

Karl H Mhling

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47
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134
ext. papers

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ext. citations

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L-index

#	Paper	IF	Citations
128	Is the infiltration-centrifugation technique appropriate for the isolation of apoplastic fluid? A critical evaluation with different plant species. <i>Physiologia Plantarum</i> , 2001 , 111, 457-465	4.6	171
127	Proteomic changes in maize roots after short-term adjustment to saline growth conditions. <i>Proteomics</i> , 2010 , 10, 4441-9	4.8	105
126	Contribution of nitrification and denitrification to nitrous oxide emissions from soils after application of biogas waste and other fertilizers. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2489-98	2.2	96
125	The interaction between salinity and boron toxicity affects the subcellular distribution of ions and proteins in wheat leaves. <i>Plant, Cell and Environment</i> , 2003 , 26, 1267-1274	8.4	84
124	The influence of salt stress on ABA and auxin concentrations in two maize cultivars differing in salt resistance. <i>Journal of Plant Physiology</i> , 2013 , 170, 220-4	3.6	83
123	Membrane-associated, boron-interacting proteins isolated by boronate affinity chromatography. <i>Plant and Cell Physiology</i> , 2009 , 50, 1292-304	4.9	79
122	Effect of salt stress on growth and cation compartmentation in leaves of two plant species differing in salt tolerance. <i>Journal of Plant Physiology</i> , 2002 , 159, 137-146	3.6	70
121	Apoplastic Ion Concentration of Intact Leaves of Field Bean (<i>Vicia faba</i>) as Influenced by Ammonium and Nitrate Nutrition. <i>Journal of Plant Physiology</i> , 1995 , 147, 81-86	3.6	70
120	Apoplastic pH of intact leaves of <i>Vicia faba</i> as influenced by light. <i>Journal of Experimental Botany</i> , 1995 , 46, 377-382	7	66
119	Salt stress differentially affects growth-mediating expansins in resistant and sensitive maize (<i>Zea mays</i> L.). <i>Plant Physiology and Biochemistry</i> , 2010 , 48, 993-8	5.4	64
118	Chloride-inducible transient apoplastic alkalinizations induce stomata closure by controlling abscisic acid distribution between leaf apoplast and guard cells in salt-stressed <i>Vicia faba</i> . <i>New Phytologist</i> , 2015 , 208, 803-16	9.8	63
117	Photosynthetic capacity, nutrient status, and growth of maize (<i>Zea mays</i> L.) upon MgSO ₄ leaf-application. <i>Frontiers in Plant Science</i> , 2014 , 5, 781	6.2	59
116	Silicon decreases cadmium concentrations by modulating root endodermal suberin development in wheat plants. <i>Journal of Hazardous Materials</i> , 2019 , 364, 581-590	12.8	57
115	Rapid shift from denitrification to nitrification in soil after biogas residue application as indicated by nitrous oxide isotopomers. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 1671-1677	7.5	53
114	Interaction of NaCl and Cd stress on compartmentation pattern of cations, antioxidant enzymes and proteins in leaves of two wheat genotypes differing in salt tolerance. <i>Plant and Soil</i> , 2003 , 253, 219-231	4.2	52
113	Split Nitrogen Application Improves Wheat Baking Quality by Influencing Protein Composition Rather Than Concentration. <i>Frontiers in Plant Science</i> , 2016 , 7, 738	6.2	51
112	Light-induced pH and K ⁺ changes in the apoplast of intact leaves. <i>Planta</i> , 2000 , 212, 9-15	4.7	47

