

# Hans-Peter Kaul

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

2,432  
citations

236833

25  
h-index

223716

46  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Management of crop water under drought: a review. <i>Agronomy for Sustainable Development</i> , 2015, 35, 401-442.	2.2	368
2	Coarse and fine root plants affect pore size distributions differently. <i>Plant and Soil</i> , 2014, 380, 133-151.	1.8	200
3	Cover crop evapotranspiration under semi-arid conditions using FAO dual crop coefficient method with water stress compensation. <i>Agricultural Water Management</i> , 2007, 93, 85-98.	2.4	103
4	Yield and nitrogen utilization efficiency of the pseudocereals amaranth, quinoa, and buckwheat under differing nitrogen fertilization. <i>European Journal of Agronomy</i> , 2005, 22, 95-100.	1.9	100
5	Root induced changes of effective 1D hydraulic properties in a soil column. <i>Plant and Soil</i> , 2014, 381, 193-213.	1.8	95
6	Estimation of runoff mitigation by morphologically different cover crop root systems. <i>Journal of Hydrology</i> , 2016, 538, 667-676.	2.3	86
7	Environmental and management influences on temporal variability of near saturated soil hydraulic properties. <i>Geoderma</i> , 2013, 204-205, 120-129.	2.3	76
8	Nitrogen uptake, use and utilization efficiency by oat-pea intercrops. <i>Field Crops Research</i> , 2015, 179, 113-119.	2.3	70
9	Developing phosphorus-efficient crop varieties—An interdisciplinary research framework. <i>Field Crops Research</i> , 2014, 162, 87-98.	2.3	68
10	Field quantification of wetting-drying cycles to predict temporal changes of soil pore size distribution. <i>Soil and Tillage Research</i> , 2013, 133, 1-9.	2.6	65
11	Natural and management-induced dynamics of hydraulic conductivity along a cover-cropped field slope. <i>Geoderma</i> , 2008, 146, 317-325.	2.3	57
12	Sowing ratio and N fertilization affect yield and yield components of oat and pea in intercrops. <i>Field Crops Research</i> , 2014, 155, 159-163.	2.3	57
13	A statistical approach to root system classification. <i>Frontiers in Plant Science</i> , 2013, 4, 292.	1.7	55
14	Rhizobium Impacts on Seed Productivity, Quality, and Protection of <i>Pisum sativum</i> upon Disease Stress Caused by <i>Didymella pinodes</i> : Phenotypic, Proteomic, and Metabolomic Traits. <i>Frontiers in Plant Science</i> , 2017, 8, 1961.	1.7	55
15	Wheat root diversity and root functional characterization. <i>Plant and Soil</i> , 2014, 380, 211-229.	1.8	53
16	Plastid expression of a double-pentameric vaccine candidate containing human papillomavirus L1 antigen fused with LTB as adjuvant: transplastomic plants show pleiotropic phenotypes. <i>Plant Biotechnology Journal</i> , 2011, 9, 651-660.	4.1	49
17	Transplastomic expression of a modified human papillomavirus L1 protein leading to the assembly of capsomeres in tobacco: a step towards cost-effective second-generation vaccines. <i>Transgenic Research</i> , 2011, 20, 271-282.	1.3	49
18	Improved evaluation of cover crop species by growth and root factors. <i>Agronomy for Sustainable Development</i> , 2010, 30, 455-464.	2.2	46

