# Kenneth Cassman

List of Publications by Year
in descending order



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|---|---|---|---|
| 156 papers | 28,753 citations | 13865 67 h-index | 7518 151 g-index |
| 160 all docs | 160 docs citations | 160 times ranked | 23895 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Agricultural sustainability and intensive production practices. Nature, 2002, 418, 671-677. | 27.8 | 5,748 |
| 2 | Rice yields decline with higher night temperature from global warming. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9971-9975. | 7.1 | 1,859 |
| 3 | Agroecosystems, Nitrogen-use Efficiency, and Nitrogen Management. Ambio, 2002, 31, 132-140. | 5.5 | 1,251 |
| 4 | Ecological intensification of cereal production systems: Yield potential, soil quality, and precision agriculture. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5952-5959. | 7.1 | 1,123 |
| 5 | Yield gap analysis with local to global relevanceâ€"A review. Field Crops Research, 2013, 143, 4-17. | 5.1 | 1,111 |
| 6 | Agricultural expansion and its impacts on tropical nature. Trends in Ecology and Evolution, 2014, 29, 107-116. | 8.7 | 1,045 |
| 7 | Crop Yield Gaps: Their Importance, Magnitudes, and Causes. Annual Review of Environment and Resources, 2009, 34, 179-204. | 13.4 | 1,038 |
| 8 | MEETINGCEREALDEMANDWHILEPROTECTINGNATURALRESOURCES ANDIMPROVINGENVIRONMENTALQUALITY. Annual Review of Environment and Resources, 2003, 28, 315-358. | 13.4 | 774 |
| 9 | Distinguishing between yield advances and yield plateaus in historical crop production trends. Nature Communications, 2013, 4, 2918. | 12.8 | 611 |
| 10 | Integrated soilâ€"crop system management for food security. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6399-6404. | 7.1 | 606 |
| 11 | Limited potential of no-till agriculture for climate change mitigation. Nature Climate Change, 2014, 4, 678-683. | 18.8 | 594 |
| 12 | New technologies reduce greenhouse gas emissions from nitrogenous fertilizer in China. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8375-8380. | 7.1 | 593 |
| 13 | Can sub-Saharan Africa feed itself?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14964-14969. | 7.1 | 564 |
| 14 | Yield Potential Trends of Tropical Rice since the Release of IR8 and the Challenge of Increasing Rice Yield Potential. Crop Science, 1999, 39, 1552-1559. | 1.8 | 553 |
| 15 | Postâ€"Green Revolution Trends in Yield Potential of Temperate Maize in the Northâ€Central United States. Crop Science, 1999, 39, 1622-1630. | 1.8 | 534 |
| 16 | Annual carbon dioxide exchange in irrigated and rainfed maize-based agroecosystems. Agricultural and Forest Meteorology, 2005, 131, 77-96. | 4.8 | 449 |
| 17 | Global nitrogen budgets in cereals: A 50-year assessment for maize, rice and wheat production systems. Scientific Reports, 2016, 6, 19355. | 3.3 | 343 |
| 18 | Estimating crop yield potential at regional to national scales. Field Crops Research, 2013, 143, 34-43. | 5.1 | 308 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A global perspective on sustainable intensification research. Nature Sustainability, 2020, 3, 262-268. | 23.7 | 260 |
| 20 | Nitrogen Mineralization as Affected by Soil Moisture, Temperature, and Depth. Soil Science Society of America Journal, 1980, 44, 1233-1237. | 2.2 | 259 |
| 21 | High-yield maize with large net energy yield and small global warming intensity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1074-1079. | 7.1 | 256 |
