Jagdish Kumar Ladha

List of Publications by Year
in descending order

176 papers	15,904 citations	15001 68 h-index	20625 120 g-index
179 all docs	179 docs citations	179 times ranked	10215 citing authors

#	Article	IF	Citations
1	Quantifying N leaching losses as a function of N balance: A path to sustainable food supply chains. Agriculture, Ecosystems and Environment, 2022, 324, 107714.	2.5	20
2	Steady agronomic and genetic interventions are essential for sustaining productivity in intensive rice cropping. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	13
3	The 4p1000 initiative: Opportunities, limitations and challenges for implementing soil organic carbon sequestration as a sustainable development strategy. Ambio, 2020, 49, 350-360.	2.8	208
4	Conservation agriculture for sustainable intensification in South Asia. Nature Sustainability, 2020, 3, 336-343.	11.5	135
5	Can productivity and profitability be enhanced in intensively managed cereal systems while reducing the environmental footprint of production? Assessing sustainable intensification options in the breadbasket of India. Agriculture, Ecosystems and Environment, 2018, 252, 132-147.	2.5	144
6	Changes in soil biology under conservation agriculture based sustainable intensification of cereal systems in Indo-Gangetic Plains. Geoderma, 2018, 313, 193-204.	2.3	124
7	A global analysis of alternative tillage and crop establishment practices for economically and environmentally efficient rice production. Scientific Reports, 2017, 7, 9342.	1.6	94
8	Growing Rice in Eastern India: New Paradigms of Risk Reduction and Improving Productivity. , 2017, , 221-258.		8
9	Preventive Weed Management in Direct-Seeded Rice. Advances in Agronomy, 2017, 144, 45-142.	2.4	37
10	Agronomic improvements can make future cereal systems in South Asia far more productive and result in a lower environmental footprint. Global Change Biology, 2016, 22, 1054-1074.	4.2	70
11	Global nitrogen budgets in cereals: A 50-year assessment for maize, rice and wheat production systems. Scientific Reports, 2016, 6, 19355.	1.6	343
12	Quantifying changes to the global warming potential of rice wheat systems with the adoption of conservation agriculture in northwestern India. Agriculture, Ecosystems and Environment, 2016, 219, 125-137.	2.5	44
13	Improvement of cereal-based cropping systems following the principles of conservation agriculture under changing agricultural scenarios in Bangladesh. Field Crops Research, 2015, 175, 1-15.	2.3	26
14	Weeds and Weed Management of Rice in Karnataka State, India. Weed Technology, 2015, 29, 1-17.	0.4	19
15	Assessing the performance of the photoâ€acoustic infrared gas monitor for measuring <scp><scp>CO₂</scp></scp>, <scp><scp>N₂O</scp></scp>, and <scp><scp>CH₄</scp></scp> fluxes in two major cereal rotations. Global Change Biology, 2014, 20, 287-299.	4.2	20
16	Integration of conservation agriculture with best management practices for improving system performance of the riceâ€“wheat rotation in the Eastern Indo-Gangetic Plains of India. Agriculture, Ecosystems and Environment, 2014, 195, 68-82.	2.5	86
17	Reprint of â€œOptimizing intensive cereal-based cropping systems addressing current and future drivers of agricultural change in the Northwestern Indo-Gangetic Plains of Indiaâ€. Agriculture, Ecosystems and Environment, 2014, 187, 33-46.	2.5	34
18	Optimizing intensive cereal-based cropping systems addressing current and future drivers of agricultural change in the northwestern Indo-Gangetic Plains of India. Agriculture, Ecosystems and Environment, 2013, 177, 85-97.	2.5	196

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19	Integrating best management practices for rice with farmersâ€™ crop management techniques: A potential option for minimizing rice yield gap. Field Crops Research, 2013, 144, 62-68.	2.3	64
