

# Jan Kofod Schjoerring

## List of Publications by Year in descending order

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213  
papers

18,264  
citations

14124  
69  
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18944  
123  
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213  
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213  
docs citations

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times ranked

20085  
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 $\text{CO}_2$ . <i>Physiologia Plantarum</i> , 2022, 174, e13624.	2.6	3
2	Can silicon in glacial rock flour enhance phosphorus availability in acidic tropical soil?. <i>Plant and Soil</i> , 2022, 477, 241-258.	1.8	4
3	Leaf Scorching following Foliar Fertilization of Wheat with Urea or Urea+Ammonium Nitrate Is Caused by Ammonium Toxicity. <i>Agronomy</i> , 2022, 12, 1405.	1.3	7
4	The molecular physiological functions of mineral macronutrients and their consequences for deficiency symptoms in plants. <i>New Phytologist</i> , 2021, 229, 2446-2469.	3.5	217
5	Assessing the variation in traits for manganese deficiency tolerance among maize genotypes. <i>Environmental and Experimental Botany</i> , 2021, 183, 104344.	2.0	10
6	Temporal and Spatial Patterns of Zinc and Iron Accumulation during Barley ( <i>Hordeum vulgare</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.4	12
7	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.	2.6	31
8	High light intensity aggravates latent manganese deficiency in maize. <i>Journal of Experimental Botany</i> , 2020, 71, 6116-6127.	2.4	7
9	Residual nitrogen pools in mature winter wheat straw as affected by nitrogen application. <i>Plant and Soil</i> , 2020, 453, 561-575.	1.8	1
10	The potential for biorefining of triticale to protein and sugar depends on nitrogen supply and harvest time. <i>Industrial Crops and Products</i> , 2020, 149, 112333.	2.5	8
11	Bioimaging Techniques Reveal Foliar Phosphate Uptake Pathways and Leaf Phosphorus Status. <i>Plant Physiology</i> , 2020, 183, 1472-1483.	2.3	22
12	Towards single-cell ionomics: a novel micro-scaled method for multi-element analysis of nanogram-sized biological samples. <i>Plant Methods</i> , 2020, 16, 31.	1.9	10
13	Carbon-nitrogen interactions in European forests and semi-natural vegetation Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. <i>Biogeosciences</i> , 2020, 17, 1583-1620.	1.3	21
14	Comparative Metabolomics and Molecular Phylogenetics of Melon ( <i>Cucumis melo</i> , Cucurbitaceae) Biodiversity. <i>Metabolites</i> , 2020, 10, 121.	1.3	35
15	The source of inorganic nitrogen has distinct effects on cell wall composition in <i>Brachypodium distachyon</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 6461-6473.	2.4	16
16	Breeding for dual-purpose wheat varieties using marker-trait associations for biomass yield and quality traits. <i>Theoretical and Applied Genetics</i> , 2019, 132, 3375-3398.	1.8	15
17	Investigating the foliar uptake of zinc from conventional and nano-formulations: a methodological study. <i>Environmental Chemistry</i> , 2019, 16, 459.	0.7	19
18	The search for candidate genes associated with natural variation of grain Zn accumulation in barley. <i>Biochemical Journal</i> , 2019, 476, 1889-1909.	1.7	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. <i>GCB Bioenergy</i> , 2019, 11, 400-415.	2.5	15
20	Green biorefining: Effect of nitrogen fertilization on protein yield, protein extractability and amino acid composition of tall fescue biomass. <i>Industrial Crops and Products</i> , 2019, 130, 642-652.	2.5	12
21	The Intensity of Manganese Deficiency Strongly Affects Root Endodermal Suberization and Ion Homeostasis. <i>Plant Physiology</i> , 2019, 181, 729-742.	2.3	35
22	Improvement of Tryptophan Analysis by Liquid Chromatography-Single Quadrupole Mass Spectrometry Through the Evaluation of Multiple Parameters. <i>Frontiers in Chemistry</i> , 2019, 7, 797.	1.8	22
23	Enhancing Protein Recovery in Green Biorefineries by Lignosulfonate-Assisted Precipitation. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, .	1.8	18
24	Nanomaterials as fertilizers for improving plant mineral nutrition and environmental outcomes. <i>Environmental Science: Nano</i> , 2019, 6, 3513-3524.	2.2	99
25	Plant nutrition and soil fertility: synergies for acquiring global green growth and sustainable development. <i>Plant and Soil</i> , 2019, 434, 1-6.	1.8	43
26	Cisgenic overexpression of cytosolic glutamine synthetase improves nitrogen utilization efficiency in barley and prevents grain protein decline under elevated CO <sub>2</sub> . <i>Plant Biotechnology Journal</i> , 2019, 17, 1209-1221.	4.1	52
27	Silicon affects seed development and leaf macrohair formation in <i>Brachypodium distachyon</i> . <i>Physiologia Plantarum</i> , 2018, 163, 231-246.	2.6	12
28	The iron-regulated transporter 1 plays an essential role in uptake, translocation and grain loading of manganese, but not iron, in barley. <i>New Phytologist</i> , 2018, 217, 1640-1653.	3.5	37
29	Plant nutrition for global green growth. <i>Physiologia Plantarum</i> , 2018, 163, 268-268.	2.6	1
30	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.	2.4	95
31	The impact of silicon on cell wall composition and enzymatic saccharification of <i>Brachypodium distachyon</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 171.	6.2	55
32	High-throughput analysis of amino acids in plant materials by single quadrupole mass spectrometry. <i>Plant Methods</i> , 2018, 14, 8.	1.9	47
33	External nitrogen input affects pre- and post-harvest cell wall composition but not the enzymatic saccharification of wheat straw. <i>Biomass and Bioenergy</i> , 2017, 98, 70-79.	2.9	10
34	Phylogenetic analysis of F-bZIP transcription factors indicates conservation of the zinc deficiency response across land plants. <i>Scientific Reports</i> , 2017, 7, 3806.	1.6	46
35	Layered Double Hydroxides: Potential Release-on-Demand Fertilizers for Plant Zinc Nutrition. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8779-8789.	2.4	31
36	Photosystem II Functionality in Barley Responds Dynamically to Changes in Leaf Manganese Status. <i>Frontiers in Plant Science</i> , 2016, 7, 1772.	1.7	34