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19	Microbial symbionts affect <i>Pisum sativum</i> proteome and metabolome under <i>Didymella pinodes</i> infection. <i>Journal of Proteomics</i> , 2016, 143, 173-187.	1.2	42
20	Improving the energy balance of bioethanol production from winter cereals: the effect of crop production intensity. <i>Applied Energy</i> , 2001, 68, 51-67.	5.1	41
21	Costs of bioethanol production from winter cereals: the effect of growing conditions and crop production intensity levels. <i>Industrial Crops and Products</i> , 2002, 15, 91-102.	2.5	35
22	Dissection of drought response of modern and underutilized wheat varieties according to Passioura's yield-water framework. <i>Frontiers in Plant Science</i> , 2015, 6, 570.	1.7	33
23	Competition and yield in intercrops of maize and sunflower for biogas. <i>Industrial Crops and Products</i> , 2011, 34, 1203-1211.	2.5	31
24	Key metabolic traits of <i>Pisum sativum</i> maintain cell vitality during <i>Didymella pinodes</i> infection: cultivar resistance and the microsymbionts' influence. <i>Journal of Proteomics</i> , 2017, 169, 189-201.	1.2	31
25	Productivity and nutrient use efficiency with integrated fertilization of buckwheat–fenugreek intercrops. <i>Nutrient Cycling in Agroecosystems</i> , 2018, 110, 407-425.	1.1	29
26	Optimum crop densities for potential yield and harvestable yield of grain amaranth are conflicting. <i>European Journal of Agronomy</i> , 2008, 28, 119-125.	1.9	28
27	Energy efficiency of winter wheat in a long-term tillage experiment under Pannonian climate conditions. <i>European Journal of Agronomy</i> , 2019, 103, 24-31.	1.9	27
28	Grain Yields of Perennial Grain Crops in Pure and Mixed Stands. <i>Journal of Agronomy and Crop Science</i> , 2002, 188, 342-349.	1.7	26
29	Dry matter and nitrogen accumulation and residues of oil and protein crops. <i>European Journal of Agronomy</i> , 1996, 5, 137-147.	1.9	18
30	Germination of grain amaranth ( <i>Amaranthus hypochondriacus</i> – <i>A. hybridus</i> ): effects of seed quality, temperature, light, and pesticides. <i>European Journal of Agronomy</i> , 1998, 8, 127-135.	1.9	18
31	Winter wheat yields in a long-term tillage experiment under Pannonian climate conditions. <i>Plant, Soil and Environment</i> , 2015, 61, 145-150.	1.0	18
32	Agronomic potential of winter grain legumes for Central Europe: Development, soil coverage and yields. <i>Field Crops Research</i> , 2019, 241, 107576.	2.3	18
33	A Proteomic Workflow Using High-Throughput De Novo Sequencing Towards Complementation of Genome Information for Improved Comparative Crop Science. <i>Methods in Molecular Biology</i> , 2016, 1394, 233-243.	0.4	18
34	Reprint of “Developing phosphorus-efficient crop varieties” An interdisciplinary research framework. <i>Field Crops Research</i> , 2014, 165, 49-60.	2.3	17
35	Concentrations and uptake of macronutrients by oat and pea in intercrops in response to N fertilization and sowing ratio. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 1236-1249.	1.3	16
36	Effects of sowing depth and soil conditions on seedling emergence of amaranth and quinoa. <i>European Journal of Agronomy</i> , 1994, 3, 205-210.	1.9	15

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37	Nitrogen efficiency components of winter cereals. <i>European Journal of Agronomy</i> , 1996, 5, 115-124.	1.9	15
38	Nitrogen yield and nitrogen fixation of winter faba beans. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 658-666.	0.3	15
39	Assessing the impact of climate change on crop management in winter wheat – a case study for Eastern Austria. <i>Journal of Agricultural Science</i> , 2016, 154, 1153-1170.	0.6	15
40	Efficiency of Mineral Nitrogen Fertilization in Winter Wheat under Pannonian Climate Conditions. <i>Agriculture (Switzerland)</i> , 2020, 10, 541.	1.4	15
41	Double-cropping systems based on rye, maize and sorghum: Impact of variety and harvesting time on biomass and biogas yield. <i>European Journal of Agronomy</i> , 2019, 110, 125934.	1.9	14
42	Effect of Organic Fertilizers on Antioxidant Activity and Bioactive Compounds of Fenugreek Seeds in Intercropped Systems with Buckwheat. <i>Agronomy</i> , 2019, 9, 367.	1.3	13
43	Nitrogen Concentrations and Nitrogen Yields of Above-Ground Dry Matter of Chickpea during Crop Growth Compared to Pea, Barley and Oat in Central Europ. <i>Turkish Journal of Field Crops</i> , 2014, 19, 136.	0.2	12
44	Potassium fixation in northern Iranian paddy soils. <i>Geoderma</i> , 2020, 375, 114475.	2.3	11
45	Nitrogen Yields and Biological Nitrogen Fixation of Winter Grain Legumes. <i>Agronomy</i> , 2021, 11, 681.	1.3	10
46	GENETIC DIVERSITY FOR SOME NUTRITIVE TRAITS OF CHICKPEA ( <i>Cicer arietinum</i> L.) FROM DIFFERENT REGIONS IN KOSOVA. <i>Turkish Journal of Field Crops</i> , 2016, 21, 154.	0.2	10
47	Basic soil chemical properties after 15 years in a long-term tillage and crop rotation experiment. <i>International Agrophysics</i> , 2020, 1, 133-140.	0.7	10
48	Selection Criteria for Short-fibre Flax. <i>Plant Breeding</i> , 1994, 113, 130-136.	1.0	9
49	Grain yield formation and nitrogen uptake of amaranth. <i>European Journal of Agronomy</i> , 1995, 4, 379-386.	1.9	9
50	Strahlungsnutzung durch Bestände olreicher Kornerfruchtarten - Winterraps, Ollein und Sonnenblume im Vergleich. <i>Journal of Agronomy and Crop Science</i> , 2000, 184, 277-286.	1.7	9
51	Development, growth, and nitrogen use of autumn- and spring-sown facultative wheat. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 6-13.	0.3	9
52	Seed Metabolism and Pathogen Resistance Enhancement in <i>Pisum sativum</i> During Colonization of Arbuscular Mycorrhizal Fungi: An Integrative Metabolomics-Proteomics Approach. <i>Frontiers in Plant Science</i> , 2020, 11, 872.	1.7	9
53	Effect of tillage systems on energy input and energy efficiency for sugar beet and soybean under Pannonian climate conditions. <i>Plant, Soil and Environment</i> , 2021, 67, 137-146.	1.0	9
54	Selenium supply affects chlorophyll concentration and biomass production of maize ( <i>Zea mays</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 1	0.1	9