111	Apoplastic Na ⁺ in <i>Vicia faba</i> Leaves Rises After Short-Term Salt Stress and Is Remedied by Silicon. <i>Journal of Agronomy and Crop Science</i> , 2013 , 199, 161-170	3.9	46
110	Decline in leaf growth under salt stress is due to an inhibition of H ⁺ -pumping activity and increase in apoplastic pH of maize leaves. <i>Journal of Plant Nutrition and Soil Science</i> , 2009 , 172, 535-543	2.3	46
109	Silicon-enhanced oxalate exudation contributes to alleviation of cadmium toxicity in wheat. <i>Environmental and Experimental Botany</i> , 2016 , 131, 10-18	5.9	41
108	Soil denitrification potential and its influence on N ₂ O reduction and N ₂ O isotopomer ratios. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 2363-73	2.2	41
107	Salinity stress in roots of contrasting barley genotypes reveals time-distinct and genotype-specific patterns for defined proteins. <i>Molecular Plant</i> , 2014 , 7, 336-55	14.4	40
106	Salinity stiffens the epidermal cell walls of salt-stressed maize leaves: is the epidermis growth-restricting?. <i>PLoS ONE</i> , 2015 , 10, e0118406	3.7	40
105	Comparative evaluation of extraction methods for apoplastic proteins from maize leaves. <i>Plant Methods</i> , 2011 , 7, 48	5.8	40
104	Does H ⁺ pumping by plasmalemma ATPase limit leaf growth of maize (<i>Zea mays</i>) during the first phase of salt stress?. <i>Journal of Plant Nutrition and Soil Science</i> , 2005 , 168, 550-557	2.3	37
103	Determination of oxidative stress in wheat leaves as influenced by boron toxicity and NaCl stress. <i>Plant Physiology and Biochemistry</i> , 2012 , 56, 56-61	5.4	35
102	Real-Time Imaging of Leaf Apoplastic pH Dynamics in Response to NaCl Stress. <i>Frontiers in Plant Science</i> , 2011 , 2, 13	6.2	35
101	Quantitative protein composition and baking quality of winter wheat as affected by late sulfur fertilization. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 3877-85	5.7	35
100	Growth-Related Changes in Subcellular Ion Patterns in Maize Leaves (<i>Zea mays</i> L.) under Salt Stress. <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 46-56	3.9	34
99	Determination of apoplastic K ⁺ in intact leaves by ratio imaging of PBF1 fluorescence. <i>Journal of Experimental Botany</i> , 1997 , 48, 1609-1614	7	34
98	Apoplastic and membrane-associated Ca ²⁺ in leaves and roots as affected by boron deficiency. <i>Physiologia Plantarum</i> , 1998 , 102, 179-184	4.6	34
97	Ratiometric monitoring of transient apoplastic alkalinizations in the leaf apoplast of living <i>Vicia faba</i> plants: chloride primes and PM-H ⁺ -ATPase shapes NaCl-induced systemic alkalinizations. <i>New Phytologist</i> , 2013 , 197, 1117-1129	9.8	32
96	Emission of N ₂ O from Biogas Crop Production Systems in Northern Germany. <i>Bioenergy Research</i> , 2014 , 7, 1223-1236	3.1	31
95	The apoplastic pH and its significance in adaptation to salinity in maize (<i>Zea mays</i> L.): Comparison of fluorescence microscopy and pH-sensitive microelectrodes. <i>Plant Science</i> , 2009 , 176, 497-504	5.3	31
94	Quantitative proteome analysis of wheat gluten as influenced by N and S nutrition. <i>Plant and Soil</i> , 2010 , 327, 225-234	4.2	31