20	Weed Management Strategies to Reduce Herbicide Use in Zero-Till Riceâ€“Wheat Cropping Systems of the Indo-Gangetic Plains. Weed Technology, 2013, 27, 241-254.	0.4	82
21	Using remote sensing technologies to enhance resource conservation and agricultural productivity in underutilized lands of South Asia. Applied Geography, 2012, 32, 757-765.	1.7	7
22	Comparative efficacy of pretilachlor and hand weeding in managing weeds and improving the productivity and net income of wet-seeded rice in Bangladesh. Field Crops Research, 2012, 128, 17-26.	2.3	39
23	Tillage and Crop Establishment Affects Sustainability of South Asian Riceâ€“Wheat System. Agronomy Journal, 2011, 103, 961-971.	0.9	175
24	Role of Nitrogen Fertilization in Sustaining Organic Matter in Cultivated Soils. Journal of Environmental Quality, 2011, 40, 1756-1766.	1.0	197
25	Direct-seeded rice culture in Sri Lanka: Lessons from farmers. Field Crops Research, 2011, 121, 53-63.	2.3	90
26	Stability analysis of farmer participatory trials for conservation agriculture using mixed models. Field Crops Research, 2011, 121, 450-459.	2.3	34
27	Spatial and seasonal distribution of nitrate-N in groundwater beneath the riceâ€“wheat cropping system of India: a geospatial analysis. Environmental Monitoring and Assessment, 2011, 178, 545-562.	1.3	24
28	Direct Seeding of Rice. Advances in Agronomy, 2011, 111, 297-413.	2.4	497
29	Human-Soil Relations are Changing Rapidly: Proposals from SSSA's Cross-Divisional Soil Change Working Group. Soil Science Society of America Journal, 2011, 75, 2079-2084.	1.2	70
30	Effect of Tillage and Crop Establishment Methods on Physical Properties of a Medium-Textured Soil under a Seven-Year Riceâ"Wheat Rotation. Soil Science Society of America Journal, 2011, 75, 1851-1862.	1.2	238
31	Soil Aggregation and Associated Organic Carbon Fractions as Affected by Tillage in a Riceâ€“Wheat Rotation in North India. Soil Science Society of America Journal, 2011, 75, 560-567.	1.2	71
32	Placement effects on rice residue decomposition and nutrient dynamics on two soil types during wheat cropping in riceâ€“wheat system in northwestern India. Nutrient Cycling in Agroecosystems, 2010, 88, 471-480.	1.1	73
33	Evaluation of alternative tillage and crop establishment methods in a riceâ€“wheat rotation in North Western IGP. Field Crops Research, 2010, 116, 260-267.	2.3	228
34	Changes in auxin distribution patterns during lateral root development in rice. Plant Science, 2010, 178, 531-538.	1.7	15
35	Evaluation of precision land leveling and double zero-till systems in the riceâ€“wheat rotation: Water use, productivity, profitability and soil physical properties. Soil and Tillage Research, 2009, 105, 112-121.	2.6	236
36	Comparison of soil properties between continuously cultivated and adjacent uncultivated soils in rice-based systems. Biology and Fertility of Soils, 2009, 45, 499-509.	2.3	15

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37	Poultry litter as a nitrogen and phosphorous source for the riceâ€“wheat cropping system. Biology and Fertility of Soils, 2009, 45, 701-710.	2.3	38
38	Productivity and resource use of direct-(drum)-seeded and transplanted rice in puddled soils in riceâ€“rice and riceâ€“wheat ecosystems. Field Crops Research, 2009, 113, 274-281.	2.3	48
39	Evaluation of press mud cake as a source of nitrogen and phosphorus for riceâ€“wheat cropping system in the Indo-Gangetic plains of India. Biology and Fertility of Soils, 2008, 44, 755-762.	2.3	21
40	Weed management in aerobic rice systems under varying establishment methods. Crop Protection, 2008, 27, 660-671.	1.0	77
41	Sustainability of the Rice-Wheat Cropping System. Journal of Crop Improvement, 2007, 19, 125-136.	0.9	35
42	Saving of Water and Labor in a Riceâ€“Wheat System with Noâ€Tillage and Direct Seeding Technologies. Agronomy Journal, 2007, 99, 1288-1296.	0.9	264
43	Nitrogen Dynamics in Lowland Rice as Affected by Crop Establishment and Nitrogen Management. Journal of Crop Improvement, 2007, 20, 89-105.	0.9	5
