Jan Kofod Schjoerring

List of Publications by Year
in descending order

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	Modification of storage proteins in the barley grain increases endosperm zinc and iron under both normal and elevated atmospheric <scp>CO₂</scp>. Physiologia Plantarum, 2022, 174, e13624.	5.2	3
2	Can silicon in glacial rock flour enhance phosphorus availability in acidic tropical soil?. Plant and Soil, 2022, 477, 241-258.	3.7	4
3	Leaf Scorching following Foliar Fertilization of Wheat with Urea or Ureaâ€“Ammonium Nitrate Is Caused by Ammonium Toxicity. Agronomy, 2022, 12, 1405.	3.0	7
4	The molecularâ€“physiological functions of mineral macronutrients and their consequences for deficiency symptoms in plants. New Phytologist, 2021, 229, 2446-2469.	7.3	217
5	Assessing the variation in traits for manganese deficiency tolerance among maize genotypes. Environmental and Experimental Botany, 2021, 183, 104344.	4.2	10
6	Temporal and Spatial Patterns of Zinc and Iron Accumulation during Barley (Hordeum vulgare) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.2	12
7	Optimising the foliar uptake of zinc oxide nanoparticles: Do leaf surface properties and particle coating affect absorption?. Physiologia Plantarum, 2020, 170, 384-397.	5.2	31
8	High light intensity aggravates latent manganese deficiency in maize. Journal of Experimental Botany, 2020, 71, 6116-6127.	4.8	7
9	Residual nitrogen pools in mature winter wheat straw as affected by nitrogen application. Plant and Soil, 2020, 453, 561-575.	3.7	1
10	The potential for biorefining of triticale to protein and sugar depends on nitrogen supply and harvest time. Industrial Crops and Products, 2020, 149, 112333.	5.2	8
11	Bioimaging Techniques Reveal Foliar Phosphate Uptake Pathways and Leaf Phosphorus Status. Plant Physiology, 2020, 183, 1472-1483.	4.8	22
12	Towards single-cell ionomics: a novel micro-scaled method for multi-element analysis of nanogram-sized biological samples. Plant Methods, 2020, 16, 31.	4.3	10
13	Carbonâ€“nitrogen interactions in European forests and semi-natural vegetation â€“ Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. Biogeosciences, 2020, 17, 1583-1620.	3.3	21
14	Comparative Metabolomics and Molecular Phylogenetics of Melon (Cucumis melo, Cucurbitaceae) Biodiversity. Metabolites, 2020, 10, 121.	2.9	35
15	The source of inorganic nitrogen has distinct effects on cell wall composition in Brachypodium distachyon. Journal of Experimental Botany, 2019, 70, 6461-6473.	4.8	16
16	Breeding for dual-purpose wheat varieties using markerâ€“trait associations for biomass yield and quality traits. Theoretical and Applied Genetics, 2019, 132, 3375-3398.	3.6	15
17	Investigating the foliar uptake of zinc from conventional and nano-formulations: a methodological study. Environmental Chemistry, 2019, 16, 459.	1.5	19
18	The search for candidate genes associated with natural variation of grain Zn accumulation in barley. Biochemical Journal, 2019, 476, 1889-1909.	3.7	12

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19	Wheat as a dual crop for biorefining: Straw quality parameters and their interactions with nitrogen supply in modern elite cultivars. GCB Bioenergy, 2019, 11, 400-415.	5.6	15
20	Green biorefining: Effect of nitrogen fertilization on protein yield, protein extractability and amino acid composition of tall fescue biomass. Industrial Crops and Products, 2019, 130, 642-652.	5.2	12
21	The Intensity of Manganese Deficiency Strongly Affects Root Endodermal Suberization and Ion Homeostasis. Plant Physiology, 2019, 181, 729-742.	4.8	35
22	Improvement of Tryptophan Analysis by Liquid Chromatography-Single Quadrupole Mass Spectrometry Through the Evaluation of Multiple Parameters. Frontiers in Chemistry, 2019, 7, 797.	3.6	22
