

# Jan Kofod Schjoerring

## List of Publications by Year in descending order

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213  
papers

18,264  
citations

12330

69  
h-index

16650

123  
g-index

213  
all docs

213  
docs citations

213  
times ranked

18148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific Aquaporins Facilitate the Diffusion of Hydrogen Peroxide across Membranes. <i>Journal of Biological Chemistry</i> , 2007, 282, 1183-1192.	3.4	1,086
2	Reflectance measurement of canopy biomass and nitrogen status in wheat crops using normalized difference vegetation indices and partial least squares regression. <i>Remote Sensing of Environment</i> , 2003, 86, 542-553.	11.0	925
3	Membrane transport of hydrogen peroxide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 994-1003.	2.6	899
4	Atmospheric composition change: Ecosystemsâ€™ Atmosphere interactions. <i>Atmospheric Environment</i> , 2009, 43, 5193-5267.	4.1	609
5	Ammonia: emission, atmospheric transport and deposition. <i>New Phytologist</i> , 1998, 139, 27-48.	7.3	489
6	Functions of Macronutrients. , 2012, , 135-189.		479
7	Zinc biofortification of cereals: problems and solutions. <i>Trends in Plant Science</i> , 2008, 13, 464-473.	8.8	446
8	Ammonia Emission from Mineral Fertilizers and Fertilized Crops. <i>Advances in Agronomy</i> , 2004, 82, 557-622.	5.2	342
9	Iron fortification of rice seeds through activation of the <i>nicotianamine synthase</i> gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22014-22019.	7.1	341
10	Aquaporin homologues in plants and mammals transport ammonia. <i>FEBS Letters</i> , 2004, 574, 31-36.	2.8	297
11	NH <sub>3</sub> and NH <sub>4</sub> <sup>+</sup> permeability in aquaporin-expressing <i>Xenopus</i> oocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2005, 450, 415-428.	2.8	229
12	Cytosolic glutamine synthetase: a target for improvement of crop nitrogen use efficiency?. <i>Trends in Plant Science</i> , 2014, 19, 656-663.	8.8	227
13	Regulation of High-Affinity Nitrate Transporter Genes and High-Affinity Nitrate Influx by Nitrogen Pools in Roots of Barley. <i>Plant Physiology</i> , 2000, 123, 307-318.	4.8	218
14	The molecularâ€™ physiological functions of mineral macronutrients and their consequences for deficiency symptoms in plants. <i>New Phytologist</i> , 2021, 229, 2446-2469.	7.3	217
15	Elevated Nicotianamine Levels in <i>Arabidopsis halleri</i> Roots Play a Key Role in Zinc Hyperaccumulation. <i>Plant Cell</i> , 2012, 24, 708-723.	6.6	209
16	Biorefining in the prevailing energy and materials crisis: a review of sustainable pathways for biorefinery value chains and sustainability assessment methodologies. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 244-263.	16.4	209
17	Apoplastic pH and Ammonium Concentration in Leaves of <i>Brassica napus</i> L. <i>Plant Physiology</i> , 1995, 109, 1453-1460.	4.8	207
18	Challenges in quantifying biosphereâ€™ atmosphere exchange of nitrogen species. <i>Environmental Pollution</i> , 2007, 150, 125-139.	7.5	203