| 22 | How good is good enough? Data requirements for reliable crop yield simulations and yield-gap analysis. Field Crops Research, 2015, 177, 49-63. | 5.1 | 253 |
| 23 | Adjustment for Specific Leaf Weight Improves Chlorophyll Meter's Estimate of Rice Leaf Nitrogen Concentration. Agronomy Journal, 1993, 85, 987-990. | 1.8 | 249 |
| 24 | High-yield irrigated maize in the Western U.S. Corn Belt: I. On-farm yield, yield potential, and impact of agronomic practices. Field Crops Research, 2011, 120, 142-150. | 5.1 | 249 |
| 25 | The Ripple Effect: Biofuels, Food Security, and the Environment. Environment, 2007, 49, 30-43. | 1.4 | 246 |
| 26 | Use of agro-climatic zones to upscale simulated crop yield potential. Field Crops Research, 2013, 143, 44-55. | 5.1 | 234 |
| 27 | Improvements in Life Cycle Energy Efficiency and Greenhouse Gas Emissions of Cornâ€Ethanol. Journal of Industrial Ecology, 2009, 13, 58-74. | 5.5 | 222 |
| 28 | Maize Radiation Use Efficiency under Optimal Growth Conditions. Agronomy Journal, 2005, 97, 72-78. | 1.8 | 221 |
| 29 | Comparison of high-yield rice in tropical and subtropical environments. Field Crops Research, 1998, 57, 71-84. | 5.1 | 216 |
| 30 | Limits to maize productivity in Western Corn-Belt: A simulation analysis for fully irrigated and rainfed conditions. Agricultural and Forest Meteorology, 2009, 149, 1254-1265. | 4.8 | 211 |
| 31 | Closing yield gaps for rice self-sufficiency in China. Nature Communications, 2019, 10, 1725. | 12.8 | 179 |
| 32 | Reversal of Rice Yield Decline in a Longâ€Term Continuous Cropping Experiment. Agronomy Journal, 2000, 92, 633-643. | 1.8 | 166 |
| 33 | Fertilizerâ€Nitrogen Use Efficiency of Irrigated Wheat: I. Uptake Efficiency of Preplant versus Lateâ€Season Application. Agronomy Journal, 1992, 84, 682-688. | 1.8 | 153 |
| 34 | From field to atlas: Upscaling of location-specific yield gap estimates. Field Crops Research, 2015, 177, 98-108. | 5.1 | 145 |
| 35 | Potential for crop production increase in Argentina through closure of existing yield gaps. Field Crops Research, 2015, 184, 145-154. | 5.1 | 144 |
| 36 | Agricultural innovation to protect the environment. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8345-8348. | 7.1 | 141 |

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| 37 | Fertilizer inputs, nutrient balance, and soil nutrient-supplying power in intensive, irrigated rice systems. I. Potassium uptake and K balance. Nutrient Cycling in Agroecosystems, 1996, 46, 1-10. | 2.2 | 139 |
| 38 | Soybean Sowing Date: The Vegetative, Reproductive, and Agronomic Impacts. Crop Science, 2008, 48, 727-740. | 1.8 | 138 |
| 39 | The Nitrogen Balancing Act: Tracking the Environmental Performance of Food Production. BioScience, 2018, 68, 194-203. | 4.9 | 136 |
| 40 | Intensification of irrigated rice systems: Learning from the past to meet future challenges. Geo Journal, 1995, 35, 299-305. | 3.1 | 132 |
| 41 | Soybean yield gaps and water productivity in the western U.S. Corn Belt. Field Crops Research, 2015, 179, 150-163. | 5.1 | 132 |
| 42 | Upper Threshholds of Nitrogen Uptake Rates and Associated Nitrogen Fertilizer Efficiencies in Irrigated Rice. Agronomy Journal, 1998, 90, 178-185. | 1.8 | 131 |
| 43 | Monitoring the world's agriculture. Nature, 2010, 466, 558-560. | 27.8 | 127 |
| 44 | Soil organic matter and the indigenous nitrogen supply of intensive irrigated rice systems in the tropics. Plant and Soil, 1996, 182, 267-278. | 3.7 | 126 |
| 45 | A World of Cobenefits: Solving the Global Nitrogen Challenge. Earth's Future, 2019, 7, 865-872. | 6.3 | 122 |
