

Michal Hejzman

List of Publications by Year in descending order

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109
papers

2,806
citations

172207

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h-index

243296

44
g-index

109
all docs

109
docs citations

109
times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	Can Wood Ashes of Commonly Planted Tree Species in Ghana be Applied as Fertilizers?. Waste and Biomass Valorization, 2022, 13, 1043-1058.	1.8	2
2	The contribution of POSL and PXRF to the discussion on sedimentary and site formation processes in archaeological contexts of the southern Levant and the interpretation of biblical strata at Tel Burna. Quaternary International, 2022, 618, 24-34.	0.7	14
3	The Admont Grassland Experiment: 70 years of fertilizer application and its effects on soil and vegetation properties in an alluvial meadow managed under a three-cut regime. Science of the Total Environment, 2022, 808, 152081.	3.9	6
4	Current coronavirus crisis and past pandemics - What can happen in post-COVID-19 agriculture?. Sustainable Production and Consumption, 2022, 30, 752-760.	5.7	21
5	Distribution of micro- (Fe, Zn, Cu, and Mn) and risk (Al, As, Cr, Ni, Pb, and Cd) elements in the organs of Rumex alpinus L. in the Alps and Krkonoše Mountains. Plant and Soil, 2022, 477, 553-575.	1.8	6
6	A medieval hillfort as an island of extraordinary fertile Archaeological Dark Earth soil in the Czech Republic. European Journal of Soil Science, 2021, 72, 98-113.	1.8	15
7	Seasonal fluctuations of Zn, Pb, As and Cd contents in the biomass of selected grass species growing on contaminated soils: Implications for in situ phytostabilization. Science of the Total Environment, 2020, 703, 134710.	3.9	16
8	Historical land-use in an abandoned mountain village in the Czech Republic is reflected by the Mg, P, K, Ca, V, Cr, Mn, Fe, Ni, Cu, Zn, Rb, Zr, and Sr content in contemporary soils. Catena, 2020, 187, 104347.	2.2	12
9	Human burials can affect soil elemental composition for millennia – analysis of necrosols from the Corded Ware Culture graveyard in the Czech Republic. Archaeological and Anthropological Sciences, 2020, 12, 1.	0.7	12
10	Analysis of physical and chemical characteristics of Anthrosols – The case of former Bremen missionary – settlement in Ghana. Soil Use and Management, 2020, , .	2.6	1
11	Traces of German and British settlement in soils of the Volta Region of Ghana. Geoderma Regional, 2020, 21, e00270.	0.9	6
12	Response of grassland vegetation composition to different fertilizer treatments recorded over ten years following 64 years of fertilizer applications in the Rengen Grassland Experiment. Applied Vegetation Science, 2020, 23, 417-427.	0.9	11
13	The effect of soil-climate conditions on yielding parameters, chemical composition and baking quality of ancient wheat species <i>Triticum monococcum</i> L., <i>Triticum dicoccum</i> Schrank and <i>Triticum spelt</i> L. in comparison with modern <i>Triticum aestivum</i> L.. Archives of Agronomy and Soil Science, 2019, 65, 152-163.	1.3	12
14	Drivers of diet selection of critically endangered Western Derby eland during the food shortage period within conservation breeding in Senegal. Scientific Reports, 2019, 9, 8712.	1.6	4
15	Long-term effects of mulching, traditional cutting and no management on plant species composition of improved upland grassland in the Czech Republic. Grass and Forage Science, 2019, 74, 463-475.	1.2	14
16	Calcium plus magnesium indicates digestibility: the significance of the second major axis of plant chemical variation for ecological processes. Ecology Letters, 2018, 21, 885-895.	3.0	31
17	Nutrient status of soil and winter wheat (<i>Triticum aestivum</i> L.) in response to long-term farmyard manure application under different climatic and soil physicochemical conditions in the Czech Republic. Archives of Agronomy and Soil Science, 2018, 64, 70-83.	1.3	11
18	Multi-element mapping of anthropogenically modified soils and sediments at the Bronze to Iron Ages site of Tel Burna in the southern Levant. Quaternary International, 2018, 483, 111-123.	0.7	29