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19	Silicon alleviates iron deficiency in cucumber by promoting mobilization of iron in the root apoplast. <i>New Phytologist</i> , 2013, 198, 1096-1107.	7.3	185
20	Policies for agricultural nitrogen management—trends, challenges and prospects for improved efficiency in Denmark. <i>Environmental Research Letters</i> , 2014, 9, 115002.	5.2	184
21	Manganese Efficiency in Barley: Identification and Characterization of the Metal Ion Transporter HvIRT1. <i>Plant Physiology</i> , 2008, 148, 455-466.	4.8	182
22	The Arabidopsis ATP-binding Cassette Protein AtMRP5/AtABCC5 Is a High Affinity Inositol Hexakisphosphate Transporter Involved in Guard Cell Signaling and Phytate Storage. <i>Journal of Biological Chemistry</i> , 2009, 284, 33614-33622.	3.4	177
23	Gene expression, cellular localisation and function of glutamine synthetase isozymes in wheat ( <i>Triticum aestivum</i> L.). <i>Plant Molecular Biology</i> , 2008, 67, 89-105.	3.9	172
24	Bioavailable zinc in rice seeds is increased by activation tagging of <i>nicotianamine synthase</i> . <i>Plant Biotechnology Journal</i> , 2011, 9, 865-873.	8.3	168
25	Competition between uptake of ammonium and potassium in barley and Arabidopsis roots: molecular mechanisms and physiological consequences. <i>Journal of Experimental Botany</i> , 2010, 61, 2303-2315.	4.8	157
26	The regulation of ammonium translocation in plants. <i>Journal of Experimental Botany</i> , 2002, 53, 883-890.	4.8	153
27	Simultaneous iron, zinc, sulfur and phosphorus speciation analysis of barley grain tissues using SEC-ICP-MS and IP-ICP-MS. <i>Metallomics</i> , 2009, 1, 418.	2.4	151
28	Effects of elevated atmospheric CO <sub>2</sub> on physiology and yield of wheat ( <i>Triticum aestivum</i> L.): A meta-analytic test of current hypotheses. <i>Agriculture, Ecosystems and Environment</i> , 2013, 178, 57-63.	5.3	145
29	Rhizodeposition of nitrogen by red clover, white clover and ryegrass leys. <i>Soil Biology and Biochemistry</i> , 2001, 33, 439-448.	8.8	143
30	A critical experimental evaluation of methods for determination of NH <sub>4</sub> <sup>+</sup> in plant tissue, xylem sap and apoplastic fluid. <i>Physiologia Plantarum</i> , 2000, 109, 167-179.	5.2	140
31	The Influence of Phosphorus Deficiency on Growth and Nitrogen Fixation of White Clover Plants. <i>Annals of Botany</i> , 2002, 90, 745-753.	2.9	138
32	Megapixel imaging of (micro)nutrients in mature barley grains. <i>Journal of Experimental Botany</i> , 2011, 62, 273-282.	4.8	134
33	Nitrogen incorporation and remobilization in different shoot components of field-grown winter oilseed rape ( <i>Brassica napus</i> L.) as affected by rate of nitrogen application and irrigation. <i>Plant and Soil</i> , 1995, 177, 255-264.	3.7	133
34	Post-translational regulation of cytosolic glutamine synthetase by reversible phosphorylation and 14-3-3 protein interaction. <i>Plant Journal</i> , 2000, 24, 171-181.	5.7	133
35	Title is missing!. <i>Plant and Soil</i> , 1997, 197, 187-199.	3.7	132
36	Resistance modelling of ammonia exchange over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 405-425.	4.8	131