93	High apoplastic solute concentrations in leaves alter water relations of the halophytic shrub, <i>Sarcobatus vermiculatus</i> . <i>Journal of Experimental Botany</i> , 2006 , 57, 139-47	7	29
92	Increasing root and leaf growth and yield in Mg-deficient faba beans (<i>Vicia faba</i>) by MgSO ₄ foliar fertilization. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 741-747	2.3	28
91	Leaf ion homeostasis and plasma membrane H(+)-ATPase activity in <i>Vicia faba</i> change after extra calcium and potassium supply under salinity. <i>Plant Physiology and Biochemistry</i> , 2014 , 82, 244-53	5.4	27
90	Differential Transcript Expression of Wall-loosening Candidates in Leaves of Maize Cultivars Differing in Salt Resistance. <i>Journal of Plant Growth Regulation</i> , 2011 , 30, 387-395	4.7	27
89	Zinc seed priming improves salt resistance in maize. <i>Journal of Agronomy and Crop Science</i> , 2018 , 204, 390-399	3.9	26
88	Waterlogging events during stem elongation or flowering affect yield of oilseed rape (<i>Brassica napus</i> L.) but not seed quality. <i>Journal of Agronomy and Crop Science</i> , 2018 , 204, 165-174	3.9	26
87	Determination of apoplastic Na ⁺ in intact leaves of cotton by in vivo fluorescence ratio-imaging. <i>Functional Plant Biology</i> , 2002 , 29, 1491-1499	2.7	26
86	Interactive effects of sulfur and nitrogen supply on the concentration of sinigrin and allyl isothiocyanate in Indian mustard (<i>Brassica juncea</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 3837-44	5.7	25
85	The apoplast: its significance for the nutrition of higher plants. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1998 , 161, 485-498		25
84	Zinc distribution and localization in primed maize seeds and its translocation during early seedling development. <i>Environmental and Experimental Botany</i> , 2017 , 143, 91-98	5.9	22
83	Proteome analysis of Fusarium infection in emmer grains (<i>Triticum dicoccum</i>). <i>Plant Pathology</i> , 2011 , 60, 918-928	2.8	22
82	INFLUENCE OF CHEMICAL FORM AND CONCENTRATION OF NITROGEN ON APOPLASTIC pH OF LEAVES. <i>Journal of Plant Nutrition</i> , 2001 , 24, 399-411	2.3	22
81	Isothiocyanate concentration in Kohlrabi (<i>Brassica oleracea</i> L. Var. <i>gongylodes</i>) plants as influenced by sulfur and nitrogen supply. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 8334-42	5.7	21
80	Transcript expression of Mg-chelatase and H ⁺ -ATPase isogenes in <i>Vicia faba</i> leaves as influenced by root and foliar magnesium supply. <i>Plant and Soil</i> , 2013 , 368, 41-50	4.2	20
79	Transient alkalinization in the leaf apoplast of <i>Vicia faba</i> L. depends on NaCl stress intensity: an in situ ratio imaging study. <i>Plant, Cell and Environment</i> , 2012 , 35, 578-87	8.4	20
78	Down-regulation of ZmEXPB6 (<i>Zea mays</i> Expansin 6) protein is correlated with salt-mediated growth reduction in the leaves of <i>Z. mays</i> L. <i>Journal of Biological Chemistry</i> , 2015 , 290, 11235-45	5.4	19
77	Interactive Effects of High Boron and NaCl Stresses on Subcellular Localization of Chloride and Boron in Wheat Leaves. <i>Journal of Agronomy and Crop Science</i> , 2012 , 198, 227-235	3.9	19
76	Early changes of the pH of the apoplast are different in leaves, stem and roots of <i>Vicia faba</i> L. under declining water availability. <i>Plant Science</i> , 2017 , 255, 51-58	5.3	18

75	Bacterially produced Pt-GFP as ratiometric dual-excitation sensor for in planta mapping of leaf apoplastic pH in intact <i>Avena sativa</i> and <i>Vicia faba</i> . <i>Plant Methods</i> , 2014 , 10, 31	5.8	18
74	Glutamine synthetase activity in leaves of <i>Zea mays</i> L. as influenced by magnesium status. <i>Planta</i> , 2015 , 242, 1309-19	4.7	17
73	Fast responses of metabolites in <i>Vicia faba</i> L. to moderate NaCl stress. <i>Plant Physiology and Biochemistry</i> , 2015 , 92, 19-29	5.4	17
72	Time-dependent distribution of sulphur, sulphate and glutathione in wheat tissues and grain as affected by three sulphur fertilization levels and late S fertilization. <i>Journal of Plant Physiology</i> , 2012 , 169, 72-7	3.6	16
71	Influence of Nitrogen Nutrition on Tuber Quality of Potato with Special Reference to the Pathway of Nitrate Transport into Tubers. <i>Journal of Plant Nutrition</i> , 2004 , 27, 341-350	2.3	16
70	Late nitrogen application increased protein concentration but not baking quality of wheat. <i>Journal of Plant Nutrition and Soil Science</i> , 2016 , 179, 591-601	2.3	16
69	Protein Composition and Baking Quality of Wheat Flour as Affected by Split Nitrogen Application. <i>Frontiers in Plant Science</i> , 2019 , 10, 642	6.2	15
68	Comparative proteome analysis of maize (<i>Zea mays</i> L.) expansins under salinity. <i>Journal of Plant Nutrition and Soil Science</i> , 2009 , 172, 75-77	2.3	15
67	Role of Plasmalemma H ⁺ ATPase in Sugar Retention by Roots of Intact Maize and Field Bean Plants. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1993 , 156, 155-161		15
66	Sulfate facilitates cadmium accumulation in leaves of <i>Vicia faba</i> L. at flowering stage. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 156, 375-382	7	14
65	Apoplastic pH and growth in expanding leaves of <i>Vicia faba</i> under salinity. <i>Environmental and Experimental Botany</i> , 2011 , 74, 31-36	5.9	14
64	Foliar N application at anthesis alters grain protein composition and enhances baking quality in winter wheat only under a low N fertiliser regimen. <i>European Journal of Agronomy</i> , 2019 , 109, 125909	5	13
63	Iodine biofortification of field-grown strawberries [Approaches and their limitations. <i>Scientia Horticulturae</i> , 2020 , 269, 109317	4.1	13
62	Microscopic and macroscopic monitoring of adaxial-abaxial pH gradients in the leaf apoplast of <i>Vicia faba</i> L. as primed by NaCl stress at the roots. <i>Plant Science</i> , 2014 , 223, 109-15	5.3	13
61	Silencing of the sulfur rich gliadin storage protein family in wheat grains (<i>Triticum aestivum</i> L.) causes no unintended side-effects on other metabolites. <i>Frontiers in Plant Science</i> , 2013 , 4, 369	6.2	13
60	Mechanism of sugar retention by roots of intact maize and field bean plants. <i>Plant and Soil</i> , 1993 , 155-156, 99-102	4.2	13
59	Iodine uptake and translocation in apple trees grown under protected cultivation. <i>Journal of Plant Nutrition and Soil Science</i> , 2020 , 183, 468-481	2.3	11
58	Calcium supply effects on wheat cultivars differing in salt resistance with special reference to leaf cytosol ion homeostasis. <i>Physiologia Plantarum</i> , 2013 , 149, 321-8	4.6	10

