, 1-19		68
141	Assessing Soil Fertility Decline in the Tropics Using Soil Chemical Data. *Advances in Agronomy*, **2006**, 89, 179-225	7.7	65
140	Soil-forming factors and Soil Taxonomy. *Geoderma*, **2014**, 226-227, 231-237	6.7	60

139	Digital mapping of soil carbon in a viticultural region of Southern Brazil. *Geoderma*, **2016**, 261, 204-221	6.7	59
138	Soil chemical and physical properties as indicators of sustainable land management under sugar cane in Papua New Guinea. *Geoderma*, **1998**, 85, 283-306	6.7	53
137	Digital soil mapping across the globe. *Geoderma Regional*, **2017**, 9, 1-4	2.7	52
136	Soil pH increase under paddy in South Korea between 2000 and 2012. *Agriculture, Ecosystems and Environment*, **2016**, 221, 205-213	5.7	47
135	Land use change and population growth in the Morobe Province of Papua New Guinea between 1975 and 2000. *Journal of Environmental Management*, **2008**, 87, 117-24	7.9	47
134	Soil fertility decline in some Major Soil Groupings under permanent cropping in Tanga region, Tanzania. *Geoderma*, **1997**, 75, 215-229	6.7	46
133	Soils are back on the global agenda. *Soil Use and Management*, **2008**, 24, 327-330	3.1	44
132	Plantation Agriculture in the Tropics: Environmental Issues. *Outlook on Agriculture*, **2005**, 34, 11-21	2.9	44
131	Soil maps of the world. *Geoderma*, **2013**, 207-208, 256-267	6.7	42
130	Leaf litter decomposition of Piper aduncum, Gliricidia sepium and Imperata cylindrica in the humid lowlands of Papua New Guinea **2001**, 230, 115-124		40
129	Soil and environmental issues in sandy soils. *Earth-Science Reviews*, **2020**, 208, 103295	10.2	39
128	Soil organic carbon in sandy soils: A review. *Advances in Agronomy*, **2019**, 158, 217-310	7.7	38
127	Distribution and classification of soils with clay-enriched horizons in the USA. *Geoderma*, **2013**, 209-210, 153-160	6.7	38
126	Mulching as a strategy to improve soil properties and reduce soil erodibility in coffee farming systems of Rwanda. *Catena*, **2017**, 149, 43-51	5.8	37
125	Nitrogen use efficiency of taro and sweet potato in the humid lowlands of Papua New Guinea. *Agriculture, Ecosystems and Environment*, **2000**, 79, 271-280	5.7	37
124	Citations and the h index of soil researchers and journals in the Web of Science, Scopus, and Google Scholar. *PeerJ*, **2013**, 1, e183	3.1	37
123	Chapter 3 Sugarcane for Bioethanol. *Advances in Agronomy*, **2008**, 125-182	7.7	36
122	Soil seed bank and growth rates of an invasive species, Piper aduncum, in the lowlands of Papua New Guinea. *Journal of Tropical Ecology*, **2000**, 16, 243-251	1.3	36