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37	Ammonia volatilization during storage of cattle and pig slurry: effect of surface cover. <i>Journal of Agricultural Science</i> , 1993, 121, 63-71.	1.3	130
38	The use of DGT for prediction of plant available copper, zinc and phosphorus in agricultural soils. <i>Plant and Soil</i> , 2011, 346, 167-180.	3.7	128
39	Physiological parameters controlling plant-atmosphere ammonia exchange. <i>Atmospheric Environment</i> , 1998, 32, 491-498.	4.1	120
40	Ammonia Flux between Oilseed Rape Plants and the Atmosphere in Response to Changes in Leaf Temperature, Light Intensity, and Air Humidity (Interactions with Leaf Conductance and Apoplastic) <i>Tj ETQq0 0 0 rgBT /Overlook 10 Tf 5</i>	3.7	110
41	Micro-scaled high-throughput digestion of plant tissue samples for multi-elemental analysis. <i>Plant Methods</i> , 2009, 5, 12.	4.3	114
42	Activation of Rice nicotianamine synthase 2 (OsNAS2) Enhances Iron Availability for Biofortification. <i>Molecules and Cells</i> , 2012, 33, 269-276.	2.6	112
43	Effects of Ammonium Toxicity on Nitrogen Metabolism and Elemental Profile of Cucumber Plants. <i>Journal of Plant Nutrition</i> , 2007, 30, 1933-1951.	1.9	111
44	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , 2011, 190, 683-696.	7.3	111
45	Measurement of biological dinitrogen fixation in grassland: Comparison of the enriched 15N dilution and the natural 15N abundance methods at different nitrogen application rates and defoliation frequencies. <i>Plant and Soil</i> , 1994, 166, 153-163.	3.7	110
46	Multielemental Fingerprinting as a Tool for Authentication of Organic Wheat, Barley, Faba Bean, and Potato. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4385-4396.	5.2	106
47	Title is missing!. <i>Plant and Soil</i> , 2000, 227, 171-183.	3.7	103
48	Sources and sinks of ammonia within an oilseed rape canopy. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 385-404.	4.8	99
49	Genotypic differences in manganese efficiency: field experiments with winter barley ( <i>Hordeum vulgare</i> ) <i>Tj ETQq1 1 0.784314 rgBT /</i>	3.7	99
50	Cytosolic Glutamine Synthetase Gln1;2 Is the Main Isozyme Contributing to GS1 Activity and Can Be Up-Regulated to Relieve Ammonium Toxicity. <i>Plant Physiology</i> , 2016, 171, 1921-1933.	4.8	99
51	Nanomaterials as fertilizers for improving plant mineral nutrition and environmental outcomes. <i>Environmental Science: Nano</i> , 2019, 6, 3513-3524.	4.3	99
52	Foliar application of zinc sulphate and zinc EDTA to wheat leaves: differences in mobility, distribution, and speciation. <i>Journal of Experimental Botany</i> , 2018, 69, 4469-4481.	4.8	95
53	Field investigations of ammonia exchange between barley plants and the atmosphere. I. Concentration profiles and flux densities of ammonia. <i>Plant, Cell and Environment</i> , 1993, 16, 161-167.	5.7	90
54	Regulation of Apoplastic NH <sub>4</sub> <sup>+</sup> Concentration in Leaves of Oilseed Rape. <i>Plant Physiology</i> , 1998, 118, 1361-1368.	4.8	90