23	Enhancing Protein Recovery in Green Biorefineries by Lignosulfonate-Assisted Precipitation. Frontiers in Sustainable Food Systems, 2019, 3, .	3.9	18
24	Nanomaterials as fertilizers for improving plant mineral nutrition and environmental outcomes. Environmental Science: Nano, 2019, 6, 3513-3524.	4.3	99
25	Plant nutrition and soil fertility: synergies for acquiring global green growth and sustainable development. Plant and Soil, 2019, 434, 1-6.	3.7	43
26	Cisgenic overexpression of cytosolic glutamine synthetase improves nitrogen utilization efficiency in barley and prevents grain protein decline under elevated CO₂. Plant Biotechnology Journal, 2019, 17, 1209-1221.	8.3	52
27	Silicon affects seed development and leaf macrohair formation in <scp>Brachypodium distachyon</scp>. Physiologia Plantarum, 2018, 163, 231-246.	5.2	12
28	The ironâ€regulated transporter 1 plays an essential role in uptake, translocation and grainâ€loading of manganese, but not iron, in barley. New Phytologist, 2018, 217, 1640-1653.	7.3	37
29	Plant nutrition for global green growth. Physiologia Plantarum, 2018, 163, 268-268.	5.2	1
30	Foliar application of zinc sulphate and zinc EDTA to wheat leaves: differences in mobility, distribution, and speciation. Journal of Experimental Botany, 2018, 69, 4469-4481.	4.8	95
31	The impact of silicon on cell wall composition and enzymatic saccharification of Brachypodium distachyon. Biotechnology for Biofuels, 2018, 11, 171.	6.2	55
32	High-throughput analysis of amino acids in plant materials by single quadrupole mass spectrometry. Plant Methods, 2018, 14, 8.	4.3	47
33	External nitrogen input affects pre- and post-harvest cell wall composition but not the enzymatic saccharification of wheat straw. Biomass and Bioenergy, 2017, 98, 70-79.	5.7	10
34	Phylogenetic analysis of F-bZIP transcription factors indicates conservation of the zinc deficiency response across land plants. Scientific Reports, 2017, 7, 3806.	3.3	46
35	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
36	Photosystem II Functionality in Barley Responds Dynamically to Changes in Leaf Manganese Status. Frontiers in Plant Science, 2016, 7, 1772.	3.6	34

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37	Molecular speciation and tissue compartmentation of zinc in durum wheat grains with contrasting nutritional status. New Phytologist, 2016, 211, 1255-1265.	7.3	77
38	Silicon enhances leaf remobilization of iron in cucumber under limited iron conditions. Annals of Botany, 2016, 118, 271-280.	2.9	51
39	Multi-element bioimaging of Arabidopsis thaliana roots. Plant Physiology, 2016, 172, pp.00770.2016.	4.8	38
40	Peering into the separate roles of root and shoot cytosolic glutamine synthetase 1;2 by use of grafting experiments in Arabidopsis. Plant Signaling and Behavior, 2016, 11, e1245253.	2.4	8
41	Cytosolic Glutamine Synthetase Gln1;2 Is the Main Isozyme Contributing to GS1 Activity and Can Be Up-Regulated to Relieve Ammonium Toxicity. Plant Physiology, 2016, 171, 1921-1933.	4.8	99
42	Multi-platform metabolomics analyses of a broad collection of fragrant and non-fragrant rice varieties reveals the high complexity of grain quality characteristics. Metabolomics, 2016, 12, 38.	3.0	28
43	Tonoplast Aquaporins Facilitate Lateral Root Emergence. Plant Physiology, 2016, 170, 1640-1654.	4.8	53
44	A laser ablation <scp>ICP</scp>â€<scp>MS</scp> based method for multiplexed immunoblot analysis: applications to manganeseâ€dependent protein dynamics of photosystem <scp>II</scp> in barley (<scp>H</scp>ordeum vulgare <scp>L</scp>.). Plant Journal, 2015, 83, 555-565.	5.7	16
45	Two cytosolic glutamine synthetase isoforms play specific roles for seed germination and seed yield structure in Arabidopsis. Journal of Experimental Botany, 2015, 66, 203-212.	4.8	72