121	Soil weathering analysis using a portable X-ray fluorescence (PXRF) spectrometer in an Inceptisol from the Brazilian Cerrado. *Applied Clay Science*, **2018**, 162, 27-37	5.2	35
120	The joy of teaching soil science. *Geoderma*, **2014**, 217-218, 1-9	6.7	34
119	Soils with fragipans in the USA. *Catena*, **2013**, 104, 233-242	5.8	33
118	Yield decline of sweet potato in the humid lowlands of Papua New Guinea. *Agriculture, Ecosystems and Environment*, **2000**, 79, 259-269	5.7	33
117	Land Cover, Extent, and Properties of Arenosols in Southern Africa. *Arid Land Research and Management*, **2008**, 22, 134-147	1.8	32
116	Soil Science in Tropical and Temperate Regions□Some Differences and Similarities. *Advances in Agronomy*, **2002**, 269-292	7.7	31
115	75 years The International Society of Soil Science. *Geoderma*, **2000**, 96, 1-18	6.7	31
114	Managing Soils for Recovering from the COVID-19 Pandemic. *Soil Systems*, **2020**, 4, 46	3.5	30
113	Digital mapping of a soil profile. *European Journal of Soil Science*, **2019**, 70, 27-41	3.4	29
112	Developments and trends in soil science: 100 volumes of Geoderma (1967□2001). *Geoderma*, **2001**, 100, 217-268	6.7	29
111	The definition of soil since the early 1800s. *Advances in Agronomy*, **2016**, 137, 73-126	7.7	29
110	The use of soil classification in journal papers between 1975 and 2014. *Geoderma Regional*, **2015**, 5, 127-139	1.7	28
109	Inorganic nitrogen dynamics in fallows and maize on an Oxisol and Alfisol in the highlands of Kenya. *Geoderma*, **2000**, 98, 11-33	6.7	28
108	Biomass and nutrient accumulation of Piper aduncum and Imperata cylindrica fallows in the humid lowlands of Papua New Guinea. *Forest Ecology and Management*, **2001**, 144, 19-32	3.9	28
107	Soils and sustainable development goals of the United Nations: An International Union of Soil Sciences perspective. *Geoderma Regional*, **2021**, 25, e00398	2.7	28
106	Digital Mapping of Topsoil Carbon Content and Changes in the Driftless Area of Wisconsin, USA. *Soil Science Society of America Journal*, **2015**, 79, 155-164	2.5	27
105	Soil maps of The Netherlands. *Geoderma*, **2013**, 204-205, 1-9	6.7	26
104	GIS-based multi-criteria analysis for Arabica coffee expansion in Rwanda. *PLoS ONE*, **2014**, 9, e107449	3.7	26

103	Data fusion of visNIR and PXRF spectra to predict soil physical and chemical properties. *European Journal of Soil Science*, **2020**, 71, 316-333	3.4	26
102	Soil horizon variation: A review. *Advances in Agronomy*, **2020**, 160, 125-185	7.7	23
101	Soil organic carbon increases under intensive agriculture in the Central Sands, Wisconsin, USA. *Geoderma Regional*, **2017**, 10, 115-125	2.7	22
100	Trends in soil science education: Looking beyond the number of students. *Journal of Soils and Water Conservation*, **2008**, 63, 76A-83A	2.2	21
99	A method for automated soil horizon delineation using digital images. *Geoderma*, **2019**, 343, 97-115	6.7	20
98	Soil Maps of the United States of America. *Soil Science Society of America Journal*, **2013**, 77, 1117-1132	2.5	20
97	Soil science and the h index. *Scientometrics*, **2007**, 73, 257-264	3	20
96	The Invasive Shrub Piper aduncum and Rural Livelihoods in the Finschhafen Area of Papua New Guinea. *Human Ecology*, **2005**, 33, 875-893	2	20
95	Soil horizon delineation using vis-NIR and pXRF data. *Catena*, **2019**, 180, 298-308	5.8	19
94	Digital soil morphometrics of krotovinas in a deep Alfisol derived from loess in Shenyang, China. *Geoderma*, **2017**, 301, 11-18	6.7	18
93	Classification and distribution of soils with lamellae in the USA. *Geoderma*, **2013**, 206, 92-100	6.7	18
92	Coffee Farming and Soil Management in Rwanda. *Outlook on Agriculture*, **2013**, 42, 47-52	2.9	18
91	Individual, country, and journal self-citation in soil science. *Geoderma*, **2010**, 155, 434-438	6.7	18
90	The depiction of soil profiles since the late 1700s. *Catena*, **2009**, 79, 113-127	5.8	18
89	How deep is the soil studied an analysis of four soil science journals. *Plant and Soil*, **2020**, 452, 5-18	4.2	17
88	Effects of carbon on moisture storage in soils of the Wisconsin Central Sands, USA. *European Journal of Soil Science*, **2019**, 70, 565-577	3.4	16
87	Sampling designs for soil organic carbon stock assessment of soil profiles. *Geoderma*, **2017**, 307, 220-230	6.7	15
86	Soil maps of Wisconsin. *Geoderma*, **2012**, 189-190, 451-461	6.7	15

