

Peter KÃ¼hn

List of Publications by Year in descending order

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96
papers

4,383
citations

101384

36
h-index

128067

60
g-index

115
all docs

115
docs citations

115
times ranked

5229
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration of Near-Infrared Spectra for Phosphorus Fractions in Grassland Soils on the Tibetan Plateau. <i>Agronomy</i> , 2022, 12, 783.	1.3	5
2	Impact of Climate and Slope Aspects on the Composition of Soil Bacterial Communities Involved in Pedogenetic Processes along the Chilean Coastal Cordillera. <i>Microorganisms</i> , 2022, 10, 847.	1.6	7
3	Whatâ€™s in a colluvial deposit? Perspectives from archaeopedology. <i>Catena</i> , 2021, 198, 105040.	2.2	12
4	Soils, landscapes, and cultural concepts of favor and disfavor within complex adaptive systems and ResourceCultures: human-land interactions during the Holocene. <i>Ecology and Society</i> , 2021, 26, .	1.0	3
5	Influence of prokaryotic microorganisms on initial soil formation along a glacier forefield on King George Island, maritime Antarctica. <i>Scientific Reports</i> , 2021, 11, 13135.	1.6	15
6	Middle Bronze Age land use practices in the northwestern Alpine foreland â€™ a multi-proxy study of colluvial deposits, archaeological features and peat bogs. <i>Soil</i> , 2021, 7, 269-304.	2.2	12
7	Regional and local scale variations in soil organic carbon stocks in West Greenland. <i>Journal of Plant Nutrition and Soil Science</i> , 2020, 183, 292-305.	1.1	2
8	Engaging with urban green spaces â€™ A comparison of urban and rural allotment gardens in Southwestern Germany. <i>Urban Forestry and Urban Greening</i> , 2019, 43, 126381.	2.3	14
9	Pedogenic and microbial interrelation in initial soils under semiarid climate on James Ross Island, Antarctic Peninsula region. <i>Biogeosciences</i> , 2019, 16, 2481-2499.	1.3	19
10	The strength of soil-plant interactions under forest is related to a Critical Soil Depth. <i>Scientific Reports</i> , 2019, 9, 8635.	1.6	30
11	Tree diversity reduced soil erosion by affecting tree canopy and biological soil crust development in a subtropical forest experiment. <i>Forest Ecology and Management</i> , 2019, 444, 69-77.	1.4	30
12	Comparison of catchment scale 3D and 2.5D modelling of soil organic carbon stocks in Jiangxi Province, PR China. <i>PLoS ONE</i> , 2019, 14, e0220881.	1.1	20
13	Humus-rich topsoils in SW Norway â€™ Molecular and isotopic signatures of soil organic matter as indicators for anthro-pedogenesis. <i>Catena</i> , 2019, 172, 831-845.	2.2	12
14	Distribution of Chernozems and Phaeozems in Central Germany during the Neolithic period. <i>Quaternary International</i> , 2019, 511, 166-184.	0.7	17
15	Neolithic settlement dynamics derived from archaeological data and colluvial deposits between the Baar region and the adjacent low mountain ranges, southwest Germany. <i>E&G Quaternary Science Journal</i> , 2019, 68, 75-93.	0.2	13
16	Land use dynamics derived from colluvial deposits and bogs in the Black Forest, Germany. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 240-260.	1.1	13
17	Diagenetic reddening of Early Eocene paleosols on King George Island, Antarctica. <i>Geoderma</i> , 2018, 315, 149-159.	2.3	8
18	Textural Pedofeatures and Related Horizons. , 2018, , 377-423.		27