46	Contrasting effects of nicotianamine synthase knockdown on zinc and nickel tolerance and accumulation in the zinc/cadmium hyperaccumulator <scp>A</scp>rabidopsis halleri. New Phytologist, 2015, 206, 738-750.	7.3	53
47	Metal Binding in Photosystem II Super- and Subcomplexes from Barley Thylakoids. Plant Physiology, 2015, 168, 1490-1502.	4.8	42
48	Sensitive Detection of Phosphorus Deficiency in Plants Using Chlorophyll a Fluorescence. Plant Physiology, 2015, 169, 353-361.	4.8	65
49	Concentration of mineral elements in wheat (Triticum aestivum L.) straw: Genotypic differences and consequences for enzymatic saccharification. Biomass and Bioenergy, 2015, 75, 134-141.	5.7	13
50	Biorefining in the prevailing energy and materials crisis: a review of sustainable pathways for biorefinery value chains and sustainability assessment methodologies. Renewable and Sustainable Energy Reviews, 2015, 43, 244-263.	16.4	209
51	An assessment of the biotechnological use of hemoglobin modulation in cereals. Physiologia Plantarum, 2014, 150, 593-603.	5.2	30
52	Barley metallothioneins differ in ontogenetic pattern and response to metals. Plant, Cell and Environment, 2014, 37, 353-367.	5.7	30
53	The slippery slope of cisgenesis. Nature Biotechnology, 2014, 32, 727-727.	17.5	12
54	Biorefining of wheat straw: accounting for the distribution of mineral elements in pretreated biomass by an extended pretreatment-severity equation. Biotechnology for Biofuels, 2014, 7, 141.	6.2	16

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55	Policies for agricultural nitrogen managementâ€"trends, challenges and prospects for improved efficiency in Denmark. Environmental Research Letters, 2014, 9, 115002.	5.2	184
56	Bacterial diversity in Greenlandic soils as affected by potato cropping and inorganic versus organic fertilization. Polar Biology, 2014, 37, 61-71.	1.2	55
57	Cytosolic glutamine synthetase: a target for improvement of crop nitrogen use efficiency?. Trends in Plant Science, 2014, 19, 656-663.	8.8	227
58	Plant mineral nutrition for nutrient and food security. Physiologia Plantarum, 2014, 151, 199-199.	5.2	1
59	Nitrogen fertilization affects silicon concentration, cell wall composition and biofuel potential of wheat straw. Biomass and Bioenergy, 2014, 64, 291-298.	5.7	33
60	Authentication of organically grown plants â€“ advantages and limitations of atomic spectroscopy for multi-element and stable isotope analysis. TrAC - Trends in Analytical Chemistry, 2014, 59, 73-82.	11.4	74
61	Golgi Localized Barley MTP8 Proteins Facilitate Mn Transport. PLoS ONE, 2014, 9, e113759.	2.5	60
62	Latent manganese deficiency in barley can be diagnosed and remediated on the basis of chlorophyll a fluorescence measurements. Plant and Soil, 2013, 372, 417-429.	3.7	60
63	Model of how plants sense zinc deficiency. Metallomics, 2013, 5, 1110.	2.4	50
64	Multiplexed Quantification of Plant Thylakoid Proteins on Western Blots Using Lanthanide-Labeled Antibodies and Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS). Analytical Chemistry, 2013, 85, 5047-5054.	6.5	26
65	Silicon alleviates iron deficiency in cucumber by promoting mobilization of iron in the root apoplast. New Phytologist, 2013, 198, 1096-1107.	7.3	185
66	Effects of elevated atmospheric CO2 on physiology and yield of wheat (Triticum aestivum L.): A meta-analytic test of current hypotheses. Agriculture, Ecosystems and Environment, 2013, 178, 57-63.	5.3	145
67	Structural and chemical analysis of process residue from biochemical conversion of wheat straw (Triticum aestivum L.) to ethanol. Biomass and Bioenergy, 2013, 56, 572-581.	5.7	26
68	Is it really organic? â€“ Multi-isotopic analysis as a tool to discriminate between organic and conventional plants. Food Chemistry, 2013, 141, 2812-2820.	8.2	75
69	Metabolomic and elemental profiling of melon fruit quality as affected by genotype and environment. Metabolomics, 2013, 9, 57-77.	3.0	74