44	Weed Management in Directâ€Seeded Rice. Advances in Agronomy, 2007, , 153-255.	2.4	497
45	Performance of site-specific nitrogen management for irrigated transplanted rice in northwestern India. Archives of Agronomy and Soil Science, 2007, 53, 567-579.	1.3	27
46	Yield and Phosphorus Transformations in a Riceâ€“Wheat System with Crop Residue and Phosphorus Management. Soil Science Society of America Journal, 2007, 71, 1500-1507.	1.2	64
47	Organic Amendments Affect Soil Parameters in Two Long-Term Rice-Wheat Experiments. Soil Science Society of America Journal, 2007, 71, 442-452.	1.2	78
48	Evaluation of mulching, intercropping with Sesbania and herbicide use for weed management in dry-seeded rice (Oryza sativa L.). Crop Protection, 2007, 26, 518-524.	1.0	106
49	On-farm evaluation of leaf color chart for need-based nitrogen management in irrigated transplanted rice in northwestern India. Nutrient Cycling in Agroecosystems, 2007, 78, 167-176.	1.1	42
50	Metabolic engineering of rice with soybean isoflavone synthase for promoting nodulation gene expression in rhizobia. Journal of Experimental Botany, 2006, 57, 1957-1969.	2.4	85
51	Integrating rice and wheat productivity trends using the SAS mixed-procedure and meta-analysis. Field Crops Research, 2006, 95, 75-88.	2.3	25
52	Nutrient management for increased productivity of riceâ€“wheat cropping system in Bangladesh. Field Crops Research, 2006, 96, 374-386.	2.3	61
53	Simulation of Nitrogen Balance in Rice-Wheat Systems of the Indo-Gangetic Plains. Soil Science Society of America Journal, 2006, 70, 1612-1622.	1.2	55
54	Total and organic soil carbon in cropping systems of Nepal. Nutrient Cycling in Agroecosystems, 2006, 75, 257-269.	1.1	27

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55	Long-term yield trend and sustainability of rainfed soybeanâ€“wheat system through farmyard manure application in a sandy loam soil of the Indian Himalayas. Biology and Fertility of Soils, 2006, 43, 271-280.	2.3	49
56	Weed management in dry-seeded rice (Oryza sativa) cultivated in the furrow-irrigated raised-bed planting system. Crop Protection, 2006, 25, 487-495.	1.0	76
57	Enhancing Productivity of Rice-Wheat System Through Integrated Crop Management in the Eastern-Gangetic Plains of South Asia. Journal of Crop Improvement, 2006, 15, 147-170.	0.9	9
58	Comparison of Different Methods of Rice Establishment and Nitrogen Management Strategies for Lowland Rice. Journal of Crop Improvement, 2006, 16, 173-189.	0.9	24
59	Enhancing Soil Quality through Residue Management in a Rice-Wheat System in Fukuoka, Japan. Soil Science and Plant Nutrition, 2005, 51, 849-860.	0.8	42
60	Leaf Color Chart for Managing Nitrogen Fertilizer in Lowland Rice in Bangladesh. Agronomy Journal, 2005, 97, 949-959.	0.9	60
61	Efficiency of Fertilizer Nitrogen in Cereal Production: Retrospects and Prospects. Advances in Agronomy, 2005, , 85-156.	2.4	794
62	Expression of the legume symbiotic lectin genes psl and gs52 promotes rhizobial colonization of roots in rice. Plant Science, 2005, 169, 726-736.	1.7	29
63	Calibrating the Leaf Color Chart for Nitrogen Management in Different Genotypes of Rice and Wheat in a Systems Perspective. Agronomy Journal, 2004, 96, 1606-1621.	0.9	122
64	Optimizing phosphorus fertilization in an intensive vegetable-rice cropping system. Biology and Fertility of Soils, 2004, 40, 277.	2.3	26
65	Nitrogen fixation in rice systems: state of knowledge and future prospects. Plant and Soil, 2003, 252, 151-167.	1.8	184
66	Rice-wheat productivity and nutrient status in a lantana- (Lantana spp.) amended soil. Biology and Fertility of Soils, 2003, 37, 108-114.	2.3	27
67	Trends of climatic potential and on-farm yields of rice and wheat in the Indo-Gangetic Plains. Field Crops Research, 2003, 80, 223-234.	2.3	239