| 46 | High-yield irrigated maize in the Western U.S. Corn Belt: II. Irrigation management and crop water productivity. Field Crops Research, 2011, 120, 133-141. | 5.1 | 114 |
| 47 | Impact of derived global weather data on simulated crop yields. Global Change Biology, 2013, 19, 3822-3834. | 9.5 | 113 |
| 48 | Evaluation of NASA Satelliteâ€•and Modelâ€Derived Weather Data for Simulation of Maize Yield Potential in China. Agronomy Journal, 2010, 102, 9-16. | 1.8 | 109 |
| 49 | Phosphorus Requirements of Soybean and Cowpea as Affected by Mode of N Nutrition<sup>1</sup>. Agronomy Journal, 1981, 73, 17-22. | 1.8 | 104 |
| 50 | Nitrogen supply affects root:shoot ratio in corn and velvetleaf (Abutilon theophrasti). Weed Science, 2005, 53, 670-675. | 1.5 | 103 |
| 51 | Losses of Ammonia and Nitrate from Agriculture and Their Effect on Nitrogen Recovery in the European Union and the United States between 1900 and 2050. Journal of Environmental Quality, 2015, 44, 356-367. | 2.0 | 100 |
| 52 | Aggregate Size Effects on the Sorption and Release of Phosphorus in an Ultisol. Soil Science Society of America Journal, 1997, 61, 160-166. | 2.2 | 98 |
| 53 | Chlorophyll meter estimates leaf areaâ€based nitrogen concentration of rice. Communications in Soil Science and Plant Analysis, 1995, 26, 927-935. | 1.4 | 96 |
| 54 | Can ratoon cropping improve resource use efficiencies and profitability of rice in central China?. Field Crops Research, 2019, 234, 66-72. | 5.1 | 94 |

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| 55 | Long-Term Effects of Tillage on Soil Chemical Properties and Grain Yields of a Dryland Winter Wheat-Sorghum/Corn-Fallow Rotation in the Great Plains. Agronomy Journal, 2006, 98, 26-33. | 1.8 | 93 |
| 56 | Growth and Nitrogen Fixation in High-Yielding Soybean: Impact of Nitrogen Fertilization. Agronomy Journal, 2009, 101, 958-970. | 1.8 | 91 |
| 57 | Relationship between Leaf Photosynthesis and Nitrogen Content of Fieldâ€Grown Rice in Tropics. Crop Science, 1995, 35, 1627-1630. | 1.8 | 90 |
| 58 | Root Growth and Dry Matter Distribution of Soybean as Affected by Phosphorus Stress, Nodulation, and Nitrogen Source<sup>1</sup>. Crop Science, 1980, 20, 239-244. | 1.8 | 89 |
| 59 | Mapping rootable depth and root zone plant-available water holding capacity of the soil of sub-Saharan Africa. Geoderma, 2018, 324, 18-36. | 5.1 | 87 |
| 60 | Sustainable intensification for a larger global rice bowl. Nature Communications, 2021, 12, 7163. | 12.8 | 82 |
| 61 | Differential Response of Two Cotton Cultivars to Fertilizer and Soil Potassium. Agronomy Journal, 1989, 81, 870-876. | 1.8 | 81 |
| 62 | INORGANIC AND ORGANIC PHOSPHORUS DYNAMICS DURING A BUILD-UP AND DECLINE OF AVAILABLE PHOSPHORUS IN AN ULTISOL. Soil Science, 1997, 162, 254-264. | 0.9 | 80 |
| 63 | Long-term Comparison of the Agronomic Efficiency and Residual Benefits of Organic and Inorganic Nitrogen Sources for Tropical Lowland Rice. Experimental Agriculture, 1996, 32, 427-444. | 0.9 | 77 |
| 64 | Fertilizer inputs, nutrient balance and soil nutrient supplying power in intensive, irrigated rice system. III. Phosphorus. Nutrient Cycling in Agroecosystems, 1996, 46, 111-125. | 2.2 | 76 |
| 65 | Biosolids as Nitrogen Source for Irrigated Maize and Rainfed Sorghum. Soil Science Society of America Journal, 2002, 66, 531-543. | 2.2 | 76 |
| 66 | Testing Remote Sensing Approaches for Assessing Yield Variability among Maize Fields. Agronomy Journal, 2014, 106, 24-32. | 1.8 | 73 |