70	A proteomics approach to investigate the process of <scp>Z</scp>n hyperaccumulation in <scp>N</scp>occaea caerulescens (<scp>J</scp> & <scp>C</scp>. <scp>P</scp>resl) <scp>F</scp>.<scp>K</scp>. <scp>M</scp>eyer. Plant Journal, 2013, 73, 131-142.	5.7	59
71	Multielement Plant Tissue Analysis Using ICP Spectrometry. Methods in Molecular Biology, 2013, 953, 121-141.	0.9	42
72	Elevated atmospheric CO2 decreases the ammonia compensation point of barley plants. Journal of Experimental Botany, 2013, 64, 2713-2724.	4.8	20

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73	Interactions between leaf nitrogen status and longevity in relation to N cycling in three contrasting European forest canopies. Biogeosciences, 2013, 10, 999-1011.	3.3	19
74	Bimolecular fluorescence complementation and interaction of variousArabidopsismajor intrinsic proteins expressed in yeast. Physiologia Plantarum, 2013, 148, 422-431.	5.2	13
75	Elevated Nicotianamine Levels in Arabidopsis halleri Roots Play a Key Role in Zinc Hyperaccumulation. Plant Cell, 2012, 24, 708-723.	6.6	209
76	Barley Metallothioneins: MT3 and MT4 Are Localized in the Grain Aleurone Layer and Show Differential Zinc Binding Â Â. Plant Physiology, 2012, 159, 1125-1137.	4.8	49
77	A genomics and multi-platform metabolomics approach to identify new traits of rice quality in traditional and improved varieties. Metabolomics, 2012, 8, 771-783.	3.0	43
78	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
79	Functions of Macronutrients. , 2012, , 135-189.		479
80	Zinc fluxes into developing barley grains: use of stable Zn isotopes to separate root uptake from remobilization in plants with contrasting Zn status. Plant and Soil, 2012, 361, 241-250.	3.7	40
81	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
82	Interactions between uptake of amino acids and inorganic nitrogen in wheat plants. Biogeosciences, 2012, 9, 1509-1518.	3.3	75
83	Seasonal variation in nitrogen pools and ¹⁵N/¹³C natural abundances in different tissues of grassland plants. Biogeosciences, 2012, 9, 1583-1595.	3.3	34
84	Activation of Rice nicotianamine synthase 2 (OsNAS2) Enhances Iron Availability for Biofortification. Molecules and Cells, 2012, 33, 269-276.	2.6	112
85	Bimolecular fluorescence complementation and interaction of variousArabidopsismajor intrinsic proteins expressed in yeast. Physiologia Plantarum, 2012, , n/a-n/a.	5.2	12
86	Megapixel imaging of (micro)nutrients in mature barley grains. Journal of Experimental Botany, 2011, 62, 273-282.	4.8	134
87	Review: The role of atomic spectrometry in plant science. Journal of Analytical Atomic Spectrometry, 2011, 26, 52-79.	3.0	65
88	Multielemental Fingerprinting as a Tool for Authentication of Organic Wheat, Barley, Faba Bean, and Potato. Journal of Agricultural and Food Chemistry, 2011, 59, 4385-4396.	5.2	106
89	Benefits of nitrogen for food, fibre and industrial production. , 2011, , 32-61.		34
90	Elevated Phosphorus Impedes Manganese Acquisition by Barley Plants. Frontiers in Plant Science, 2011, 2, 37.	3.6	59

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91	Bioâ€available zinc in rice seeds is increased by activation tagging of nicotianamine synthase. Plant Biotechnology Journal, 2011, 9, 865-873.	8.3	168
92	Responses of barley root and shoot proteomes to longâ€term nitrogen deficiency, shortâ€term nitrogen starvation and ammonium. Plant, Cell and Environment, 2011, 34, 2024-2037.	5.7	65
93	Extensive metabolic crossâ€talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. New Phytologist, 2011, 190, 683-696.	7.3	111
94	Seasonal variation in ammonia compensation point and nitrogen pools in beech leaves (Fagus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	3.7	31