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37	Molecular speciation and tissue compartmentation of zinc in durum wheat grains with contrasting nutritional status. <i>New Phytologist</i> , 2016, 211, 1255-1265.	3.5	77
38	Silicon enhances leaf remobilization of iron in cucumber under limited iron conditions. <i>Annals of Botany</i> , 2016, 118, 271-280.	1.4	51
39	Multi-element bioimaging of <i>Arabidopsis thaliana</i> roots. <i>Plant Physiology</i> , 2016, 172, pp.00770.2016.	2.3	38
40	Peering into the separate roles of root and shoot cytosolic glutamine synthetase 1;2 by use of grafting experiments in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2016, 11, e1245253.	1.2	8
41	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.	2.3	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. <i>Metabolomics</i> , 2016, 12, 38.	1.4	28
43	Tonoplast Aquaporins Facilitate Lateral Root Emergence. <i>Plant Physiology</i> , 2016, 170, 1640-1654.	2.3	53
44	A laser ablation ICP-MS based method for multiplexed immunoblot analysis: applications to manganese-dependent protein dynamics of photosystem II in barley ( <i>Hordeum vulgare</i> ). <i>Plant Journal</i> , 2015, 83, 555-565.	2.8	16
45	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.	2.4	72
46	Contrasting effects of nicotianamine synthase knockdown on zinc and nickel tolerance and accumulation in the zinc/cadmium hyperaccumulator <i>Arabidopsis halleri</i> . <i>New Phytologist</i> , 2015, 206, 738-750.	3.5	53
47	Metal Binding in Photosystem II Super- and Subcomplexes from Barley Thylakoids. <i>Plant Physiology</i> , 2015, 168, 1490-1502.	2.3	42
48	Sensitive Detection of Phosphorus Deficiency in Plants Using Chlorophyll <i>a</i> Fluorescence. <i>Plant Physiology</i> , 2015, 169, 353-361.	2.3	65
49	Concentration of mineral elements in wheat ( <i>Triticum aestivum</i> L.) straw: Genotypic differences and consequences for enzymatic saccharification. <i>Biomass and Bioenergy</i> , 2015, 75, 134-141.	2.9	13
50	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.	8.2	209
51	An assessment of the biotechnological use of hemoglobin modulation in cereals. <i>Physiologia Plantarum</i> , 2014, 150, 593-603.	2.6	30
52	Barley metallothioneins differ in ontogenetic pattern and response to metals. <i>Plant, Cell and Environment</i> , 2014, 37, 353-367.	2.8	30
53	The slippery slope of cisgenesis. <i>Nature Biotechnology</i> , 2014, 32, 727-727.	9.4	12
54	Biorefining of wheat straw: accounting for the distribution of mineral elements in pretreated biomass by an extended pretreatment-severity equation. <i>Biotechnology for Biofuels</i> , 2014, 7, 141.	6.2	16