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19	Impacts of species richness on productivity in a large-scale subtropical forest experiment. <i>Science</i> , 2018, 362, 80-83.	6.0	433
20	Experimental Evidence of Functional Group-Dependent Effects of Tree Diversity on Soil Fungi in Subtropical Forests. <i>Frontiers in Microbiology</i> , 2018, 9, 2312.	1.5	28
21	The potential of leaf wax biomarkers from fluvial soil-sediment sequences for paleovegetation reconstructions - Upper Alazani River, central southern Greater Caucasus (Georgia). <i>Quaternary Science Reviews</i> , 2018, 196, 62-79.	1.4	16
22	Evolution of soil erosion rates in alpine soils of the Central Rocky Mountains using fallout Pu and $\delta^{13}C$. <i>Earth and Planetary Science Letters</i> , 2018, 496, 257-269.	1.8	27
23	Biodiversity across trophic levels drives multifunctionality in highly diverse forests. <i>Nature Communications</i> , 2018, 9, 2989.	5.8	169
24	Pedogenic and microbial interrelations to regional climate and local topography: New insights from a climate gradient (arid to humid) along the Coastal Cordillera of Chile. <i>Catena</i> , 2018, 170, 335-355.	2.2	77
25	Archaeopedological analysis of colluvial deposits in favourable and unfavourable areas: reconstruction of land use dynamics in SW Germany. <i>Royal Society Open Science</i> , 2018, 5, 171624.	1.1	22
26	Tree species richness increases ecosystem carbon storage in subtropical forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181240.	1.2	169
27	Chemistry and microbiology of the Critical Zone along a steep climate and vegetation gradient in the Chilean Coastal Cordillera. <i>Catena</i> , 2018, 170, 183-203.	2.2	64
28	Eocene paleosols on King George Island, Maritime Antarctica: Macromorphology, micromorphology and mineralogy. <i>Catena</i> , 2017, 152, 69-81.	2.2	9
29	Increasing temperature reduces the coupling between available nitrogen and phosphorus in soils of Chinese grasslands. <i>Scientific Reports</i> , 2017, 7, 43524.	1.6	53
30	Linking above- and belowground traits to soil and climate variables: an integrated database on China's grassland species. <i>Ecology</i> , 2017, 98, 1471-1471.	1.5	19
31	On the combined effect of soil fertility and topography on tree growth in subtropical forest ecosystems—a study from SE China. <i>Journal of Plant Ecology</i> , 2017, 10, 111-127.	1.2	102
32	In-depth analysis of core methanogenic communities from high elevation permafrost-affected wetlands. <i>Soil Biology and Biochemistry</i> , 2017, 111, 66-77.	4.2	36
33	Lateglacial to Holocene pedogenesis and formation of colluvial deposits in a loess landscape of Central Europe (Wetterau, Germany). <i>Catena</i> , 2017, 154, 118-135.	2.2	34
34	Archaeopedology and chronostratigraphy of colluvial deposits as a proxy for regional land use history (Baar, southwest Germany). <i>Catena</i> , 2017, 155, 93-113.	2.2	35
35	Origin of clay minerals in Early Eocene volcanic paleosols on King George Island, Maritime Antarctica. <i>Scientific Reports</i> , 2017, 7, 6368.	1.6	10
36	Toward a methodical framework for comprehensively assessing forest multifunctionality. <i>Ecology and Evolution</i> , 2017, 7, 10652-10674.	0.8	41

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37	Human activity formed deep, dark topsoils around the Baltic Sea. <i>Geoderma Regional</i> , 2017, 10, 93-101.	0.9	21
38	Changes of carbon stocks in alpine grassland soils from 2002 to 2011 on the Tibetan Plateau and their climatic causes. <i>Geoderma</i> , 2017, 288, 166-174.	2.3	44
39	Buried soils in the context of geoarchaeological research—two examples from Germany and Ethiopia. <i>Archaeological and Anthropological Sciences</i> , 2017, 9, 1571-1583.	0.7	16
40	Soil cultures – the adaptive cycle of agrarian soil use in Central Europe: an interdisciplinary study using soil scientific and archaeological research. <i>Ecology and Society</i> , 2017, 22, .	1.0	12
41	Tree species and functional traits but not species richness affect interrill erosion processes in young subtropical forests. <i>Soil</i> , 2016, 2, 49-61.	2.2	35
42	The loess-palaeosol sequence of Datthausen, SW Germany: Characteristics, chronology, and implications for the use of the Lohne Soil as a marker soil. <i>Catena</i> , 2016, 146, 10-29.	2.2	33
43	Pedogenesis across a climatic gradient in tropical high mountains, Cordillera Blanca — Peruvian Andes. <i>Catena</i> , 2016, 147, 441-452.	2.2	16
44	Soil organic carbon stocks in permafrost-affected soils in West Greenland. <i>Geoderma</i> , 2016, 282, 147-159.	2.3	15
45	Soil organic matter characteristics as indicator of Chernozem genesis in the Baltic Sea region. <i>Geoderma Regional</i> , 2016, 7, 187-200.	0.9	20
46	Holocene palaeosols and aeolian activities in the Umimmalissuaq valley, West Greenland. <i>Holocene</i> , 2016, 26, 1149-1161.	0.9	7
47	Soil and tree species traits both shape soil microbial communities during early growth of Chinese subtropical forests. <i>Soil Biology and Biochemistry</i> , 2016, 96, 180-190.	4.2	80
48	Use of near-infrared spectroscopy to assess phosphorus fractions of different plant availability in forest soils. <i>Biogeosciences</i> , 2015, 12, 3415-3428.	1.3	41
49	A Comparison of Two Methods for Quantifying Soil Organic Carbon of Alpine Grasslands on the Tibetan Plateau. <i>PLoS ONE</i> , 2015, 10, e0126372.	1.1	16
50	Species-Specific Effects on Throughfall Kinetic Energy in Subtropical Forest Plantations Are Related to Leaf Traits and Tree Architecture. <i>PLoS ONE</i> , 2015, 10, e0128084.	1.1	43
51	The influence of leaf litter diversity and soil fauna on initial soil erosion in subtropical forests. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1439-1447.	1.2	45
52	Paleoclimate and weathering of the Tokaj (Hungary) loess—paleosol sequence. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 426, 170-182.	1.0	41
53	Fluvial sediments of the Algeti River in southeastern Georgia — An archive of Late Quaternary landscape activity and stability in the Transcaucasian region. <i>Catena</i> , 2015, 130, 95-107.	2.2	17
54	Throughfall kinetic energy in young subtropical forests: Investigation on tree species richness effects and spatial variability. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 148-159.	1.9	44