95	The use of DGT for prediction of plant available copper, zinc and phosphorus in agricultural soils. Plant and Soil, 2011, 346, 167-180.	3.7	128
96	ICP-MS and LC-ICP-MS for Analysis of Trace Element Content and Speciation in Cereal Grains. Methods in Molecular Biology, 2011, 860, 193-211.	0.9	4
97	Interactions between nitrogen, phosphorus and potassium determine growth and N2-fixation in white clover and ryegrass leys. Nutrient Cycling in Agroecosystems, 2010, 87, 327-338.	2.2	19
98	Transmembrane nine proteins in yeast and Arabidopsis affect cellular metal contents without changing vacuolar morphology. Physiologia Plantarum, 2010, 140, 355-367.	5.2	13
99	A Combined Zinc/Cadmium Sensor and Zinc/Cadmium Export Regulator in a Heavy Metal Pump. Journal of Biological Chemistry, 2010, 285, 31243-31252.	3.4	73
100	Competition between uptake of ammonium and potassium in barley and Arabidopsis roots: molecular mechanisms and physiological consequences. Journal of Experimental Botany, 2010, 61, 2303-2315.	4.8	157
101	EFFECTS OF SILICON ON THE ACTIVITIES OF DEFENSE-RELATED ENZYMES IN CUCUMBER INOCULATED WITHPSEUDOPERONOSPORA CUBENSIS. Journal of Plant Nutrition, 2010, 34, 243-257.	1.9	7
102	Ammonia sources and sinks in an intensively managed grassland canopy. Biogeosciences, 2009, 6, 1903-1915.	3.3	48
103	Preface "Processes controlling the exchange of ammonia between grassland and the atmosphere (GRAMINAE) â€“ results from the Braunschweig field experiment". Biogeosciences, 2009, 6, 3149-3150.	3.3	2
104	Dynamics of ammonia exchange with cut grassland: strategy and implementation of the GRAMINAE Integrated Experiment. Biogeosciences, 2009, 6, 309-331.	3.3	51
105	SURFATM-NH3: a model combining the surface energy balance and bi-directional exchanges of ammonia applied at the field scale. Biogeosciences, 2009, 6, 1371-1388.	3.3	61
106	Temporal variability in bioassays of the stomatal ammonia compensation point in relation to plant and soil nitrogen parameters in intensively managed grassland. Biogeosciences, 2009, 6, 171-179.	3.3	64
107	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
108	Contribution of different grass species to plant-atmosphere ammonia exchange in intensively managed grassland. Biogeosciences, 2009, 6, 59-66.	3.3	20

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109	Vertical structure and diurnal variability of ammonia exchange potential within an intensively managed grass canopy. Biogeosciences, 2009, 6, 15-23.	3.3	33
110	The Arabidopsis ATP-binding Cassette Protein AtMRP5/AtABCC5 Is a High Affinity Inositol Hexakisphosphate Transporter Involved in Guard Cell Signaling and Phytate Storage. Journal of Biological Chemistry, 2009, 284, 33614-33622.	3.4	177
111	Iron fortification of rice seeds through activation of the nicotianamine synthase gene. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22014-22019.	7.1	341
112	Atmospheric composition change: Ecosystemsâ€“Atmosphere interactions. Atmospheric Environment, 2009, 43, 5193-5267.	4.1	609
113	Cloning, characterization and expression analysis of tonoplast intrinsic proteins and glutamine synthetase in ryegrass (Lolium perenne L.). Plant Cell Reports, 2009, 28, 1549-1562.	5.6	6
114	Latent manganese deficiency increases transpiration in barley (Hordeum vulgare). Physiologia Plantarum, 2009, 135, 307-316.	5.2	82
115	Identification and characterization of zinc-starvation-induced ZIP transporters from barley roots. Plant Physiology and Biochemistry, 2009, 47, 377-383.	5.8	73
116	Responses of cucumber plant to NH4+ and NO3â^' nutrition: The relative addition rate technique vs. cultivation at constant nitrogen concentration. Scientia Horticulturae, 2009, 121, 397-403.	3.6	37
117	Micro-scaled high-throughput digestion of plant tissue samples for multi-elemental analysis. Plant Methods, 2009, 5, 12.	4.3	114