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55	Policies for agricultural nitrogen management—trends, challenges and prospects for improved efficiency in Denmark. <i>Environmental Research Letters</i> , 2014, 9, 115002.	2.2	184
56	Bacterial diversity in Greenlandic soils as affected by potato cropping and inorganic versus organic fertilization. <i>Polar Biology</i> , 2014, 37, 61-71.	0.5	55
57	Cytosolic glutamine synthetase: a target for improvement of crop nitrogen use efficiency?. <i>Trends in Plant Science</i> , 2014, 19, 656-663.	4.3	227
58	Plant mineral nutrition for nutrient and food security. <i>Physiologia Plantarum</i> , 2014, 151, 199-199.	2.6	1
59	Nitrogen fertilization affects silicon concentration, cell wall composition and biofuel potential of wheat straw. <i>Biomass and Bioenergy</i> , 2014, 64, 291-298.	2.9	33
60	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.	5.8	74
61	Golgi Localized Barley MTP8 Proteins Facilitate Mn Transport. <i>PLoS ONE</i> , 2014, 9, e113759.	1.1	60
62	Latent manganese deficiency in barley can be diagnosed and remediated on the basis of chlorophyll a fluorescence measurements. <i>Plant and Soil</i> , 2013, 372, 417-429.	1.8	60
63	Model of how plants sense zinc deficiency. <i>Metallomics</i> , 2013, 5, 1110.	1.0	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). <i>Analytical Chemistry</i> , 2013, 85, 5047-5054.	3.2	26
65	Silicon alleviates iron deficiency in cucumber by promoting mobilization of iron in the root apoplast. <i>New Phytologist</i> , 2013, 198, 1096-1107.	3.5	185
66	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.	2.5	145
67	Structural and chemical analysis of process residue from biochemical conversion of wheat straw ( <i>Triticum aestivum</i> L.) to ethanol. <i>Biomass and Bioenergy</i> , 2013, 56, 572-581.	2.9	26
68	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.	4.2	75
69	Metabolomic and elemental profiling of melon fruit quality as affected by genotype and environment. <i>Metabolomics</i> , 2013, 9, 57-77.	1.4	74
70	A proteomics approach to investigate the process of <i>Zn</i> hyperaccumulation in <i>Nocca caerulea</i> ( <i>N. caerulea</i> ) & <i>C. pteris</i> ( <i>C. pteris</i> ). <i>Plant Journal</i> , 2013, 73, 131-142.	2.8	59
71	Multielement Plant Tissue Analysis Using ICP Spectrometry. <i>Methods in Molecular Biology</i> , 2013, 953, 121-141.	0.4	42
72	Elevated atmospheric CO <sub>2</sub> decreases the ammonia compensation point of barley plants. <i>Journal of Experimental Botany</i> , 2013, 64, 2713-2724.	2.4	20