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19	Soil geochemistry of medieval arable fields in Lovčín near Tábor, Czech Republic. <i>Catena</i> , 2018, 162, 14-22.	2.2	25
20	Regulation of macro, micro, and toxic element uptake by <i>Salix smithiana</i> using liming of heavily contaminated soils. <i>Journal of Soils and Sediments</i> , 2017, 17, 1279-1290.	1.5	3
21	Ancient settlement activities as important sources of nutrients (P, K, S, Zn and Cu) in Eastern Mediterranean ecosystems – The case of biblical Tel Burna, Israel. <i>Catena</i> , 2017, 156, 62-73.	2.2	41
22	EFFECT OF ROCK PHOSPHATE AND SUPERPHOSPHATE APPLICATION ON MOBILITY OF ELEMENTS (Cd, Zn, Pb) Tj ETQq0 0 0 rgBT /Over 2901-2910.	0.2	2
23	Forage quality of leaf fodder from the main woody species in Iceland and its potential use for livestock in the past and present. <i>Grass and Forage Science</i> , 2016, 71, 649-658.	1.2	24
24	Effects of Sewage Sludge Application on Biomass Production and Concentrations of Cd, Pb and Zn in Shoots of <i>Salix</i> and <i>Populus</i> Clones: Improvement of Phytoremediation Efficiency in Contaminated Soils. <i>Bioenergy Research</i> , 2016, 9, 809-819.	2.2	30
25	800 years of mining and smelting in Kutná Hora region (the Czech Republic) – spatial and multivariate meta-analysis of contamination studies. <i>Journal of Soils and Sediments</i> , 2016, 16, 1584-1598.	1.5	19
26	Mobility and plant availability of risk elements in soil after long-term application of farmyard manure. <i>Environmental Science and Pollution Research</i> , 2016, 23, 23561-23572.	2.7	10
27	Phosphorus limitation relates to diet selection of sheep and goats on dry calcareous grassland. <i>Applied Vegetation Science</i> , 2016, 19, 101-110.	0.9	6
28	Long-term agricultural management maximizing hay production can significantly reduce belowground C storage. <i>Agriculture, Ecosystems and Environment</i> , 2016, 220, 104-114.	2.5	32
29	Genetic and leaf-trait variability of <i>Vinca minor</i> at ancient and recent localities in Central Europe. <i>Biochemical Systematics and Ecology</i> , 2016, 64, 22-30.	0.6	1
30	What is the effect of long-term mulching and traditional cutting regimes on soil and biomass chemical properties, species richness and herbage production in <i>Dactylis glomerata</i> grassland?. <i>Agriculture, Ecosystems and Environment</i> , 2016, 217, 13-21.	2.5	22
31	Kernel Weights of <i>Triticum</i> , <i>Hordeum</i> , <i>Avena</i> , <i>Secale</i> and <i>Panicum</i> Species can be used for Better Estimation of Importance of Different Cereal Species in Archaeobotanical Assemblages. <i>Interdisciplinaria Archaeologica</i> , 2016, VII, 189-196.	0.3	2
32	Sward-height patches under intensive and extensive grazing density in an <i>Agrostis capillaris</i> grassland. <i>Folia Geobotanica</i> , 2015, 50, 219-228.	0.4	16
33	High-nature-value grasslands have the capacity to cope with nutrient impoverishment induced by mowing and livestock grazing. <i>Journal of Applied Ecology</i> , 2015, 52, 1073-1081.	1.9	34
34	Aluminium Uptake and Translocation in Al Hyperaccumulator <i>Rumex obtusifolius</i> Is Affected by Low-Molecular-Weight Organic Acids Content and Soil pH. <i>PLoS ONE</i> , 2015, 10, e0123351.	1.1	21
35	Seasonal development of above- and below-ground organs of <i>Trifolium pratense</i> in grass-legume mixture on different soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 13-24.	1.1	5
36	Origin and development of long-strip field patterns: A case study of an abandoned medieval village in the Czech Republic. <i>Catena</i> , 2015, 135, 83-91.	2.2	16