68	How extensive are yield declines in long-term riceâ€“wheat experiments in Asia?. Field Crops Research, 2003, 81, 159-180.	2.3	457
69	Do organic amendments improve yield trends and profitability in intensive rice systems?. Field Crops Research, 2003, 83, 191-213.	2.3	146
70	Infection and Colonization of Rice Seedlings by the Plant Growth-Promoting Bacterium Herbaspirillum seropedicae Z67. Molecular Plant-Microbe Interactions, 2002, 15, 894-906.	1.4	351
71	Yield and Soil Fertility Trends in a 20â€Year Riceâ€“Riceâ€“Wheat Experiment in Nepal. Soil Science Society of America Journal, 2002, 66, 857-867.	1.2	98
72	Influence of Rhizobial Inoculation on Photosynthesis and Grain Yield of Rice. Agronomy Journal, 2002, 94, 925-929.	0.9	64

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73	Efficacy of three 15 N labelling techniques for estimating below-ground N in Sesbania rostrata. Biology and Fertility of Soils, 2002, 35, 387-389.	2.3	13
74	Carbon management for sustainability of an intensively managed rice-based cropping system. Biology and Fertility of Soils, 2002, 36, 215-223.	2.3	19
75	The role of potassium in sustaining yields in a long-term rice-wheat experiment in the Indo-Gangetic Plains of Nepal. Biology and Fertility of Soils, 2002, 36, 240-247.	2.3	104
76	Herbaspirillum colonization increases growth and nitrogen accumulation in aluminiumâ€tolerant rice varieties. New Phytologist, 2002, 154, 131-145.	3.5	153
77	Yield and Soil Nutrient Changes in a Long-Term Rice-Wheat Rotation in India. Soil Science Society of America Journal, 2002, 66, 162.	1.2	184
78	Evaluation of plant growth promoting and colonization ability of endophytic diazotrophs from deep water rice. Journal of Biotechnology, 2001, 91, 127-141.	1.9	384
79	Endophytic Colonization of Rice by a Diazotrophic Strain of Serratia marcescens. Journal of Bacteriology, 2001, 183, 2634-2645.	1.0	304
80	Specific Detection of Bradyrhizobium and Rhizobium Strains Colonizing Rice (Oryza sativa) Roots by 16S-23S Ribosomal DNA Intergenic Spacer-Targeted PCR. Applied and Environmental Microbiology, 2001, 67, 3655-3664.	1.4	105
81	Long-term changes in yield and soil fertility in a twenty-year rice-wheat experiment in Nepal. Biology and Fertility of Soils, 2001, 34, 73-78.	2.3	109
82	Novel Endophytes of Rice form a Taxonomically Distinct Subgroup of Serratia marcescens. Systematic and Applied Microbiology, 2001, 24, 245-251.	1.2	42
83	The beneficial plant growth-promoting association of Rhizobium leguminosarum bv. trifolii with rice roots. Functional Plant Biology, 2001, 28, 845.	1.1	116
84	Rhizobial Inoculation Influences Seedling Vigor and Yield of Rice. Agronomy Journal, 2000, 92, 880-886.	0.9	239
85	Use of ¹⁵Nâ€Labeled Soil in Measuring Nitrogen Fertilizer Recovery Efficiency in Transplanted Rice. Soil Science Society of America Journal, 2000, 64, 235-239.	1.2	42
86	Rhizobia Inoculation Improves Nutrient Uptake and Growth of Lowland Rice. Soil Science Society of America Journal, 2000, 64, 1644-1650.	1.2	289
87	Recycling of Residual Soil Nitrogen in a Lowland Riceâ€“Sweet Pepper Cropping System. Soil Science Society of America Journal, 2000, 64, 1689-1698.	1.2	5
88	Longâ€Term Effects of Urea and Green Manure on Rice Yields and Nitrogen Balance. Soil Science Society of America Journal, 2000, 64, 1993-2001.	1.2	58
89	Interactions of rice seedlings with bacteria isolated from rice roots. Functional Plant Biology, 1999, 26, 521.	1.1	51
90	Rice ENOD40: isolation and expression analysis in rice and transgenic soybean root nodules. Plant Journal, 1999, 18, 121-129.	2.8	139

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91	Influence of Available Nitrogen and Rice Genotype on Associative Dinitrogen Fixation. Soil Science Society of America Journal, 1999, 63, 93-99.	1.2	26
92	Estimation of legume symbiotic dependence: an evaluation of techniques based on 15N dilution. Soil Biology and Biochemistry, 1999, 31, 1901-1917.	4.2	61