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73	Interactions between leaf nitrogen status and longevity in relation to N cycling in three contrasting European forest canopies. <i>Biogeosciences</i> , 2013, 10, 999-1011.	1.3	19
74	Bimolecular fluorescence complementation and interaction of various <i>Arabidopsis</i> major intrinsic proteins expressed in yeast. <i>Physiologia Plantarum</i> , 2013, 148, 422-431.	2.6	13
75	Elevated Nicotianamine Levels in <i>Arabidopsis halleri</i> Roots Play a Key Role in Zinc Hyperaccumulation. <i>Plant Cell</i> , 2012, 24, 708-723.	3.1	209
76	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.	2.3	49
77	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.	1.4	43
78	Losses of essential mineral nutrients by polishing of rice differ among genotypes due to contrasting grain hardness and mineral distribution. <i>Journal of Cereal Science</i> , 2012, 56, 307-315.	1.8	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. <i>Plant and Soil</i> , 2012, 361, 241-250.	1.8	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. <i>PLoS ONE</i> , 2012, 7, e49027.	1.1	56
82	Interactions between uptake of amino acids and inorganic nitrogen in wheat plants. <i>Biogeosciences</i> , 2012, 9, 1509-1518.	1.3	75
83	Seasonal variation in nitrogen pools and $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ natural abundances in different tissues of grassland plants. <i>Biogeosciences</i> , 2012, 9, 1583-1595.	1.3	34
84	Activation of Rice nicotianamine synthase 2 (OsNAS2) Enhances Iron Availability for Biofortification. <i>Molecules and Cells</i> , 2012, 33, 269-276.	1.0	112
85	Bimolecular fluorescence complementation and interaction of various <i>Arabidopsis</i> major intrinsic proteins expressed in yeast. <i>Physiologia Plantarum</i> , 2012, , n/a-n/a.	2.6	12
86	Megapixel imaging of (micro)nutrients in mature barley grains. <i>Journal of Experimental Botany</i> , 2011, 62, 273-282.	2.4	134
87	Review: The role of atomic spectrometry in plant science. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 52-79.	1.6	65
88	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.	2.4	106
89	Benefits of nitrogen for food, fibre and industrial production. , 2011, , 32-61.		34
90	Elevated Phosphorus Impedes Manganese Acquisition by Barley Plants. <i>Frontiers in Plant Science</i> , 2011, 2, 37.	1.7	59

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91	Bioavailable zinc in rice seeds is increased by activation tagging of <i>nicotianamine synthase</i> . <i>Plant Biotechnology Journal</i> , 2011, 9, 865-873.	4.1	168
92	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.	2.8	65
93	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , 2011, 190, 683-696.	3.5	111
94	Seasonal variation in ammonia compensation point and nitrogen pools in beech leaves ( <i>Fagus</i> ). <i>Tree Physiology</i> , 2011, 31, 107-115.	1.8	31
95	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.	1.8	128
96	ICP-MS and LC-ICP-MS for Analysis of Trace Element Content and Speciation in Cereal Grains. <i>Methods in Molecular Biology</i> , 2011, 860, 193-211.	0.4	4
97	Interactions between nitrogen, phosphorus and potassium determine growth and N <sub>2</sub> -fixation in white clover and ryegrass leys. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 87, 327-338.	1.1	19
98	Transmembrane nine proteins in yeast and <i>Arabidopsis</i> affect cellular metal contents without changing vacuolar morphology. <i>Physiologia Plantarum</i> , 2010, 140, 355-367.	2.6	13
99	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.	1.6	73
100	Competition between uptake of ammonium and potassium in barley and <i>Arabidopsis</i> roots: molecular mechanisms and physiological consequences. <i>Journal of Experimental Botany</i> , 2010, 61, 2303-2315.	2.4	157
101	EFFECTS OF SILICON ON THE ACTIVITIES OF DEFENSE-RELATED ENZYMES IN CUCUMBER INOCULATED WITH <i>PSEUDOPERONOSPORA CUBENSIS</i> . <i>Journal of Plant Nutrition</i> , 2010, 34, 243-257.	0.9	7
102	Ammonia sources and sinks in an intensively managed grassland canopy. <i>Biogeosciences</i> , 2009, 6, 1903-1915.	1.3	48
103	Preface "Processes controlling the exchange of ammonia between grassland and the atmosphere (GRAMINAE) – results from the Braunschweig field experiment". <i>Biogeosciences</i> , 2009, 6, 3149-3150.	1.3	2
104	Dynamics of ammonia exchange with cut grassland: strategy and implementation of the GRAMINAE Integrated Experiment. <i>Biogeosciences</i> , 2009, 6, 309-331.	1.3	51
105	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.	1.3	61
106	Temporal variability in bioassays of the stomatal ammonia compensation point in relation to plant and soil nitrogen parameters in intensively managed grassland. <i>Biogeosciences</i> , 2009, 6, 171-179.	1.3	64
107	Dynamics of ammonia exchange with cut grassland: synthesis of results and conclusions of the GRAMINAE Integrated Experiment. <i>Biogeosciences</i> , 2009, 6, 2907-2934.	1.3	55
108	Contribution of different grass species to plant-atmosphere ammonia exchange in intensively managed grassland. <i>Biogeosciences</i> , 2009, 6, 59-66.	1.3	20