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37	Effect of cattle slurry on soil and herbage chemical properties, yield, nutrient balance and plant species composition of moderately dry Arrhenatherion grassland. <i>Agriculture, Ecosystems and Environment</i> , 2015, 213, 281-289.	2.5	14
38	Soil chemical properties, plant species composition, herbage quality, production and nutrient uptake of an alluvial meadow after 45 years of N, P and K application. <i>Grass and Forage Science</i> , 2015, 70, 205-218.	1.2	11
39	Distribution of P, K, Ca, Mg, Cd, Cu, Fe, Mn, Pb and Zn in wood and bark age classes of willows and poplars used for phytoextraction on soils contaminated by risk elements. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18801-18813.	2.7	51
40	Effect of fertilizer application, soil type, and year on yield and technological parameters of winter wheat (<i>Triticum aestivum</i>) in the Czech Republic. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 33-53.	1.3	12
41	Yield and Nutritive Value of Grain, Glumes and Straw of <i>Triticum dicoccum</i> Produced by Prehistoric Technology in Comparison to <i>T. aestivum</i> Produced by Modern Technology. <i>Interdisciplinaria Archaeologica</i> , 2015, VI, 31-45.	0.3	6
42	Biological control of <i>Rumex obtusifolius</i> and <i>Rumex crispus</i> by goat grazing. <i>Weed Biology and Management</i> , 2014, 14, 115-120.	0.6	15
43	Soil chemical properties affect the concentration of elements (N, P, K, Ca, Mg, As, Cd, Cr, Cu, Fe, Mn, Ni). <i>Tj ETQq1 1 0.784314 rgBT /Ov</i> 231-245.	1.8	22
44	Nutritive value of winter-collected annual twigs of main European woody species, mistletoe and ivy and its possible consequences for winter foddering of livestock in prehistory. <i>Holocene</i> , 2014, 24, 659-667.	0.9	24
45	Long term defoliation by cattle grazing with and without trampling differently affects soil penetration resistance and plant species composition in <i>Agrostis capillaris</i> grassland. <i>Agriculture, Ecosystems and Environment</i> , 2014, 197, 204-211.	2.5	39
46	Forage quality of leaf-fodder from the main broad-leaved woody species and its possible consequences for the Holocene development of forest vegetation in Central Europe. <i>Vegetation History and Archaeobotany</i> , 2014, 23, 607-613.	1.0	29
47	The Steinach Grassland Experiment: Soil chemical properties, sward height and plant species composition in three cut alluvial meadow after decades-long fertilizer application. <i>Agriculture, Ecosystems and Environment</i> , 2014, 184, 76-87.	2.5	26
48	Effect of fertilizer application on <i>Urtica dioica</i> and its element concentrations in a cut grassland. <i>Acta Oecologica</i> , 2014, 59, 1-6.	0.5	11
49	Prehistoric settlement activities changed soil pH, nutrient availability, and growth of contemporary crops in Central Europe. <i>Plant and Soil</i> , 2013, 369, 131-140.	1.8	20
50	How does elevated grassland productivity influence populations of root hemiparasites? Commentary on Borowicz and Armstrong (<i>Oecologia</i> 2012). <i>Oecologia</i> , 2013, 172, 933-936.	0.9	14
51	Short-Term Medieval Settlement Activities Irreversibly Changed Forest Soils and Vegetation in Central Europe. <i>Ecosystems</i> , 2013, 16, 652-663.	1.6	37
52	Does Supplemental Feeding Affect Behaviour and Foraging of Critically Endangered Western Giant Eland in an <i>ex situ</i> Conservation Site?. <i>African Zoology</i> , 2013, 48, 250-258.	0.2	2
53	What questions can be answered by chemical analysis of recent and paleosols from the Bell Beaker barrow (2500-2200 BC), Central Moravia, Czech Republic?. <i>Quaternary International</i> , 2013, 316, 179-189.	0.7	28
54	Long-term effects of different mulching and cutting regimes on plant species composition of <i>Festuca rubra</i> grassland. <i>Agriculture, Ecosystems and Environment</i> , 2013, 178, 10-17.	2.5	18