57	Metabolite profiling of wheat flag leaf and grains during grain filling phase as affected by sulfur fertilisation. <i>Functional Plant Biology</i> , 2012 , 39, 156-166	2.7	10
56	Sulfate supply enhances cadmium tolerance in <i>Vicia faba</i> L. plants. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 33794-33805	5.1	10
55	Influence of minerals on cytoplasmic streaming in root hairs of intact wheat seedlings (<i>Triticum aestivum</i> L.). <i>Plant and Soil</i> , 1993 , 155-156, 107-110	4.2	9
54	Nitrogen efficiency and leaf nitrogen remobilisation of oilseed rape lines and hybrids. <i>Annals of Applied Biology</i> , 2016 , 169, 125-133	2.6	9
53	Grain storage protein concentration and composition of winter wheat (<i>Triticum aestivum</i> L.) as affected by waterlogging events during stem elongation or ear emergence. <i>Journal of Cereal Science</i> , 2018 , 83, 9-15	3.8	8
52	Effect of K ⁺ nutrition, leaf age and light intensity on apoplastic K ⁺ in leaves of <i>Vicia faba</i> . <i>Journal of Plant Nutrition and Soil Science</i> , 1999 , 162, 571-576	2.3	8
51	Iodine Biofortification of Apples and Pears in an Orchard Using Foliar Sprays of Different Composition. <i>Frontiers in Plant Science</i> , 2021 , 12, 638671	6.2	8
50	Assessing How the Aluminum-Resistance Traits in Wheat and Rye Transfer to Hexaploid and Octoploid Triticale. <i>Frontiers in Plant Science</i> , 2018 , 9, 1334	6.2	8
49	Cold season ammonia emissions from land spreading with anaerobic digestates from biogas production. <i>Atmospheric Environment</i> , 2014 , 84, 35-38	5.3	7
48	Selenium foliar application alters patterns of glucosinolate hydrolysis products of pak choi <i>Brassica rapa</i> L. var. <i>chinensis</i> . <i>Scientia Horticulturae</i> , 2020 , 273, 109614	4.1	7
47	One-time abscisic acid priming induces long-term salinity resistance in <i>Vicia faba</i> : Changes in key transcripts, metabolites, and ionic relations. <i>Physiologia Plantarum</i> , 2021 , 172, 146-161	4.6	7
46	Divergent metabolic adjustments in nodules are indispensable for efficient N fixation of soybean under phosphate stress. <i>Plant Science</i> , 2019 , 289, 110249	5.3	6
45	Comparison of baking tests using wholemeal and white wheat flour. <i>European Food Research and Technology</i> , 2012 , 234, 845-851	3.4	6
44	Expansins are divergently abundant in maize cultivars that contrast in their degree of salt resistance. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1279-81	2.5	6
43	Comparative Metabolite Profile, Biological Activity and Overall Quality of Three Lettuce (<i>L.</i> , <i>Asteraceae</i>) Cultivars in Response to Sulfur Nutrition. <i>Pharmaceutics</i> , 2021 , 13,	6.4	6
42	Splitting nitrogen applications improves wheat storage protein composition under low N supply. <i>Journal of Plant Nutrition and Soil Science</i> , 2019 , 182, 347-355	2.3	5
41	Effects of a late N fertiliser dose on storage protein composition and bread volume of two wheat varieties differing in quality. <i>Journal of Cereal Science</i> , 2020 , 93, 102944	3.8	5
40	Nutrient deficiencies do not contribute to yield loss after waterlogging events in winter wheat (<i>Triticum aestivum</i>). <i>Annals of Applied Biology</i> , 2018 , 173, 141-153	2.6	5