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109	Vertical structure and diurnal variability of ammonia exchange potential within an intensively managed grass canopy. <i>Biogeosciences</i> , 2009, 6, 15-23.	1.3	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. <i>Journal of Biological Chemistry</i> , 2009, 284, 33614-33622.	1.6	177
111	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.	3.3	341
112	Atmospheric composition change: Ecosystems' Atmosphere interactions. <i>Atmospheric Environment</i> , 2009, 43, 5193-5267.	1.9	609
113	Cloning, characterization and expression analysis of tonoplast intrinsic proteins and glutamine synthetase in ryegrass ( <i>Lolium perenne</i> L.). <i>Plant Cell Reports</i> , 2009, 28, 1549-1562.	2.8	6
114	Latent manganese deficiency increases transpiration in barley ( <i>Hordeum vulgare</i> ). <i>Physiologia Plantarum</i> , 2009, 135, 307-316.	2.6	82
115	Identification and characterization of zinc-starvation-induced ZIP transporters from barley roots. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 377-383.	2.8	73
116	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. <i>Scientia Horticulturae</i> , 2009, 121, 397-403.	1.7	37
117	Micro-scaled high-throughput digestion of plant tissue samples for multi-elemental analysis. <i>Plant Methods</i> , 2009, 5, 12.	1.9	114
118	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.	1.0	151
119	Multi-elemental fingerprinting of plant tissue by semi-quantitative ICP-MS and chemometrics. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1198.	1.6	35
120	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.	2.0	172
121	Root Carbon Enrichment Alleviates Ammonium Toxicity in Cucumber Plants. <i>Journal of Plant Nutrition</i> , 2008, 31, 941-958.	0.9	51
122	Special topics in potassium and magnesium research. <i>Physiologia Plantarum</i> , 2008, 133, 623-623.	2.6	6
123	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.	2.8	71
124	Zinc biofortification of cereals: problems and solutions. <i>Trends in Plant Science</i> , 2008, 13, 464-473.	4.3	446
125	Effects of Nitrate and Potassium on Ammonium Toxicity in Cucumber Plants. <i>Journal of Plant Nutrition</i> , 2008, 31, 1270-1283.	0.9	60
126	Manganese Efficiency in Barley: Identification and Characterization of the Metal Ion Transporter HvIRT1. <i>Plant Physiology</i> , 2008, 148, 455-466.	2.3	182



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127	Effects of Ammonium Toxicity on Nitrogen Metabolism and Elemental Profile of Cucumber Plants. <i>Journal of Plant Nutrition</i> , 2007, 30, 1933-1951.	0.9	111
128	Challenges in quantifying biosphere-atmosphere exchange of nitrogen species. <i>Environmental Pollution</i> , 2007, 150, 125-139.	3.7	203
129	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.	2.4	46
130	Specific Aquaporins Facilitate the Diffusion of Hydrogen Peroxide across Membranes. <i>Journal of Biological Chemistry</i> , 2007, 282, 1183-1192.	1.6	1,086
131	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.	1.6	38
132	Membrane transport of hydrogen peroxide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 994-1003.	1.4	899
133	Antisense reduction of serine hydroxymethyltransferase results in diurnal displacement of NH <sub>4</sub> <sup>+</sup> assimilation in leaves of <i>Solanum tuberosum</i> . <i>Plant Journal</i> , 2006, 45, 71-82.	2.8	25
134	Glufosinate treatment of weeds results in ammonia emission by plants. <i>Agriculture, Ecosystems and Environment</i> , 2005, 109, 129-140.	2.5	26
135	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.	1.3	229
136	Influence of nitrogen and sulphur form on manganese acquisition by barley (shape <i>Hordeum vulgare</i> ). <i>Plant and Soil</i> , 2005, 268, 309-317.	1.8	37
137	A cation exchange resin method for measuring long-term potassium release rates from soil. <i>Plant and Soil</i> , 2005, 271, 63-74.	1.8	17
138	Genotypic differences in manganese efficiency: field experiments with winter barley ( <i>Hordeum vulgare</i> ) Tj ETQq0 0.0 rgBT /Overlock 10	1.8	99
139	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.	2.3	73
140	Ammonia Emission from Mineral Fertilizers and Fertilized Crops. <i>Advances in Agronomy</i> , 2004, 82, 557-622.	2.4	342
141	Aquaporin homologues in plants and mammals transport ammonia. <i>FEBS Letters</i> , 2004, 574, 31-36.	1.3	297
142	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.	4.6	925
143	Senescence-induced changes in apoplastic and bulk tissue ammonia concentrations of ryegrass leaves. <i>New Phytologist</i> , 2003, 160, 489-499.	3.5	59
144	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.	2.3	67