93	Widespread Occurrence of the Homologues of the Early Nodulin (ENOD) Genes inOryzaSpecies and Related Grasses. Biochemical and Biophysical Research Communications, 1999, 258, 148-154.	1.0	32
94	ROLE OF INDIGO IN IMPROVING THE PRODUCTIVITY OF RAINFED LOWLAND RICE-BASED CROPPING SYSTEMS. Experimental Agriculture, 1999, 35, 201-210.	0.4	12
95	YIELD TRENDS AND APPARENT NUTRIENT BALANCES IN INTENSIFIED AND DIVERSIFIED RICE-BASED CROPPING SYSTEMS. Experimental Agriculture, 1999, 35, 181-199.	0.4	1
96	Sustaining productivity of lowland rice soils: issues and options related to N availability. Nutrient Cycling in Agroecosystems, 1998, 53, 19-33.	1.1	20
97	Isolation, analysis and expression of homologues of the soybean early nodulin gene GmENOD93 (GmN93) from rice. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1443, 386-392.	2.4	24
98	Rhizobial lipochitooligosaccharide nodulation factors activate expression of the legume early nodulin gene ENOD12 in rice. Plant Journal, 1998, 14, 693-702.	2.8	60
99	Opportunities for increased nitrogen-use efficiency from improved lowland rice germplasm. Field Crops Research, 1998, 56, 41-71.	2.3	171
100	Opportunities for increased nitrogen-use efficiency from improved resource management in irrigated rice systems. Field Crops Research, 1998, 56, 7-39.	2.3	458
101	Opportunities to manipulate nutrient-by-water interactions in rainfed lowland rice systems. Field Crops Research, 1998, 56, 93-112.	2.3	66
102	Genotypic variation in nitrogen use efficiency in medium- and long-duration rice. Field Crops Research, 1998, 58, 35-53.	2.3	166
103	Nitrate in Groundwater and Integration of Nitrogen-Catch Crop in Rice-Sweet Pepper Cropping System. Soil Science Society of America Journal, 1998, 62, 1610-1619.	1.2	39
104	Nitrogen Dynamics of Various Green Manure Species and the Relationship to Lowland Rice Production. Agronomy Journal, 1998, 90, 149-155.	0.9	25
105	Recycling in situ of Legumeâ€Fixed and Soil Nitrogen in Tropical Lowland Rice. Agronomy Journal, 1998, 90, 429-437.	0.9	18
106	Nondestructive Estimation of Shoot Nitrogen in Different Rice Genotypes. Agronomy Journal, 1998, 90, 33-40.	0.9	34
107	Nitrogen Dynamics and Balance in Intensified Rainfed Lowland Riceâ€Based Cropping Systems. Soil Science Society of America Journal, 1997, 61, 812-821.	1.2	40
108	Effect of Growing Rice on Nitrogen Mineralization in Flooded Soil. Soil Science Society of America Journal, 1997, 61, 839-845.	1.2	15

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109	Sesbania Phosphorus Requirements When Used as Biofertilizer for Long-Term Rice Cultivation. Soil Science Society of America Journal, 1997, 61, 1240-1244.	1.2	10
110	Title is missing!. Plant and Soil, 1997, 194, 81-98.	1.8	81
111	Introduction: Assessing opportunities for nitrogen fixation in rice - a frontier project. Plant and Soil, 1997, 194, 1-10.	1.8	80
112	Title is missing!. Plant and Soil, 1997, 194, 25-36.	1.8	183
113	Grain yield performance of rice genotypes at suboptimal levels of soil N as affected by N uptake and utilization efficiency. Field Crops Research, 1996, 46, 127-143.	2.3	96
114	Legume Productivity and Soil Nitrogen Dynamics in Lowland Rice-Based Cropping Systems. Soil Science Society of America Journal, 1996, 60, 183-192.	1.2	70
115	Tillage Depth Influence on Soil Nitrogen Distribution and Availability in a Rice Lowland. Soil Science Society of America Journal, 1996, 60, 1153-1159.	1.2	41
116	Genotypic Variation in Promotion of Rice Dinitrogen Fixation as Determined by Nitrogen-15 Dilution. Soil Science Society of America Journal, 1996, 60, 1815-1821.	1.2	88
117	Adaptation of green manure legumes to adverse conditions in rice lowlands. Biology and Fertility of Soils, 1996, 23, 243-248.	2.3	5
118	Enhancing Soil Nitrogen Use and Biological Nitrogen Fixation in Wetland Rice. Experimental Agriculture, 1995, 31, 261-278.	0.4	29