39	Metabolomic responses in grain, ear, and straw of winter wheat under increasing sulfur treatment. <i>Journal of Plant Nutrition and Soil Science</i> , 2013 , 176, 964-970	2.3	5
38	A methodical approach for improving the reliability of quantifiable two-dimensional Western blots. <i>Journal of Immunological Methods</i> , 2010 , 362, 89-94	2.5	5
37	Boron uptake and distribution by oilseed rape (<i>Brassica napus</i> L.) as affected by different nitrogen forms under low and high boron supply. <i>Plant Physiology and Biochemistry</i> , 2021 , 161, 156-165	5.4	5
36	Influence of sulfur and nitrogen supply on growth, nutrient status and concentration of benzyl-isothiocyanate in cress (<i>Lepidium sativum</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2008 , 88, 2576-2580	4.3	4
35	Leaching from the leaf surface and its significance for apoplastic ion balance 1997 , 87-88		4
34	Regulation of Selenium/Sulfur Interactions to Enhance Chemopreventive Effects: Lessons to Learn from Brassicaceae. <i>Molecules</i> , 2020 , 25,	4.8	4
33	Utilization of soil organic phosphorus as a strategic approach for sustainable agriculture. <i>Journal of Plant Nutrition and Soil Science</i> , 2021 , 184, 311-319	2.3	4
32	Calcium improves apoplastic-cytosolic ion homeostasis in salt-stressed <i>Vicia faba</i> leaves. <i>Functional Plant Biology</i> , 2017 , 44, 515-524	2.7	3
31	Sulfur uptake and remobilization are differentially affected by N deficiency in winter oilseed rape cultivars. <i>Journal of Plant Nutrition</i> , 2017 , 40, 524-531	2.3	3
30	Emission klimarelevanter Spurengase in der intensiven Pflanzenproduktion. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2009 , 4, 207-211	2.3	3
29	Soil nitrogen fractions as influenced by sample preparation and extraction. <i>Communications in Soil Science and Plant Analysis</i> , 1997 , 28, 551-559	1.5	3
28	Determination of phytotoxic soil aluminium by electroultrafiltration. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1988 , 151, 267-271		3
27	Selenium Enrichment of Green and Red Lettuce and the Induction of Radical Scavenging Potential. <i>Horticulturae</i> , 2021 , 7, 488	2.5	3
26	Phosphate foliar application increases biomass and P concentration in P deficient maize. <i>Journal of Plant Nutrition and Soil Science</i> , 2021 , 184, 360-370	2.3	3
25	Impact of different chloride salts and their concentrations on nitrification and trace gas emissions from a sandy soil under a controlled environment. <i>Soil Use and Management</i> ,	3.1	2
24	One-Time Foliar Application and Continuous Resupply via Roots Equally Improved the Growth and Physiological Response of B-Deficient Oilseed Rape. <i>Plants</i> , 2021 , 10,	4.5	2
23	Comparative Effectiveness of Four Nitrification Inhibitors for Mitigating Carbon Dioxide and Nitrous Oxide Emissions from Three Different Textured Soils. <i>Nitrogen</i> , 2021 , 2, 155-166	1.8	2
22	Salinity resistance as a function of NH ₄ ⁺ :NO ₃ ⁻ ratio and its impact on yield and quality of tomato (<i>Solanum lycopersicum</i> L.). <i>Journal of Plant Nutrition and Soil Science</i> , 2021 , 184, 246-254	2.3	2