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145	The Influence of Phosphorus Deficiency on Growth and Nitrogen Fixation of White Clover Plants. <i>Annals of Botany</i> , 2002, 90, 745-753.	1.4	138
146	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.	2.3	63
147	Leaf-atmosphere NH <sub>3</sub> exchange of white clover ( <i>Trifolium repens</i> L.) in relation to mineral N nutrition and symbiotic N <sub>2</sub> fixation. <i>Journal of Experimental Botany</i> , 2002, 53, 139-146.	2.4	9
148	The regulation of ammonium translocation in plants. <i>Journal of Experimental Botany</i> , 2002, 53, 883-890.	2.4	153
149	Leaf-atmosphere NH <sub>3</sub> exchange of white clover ( <i>Trifolium repens</i> L.) in relation to mineral N nutrition and symbiotic N <sub>2</sub> fixation. <i>Journal of Experimental Botany</i> , 2002, 53, 139-146.	2.4	7
150	Effect of NO <sub>3</sub> <sup>-</sup> 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.	2.8	42
151	Regulation of the high-affinity ammonium transporter (BnAMT1;2) in the leaves of <i>Brassica napus</i> by nitrogen status. <i>Plant Molecular Biology</i> , 2002, 49, 483-490.	2.0	53
152	Leaf-atmosphere NH <sub>3</sub> exchange of white clover ( <i>Trifolium repens</i> L.) in relation to mineral N nutrition and symbiotic N <sub>2</sub> fixation. <i>Journal of Experimental Botany</i> , 2002, 53, 139-146.	2.4	3
153	Regrowth and Nutrient Composition of Different Plant Organs in Grass-clover Canopies as Affected by Phosphorus and Potassium Availability. <i>Annals of Botany</i> , 2001, 88, 153-162.	1.4	9
154	Rhizodeposition of nitrogen by red clover, white clover and ryegrass leys. <i>Soil Biology and Biochemistry</i> , 2001, 33, 439-448.	4.2	143
155	Title is missing!. <i>Plant and Soil</i> , 2001, 230, 239-246.	1.8	37
156	A pulse-labelling method to generate <sup>13</sup> C-enriched plant materials. <i>Plant and Soil</i> , 2001, 235, 253-257.	1.8	55
157	Title is missing!. <i>Plant and Soil</i> , 2001, 228, 131-145.	1.8	79
158	Title is missing!. <i>Plant and Soil</i> , 2001, 228, 105-115.	1.8	80
159	Post-translational regulation of cytosolic glutamine synthetase by reversible phosphorylation and 14-3-3 protein interaction. <i>Plant Journal</i> , 2000, 24, 171-181.	2.8	133
160	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.	2.6	140
161	Physiological regulation of plant-atmosphere ammonia exchange. <i>Plant and Soil</i> , 2000, 221, 95-102.	1.8	69
162	Title is missing!. <i>Plant and Soil</i> , 2000, 227, 171-183.	1.8	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. <i>Plant Physiology</i> , 2000, 123, 307-318.	2.3	218
164	Fluxes of ammonia over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 327-349.	1.9	32
165	Micrometeorological measurements of net ammonia fluxes over oilseed rape during two vegetation periods. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 351-369.	1.9	49
166	Stomatal compensation points for ammonia in oilseed rape plants under field conditions. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 371-383.	1.9	68
167	Sources and sinks of ammonia within an oilseed rape canopy. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 385-404.	1.9	99
168	Resistance modelling of ammonia exchange over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 405-425.	1.9	131
169	Surface/atmosphere exchange and chemical interaction of gases and aerosols over oilseed rape. <i>Agricultural and Forest Meteorology</i> , 2000, 105, 427-445.	1.9	38
170	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.	2.6	82
171	Uptake and utilization of atmospheric ammonia in three native Poaceae species: leaf conductances, composition of apoplastic solution and interactions with root nitrogen supply. <i>New Phytologist</i> , 1999, 141, 71-83.	3.5	37
172	Title is missing!. <i>Plant and Soil</i> , 1999, 208, 293-305.	1.8	59
173	Regulation of the hvst1 gene encoding a high-affinity sulfate transporter from <i>Hordeum vulgare</i> . <i>Plant Molecular Biology</i> , 1999, 40, 883-892.	2.0	77
174	Inorganic Nitrogen Absorption by Plant Roots. , 1999, , 1-16.		3
175	Regulation of Ammonium Distribution in Plants. , 1999, , 69-82.		1
176	Influence of nitrogen nutrition and metabolism on ammonia volatilization in plants. <i>Nutrient Cycling in Agroecosystems</i> , 1998, 51, 35-40.	1.1	72
177	Physiological parameters controlling plant-atmosphere ammonia exchange. <i>Atmospheric Environment</i> , 1998, 32, 491-498.	1.9	120
178	Soil-atmosphere ammonia exchange associated with <i>Calluna vulgaris</i> and <i>Deschampsia flexuosa</i> . <i>Atmospheric Environment</i> , 1998, 32, 507-512.	1.9	29
179	Ammonium and soluble amide-bound nitrogen in leaves of <i>Brassica napus</i> as related to glutamine synthetase activity and external N supply. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 339-346.	2.8	13
180	Atmospheric ammonia and impacts of nitrogen deposition: uncertainties and challenges. <i>New Phytologist</i> , 1998, 139, 59-60.	3.5	10