| 67 | Estimating yield gaps at the cropping system level. Field Crops Research, 2017, 206, 21-32. | 5.1 | 73 |
| 68 | Features, Applications, and Limitations of the Hybridâ€Maize Simulation Model. Agronomy Journal, 2006, 98, 737-748. | 1.8 | 70 |
| 69 | Water productivity of rainfed maize and wheat: A local to global perspective. Agricultural and Forest Meteorology, 2018, 259, 364-373. | 4.8 | 70 |
| 70 | Maizeâ€N: A Decision Tool for Nitrogen Management in Maize. Agronomy Journal, 2011, 103, 1276-1283. | 1.8 | 67 |
| 71 | Can crop simulation models be used to predict local to regional maize yields and total production in the U.S. Corn Belt?. Field Crops Research, 2016, 192, 1-12. | 5.1 | 67 |
| 72 | Potassium Nutrition Effects on Lint Yield and Fiber Quality of Acala Cotton. Crop Science, 1990, 30, 672-677. | 1.8 | 66 |

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| 73 | The importance of maintenance breeding: A case study of the first miracle rice variety-IR8. Field Crops Research, 2010, 119, 342-347. | 5.1 | 62 |
| 74 | Climate and agronomy, not genetics, underpin recent maize yield gains in favorable environments. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 62 |
| 75 | Comparison of high-yield rice in tropical and subtropical environments. Field Crops Research, 1998, 57, 85-93. | 5.1 | 60 |
| 76 | Large-Scale On-Farm Implementation of Soil Moisture-Based Irrigation Management Strategies for Increasing Maize Water Productivity. Transactions of the ASABE, 2012, 55, 881-894. | 1.1 | 59 |
| 77 | Yield gap analysis of US rice production systems shows opportunities for improvement. Field Crops Research, 2016, 196, 276-283. | 5.1 | 59 |
| 78 | Soil Potassium Balance and Cumulative Cotton Response to Annual Potassium Additions on a Vermiculitic Soil. Soil Science Society of America Journal, 1989, 53, 805-812. | 2.2 | 57 |
| 79 | Nitrogen Supply Effects on Partitioning of Dry Matter and Nitrogen to Grain of Irrigated Wheat. Crop Science, 1992, 32, 1251-1258. | 1.8 | 57 |
| 80 | Genotypes and Plant Densities for Narrowâ€Row Cotton Systems. I. Height, Nodes, Earliness, and Location of Yield. Crop Science, 1990, 30, 644-649. | 1.8 | 54 |
| 81 | Prospects for Increasing Sugarcane and Bioethanol Production on Existing Crop Area in Brazil. BioScience, 2016, 66, 307-316. | 4.9 | 51 |
| 82 | A steady-state N balance approach for sustainable smallholder farming. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 49 |
| 83 | Phosphorus Nutrition of Rhizobium japonicum: Strain Differences in Phosphate Storage and Utilization. Soil Science Society of America Journal, 1981, 45, 517-520. | 2.2 | 48 |
| 84 | Fertilizerâ€Nitrogen Use Efficiency of Irrigated Wheat: II. Partitioning Efficiency of Preplant versus Lateâ€Season Application. Agronomy Journal, 1992, 84, 689-694. | 1.8 | 48 |
| 85 | Acidification of Soil in a Dry Land Winter Wheat-sorghum/corn-fallow Rotation in the Semiarid U.S. Great Plains. Plant and Soil, 2006, 283, 367-379. | 3.7 | 48 |
| 86 | Towards Standardization of Life-Cycle Metrics for Biofuels: Greenhouse Gas Emissions Mitigation and Net Energy Yield. Journal of Biobased Materials and Bioenergy, 2008, 2, 187-203. | 0.3 | 48 |
| 87 | Drivers of spatial and temporal variation in soybean yield and irrigation requirements in the western US Corn Belt. Field Crops Research, 2014, 163, 32-46. | 5.1 | 46 |
| 88 | Beyond the plot: technology extrapolation domains for scaling out agronomic science. Environmental Research Letters, 2018, 13, 054027. | 5.2 | 41 |