21	Comparative Effectiveness of Biogas Residue Acidification and Nitrification Inhibitors in Mitigating CO ₂ and N ₂ O Emissions from Biogas Residue-Amended Soils. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	2
20	Uptake, subcellular distribution, and translocation of foliar-applied phosphorus: Short-term effects on ion relations in deficient young maize plants. <i>Plant Physiology and Biochemistry</i> , 2021 , 166, 677-688	5.4	2
19	Early growth reduction in <i>Vicia faba</i> L. under alkali salt stress is mainly caused by excess bicarbonate and related to citrate and malate over accumulation. <i>Environmental and Experimental Botany</i> , 2021 , 192, 104636	5.9	2
18	Foliar N Application at Anthesis Stimulates Gene Expression of Grain Protein Fractions and Alters Protein Body Distribution in Winter Wheat (<i>T. aestivum</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 12709-12719	5.7	1
17	Salzstress bei Kulturpflanzen: Bedeutung für die weltweite Pflanzenproduktion. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2009 , 4, 202-206	2.3	1
16	Detection of putative selenoproteins in Chinese cabbage (<i>Brassica pekinensis</i> L.). <i>Journal of Plant Nutrition and Soil Science</i> , 2007 , 170, 657-658	2.3	1
15	Proximate analysis of nutrients and in vitro radical scavenging efficacy in selected medicinal plant powders with potential for use as poultry feed additives. <i>South African Journal of Botany</i> , 2022 , 146, 103-110	2.9	1
14	Mechanism of sugar retention by roots of intact maize and field bean plants 1993 , 103-106		1
13	Is N-feedback involved in the regulation of nitrogenase activity in <i>Medicago truncatula</i> ?. <i>Journal of Plant Nutrition and Soil Science</i> , 2020 , 183, 42-45	2.3	1
12	Timing of Waterlogging Is Crucial for the Development of Micronutrient Deficiencies or Toxicities in Winter Wheat and Rapeseed. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 824-830	4.7	1
11	Ammonium-driven nitrification plays a key role in increasing Mn availability in calcareous soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2020 , 183, 389-396	2.3	1
10	Acidified Biogas Residues Improve Nutrient Uptake and Growth of Young Maize. <i>Agronomy</i> , 2021 , 11, 344	3.6	1
9	Lithium: Perspectives of nutritional beneficence, dietary intake, biogeochemistry, and biofortification of vegetables and mushrooms. <i>Science of the Total Environment</i> , 2021 , 798, 149249	10.2	1
8	Phytoremediation Capability and Copper Uptake of Maize (<i>Zea mays</i> L.) in Copper Contaminated Soils. <i>Pollutants</i> , 2022 , 2, 53-65		1
7	Alkali salt stress causes fast leaf apoplastic alkalinization together with shifts in ion and metabolite composition and transcription of key genes during the early adaptive response of <i>Vicia faba</i> L.. <i>Plant Science</i> , 2022 , 319, 111253	5.3	1
6	Alterations of Content and Composition of Individual Sulfolipids, and Change of Fatty Acids Profile of Galactolipids in Lettuce Plants (<i>Lactuca sativa</i> L.) Grown under Sulfur Nutrition. <i>Plants</i> , 2022 , 11, 1342 ^{4.5}	4.5	1
5	Evaluation of Maize Growth Following Early Season Foliar P Supply of Various Fertilizer Formulations and in Relation to Nutritional Status. <i>Agronomy</i> , 2021 , 11, 727	3.6	0
4	Classification of oilseed rape accessions according to sulfur-related plant traits in short-term experiments reflects agronomic performance in field experiments. <i>Industrial Crops and Products</i> , 2017 , 107, 73-80	5.9	

- 3 The Effect of Sulfur Nutrition on Glucosinolate Patterns and Their Breakdown Products in Vegetable Crops. *Proceedings of the International Plant Sulfur Workshop*, **2017**, 61-73
- 2 Ammonium-driven nitrification plays a key role in increasing Mn availability in calcareous soils. *Journal of Plant Nutrition and Soil Science*, **2020**, 183, 550-550 2.3
- 1 Einfluss einer Schwefel-Biofortifizierung auf den Sulfolipidgehalt von zwei ausgewählte Salatsorten. *Lebensmittelchemie*, **2021**, 75, S100 0