85	Soil genesis and classification. *Catena*, **2013**, 104, 251-256	5.8	14
84	The GlobalSoilMap project specifications **2014**, 9-12		14
83	Measuring and Modelling Soil Depth Functions. *Progress in Soil Science*, **2016**, 225-240		14
82	Raster sampling of soil profiles. *Geoderma*, **2018**, 318, 99-108	6.7	13
81	Digital soil mapping of a red clay subsoil covered by loess. *Geoderma*, **2014**, 230-231, 296-304	6.7	13
80	Input and output of major nutrients under monocropping sisal in Tanzania. *Land Degradation and Development*, **1997**, 8, 305-310	4.4	13
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78	New perspectives to use Munsell color charts with electronic devices. *Computers and Electronics in Agriculture*, **2018**, 155, 378-385	6.5	13
77	Climate and Land-Use Change Effects on Soil Carbon Stocks over 150 Years in Wisconsin, USA. *Remote Sensing*, **2019**, 11, 1504	5	12
76	Nutrient Deficiencies of Agricultural Crops in Papua New Guinea. *Outlook on Agriculture*, **2000**, 29, 97-108	2.9	12
75	Nutrient stocks of short-term fallows on a high base status soil in the humid tropics of Papua New Guinea. *Agroforestry Systems*, **2004**, 63, 33-43	2	11
74	The influence of parent material on soil fertility degradation in the coastal plain of Tanzania. *Land Degradation and Development*, **1995**, 6, 215-221	4.4	11
73	Predicting the color of sandy soils from Wisconsin, USA. *Geoderma*, **2020**, 361, 114039	6.7	11
72	Short-range variation in a Wisconsin soilscape (USA). *Eurasian Soil Science*, **2017**, 50, 198-209	1.5	10
71	Terra Rossa catenas in Wisconsin, USA. *Catena*, **2014**, 123, 148-152	5.8	10
70	Sisal Production and Soil Fertility Decline in Tanzania. *Outlook on Agriculture*, **1995**, 24, 91-96	2.9	10
69	Avaliação de cinco algoritmos de árvores de decisão e três tipos de modelos digitais de elevação para mapeamento digital de solos a nível semidetalhado na Bacia do Lageado Grande, RS, Brasil. *Ciencia Rural*, **2013**, 43, 1967-1973	1.3	10
68	Characterization of field-scale soil variation using a stepwise multi-sensor fusion approach and a cost-benefit analysis. *Catena*, **2021**, 201, 105190	5.8	10