| 89 | Contribution of persistent factors to yield gaps in high-yield irrigated maize. Field Crops Research, 2016, 186, 124-132. | 5.1 | 40 |
| 90 | Growth of Rhizobium Strains at Low Concentrations of Phosphate. Soil Science Society of America Journal, 1981, 45, 520-523. | 2.2 | 39 |

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| 91 | Reduction of Potassium Fixation by Two Humic Acid Fractions in Vermiculitic Soils. Soil Science Society of America Journal, 1995, 59, 1250-1258. | 2.2 | 39 |
| 92 | Soil microbial biomass and nitrogen supply in an irrigated lowland rice soil as affected by crop rotation and residue management. Biology and Fertility of Soils, 1998, 28, 71-80. | 4.3 | 39 |
| 93 | Nitrogen and the future of agriculture: 20Âyears on. Ambio, 2022, 51, 17-24. | 5.5 | 38 |
| 94 | Nitrogen use efficiency of irrigated tropical rice established by broadcast wet-seeding and transplanting. Fertilizer Research, 1995, 45, 123-134. | 0.5 | 36 |
| 95 | Can there be a green revolution in Sub-Saharan Africa without large expansion of irrigated crop production?. Global Food Security, 2013, 2, 203-209. | 8.1 | 34 |
| 96 | Temperature explains the yield difference of double-season rice between tropical and subtropical environments. Field Crops Research, 2016, 198, 303-311. | 5.1 | 34 |
| 97 | Soil Acidity and Liming Effects on Stand, Nodulation, and Yield of Common Bean. Agronomy Journal, 1990, 82, 749-754. | 1.8 | 33 |
| 98 | Evaluation of a Mechanistic Model of Potassium Uptake by Cotton in Vermiculitic Soil. Soil Science Society of America Journal, 1994, 58, 1174-1183. | 2.2 | 33 |
| 99 | Crop Yield Potential, Yield Trends, and Global Food Security in a Changing Climate. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2010, , 37-51. | 0.4 | 33 |
| 100 | Improvements to the Hybrid-Maize model for simulating maize yields in harsh rainfed environments. Field Crops Research, 2017, 204, 180-190. | 5.1 | 33 |
| 101 | Kinetics of Potassium Fixation in Vermiculitic Soils under Different Moisture Regimes. Soil Science Society of America Journal, 1995, 59, 423-429. | 2.2 | 32 |
| 102 | Spatial frameworks for robust estimation of yield gaps. Nature Food, 2021, 2, 773-779. | 14.0 | 32 |
| 103 | Soil water recharge in a semi-arid temperate climate of the Central U.S. Great Plains. Agricultural Water Management, 2010, 97, 1063-1069. | 5.6 | 31 |
| 104 | Exploitation of Soil Potassium in Layered Profiles by Root Systems of Cotton and Barley. Soil Science Society of America Journal, 1989, 53, 146-153. | 2.2 | 30 |
| 105 | Residual phosphorus and long-term management strategies for an Ultisol. Plant and Soil, 1996, 184, 47-55. | 3.7 | 30 |
| 106 | Yield gap analysis of rainfed wheat demonstrates local to global relevance. Journal of Agricultural Science, 2017, 155, 282-299. | 1.3 | 30 |
| 107 | Benchmarking impact of nitrogen inputs on grain yield and environmental performance of producer fields in the western US Corn Belt. Agriculture, Ecosystems and Environment, 2020, 294, 106865. | 5.3 | 30 |
| 108 | Assessing variation in maize grain nitrogen concentration and its implications for estimating nitrogen balance in the US North Central region. Field Crops Research, 2019, 240, 185-193. | 5.1 | 29 |

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| 109 | Cotton root and shoot response to localized supply of nitrate, phosphate and potassium: Split-pot studies with nutrient solution and vermiculitic soil. Plant and Soil, 1994, 161, 179-193. | 3.7 | 28 |