119	Extension of nitrogen fixation to rice ? Necessity and possibilities. Geo Journal, 1995, 35, 363-372.	1.7	86
120	Biological nitrogen fixation: An efficient source of nitrogen for sustainable agricultural production?. Plant and Soil, 1995, 174, 3-28.	1.8	590
121	Enhancing legume N2 fixation through plant and soil management. Plant and Soil, 1995, 174, 83-101.	1.8	142
122	Green manure technology: Potential, usage, and limitations. A case study for lowland rice. Plant and Soil, 1995, 174, 181-194.	1.8	121
123	Biological N2 fixation by heterotrophic and phototrophic bacteria in association with straw. Plant and Soil, 1995, 174, 211-224.	1.8	83
124	Molecular-marker-facilitated investigation on the ability to stimulate N2 fixation in the rhizosphere by irrigated rice plants. Theoretical and Applied Genetics, 1995, 91, 1177-1183.	1.8	43
125	Non-allelic interaction conditioning spikelet sterility in an F2 population of indica/japonica cross in rice. Theoretical and Applied Genetics, 1995, 91-91, 825-829.	1.8	23
126	Influence of phosphorus or phosphorus-potassium fertilization on biomass and dinitrogen fixation of the stem-nodulating green-manure legume Sesbania rostrata in different marginally productive wetland rice soils. Biology and Fertility of Soils, 1995, 20, 107-112.	2.3	15

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127	Nitrogen Dynamics of Grain Legumeâ€“Weedy Fallowâ€“Flooded Rice Sequences in the Tropics. Agronomy Journal, 1995, 87, 1-6.	0.9	24
128	Stem-nodulating legumes as relay-cropped or intercropped green manures for lowland rice. Field Crops Research, 1995, 42, 39-47.	2.3	6
129	Efficient management of soil and biologically fixed N2 in intensively-cultivated rice fields. Soil Biology and Biochemistry, 1995, 27, 431-439.	4.2	76
130	Crop Residue Effects on Nitrogen Mineralization, Microbial Biomass, and Rice Yield in Submerged Soils. Soil Science Society of America Journal, 1995, 59, 1595-1603.	1.2	26
131	Agronomic and economic evaluation of Sesbania rostrata green manure establishment in irrigated rice. Field Crops Research, 1995, 40, 135-141.	2.3	28
132	Legumes as Nitrate Catch Crops during the Dryâ€toâ€Wet Transition in Lowland Rice Cropping Systems. Agronomy Journal, 1994, 86, 267-273.	0.9	42
133	Numerical Taxonomy of Photosynthetic Rhizobia Nodulating Aeschynomene Species. International Journal of Systematic Bacteriology, 1994, 44, 62-73.	2.8	56
134	Photosynthetic Symbionts of Aeschynomene spp. Form a Cluster with Bradyrhizobia on the Basis of Fatty Acid and rRNA Analyses. International Journal of Systematic Bacteriology, 1994, 44, 392-403.	2.8	79
135	Prediction of nitrogen availability and rice yield in lowland soils: Nitrogen mineralization parameters. Plant and Soil, 1994, 160, 131-137.	1.8	17
136	Nitrogen Losses and Lowland Rice Yield as Affected by Residue Nitrogen Release. Soil Science Society of America Journal, 1994, 58, 1660-1665.	1.2	74
137	Parameters Affecting Residue Nitrogen Mineralization in Flooded Soils. Soil Science Society of America Journal, 1994, 58, 1666.	1.2	56
138	Phylogenetic Analysis of Bradyrhizobium japonicum and Photosynthetic Stem-Nodulating Bacteria from Aeschynomene Species Grown in Separated Geographical Regions. Applied and Environmental Microbiology, 1994, 60, 940-946.	1.4	63
139	Automated elemental analysis: A rapid and reliable but expensive measurement of total carbon and nitrogen in plant and soil samples. Communications in Soil Science and Plant Analysis, 1993, 24, 1897-1924.	0.6	110
140	Estimating Dinitrogen Fixation of Hedgerow Vegetation Using the Nitrogen-15 Natural Abundance Method. Soil Science Society of America Journal, 1993, 57, 732-737.	1.2	76
141	Nitrate Dynamics during the Aerobic Soil Phase in Lowland Rice-Based Cropping Systems. Soil Science Society of America Journal, 1993, 57, 1526-1532.	1.2	53