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55	Austrian MIS 3/2 loess "palaeosol records" Key sites along a west-east transect. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 418, 43-56.	1.0	53
56	Community assembly of ectomycorrhizal fungi along a subtropical secondary forest succession. <i>New Phytologist</i> , 2015, 205, 771-785.	3.5	107
57	Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical China. <i>Methods in Ecology and Evolution</i> , 2014, 5, 74-89.	2.2	232
58	Pedogenesis, permafrost, substrate and topography: Plot and landscape scale interrelations of weathering processes on the central-eastern Tibetan Plateau. <i>Geoderma</i> , 2014, 226-227, 300-316.	2.3	34
59	Bacterial community structure in soils of the Tibetan Plateau affected by discontinuous permafrost or seasonal freezing. <i>Biology and Fertility of Soils</i> , 2014, 50, 555-559.	2.3	15
60	Krotovinas, pedogenic processes and stratigraphic ambiguities of the Upper Palaeolithic sites Kostenki and Borshchevo (Russia). <i>Quaternary International</i> , 2014, 324, 172-179.	0.7	11
61	Paleoenvironmental fluctuations as recorded in the loess-paleosol sequence of the Upper Paleolithic site Krems-Wachtberg. <i>Quaternary International</i> , 2014, 351, 67-82.	0.7	51
62	Lower to middle Weichselian pedogenesis and palaeoclimate in Central Europe using combined micromorphology and geochemistry: the loess-paleosol sequence of Alsheim (Mainz Basin, Germany). <i>Quaternary Science Reviews</i> , 2013, 75, 43-58.	1.4	27
63	Late Pleistocene to Early Holocene natural and human influenced sediment dynamics and soil formation in a 0-order catchment in SW-Germany (Palatinate Forest). <i>Quaternary International</i> , 2013, 306, 42-59.	0.7	14
64	Kinetic Energy of Throughfall in Subtropical Forests of SE China " Effects of Tree Canopy Structure, Functional Traits, and Biodiversity. <i>PLoS ONE</i> , 2013, 8, e49618.	1.1	46
65	Soil Organic Carbon Pools and Stocks in Permafrost-Affected Soils on the Tibetan Plateau. <i>PLoS ONE</i> , 2013, 8, e57024.	1.1	58
66	Mubarak's Garden. Land Improvement on a Dry Tropical Island in the Arabian Sea. <i>Journal of Landscape Ecology</i> (Czech Republic), 2013, 6, 109-123.	0.2	2
67	Organic and inorganic carbon in the topsoil of the Mongolian and Tibetan grasslands: pattern, control and implications. <i>Biogeosciences</i> , 2012, 9, 2287-2299.	1.3	105
68	Early Holocene paleosols at the southwestern Ramlat As-Sab'atayn desert margin: New climate proxies for southern Arabia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 365-366, 154-165.	1.0	22
69	Splash erosion potential under tree canopies in subtropical SE China. <i>Catena</i> , 2012, 91, 85-93.	2.2	103
70	Soil Respiration in Tibetan Alpine Grasslands: Belowground Biomass and Soil Moisture, but Not Soil Temperature, Best Explain the Large-Scale Patterns. <i>PLoS ONE</i> , 2012, 7, e34968.	1.1	108
71	Relationships Between Soil Microorganisms, Plant Communities, and Soil Characteristics in Chinese Subtropical Forests. <i>Ecosystems</i> , 2012, 15, 624-636.	1.6	42
72	Effect of geographical range size on plant functional traits and the relationships between plant, soil and climate in Chinese grasslands. <i>Global Ecology and Biogeography</i> , 2012, 21, 416-427.	2.7	32