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55	Photosynthesis in leaves and siliques of winter oilseed rape ( <i>Brassica napus</i> L.). <i>Plant and Soil</i> , 1996, 186, 227-236.	3.7	85
56	Translocation of NH <sub>4</sub> <sup>+</sup> in oilseed rape plants in relation to glutamine synthetase isogene expression and activity. <i>Physiologia Plantarum</i> , 1999, 105, 469-477.	5.2	82
57	Latent manganese deficiency increases transpiration in barley ( <i>Hordeum vulgare</i> ). <i>Physiologia Plantarum</i> , 2009, 135, 307-316.	5.2	82
58	A simple passive sampler for measuring ammonia emission in the field. <i>Water, Air, and Soil Pollution</i> , 1992, 62, 13-24.	2.4	81
59	Title is missing!. <i>Plant and Soil</i> , 2001, 228, 105-115.	3.7	80
60	Title is missing!. <i>Plant and Soil</i> , 2001, 228, 131-145.	3.7	79
61	Dynamic Interactions between Root NH <sub>4</sub> <sup>+</sup> Influx and Long-Distance N Translocation in Rice: Insights into Feedback Processes. <i>Plant and Cell Physiology</i> , 1998, 39, 1287-1293.	3.1	78
62	Ammonia emission from young barley plants: influence of N source, light/dark cycles and inhibition of glutamine synthetase. <i>Journal of Experimental Botany</i> , 1996, 47, 477-484.	4.8	77
63	Regulation of the <i>hvt1</i> gene encoding a high-affinity sulfate transporter from <i>Hordeum vulgare</i> . <i>Plant Molecular Biology</i> , 1999, 40, 883-892.	3.9	77
64	Molecular speciation and tissue compartmentation of zinc in durum wheat grains with contrasting nutritional status. <i>New Phytologist</i> , 2016, 211, 1255-1265.	7.3	77
65	Ammonia Volatilization from Pig Slurry Applied with Trail Hoses or Broadcast to Winter Wheat: Effects of Crop Developmental Stage, Microclimate, and Leaf Ammonia Absorption. <i>Journal of Environmental Quality</i> , 1997, 26, 1153-1160.	2.0	75
66	Interactions between uptake of amino acids and inorganic nitrogen in wheat plants. <i>Biogeosciences</i> , 2012, 9, 1509-1518.	3.3	75
67	Is it really organic? Multi-isotopic analysis as a tool to discriminate between organic and conventional plants. <i>Food Chemistry</i> , 2013, 141, 2812-2820.	8.2	75
68	Metabolomic and elemental profiling of melon fruit quality as affected by genotype and environment. <i>Metabolomics</i> , 2013, 9, 57-77.	3.0	74
69	Authentication of organically grown plants – advantages and limitations of atomic spectroscopy for multi-element and stable isotope analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 59, 73-82.	11.4	74
70	Differential Capacity for High-Affinity Manganese Uptake Contributes to Differences between Barley Genotypes in Tolerance to Low Manganese Availability. <i>Plant Physiology</i> , 2005, 139, 1411-1420.	4.8	73
71	Identification and characterization of zinc-starvation-induced ZIP transporters from barley roots. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 377-383.	5.8	73
72	A Combined Zinc/Cadmium Sensor and Zinc/Cadmium Export Regulator in a Heavy Metal Pump. <i>Journal of Biological Chemistry</i> , 2010, 285, 31243-31252.	3.4	73

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73	Influence of nitrogen nutrition and metabolism on ammonia volatilization in plants. <i>Nutrient Cycling in Agroecosystems</i> , 1998, 51, 35-40.	2.2	72
74	Two cytosolic glutamine synthetase isoforms play specific roles for seed germination and seed yield structure in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 203-212.	4.8	72
75	The effects of the loss of TIP1;1 and TIP1;2 aquaporins in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 56, 756-767.	5.7	71
76	Leaf-Atmosphere NH <sub>3</sub> Exchange in Barley Mutants with Reduced Activities of Glutamine Synthetase. <i>Plant Physiology</i> , 1997, 114, 1307-1312.	4.8	70
77	Physiological regulation of plant-atmosphere ammonia exchange. <i>Plant and Soil</i> , 2000, 221, 95-102.	3.7	69
78	Stomatal compensation points for ammonia in oilseed rape plants under field conditions. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 371-383.	4.8	68
79	Ammonia compensation points in two cultivars of <i>Hordeum vulgare</i> L. during vegetative and generative growth. <i>Plant, Cell and Environment</i> , 1996, 19, 1299-1306.	5.7	67
80	Photorespiratory NH <sub>4</sub> <sup>+</sup> Production in Leaves of Wild-Type and Glutamine Synthetase 2 Antisense Oilseed Rape. <i>Plant Physiology</i> , 2002, 130, 989-998.	4.8	67
81	Review: The role of atomic spectrometry in plant science. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 52-79.	3.0	65
82	Responses of barley root and shoot proteomes to long-term nitrogen deficiency, short-term nitrogen starvation and ammonium. <i>Plant, Cell and Environment</i> , 2011, 34, 2024-2037.	5.7	65
83	Sensitive Detection of Phosphorus Deficiency in Plants Using Chlorophyll <i>a</i> Fluorescence. <i>Plant Physiology</i> , 2015, 169, 353-361.	4.8	65
84	Temporal variability in bioassays of the stomatal ammonia compensation point in relation to plant and soil nitrogen parameters in intensively managed grassland. <i>Biogeosciences</i> , 2009, 6, 171-179.	3.3	64
85	Nitrogen losses from field-grown spring barley plants as affected by rate of nitrogen application. <i>Plant and Soil</i> , 1989, 116, 167-175.	3.7	63
86	Dynamic and Steady-State Responses of Inorganic Nitrogen Pools and NH <sub>3</sub> Exchange in Leaves of <i>Lolium perenne</i> and <i>Bromus erectus</i> to Changes in Root Nitrogen Supply. <i>Plant Physiology</i> , 2002, 128, 742-750.	4.8	63
87	SURFATM-NH <sub>3</sub> : a model combining the surface energy balance and bi-directional exchanges of ammonia applied at the field scale. <i>Biogeosciences</i> , 2009, 6, 1371-1388.	3.3	61
88	Effects of Nitrate and Potassium on Ammonium Toxicity in Cucumber Plants. <i>Journal of Plant Nutrition</i> , 2008, 31, 1270-1283.	1.9	60
89	Latent manganese deficiency in barley can be diagnosed and remediated on the basis of chlorophyll <i>a</i> fluorescence measurements. <i>Plant and Soil</i> , 2013, 372, 417-429.	3.7	60
90	Golgi Localized Barley MTP8 Proteins Facilitate Mn Transport. <i>PLoS ONE</i> , 2014, 9, e113759.	2.5	60