142	Relative contributions to nitrogenase (acetylene reducing) activity of stem and root nodules in Sesbania rostrata. Canadian Journal of Microbiology, 1992, 38, 577-583.	0.8	6
143	Isotope 15N enrichment of soil-ammonium N as a reference to estimate N2 fixation by stem and root-inoculated S. rostrata. Biology and Fertility of Soils, 1992, 13, 74-78.	2.3	6
144	Biological nitrogen fixation for sustainable agriculture: A perspective. Plant and Soil, 1992, 141, 1-11.	1.8	241

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145	Biological N2 Fixation in wetland rice fields: Estimation and contribution to nitrogen balance. Plant and Soil, 1992, 141, 41-55.	1.8	190
146	Managing native and legume-fixed nitrogen in lowland rice-based cropping systems. Plant and Soil, 1992, 141, 69-91.	1.8	79
147	Effect of NPK on growth and nitrogen fixation of Sesbania rostrata as a green manure for lowland rice (Oryza sativa L.). Plant and Soil, 1991, 132, 149-158.	1.8	52
148	Nitrogen accumulation and changes in natural15N abundance in the tissues of legumes with emphasis on N2fixation by stem-nodulating plants in upland and paddy fields. Soil Science and Plant Nutrition, 1991, 37, 75-82.	0.8	17
149	EinfluÃŸ von NPK auf die Biomasseproduktion und Stickstoffbindung der stengelknÃ¶llchenbildenden GrÃ¼ndÃ¼ngungsleguminosenSesbania rostrata undAeschynomene afraspera im NaÃŸreisanbau. Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science, 1990, 153, 333-339.	0.4	3
150	Growth and N2-fixation of two stem-nodulating legumes and their effect as green manure on lowland rice. Soil Biology and Biochemistry, 1990, 22, 1109-1119.	4.2	59
151	Sesbania rostrata as a green manure for lowland rice: Growth, N2 fixation,Azorhizobium sp. inoculation, and effects on succeeding crop yields and nitrogen balance. Biology and Fertility of Soils, 1989, 7, 191-197.	2.3	35
152	Influence of Azospirillum inoculation on the mineral uptake and growth of rice under hydroponic conditions. Plant and Soil, 1988, 108, 281-285.	1.8	105
153	Seeding vs. vegetative propagations of the stem-nodulating green manure Sesbania rostrata. Biology and Fertility of Soils, 1988, 6, 279.	2.3	2
154	A plant sampling procedure for acetylene reduction assay to detect rice varietal differences in ability to stimulate N2 fixation. Soil Biology and Biochemistry, 1988, 20, 175-183.	4.2	12
155	Nitrogen-Fixing (C2H2-Reducing) Activity and Plant Growth Characters of 16 Wetland Rice Varieties. Soil Science and Plant Nutrition, 1987, 33, 187-200.	0.8	40
156	Nodule Bacteroids and Anabaena: Natural 15N Enrichment in the Legume-Rhizobium and Azolla-Anabaena Symbiotic Systems. Journal of Plant Physiology, 1987, 127, 251-259.	1.6	24
157	Difference in Natural Abundance of¹⁵N in Several Rice(Oryza sativaL.) Varieties: Application for Evaluating N₂Fixation. Soil Science and Plant Nutrition, 1987, 33, 407-415.	0.8	35
158	Composition ofAzospirillum species associated with wetland rice plant grown in different soils. Plant and Soil, 1987, 102, 127-129.	1.8	38
159	The effects on N2 fixation (C2H2 reduction), bacterial population and rice plant growth of two modes of straw application to a wetland rice field. Biology and Fertility of Soils, 1987, 5, 106.	2.3	16
160	A new nitrogen-fixing species of pseudomonad: Pseudomonas diazotrophicus sp. nov. isolated from the root of wetland rice. Canadian Journal of Microbiology, 1987, 33, 670-678.	0.8	39
161	The fate of markerAzospirillum lipoferum inoculated into rice and its effect on growth, yield and N2 fixation of plants studied by acetylene reduction,15N2 feeding and15N dilution techniques. Biology and Fertility of Soils, 1986, 2, 7-14.	2.3	49
162	Laboratory acetylene reduction assay for relative measurement of N2-fixing activities associated with field-grown wetland rice plants. Plant and Soil, 1986, 90, 359-372.	1.8	18

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