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73	A new splash cup to measure the kinetic energy of rainfall. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 596-601.	1.1	41
74	Carbonate rhizoliths in loess and their implications for paleoenvironmental reconstruction revealed by isotopic composition: $\delta^{13}C$, $\delta^{14}C$. <i>Chemical Geology</i> , 2011, 283, 251-260.	1.4	88
75	Properties and formation of Black Soils on the Island of Poel (NE Germany). <i>Quaternary International</i> , 2011, 243, 305-312.	0.7	10
76	Community assembly during secondary forest succession in a Chinese subtropical forest. <i>Ecological Monographs</i> , 2011, 81, 25-41.	2.4	222
77	Lack of tree layer control on herb layer characteristics in a subtropical forest, China. <i>Journal of Vegetation Science</i> , 2011, 22, 1120-1131.	1.1	42
78	Removal of short-range-order minerals prior to grain-size analysis of volcanic ash soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 799-804.	1.1	3
79	Estimation of throughfall erosivity in a highly diverse forest ecosystem using sand-filled splash cups. <i>Journal of Earth Science (Wuhan, China)</i> , 2010, 21, 897-900.	1.1	21
80	Textural Pedofeatures and Related Horizons. , 2010, , 217-250.		48
81	Archaeopedological analyses around a Neolithic hearth and the beginning of Sabaeen irrigation in the oasis of Ma'rib (Ramlat as-Sab'atayn, Yemen). <i>Journal of Archaeological Science</i> , 2010, 37, 1305-1310.	1.2	26
82	Holocene relief and soil changes in loess-covered areas of south-western Germany: The pedosedimentary archives of Bretten-Bauerbach (Kraichgau). <i>Quaternary International</i> , 2010, 222, 96-119.	0.7	48
83	Pedogenesis, permafrost, and soil moisture as controlling factors for soil nitrogen and carbon contents across the Tibetan Plateau. <i>Global Change Biology</i> , 2009, 15, 3001-3017.	4.2	159
84	Palaeopedological marker horizons in northern central Europe: characteristics of Lateglacial Usselo and Finow soils. <i>Boreas</i> , 2009, 38, 591-609.	1.2	100
85	The potential of optically stimulated luminescence for dating periglacial slope deposits – A case study from the Taunus area, Germany. <i>Geomorphology</i> , 2009, 109, 66-78.	1.1	24
86	Loess-like and palaeosol sediments from Lanzarote (Canary Islands/Spain) – Indicators of palaeoenvironmental change during the Late Quaternary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 278, 71-87.	1.0	45
87	Soil Developmental Stages of Layered Cambisols and Calcisols on Socotra Island, Yemen. <i>Soil Science</i> , 2009, 174, 292-302.	0.9	20
88	Environmental impact of the Laacher See eruption at a large distance from the volcano: Integrated palaeoecological studies from Vorpommern (NE Germany). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 270, 196-214.	1.0	45
89	Micromorphology of middle Pleistocene palaeosols in northern Italy. <i>Quaternary International</i> , 2006, 156-157, 156-166.	0.7	23
90	A Lateglacial palaeosol cover in the Altdarss area, southern Baltic Sea coast (northeast Germany): investigations on pedology, geochronology and botany. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2006, 85, 197-220.	0.6	21

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91	Distribution and genesis of Fahlerden (Albeluvisols) in Germany. Journal of Plant Nutrition and Soil Science, 2006, 169, 420-433.	1.1	40
92	Occurrence, formation, and micromorphology of gypsum in soils from the Central-German Chernozem region. Geoderma, 2005, 129, 230-250.	2.3	23
93	Late Weichselian landscape development and human settlement in Mecklenburg-Vorpommern (NE) Tj ETQq1 1 0.784314 rgBT /Overl	0.2	7
94	Micromorphology and Late Glacial/Holocene genesis of Luvisols in Mecklenburg-Vorpommern (NE-Germany). Catena, 2003, 54, 537-555.	2.2	60
95	Zur Mikromorphologie und Genese lessivierter BÄrden im JungmorÄnengebiet Schleswig-Holsteins und Mecklenburg-Vorpommerns. E&G Quaternary Science Journal, 2002, 51, 74-92.	0.2	1
96	Soil micromorphogenesis and Early Holocene paleoclimate at the desert margin of Southern Arabia .. Spanish Journal of Soil Science, 0, 3, .	0.0	1