118	Simultaneous iron, zinc, sulfur and phosphorus speciation analysis of barley grain tissues using SEC-ICP-MS and IP-ICP-MS. Metallomics, 2009, 1, 418.	2.4	151
119	Multi-elemental fingerprinting of plant tissue by semi-quantitative ICP-MS and chemometrics. Journal of Analytical Atomic Spectrometry, 2009, 24, 1198.	3.0	35
120	Gene expression, cellular localisation and function of glutamine synthetase isozymes in wheat (Triticum aestivum L.). Plant Molecular Biology, 2008, 67, 89-105.	3.9	172
121	Root Carbon Enrichment Alleviates Ammonium Toxicity in Cucumber Plants. Journal of Plant Nutrition, 2008, 31, 941-958.	1.9	51
122	Special topics in potassium and magnesium research. Physiologia Plantarum, 2008, 133, 623-623.	5.2	6
123	The effects of the loss of TIP1;1 and TIP1;2 aquaporins in Arabidopsis thaliana. Plant Journal, 2008, 56, 756-767.	5.7	71
124	Zinc biofortification of cereals: problems and solutions. Trends in Plant Science, 2008, 13, 464-473.	8.8	446
125	Effects of Nitrate and Potassium on Ammonium Toxicity in Cucumber Plants. Journal of Plant Nutrition, 2008, 31, 1270-1283.	1.9	60
126	Manganese Efficiency in Barley: Identification and Characterization of the Metal Ion Transporter HvIRT1. Plant Physiology, 2008, 148, 455-466.	4.8	182

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127	Effects of Ammonium Toxicity on Nitrogen Metabolism and Elemental Profile of Cucumber Plants. Journal of Plant Nutrition, 2007, 30, 1933-1951.	1.9	111
128	Challenges in quantifying biosphereâ€“atmosphere exchange of nitrogen species. Environmental Pollution, 2007, 150, 125-139.	7.5	203
129	Suppression of C-Hordein Synthesis in Barley by Antisense Constructs Results in a More Balanced Amino Acid Composition. Journal of Agricultural and Food Chemistry, 2007, 55, 6074-6081.	5.2	46
130	Specific Aquaporins Facilitate the Diffusion of Hydrogen Peroxide across Membranes. Journal of Biological Chemistry, 2007, 282, 1183-1192.	3.4	1,086
131	Multi-elemental speciation analysis of barley genotypes differing in tolerance to cadmium toxicity using SEC-ICP-MS and ESI-TOF-MS. Journal of Analytical Atomic Spectrometry, 2006, 21, 996.	3.0	38
132	Membrane transport of hydrogen peroxide. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 994-1003.	2.6	899
133	Antisense reduction of serine hydroxymethyltransferase results in diurnal displacement of NH4+assimilation in leaves ofSolanum tuberosum. Plant Journal, 2006, 45, 71-82.	5.7	25
134	Glufosinate treatment of weeds results in ammonia emission by plants. Agriculture, Ecosystems and Environment, 2005, 109, 129-140.	5.3	26
135	NH3 and NH4+ permeability in aquaporin-expressing Xenopus oocytes. Pflugers Archiv European Journal of Physiology, 2005, 450, 415-428.	2.8	229
136	Influence of nitrogen and sulphur form on manganese acquisition by barley (shape Hordeum vulgare). Plant and Soil, 2005, 268, 309-317.	3.7	37
137	A cation exchange resin method for measuring long-term potassium release rates from soil. Plant and Soil, 2005, 271, 63-74.	3.7	17
138	Genotypic differences in manganese efficiency: field experiments withâ£winter barley (Hordeum vulgare) Tj ETQq0 0 0 rgBT /Overlock 10	3.7	99
139	Differential Capacity for High-Affinity Manganese Uptake Contributes to Differences between Barley Genotypes in Tolerance to Low Manganese Availability. Plant Physiology, 2005, 139, 1411-1420.	4.8	73
140	Ammonia Emission from Mineral Fertilizers and Fertilized Crops. Advances in Agronomy, 2004, 82, 557-622.	5.2	342
141	Aquaporin homologues in plants and mammals transport ammonia. FEBS Letters, 2004, 574, 31-36.	2.8	297
142	Reflectance measurement of canopy biomass and nitrogen status in wheat crops using normalized difference vegetation indices and partial least squares regression. Remote Sensing of Environment, 2003, 86, 542-553.	11.0	925