67	Using vis-NIR and pXRF data to distinguish soil parent materials □An example using 136 pedons from Wisconsin, USA. *Geoderma*, **2021**, 396, 115091	6.7	10
66	A mechanistic model to predict soil thickness in a valley area of Rio Grande do Sul, Brazil. *Geoderma*, **2018**, 309, 17-31	6.7	9
65	Soils with iron-cemented layers on golf courses in the USA. *Geoderma*, **2014**, 232-234, 198-207	6.7	9
64	Soil Fertility Decline and Fallow Effects in Ferralsols and Acrisols of Sisal Plantations in Tanzania. *Experimental Agriculture*, **1996**, 32, 173-184	1.7	9
63	Soil Carbon Research Priorities **2014**, 483-490		9
62	Spatial-temporal analysis of soil water storage and deep drainage under irrigated potatoes in the Central Sands of Wisconsin, USA. *Agricultural Water Management*, **2019**, 217, 226-235	5.9	8
61	Establishing an Empirical Model for Surface Soil Moisture Retrieval at the U.S. Climate Reference Network Using Sentinel-1 Backscatter and Ancillary Data. *Remote Sensing*, **2020**, 12, 1242	5	8
60	Changes in soil fertility and leaf nutrient concentration at a sugar cane plantation in Papua New Guinea. *Communications in Soil Science and Plant Analysis*, **1998**, 29, 1045-1060	1.5	8
59	Look at it this Way: Publishing Science: Past, Present and the Future. *Outlook on Agriculture*, **2001**, 30, 231-237	2.9	8
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57	Unraveling location-specific and time-dependent interactions between soil water content and environmental factors in cropped sandy soils using Sentinel-1 and moisture probes. *Journal of Hydrology*, **2019**, 575, 780-793	6	7
56	Integrated Nutrient Management Research with Sweet Potato in Papua New Guinea. *Outlook on Agriculture*, **2003**, 32, 173-182	2.9	7
55	Some Factors Influencing Yield Trends of Sugarcane in Papua New Guinea. *Outlook on Agriculture*, **1996**, 25, 227-234	2.9	7
54	Quantifying short-range variation of soil texture and total carbon of a 330-ha farm. *Catena*, **2021**, 201, 105200	5.8	7
53	Major Elements in Soils Along a 2.8□km Altitudinal Gradient on the Tibetan Plateau, China. *Pedosphere*, **2016**, 26, 895-903	5	7
52	Spectral signatures of soil horizons and soil orders □An exploratory study of 270 soil profiles. *Geoderma*, **2021**, 389, 114961	6.7	6
51	Quantifying Coarse Fragments in Soil Samples Using a Digital Camera. *Eurasian Soil Science*, **2019**, 52, 954-962	1.5	5
50	90 years IUSS and global soil science. *Soil Science and Plant Nutrition*, **2015**, 61, 579-586	1.6	5

49	Salic Horizons in Soils of the USA. *Pedosphere*, **2013**, 23, 600-608	5	5
48	Experts address the question: What are the most important constraints to achieving food security in various parts of Africa? *Natural Resources Forum*, **2008**, 32, 163-166	2.2	5
47	Evaluating three calibration transfer methods for predictions of soil properties using mid-infrared spectroscopy. *Soil Science Society of America Journal*, **2021**, 85, 501-519	2.5	5
46	Soil-dependent responses of US crop yields to climate variability and depth to groundwater. *Agricultural Systems*, **2021**, 190, 103085	6.1	5
45	Impact of Restoration and Management on Aggregation and Organic Carbon Accumulation in Urban Grasslands. *Soil Science Society of America Journal*, **2016**, 80, 992-1002	2.5	5
44	Mulching effects on soil nutrient levels and yield in coffee farming systems in Rwanda. *Soil Use and Management*, **2020**, 36, 58-70	3.1	5
43	Formation and variation of a 4.5 m deep Oxisol in southeastern Brazil. *Catena*, **2021**, 206, 105492	5.8	5
42	Open access publishing and soil science Trends and developments. *Geoderma Regional*, **2019**, 18, e00231	2.7	4
41	Retrieving Heterogeneous Surface Soil Moisture at 100 m Across the Globe via Fusion of Remote Sensing and Land Surface Parameters. *Frontiers in Water*, **2020**, 2,	2.6	4
40	New Tools for Pedologists: Digital Soil Morphometrics. *Soil Horizons*, **2015**, 56, 1		4
39	Soil science reference books. *Catena*, **2012**, 95, 142-144	5.8	4
38	The challenges of collating legacy data for digital mapping of Nigerian soils **2012**, 453-458		4
37	Synergistic use of hyperspectral imagery, Sentinel-1 and LiDAR improves mapping of soil physical and geochemical properties at the farm-scale. *European Journal of Soil Science*, **2021**, 72, 1690	3.4	4
36	Soil Map Density and a Nations Wealth and Income **2008**, 53-66		4
35	Geochemical Fingerprint and Soil Carbon of Sandy Alfisols. *Soil Systems*, **2019**, 3, 59	3.5	3
34	Mapping a Profile Wall of a Typic Udipsamments from the Central Sands in Wisconsin, USA. *Progress in Soil Science*, **2016**, 191-206		3
33	Rapid Changes in Sandy Soils under Intensive Agriculture in Wisconsin. *Soil Horizons*, **2015**, 56, 1		3
32	A soil quality index using Vis-NIR and pXRF spectra of a soil profile. *Catena*, **2022**, 211, 105954	5.8	3