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182	Regulation of Apoplastic NH <sub>4</sub> <sup>+</sup> Concentration in Leaves of Oilseed Rape. <i>Plant Physiology</i> , 1998, 118, 1361-1368.	2.3	90
183	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.	1.5	78
184	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
185	Leaf-Atmosphere NH <sub>3</sub> Exchange in Barley Mutants with Reduced Activities of Glutamine Synthetase. <i>Plant Physiology</i> , 1997, 114, 1307-1312.	2.3	70
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188	Residual nitrogen effect of clover-ryegrass swards on yield and N uptake of a subsequent winter wheat crop as studied by use of 15N methodology and mathematical modelling. <i>European Journal of Agronomy</i> , 1997, 6, 235-243.	1.9	20
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190	Title is missing!. <i>Plant and Soil</i> , 1997, 197, 187-199.	1.8	132
191	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.	2.8	29
192	Ammonia exchange between plants and the atmosphere: Effects of ammonium supply to the roots, dark-induced senescence and reduced GS activity. , 1997, , 827-831.		5
193	A Passive Flux Sampler for Measuring Ammonia Volatilization from Manure Storage Facilities. <i>Journal of Environmental Quality</i> , 1996, 25, 241-247.	1.0	40
194	Photosynthesis in leaves and siliques of winter oilseed rape ( <i>Brassica napus</i> L.). <i>Plant and Soil</i> , 1996, 186, 227-236.	1.8	85
195	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.	2.8	67
196	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>		
197	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.	2.4	77
198	Leaf Photosynthesis and Drought Adaptation in Field-Grown Oilseed Rape ( <i>Brassica napus</i> L.). <i>Functional Plant Biology</i> , 1996, 23, 631.	1.1	52

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201	Symbiotic N <sub>2</sub> -fixation by the cover crop Pueraria phaseoloides as influenced by litter mineralization. Plant and Soil, 1995, 177, 1-10.	1.8	12
202	A computer-controlled system for studying ammonia exchange, photosynthesis and transpiration of plant canopies growing under controlled environmental conditions. Plant, Cell and Environment, 1995, 18, 1070-1077.	2.8	25
203	Ammonia Volatilization in Relation to Nitrogen Nutrition of Young Brassica napus Plants Growing with Controlled Nitrogen Supply. Journal of Plant Physiology, 1995, 147, 306-312.	1.6	16
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211	Phosphorus export from roots to shoots of barley, buckwheat and rape seedlings with different P status. Physiologia Plantarum, 1987, 70, 58-64.	2.6	8
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