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55	Relationship between soil and biomass chemical properties, herbage yield and sward height in cut and unmanaged mountain hay meadow (<i>Polygonum-Trisetion</i>). <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2013, 208, 599-608.	0.6	23
56	Effect of phosphorus availability on the selection of species with different ploidy levels and genome sizes in a long-term grassland fertilization experiment. <i>New Phytologist</i> , 2013, 200, 911-921.	3.5	106
57	Growth, healthy status and seed production of differently aged allochthonous and autochthonous <i>Pinus mugo</i> stands in the Giant Mts. over 30 years. <i>European Journal of Forest Research</i> , 2013, 132, 801-813.	1.1	5
58	Does supplemental feeding affect behaviour and foraging of critically endangered western giant eland in an <i>ex situ</i> conservation site?. <i>African Zoology</i> , 2013, 48, 250-258.	0.2	5
59	Grazing behavior and performance of beef cattle as a function of sward structure and herbage quality under rotational and continuous stocking on species-rich upland pasture. <i>Animal Science Journal</i> , 2013, 84, 622-629.	0.6	14
60	Origin and history of grasslands in Central Europe – a review. <i>Grass and Forage Science</i> , 2013, 68, 345-363.	1.2	184
61	Soil phosphorus fractions after seven decades of fertilizer application in the Rengen Grassland Experiment. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 910-920.	1.1	55
62	Activity time budget patterns of sheep and goats co-grazing on semi-natural species-rich dry grassland. <i>Czech Journal of Animal Science</i> , 2013, 58, 208-216.	0.5	12
63	Plant Trait Assembly Affects Superiority of Grazer's Foraging Strategies in Species-Rich Grasslands. <i>PLoS ONE</i> , 2013, 8, e69800.	1.1	20
64	Does a change in land use affect woody vegetation in sub-humid sudanian savanna in Senegal?. <i>Scientia Agriculturae Bohemica</i> , 2013, 44, 209-217.	0.3	2
65	Sustainability of winter wheat production over 50 years of crop rotation and N, P and K fertilizer application on illimerized luvisol in the Czech Republic. <i>Field Crops Research</i> , 2012, 139, 30-38.	2.3	47
66	Effect of nitrogen, phosphorus and potassium availability on emergence, nodulation and growth of acidophile <i>Trifolium arvense</i> L. in alkaline soil. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012, 207, 805-811.	0.6	9
67	Cropmarks in main field crops enable the identification of a wide spectrum of buried features on archaeological sites in Central Europe. <i>Journal of Archaeological Science</i> , 2012, 39, 1655-1664.	1.2	44
68	Vegetative reproduction of <i>Picea abies</i> by artificial layering at the ecotone of the alpine timberline in the Giant (KrkonoÅje) Mountains, Czech Republic. <i>Forest Ecology and Management</i> , 2012, 263, 199-207.	1.4	19
69	Response of plant species composition, biomass production and biomass chemical properties to high N, P and K application rates in <i>Dactylis glomerata</i> and <i>Festuca arundinacea</i> -dominated grassland. <i>Grass and Forage Science</i> , 2012, 67, 488-506.	1.2	33
70	Effect of fertiliser application and abandonment on plant species composition of <i>Festuca rubra</i> grassland. <i>Acta Oecologica</i> , 2012, 45, 42-49.	0.5	25
71	Performance and Mortality of <i>Rumex obtusifolius</i> and <i>R. crispus</i> in Managed Grasslands are Affected by Nutrient Availability. <i>Folia Geobotanica</i> , 2012, 47, 293-304.	0.4	11
72	Effects of nutrient availability on performance and mortality of <i>Rumex obtusifolius</i> and <i>R. crispus</i> in unmanaged grassland. <i>Journal of Pest Science</i> , 2012, 85, 191-198.	1.9	8