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91	Title is missing!. Plant and Soil, 1999, 208, 293-305.	3.7	59
92	Senescence-induced changes in apoplastic and bulk tissue ammonia concentrations of ryegrass leaves. New Phytologist, 2003, 160, 489-499.	7.3	59
93	Elevated Phosphorus Impedes Manganese Acquisition by Barley Plants. Frontiers in Plant Science, 2011, 2, 37.	3.6	59
94	Losses of essential mineral nutrients by polishing of rice differ among genotypes due to contrasting grain hardness and mineral distribution. Journal of Cereal Science, 2012, 56, 307-315.	3.7	59
95	A proteomics approach to investigate the process of Zn hyperaccumulation in <i>Nocca caerulea</i> (<sc>J</sc> & <sc>C</sc>. <sc>P</sc>resl) <sc>F</sc>. <sc>K</sc>. <sc>M</sc>eyer. Plant Journal, 2013, 73, 131-142.	5.7	59
96	Barley HvHMA1 Is a Heavy Metal Pump Involved in Mobilizing Organellar Zn and Cu and Plays a Role in Metal Loading into Grains. PLoS ONE, 2012, 7, e49027.	2.5	56
97	A pulse-labelling method to generate <sup>13</sup> C- enriched plant materials. Plant and Soil, 2001, 235, 253-257.	3.7	55
98	Dynamics of ammonia exchange with cut grassland: synthesis of results and conclusions of the GRAMINAE Integrated Experiment. Biogeosciences, 2009, 6, 2907-2934.	3.3	55
99	Bacterial diversity in Greenlandic soils as affected by potato cropping and inorganic versus organic fertilization. Polar Biology, 2014, 37, 61-71.	1.2	55
100	The impact of silicon on cell wall composition and enzymatic saccharification of Brachypodium distachyon. Biotechnology for Biofuels, 2018, 11, 171.	6.2	55
101	Regulation of the high-affinity ammonium transporter (BnAMT1;2) in the leaves of Brassica napus by nitrogen status. Plant Molecular Biology, 2002, 49, 483-490.	3.9	53
102	Contrasting effects of nicotianamine synthase knockdown on zinc and nickel tolerance and accumulation in the zinc/cadmium hyperaccumulator <i>Arabidopsis halleri</i> . New Phytologist, 2015, 206, 738-750.	7.3	53
103	Tonoplast Aquaporins Facilitate Lateral Root Emergence. Plant Physiology, 2016, 170, 1640-1654.	4.8	53
104	Cisgenic overexpression of cytosolic glutamine synthetase improves nitrogen utilization efficiency in barley and prevents grain protein decline under elevated CO <sub>2</sub> . Plant Biotechnology Journal, 2019, 17, 1209-1221.	8.3	52
105	Leaf Photosynthesis and Drought Adaptation in Field-Grown Oilseed Rape (Brassica napus L.). Functional Plant Biology, 1996, 23, 631.	2.1	52
106	Root Carbon Enrichment Alleviates Ammonium Toxicity in Cucumber Plants. Journal of Plant Nutrition, 2008, 31, 941-958.	1.9	51
107	Dynamics of ammonia exchange with cut grassland: strategy and implementation of the GRAMINAE Integrated Experiment. Biogeosciences, 2009, 6, 309-331.	3.3	51
108	Silicon enhances leaf remobilization of iron in cucumber under limited iron conditions. Annals of Botany, 2016, 118, 271-280.	2.9	51