| 110 | Microbial biomass and organic matter turnover in wetland rice soils. Biology and Fertility of Soils, 1995, 19, 333-342. | 4.3 | 28 |
| 111 | High-yield maizeâ€"soybean cropping systems in the US Corn Belt. , 2015, , 17-41. | | 28 |
| 112 | Nutritional physiology of the rice plants and productivity decline of irrigated rice systems in the tropics. Soil Science and Plant Nutrition, 1997, 43, 1101-1106. | 1.9 | 27 |
| 113 | Biosolids as Nitrogen Source for Irrigated Maize and Rainfed Sorghum. Soil Science Society of America Journal, 2002, 66, 531. | 2.2 | 27 |
| 114 | Comparison of soil test methods for predicting cotton response to soil and fertilizer potassium on potassium fixing soils. Communications in Soil Science and Plant Analysis, 1990, 21, 1727-1743. | 1.4 | 26 |
| 115 | A model to predict crop response to applied fertilizer nutrients in heterogeneous fields. Fertilizer Research, 1992, 31, 151-163. | 0.5 | 26 |
| 116 | Characterization of Humic Acid Fractions Improves Estimates of Nitrogen Mineralization Kinetics for Lowland Rice Soils. Soil Science Society of America Journal, 2004, 68, 1266-1277. | 2.2 | 26 |
| 117 | Genotypes and Plant Densities for Narrowâ€Row Cotton Systems. II. Leaf Area and Dryâ€Matter Partitioning. Crop Science, 1990, 30, 649-653. | 1.8 | 26 |
| 118 | Cotton Response to Residual Fertilizer Potassium on Vermiculitic Soil: Organic Matter and Sodium Effects. Soil Science Society of America Journal, 1992, 56, 823-830. | 2.2 | 25 |
| 119 | Emissions Savings in the Cornâ€Ethanol Life Cycle from Feeding Coproducts to Livestock. Journal of Environmental Quality, 2010, 39, 472-482. | 2.0 | 25 |
| 120 | Soybean Phenology Simulation in the Northâ€Central United States. Agronomy Journal, 2011, 103, 1661-1667. | 1.8 | 25 |
| 121 | Soybean Root Development Relative to Vegetative and Reproductive Phenology. Agronomy Journal, 2012, 104, 1702-1709. | 1.8 | 25 |
| 122 | Estimating yield potential in temperate high-yielding, direct-seeded US rice production systems. Field Crops Research, 2016, 193, 123-132. | 5.1 | 25 |
| 123 | Rooting for food security in Sub-Saharan Africa. Environmental Research Letters, 2017, 12, 114036. | 5.2 | 24 |
| 124 | Rotation Impact on Onâ€Farm Yield and Inputâ€Use Efficiency in Highâ€Yield Irrigated Maizeâ€"Soybean Systems. Agronomy Journal, 2016, 108, 2313-2321. | 1.8 | 23 |
| 125 | Nitrogen Mineralization from Humic Acid Fractions in Rice Soils Depends on Degree of Humification. Soil Science Society of America Journal, 2004, 68, 1278-1284. | 2.2 | 20 |
| 126 | Quantifying Onâ€Farm Nitrous Oxide Emission Reductions in Food Supply Chains. Earth's Future, 2020, 8, e2020EF001504. | 6.3 | 19 |

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| 127 | Increasing the Yield Plateau in Rice and the Role of Global Climate Change. J Agricultural Meteorology, 1993, 48, 795-798. | 1.5 | 19 |
| 128 | Impact of urbanization trends on production of key staple crops. Ambio, 2022, 51, 1158-1167. | 5.5 | 18 |
| 129 | A spatial framework for ex-ante impact assessment of agricultural technologies. Global Food Security, 2019, 20, 72-81. | 8.1 | 17 |
| 130 | Effective monitoring of agriculture: a response. Journal of Environmental Monitoring, 2012, 14, 738. | 2.1 | 16 |
| 131 | Nitrogen supplying capacity of lowland rice soils in southern India. Communications in Soil Science and Plant Analysis, 1996, 27, 2851-2874. | 1.4 | 15 |