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73	Natural layering, foliation, fertility and plant species composition of a <i>Fagus sylvatica</i> stand above the alpine timberline in the Giant (KrkonoÅ¡e) Mts., Czech Republic. <i>European Journal of Forest Research</i> , 2012, 131, 799-810.	1.1	22
74	Root system variability in common legumes in Central Europe. <i>Biologia (Poland)</i> , 2012, 67, 116-125.	0.8	9
75	Effect of long-term cutting versus abandonment on the vegetation of a mountain hay meadow (Polygonum-Trisetion) in Central Europe. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2011, 206, 1020-1029.	0.6	32
76	Production, size, and germination of broad-leaved dock seeds collected from mother plants grown under different nitrogen, phosphorus, and potassium supplies. <i>Weed Biology and Management</i> , 2011, 11, 190-201.	0.6	19
77	Ancient waste pits with wood ash irreversibly increase crop production in Central Europe. <i>Plant and Soil</i> , 2011, 339, 341-350.	1.8	25
78	Suckling behavior of eland antelopes (<i>Taurotragus</i> spp.) under semi-captive and farm conditions. <i>Journal of Ethology</i> , 2011, 29, 161-168.	0.4	15
79	Community Seasonal Development Enables Late Defoliation Without Loss of Forage Quality in Semi-natural Grasslands. <i>Folia Geobotanica</i> , 2011, 46, 17-34.	0.4	21
80	Regeneration of <i>Nardus stricta</i> subalpine grasslands in the Giant Mountains (KrkonoÅ¡e). <i>Acta Societatis Botanicorum Poloniae</i> , 2011, 74, 247-252.	0.8	10
81	Farmer decision making and its effect on subalpine grassland succession in the Giant Mts., Czech Republic. <i>Acta Societatis Botanicorum Poloniae</i> , 2011, 75, 165-174.	0.8	17
82	Exclusion of livestock grazing and wood collection in dryland savannah: an effect on long-term vegetation succession. <i>African Journal of Ecology</i> , 2010, 48, 408-417.	0.4	26
83	Cropmarks in stands of cereals, legumes and winter rape indicate sub-soil archaeological features in the agricultural landscape of Central Europe. <i>Agriculture, Ecosystems and Environment</i> , 2010, 138, 348-354.	2.5	21
84	Diet Composition of Western Derby eland (<i>Taurotragus Derbianus Derbianus</i>) in the Dry Season in a Natural and a Managed Habitat in Senegal using Faecal Analyses. <i>South African Journal of Wildlife Research</i> , 2010, 40, 27-34.	1.4	17
85	The Rengen Grassland Experiment: Effect of Soil Chemical Properties on Biomass Production, Plant Species Composition and Species Richness. <i>Folia Geobotanica</i> , 2010, 45, 125-142.	0.4	63
86	The Rengen Grassland Experiment: relationship between soil and biomass chemical properties, amount of elements applied, and their uptake. <i>Plant and Soil</i> , 2010, 333, 163-179.	1.8	74
87	The Rengen Grassland experiment: bryophytes biomass and element concentrations after 65 years of fertilizer application. <i>Environmental Monitoring and Assessment</i> , 2010, 166, 653-662.	1.3	24
88	Yield development of winter wheat over 50 years of nitrogen, phosphorus and potassium application on greyic Phaeozem in the Czech Republic. <i>European Journal of Agronomy</i> , 2010, 33, 166-174.	1.9	39
89	Long-term effects of cutting frequency and liming on soil chemical properties, biomass production and plant species composition of <i>Lolium-Cynosuretum</i> grassland after the cessation of fertilizer application. <i>Applied Vegetation Science</i> , 2010, 13, 257-269.	0.9	44
90	Mechanical weeding of <i>Rumex obtusifolius</i> L. under different N, P and K availabilities in permanent grassland. <i>Plant, Soil and Environment</i> , 2010, 56, 393-399.	1.0	16