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109	Model of how plants sense zinc deficiency. <i>Metallomics</i> , 2013, 5, 1110.	2.4	50
110	Micrometeorological measurements of net ammonia fluxes over oilseed rape during two vegetation periods. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 351-369.	4.8	49
111	Barley Metallothioneins: MT3 and MT4 Are Localized in the Grain Aleurone Layer and Show Differential Zinc Binding. <i>Plant Physiology</i> , 2012, 159, 1125-1137.	4.8	49
112	Ammonia sources and sinks in an intensively managed grassland canopy. <i>Biogeosciences</i> , 2009, 6, 1903-1915.	3.3	48
113	High-throughput analysis of amino acids in plant materials by single quadrupole mass spectrometry. <i>Plant Methods</i> , 2018, 14, 8.	4.3	47
114	Suppression of C-Hordein Synthesis in Barley by Antisense Constructs Results in a More Balanced Amino Acid Composition. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 6074-6081.	5.2	46
115	Phylogenetic analysis of F-bZIP transcription factors indicates conservation of the zinc deficiency response across land plants. <i>Scientific Reports</i> , 2017, 7, 3806.	3.3	46
116	A genomics and multi-platform metabolomics approach to identify new traits of rice quality in traditional and improved varieties. <i>Metabolomics</i> , 2012, 8, 771-783.	3.0	43
117	Plant nutrition and soil fertility: synergies for acquiring global green growth and sustainable development. <i>Plant and Soil</i> , 2019, 434, 1-6.	3.7	43
118	Effect of NO <sub>3</sub> - supply on N metabolism of potato plants ( <i>Solanum tuberosum</i> L.) with special focus on the tubers. <i>Plant, Cell and Environment</i> , 2002, 25, 999-1009.	5.7	42
119	Multielement Plant Tissue Analysis Using ICP Spectrometry. <i>Methods in Molecular Biology</i> , 2013, 953, 121-141.	0.9	42
120	Metal Binding in Photosystem II Super- and Subcomplexes from Barley Thylakoids. <i>Plant Physiology</i> , 2015, 168, 1490-1502.	4.8	42
121	Phosphorus nutrition of barley, buckwheat and rape seedlings. II. Influx and efflux of phosphorous by intact roots of different P status. <i>Physiologia Plantarum</i> , 1984, 61, 584-590.	5.2	40
122	A Passive Flux Sampler for Measuring Ammonia Volatilization from Manure Storage Facilities. <i>Journal of Environmental Quality</i> , 1996, 25, 241-247.	2.0	40
123	Zinc fluxes into developing barley grains: use of stable Zn isotopes to separate root uptake from remobilization in plants with contrasting Zn status. <i>Plant and Soil</i> , 2012, 361, 241-250.	3.7	40
124	Ammonium fluxes into plant roots: Energetics, kinetics and regulation. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1997, 160, 261-268.	0.4	39
125	Surface/atmosphere exchange and chemical interaction of gases and aerosols over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 427-445.	4.8	38
126	Multi-elemental speciation analysis of barley genotypes differing in tolerance to cadmium toxicity using SEC-ICP-MS and ESI-TOF-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 996.	3.0	38