| 132 | Use of Herbicide-Tolerant Crops as a Component of an Integrated Weed Management Program. Crop Management, 2003, 2, 1-7. | 0.3 | 15 |
| 133 | Nodal Leaf Area Distribution in Soybean Plants Grown in High Yield Environments. Agronomy Journal, 2011, 103, 1198-1204. | 1.8 | 15 |
| 134 | Yield, Dinitrogen Fixation, and Aboveground Nitrogen Balance of Irrigated White Lupin in a Mediterranean Climate. Agronomy Journal, 1989, 81, 538-543. | 1.8 | 14 |
| 135 | Green revolution still too green. Nature, 1999, 398, 556-556. | 27.8 | 14 |
| 136 | Soybean Irrigation Management: Agronomic Impacts of Deferred, Deficit, and Fullâ€Season Strategies. Crop Science, 2014, 54, 2782-2795. | 1.8 | 14 |
| 137 | Robust spatial frameworks for leveraging research on sustainable crop intensification. Global Food Security, 2017, 14, 18-22. | 8.1 | 14 |
| 138 | Progress Towards Perennial Grains for Prairies and Plains. Outlook on Agriculture, 2022, 51, 32-38. | 3.4 | 12 |
| 139 | Effect of Leaf Phosphorus and Potassium Concentration on Chlorophyll Meter Reading in Rice. Plant Production Science, 1999, 2, 227-231. | 2.0 | 11 |
| 140 | Effects of variations in soil water potential, depth of N placement, and cultivar on postanthesis N uptake by wheat. Plant and Soil, 1992, 143, 45-53. | 3.7 | 10 |
| 141 | Nitrogen Fixation by Irrigated Berseem Clover versus Soil Nitrogen Supply. Journal of Agronomy and Crop Science, 1990, 164, 202-207. | 3.5 | 9 |
| 142 | Reply to 'No-till agriculture and climate change mitigation'. Nature Climate Change, 2015, 5, 489-489. | 18.8 | 9 |
| 143 | Microwaveâ€oven drying of rice leaves for rapid determination of dry weight and nitrogen concentration. Journal of Plant Nutrition, 1994, 17, 209-217. | 1.9 | 6 |
| 144 | Disentangling management factors influencing nitrogen balance in producer fields in the western Corn Belt. Agricultural Systems, 2021, 193, 103245. | 6.1 | 5 |

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| 145 | A cropping systems approach to salinity management in California. Renewable Agriculture and Food Systems, 1986, 1, 115-121. | 0.5 | 4 |
| 146 | Temporal Origin of Nitrogen in the Grain of Tropical Wet-Season Rice. Agronomy Journal, 2005, 97, 698-704. | 1.8 | 4 |
| 147 | The impact of meat consumption on the tropics: reply to Machovina and Feeley. Trends in Ecology and Evolution, 2014, 29, 432. | 8.7 | 3 |
| 148 | Luck versus Skill: Is Nitrogen Balance in Irrigated Maize Fields Driven by Persistent or Random Factors?. Environmental Science & Technology, 2021, 55, 749-756. | 10.0 | 3 |
| 149 | A Low-Cost System for Circulating Nutrient Solutions in Pot Studies1. Crop Science, 1980, 20, 110. | 1.8 | 3 |
| 150 | POTENTIAL BENEFITS OF LAND APPLYING BIOSOLIDS IN EASTERN NEBRASKA. Proceedings of the Water Environment Federation, 2001, 2001, 1011-1024. | 0.0 | 1 |
| 151 | Response to Comment by C. G. Kowalenko. Soil Science Society of America Journal, 1981, 45, 1006-1006. | 2.2 | 1 |
| 152 | Is fertilization efficiency misleading?. Nature, 2003, 422, 398-398. | 27.8 | 0 |
| 153 | Biofuels or Food?. Scientific American, 2008, 18, 28-28. | 1.0 | 0 |
| 154 | Response to comment on â€œEvaluating conservation agriculture for small-scale farmers in Sub-Saharan Africa and South Asiaâ€• Agriculture, Ecosystems and Environment, 2014, 196, 112-113. | 5.3 | 0 |
| 155 | Spatial Frameworks to Support Agronomic Innovation. Crops & Soils, 2021, 54, 46-51. | 0.2 | 0 |
| 156 | Water-efficient clover fixes soil nitrogen, provides winter forage crop. California Agriculture, 1991, 45, 30-32. | 0.8 | 0 |