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91	Sustainability of winter wheat production on sandy-loamy Cambisol in the Czech Republic: Results from a long-term fertilizer and crop rotation experiment. <i>Field Crops Research</i> , 2010, 115, 191-199.	2.3	41
92	Multivariate analysis of relationship between potato (<i>Solanum tuberosum</i> L.) yield, amount of applied elements, their concentrations in tubers and uptake in a long-term fertilizer experiment. <i>Field Crops Research</i> , 2010, 118, 183-193.	2.3	58
93	Control of <i>Molinia caerulea</i> by cutting management on sub-alpine grassland. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2010, 205, 577-582.	0.6	21
94	<i>Dactylorhiza maculata</i> , <i>Platanthera bifolia</i> and <i>Listera ovata</i> survive N application under P limitation. <i>Acta Oecologica</i> , 2010, 36, 684-688.	0.5	13
95	Behavioural patterns of heifers under intensive and extensive continuous grazing on species-rich pasture in the Czech Republic. <i>Applied Animal Behaviour Science</i> , 2009, 117, 137-143.	0.8	30
96	Effect of soil chemical properties on growth, foliation and nutrition of Norway spruce stand affected by yellowing in the Bohemian Forest Mts., Czech Republic. <i>European Journal of Forest Research</i> , 2009, 128, 367-375.	1.1	24
97	Cover estimation versus density counting in species-rich pasture under different grazing intensities. <i>Environmental Monitoring and Assessment</i> , 2009, 156, 419-424.	1.3	7
98	The Rengen Grassland Experiment: soil contamination by trace elements after 65 years of Ca, N, P and K fertiliser application. <i>Nutrient Cycling in Agroecosystems</i> , 2009, 83, 39-50.	1.1	28
99	Long-term residual effect of short-term fertilizer application on Ca, N and P concentrations in grasses <i>Nardus stricta</i> L. and <i>Avenella flexuosa</i> L.. <i>Nutrient Cycling in Agroecosystems</i> , 2009, 85, 187-193.	1.1	14
100	Concentration of trace elements in arable soil after long-term application of organic and inorganic fertilizers. <i>Nutrient Cycling in Agroecosystems</i> , 2009, 85, 241-252.	1.1	64
101	Changes in vegetation types and Ellenberg indicator values after 65 years of fertilizer application in the Rengen Grassland Experiment, Germany. <i>Applied Vegetation Science</i> , 2009, 12, 167-176.	0.9	70
102	Expansion of <i>Calamagrostis villosa</i> in sub-alpine <i>Nardus stricta</i> grassland: Cessation of cutting management or high nitrogen deposition?. <i>Agriculture, Ecosystems and Environment</i> , 2009, 129, 91-96.	2.5	23
103	Long-term dynamics of biomass production, soil chemical properties and plant species composition of alluvial grassland after the cessation of fertilizer application in the Czech Republic. <i>Agriculture, Ecosystems and Environment</i> , 2009, 130, 123-130.	2.5	51
104	Sward structure and diet selection after sheep introduction on abandoned grassland in the Giant Mts, Czech Republic. <i>Biologia (Poland)</i> , 2008, 63, 506-514.	0.8	16
105	The Grass Garden in the Giant Mts. (Czech Republic): Residual effect of long-term fertilization after 62 years. <i>Agriculture, Ecosystems and Environment</i> , 2008, 123, 337-342.	2.5	53
106	Restoration of grazing management and its effect on vegetation in an upland grassland. <i>Applied Vegetation Science</i> , 2007, 10, 375-382.	0.9	72
107	Revisiting a 37 years abandoned fertilizer experiment on <i>Nardus</i> grassland in the Czech Republic. <i>Agriculture, Ecosystems and Environment</i> , 2007, 118, 231-236.	2.5	42
108	The Rengen Grassland Experiment: Plant species composition after 64 years of fertilizer application. <i>Agriculture, Ecosystems and Environment</i> , 2007, 122, 259-266.	2.5	109

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109	Effect of rotational and continuous grazing on vegetation of an upland grassland in the Jizerská hory Mts., Czech Republic. <i>Folia Geobotanica</i> , 2003, 38, 21-34.	0.4	43