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127	Multi-element bioimaging of Arabidopsis thaliana roots. Plant Physiology, 2016, 172, pp.00770.2016.	4.8	38
128	Uptake and utilization of atmospheric ammonia in three native Poaceae species: leaf conductances, composition of apoplastic solution and interactions with root nitrogen supply. New Phytologist, 1999, 141, 71-83.	7.3	37
129	Title is missing!. Plant and Soil, 2001, 230, 239-246.	3.7	37
130	Influence of nitrogen and sulphur form on manganese acquisition by barley (shape Hordeum vulgare). Plant and Soil, 2005, 268, 309-317.	3.7	37
131	Responses of cucumber plant to NH <sub>4</sub> <sup>+</sup> and NO <sub>3</sub> <sup>-</sup> nutrition: The relative addition rate technique vs. cultivation at constant nitrogen concentration. Scientia Horticulturae, 2009, 121, 397-403.	3.6	37
132	The iron-regulated transporter 1 plays an essential role in uptake, translocation and grain-loading of manganese, but not iron, in barley. New Phytologist, 2018, 217, 1640-1653.	7.3	37
133	Multi-elemental fingerprinting of plant tissue by semi-quantitative ICP-MS and chemometrics. Journal of Analytical Atomic Spectrometry, 2009, 24, 1198.	3.0	35
134	The Intensity of Manganese Deficiency Strongly Affects Root Endodermal Suberization and Ion Homeostasis. Plant Physiology, 2019, 181, 729-742.	4.8	35
135	Comparative Metabolomics and Molecular Phylogenetics of Melon (Cucumis melo, Cucurbitaceae) Biodiversity. Metabolites, 2020, 10, 121.	2.9	35
136	Benefits of nitrogen for food, fibre and industrial production. , 2011, , 32-61.		34
137	Seasonal variation in nitrogen pools and $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ natural abundances in different tissues of grassland plants. Biogeosciences, 2012, 9, 1583-1595.	3.3	34
138	Photosystem II Functionality in Barley Responds Dynamically to Changes in Leaf Manganese Status. Frontiers in Plant Science, 2016, 7, 1772.	3.6	34
139	Vertical structure and diurnal variability of ammonia exchange potential within an intensively managed grass canopy. Biogeosciences, 2009, 6, 15-23.	3.3	33
140	Nitrogen fertilization affects silicon concentration, cell wall composition and biofuel potential of wheat straw. Biomass and Bioenergy, 2014, 64, 291-298.	5.7	33
141	Fluxes of ammonia over oilseed rape. Agricultural and Forest Meteorology, 2000, 105, 327-349.	4.8	32
142	Root length and phosphorus uptake by four barley cultivars grown under moderate deficiency of phosphorus in field experiments. Journal of Plant Nutrition, 1987, 10, 1289-1295.	1.9	31
143	Seasonal variation in ammonia compensation point and nitrogen pools in beech leaves (Fagus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.7	31
144	Layered Double Hydroxides: Potential Release-on-Demand Fertilizers for Plant Zinc Nutrition. Journal of Agricultural and Food Chemistry, 2017, 65, 8779-8789.	5.2	31

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145	Optimising the foliar uptake of zinc oxide nanoparticles: Do leaf surface properties and particle coating affect absorption?. <i>Physiologia Plantarum</i> , 2020, 170, 384-397.	5.2	31
146	An assessment of the biotechnological use of hemoglobin modulation in cereals. <i>Physiologia Plantarum</i> , 2014, 150, 593-603.	5.2	30
147	Barley metallothioneins differ in ontogenetic pattern and response to metals. <i>Plant, Cell and Environment</i> , 2014, 37, 353-367.	5.7	30
148	Kinetics of nitrate and ammonium absorption and accompanying H <sup>+</sup> fluxes in roots of <i>Lolium perenne</i> L. and N <sub>2</sub> -fixing <i>Trifolium repens</i> L.. <i>Plant, Cell and Environment</i> , 1997, 20, 1184-1192.	5.7	29
149	Soil-plant-atmosphere ammonia exchange associated with <i>Calluna vulgaris</i> and <i>Deschampsia flexuosa</i> . <i>Atmospheric Environment</i> , 1998, 32, 507-512.	4.1	29
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