31	THE GLOBALSOILMAP PROJECT: PAST, PRESENT, FUTURE, AND NATIONAL EXAMPLES FROM FRANCE. *Dokuchaev Soil Bulletin*, **2018**, 3-23	0.6	3
30	Distribution and properties of sandy soils in the conterminous USA A conceptual thickness model, and taxonomic analysis. *Catena*, **2020**, 195, 104746	5.8	2
29	An Inverted Horizon Soilscape in Wisconsin. *Soil Horizons*, **2013**, 54, 30		2
28	On the Soil in Soil Survey Horizons (19602009). *Soil Horizons*, **2012**, 53, 30		2
27	GlobalSoilMap project history **2014**, 3-8		2
26	Current and Future Soil Research. *World Soils Book Series*, **2017**, 223-228	0.7	2
25	Soil-Forming Factors. *World Soils Book Series*, **2017**, 23-54	0.7	2
24	Comparing Soil C Stocks from Soil Profile Data Using Four Different Methods. *Progress in Soil Science*, **2016**, 315-329		2
23	Soil chronosequence and biosequence on old lake sediments of the Burdur Lake in Turkey. *Pedosphere*, **2021**, 31, 882-891	5	2
22	Publications for evaluations: The impact of soil science and soil scientists. *Journal of Soils and Water Conservation*, **2009**, 64, 18A-19A	2.2	1
21	Some Noteworthy Soil Science in Wisconsin. *Soil Horizons*, **2012**, 53, 20		1
20	100 Years of Soil Science Society in the U.S.. *CSA News*, **2020**, 65, 26-27	0.1	1
19	Using pXRF and vis-NIR spectra for predicting properties of soils developed in loess. *Pedosphere*, **2022**, 32, 602-615	5	1
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17	Rapid estimation of a soilwater retention curve using visiblenear infrared spectroscopy. *Journal of Hydrology*, **2021**, 603, 127195	6	0
16	Characterizing soil microbial properties using MIR spectra across 12 ecoclimatic zones (NEON sites). *Geoderma*, **2022**, 409, 115647	6.7	0
15	Hypotheses presence and acceptance in seven soil science journals. *Geoderma*, **2015**, 243-244, 10-17	6.7	
14	The U.S. National Committee for Soil Science: Activities, Opportunities for Service. *CSA News*, **2020**, 65, 18-19	0.1	

13 Soil science, population growth and food production: some historical developments **2007**, 85-97

12 Variation of Soil Properties in a Mollisol Profile Wall. *Progress in Soil Science*, **2016**, 165-189

11 GlobalSoilMap and Global Carbon Predictions **2014**, 363-372

10 Developments in Digital Soil Morphometrics. *Progress in Soil Science*, **2016**, 425-433

9 Building an International Soil Science **2021**, 359-383

8 Prologue The Roots of Soil Science **2021**, 1-35

7 Building an American Soil Survey **2021**, 241-281

6 From 1927 to 1960, and a Favor Returned **2021**, 435-494

5 Chronicles and Progressions **2021**, 531-559

4 Seventh International Congress of Soil Science 1960 **2021**, 495-530

3 Pochva Americana I **2021**, 37-69

2 Of Soils and Men **2021**, 283-319

1 Delineation and description of soil horizons using ground-penetrating radar for soils under boreal forest in Central Karelia (Russia). *Catena*, **2022**, 214, 106285 5.8