143	Senescenceâ€induced changes in apoplastic and bulk tissue ammonia concentrations of ryegrass leaves. New Phytologist, 2003, 160, 489-499.	7.3	59
144	Photorespiratory NH4 Â+ Production in Leaves of Wild-Type and Glutamine Synthetase 2 Antisense Oilseed Rape. Plant Physiology, 2002, 130, 989-998.	4.8	67

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145	The Influence of Phosphorus Deficiency on Growth and Nitrogen Fixation of White Clover Plants. Annals of Botany, 2002, 90, 745-753.	2.9	138
146	Dynamic and Steady-State Responses of Inorganic Nitrogen Pools and NH3 Exchange in Leaves ofLolium perenneandBromus erectusto Changes in Root Nitrogen Supply. Plant Physiology, 2002, 128, 742-750.	4.8	63
147	Leafâ€“atmosphere NH3 exchange of white clover (Trifolium repens L.) in relation to mineral N nutrition and symbiotic N2 fixation. Journal of Experimental Botany, 2002, 53, 139-146.	4.8	9
148	The regulation of ammonium translocation in plants. Journal of Experimental Botany, 2002, 53, 883-890.	4.8	153
149	Leafâ€“atmosphere NH 3 exchange of white clover (Trifolium repens L.) in relation to mineral N nutrition and symbiotic N 2 fixation. Journal of Experimental Botany, 2002, 53, 139-146.	4.8	7
150	Effect of NO3 - supply on N metabolism of potato plants (Solanum tuberosum L.) with special focus on the tubers. Plant, Cell and Environment, 2002, 25, 999-1009.	5.7	42
151	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
152	Leaf-atmosphere NH(3) exchange of white clover (Trifolium repens L.) in relation to mineral N nutrition and symbiotic N(2) fixation. Journal of Experimental Botany, 2002, 53, 139-46.	4.8	3
153	Regrowth and Nutrient Composition of Different Plant Organs in Grass-clover Canopies as Affected by Phosphorus and Potassium Availability. Annals of Botany, 2001, 88, 153-162.	2.9	9
154	Rhizodeposition of nitrogen by red clover, white clover and ryegrass leys. Soil Biology and Biochemistry, 2001, 33, 439-448.	8.8	143
155	Title is missing!. Plant and Soil, 2001, 230, 239-246.	3.7	37
156	A pulse-labelling method to generate 13C- enriched plant materials. Plant and Soil, 2001, 235, 253-257.	3.7	55
157	Title is missing!. Plant and Soil, 2001, 228, 131-145.	3.7	79
158	Title is missing!. Plant and Soil, 2001, 228, 105-115.	3.7	80
159	Post-translational regulation of cytosolic glutamine synthetase by reversible phosphorylation and 14-3-3 protein interaction. Plant Journal, 2000, 24, 171-181.	5.7	133
160	A critical experimental evaluation of methods for determination of NH4 + in plant tissue, xylem sap and apoplastic fluid. Physiologia Plantarum, 2000, 109, 167-179.	5.2	140
161	Physiological regulation of plant-atmosphere ammonia exchange. Plant and Soil, 2000, 221, 95-102.	3.7	69
162	Title is missing!. Plant and Soil, 2000, 227, 171-183.	3.7	103

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163	Regulation of High-Affinity Nitrate Transporter Genes and High-Affinity Nitrate Influx by Nitrogen Pools in Roots of Barley. Plant Physiology, 2000, 123, 307-318.	4.8	218
164	Fluxes of ammonia over oilseed rape. Agricultural and Forest Meteorology, 2000, 105, 327-349.	4.8	32
165	Micrometeorological measurements of net ammonia fluxes over oilseed rape during two vegetation periods. Agricultural and Forest Meteorology, 2000, 105, 351-369.	4.8	49
166	Stomatal compensation points for ammonia in oilseed rape plants under field conditions. Agricultural and Forest Meteorology, 2000, 105, 371-383.	4.8	68
167	Sources and sinks of ammonia within an oilseed rape canopy. Agricultural and Forest Meteorology, 2000, 105, 385-404.	4.8	99
168	Resistance modelling of ammonia exchange over oilseed rape. Agricultural and Forest Meteorology, 2000, 105, 405-425.	4.8	131
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