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55	Effect of row spacing, seeding rate and nitrogen fertilization on yield and yield components of soybean. <i>Bodenkultur</i> , 2019, 70, 221-236.	0.1	9
56	Sustainability Estimation of Oat:Pea Intercrops from the Agricultural Life Cycle Assessment Perspective. <i>Agronomy</i> , 2021, 11, 2433.	1.3	8
57	Untersuchungen zur Anpassung des Stickstoff-Angebots aus unterschiedlichen N-Quellen an den Verlauf der N-Aufnahme von Maisbeständen. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1996, 159, 471-478.	0.4	7
58	Broiler litter and inorganic fertilizer effects on seed yield and productivity of buckwheat and fenugreek in row intercropping. <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 1121-1136.	1.3	7
59	Antioxidant capacity and polyphenols in buckwheat seeds from fenugreek/buckwheat intercrops as influenced by fertilization. <i>Journal of Cereal Science</i> , 2018, 84, 142-150.	1.8	7
60	Energy Efficiency of Continuous Rye, Rotational Rye and Barley in Different Fertilization Systems in a Long-Term Field Experiment. <i>Agronomy</i> , 2021, 11, 229.	1.3	7
61	Optimierung der Produktion von Wintergetreide zur Bioethanolherstellung durch unterschiedlich intensive Anbauverfahren. <i>Journal of Agronomy and Crop Science</i> , 2000, 185, 55-65.	1.7	6
62	Limited winter survival and compensation mechanisms of yield components constrain winter faba bean production in Central Europe. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 496-505.	0.3	6
63	Phylloxera effects on the sink activity and assimilation rate in phylloxera ( <i>Daktulosphaira</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	6
64	Common Ragweed ( <i>Ambrosia artemisiifolia</i> L.) Causes Severe Yield Losses in Soybean and Impairs <i>Bradyrhizobium japonicum</i> Infection. <i>Agronomy</i> , 2021, 11, 1616.	1.3	6
65	Do cover crops enhance soil greenhouse gas losses during high emission moments under temperate Central Europe conditions?. <i>Bodenkultur</i> , 2018, 68, 171-187.	0.1	6
66	Effects of water supply on root traits and biological yield of Durum ( <i>Triticum durum</i> Desf.) and Khorasan ( <i>Triticum turanicum</i> Jakubz) wheat. <i>Plant Biosystems</i> , 2014, 148, 1009-1015.	0.8	5
67	Concentrations and uptake of micronutrients by oat and pea in intercrops in response to N fertilization and sowing ratio. <i>Bodenkultur</i> , 2016, 67, 1-15.	0.1	5
68	A low nitrogen fertiliser rate in oat-pea intercrops does not impair N fixation. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2021, 71, 182-190.	0.3	5
69	Growth analysis and land equivalent ratio of fenugreek-buckwheat intercrops at different fertilizer types. <i>Bodenkultur</i> , 2018, 69, 105-119.	0.1	5
70	Yield structure components of autumn- and spring-sown pea ( <i>Pisum sativum</i> L.). <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2020, 70, 109-116.	0.3	4
71	Comparison of energy inputs and energy efficiency for maize in a long-term tillage experiment under Pannonian climate conditions. <i>Plant, Soil and Environment</i> , 2021, 67, 299-306.	1.0	4
72	Effect of seed size on soil cover, yield, yield components and nitrogen uptake of two-row malting barley. <i>Bodenkultur</i> , 2019, 70, 89-98.	0.1	4

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73	Exchangeable and Plant-Available Macronutrients in a Long-Term Tillage and Crop Rotation Experiment after 15 Years. <i>Plants</i> , 2022, 11, 565.	1.6	3
74	Productivity of wheat ( <i>Triticum aestivum</i> L.) intercropped with rapeseed ( <i>Brassica napus</i> L.). <i>Canadian Journal of Plant Science</i> , 2016, , .	0.3	2
75	<i>Didymella pinodes</i> Affects N and P Uptakes and Their Efficiencies in a Tripartite Mutualism of Pea. <i>Agronomy</i> , 2019, 9, 52.	1.3	1
76	On the Importance of Soybean Seed P for Shoot P Uptake before Anthesis. <i>Agronomy</i> , 2021, 11, 1233.	1.3	1
77	Autumn sowing of facultative triticale results in higher biomass production and nitrogen uptake compared to spring sowing. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2021, 71, 806-814.	0.3	1
78	Effect of two seeding rates on yield and yield components of winter and spring faba bean. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2022, 72, 496-505.	0.3	1
79	Effects of plant strengthening agents on horticultural crops. <i>Acta Horticulturae</i> , 2016, , 11-18.	0.1	0
80	Laboratory Setup for Sensing Root-Induced Changes of Soil Hydraulic Properties in Soil Columns. <i>International Journal of Plant &amp; Soil Science</i> , 2015, 8, 1-20.	0.2	0