# David B Lobell

List of Publications by Year
in descending order



| 202 | 36,440 | 7087 78 | 3321 184 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 205 | 205 | 205 | 27876 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Prior crop season management constrains farmer adaptation to warming temperatures: Evidence from the Indo-Gangetic Plains. Science of the Total Environment, 2022, 807, 151671. | 3.9 | 8 |
| 2 | Evaluating maize yield response to fertilizer and soil in Mexico using ground and satellite approaches. Field Crops Research, 2022, 276, 108393. | 2.3 | 2 |
| 3 | Mapping Sugarcane in Central India with Smartphone Crowdsourcing. Remote Sensing, 2022, 14, 703. | 1.8 | 9 |
| 4 | Combining randomized field experiments with observational satellite data to assess the benefits of crop rotations on yields. Environmental Research Letters, 2022, 17, 044066. | 2.2 | 6 |
| 5 | Early- and in-season crop type mapping without current-year ground truth: Generating labels from historical information via a topology-based approach. Remote Sensing of Environment, 2022, 274, 112994. | 4.6 | 42 |
| 6 | Globally ubiquitous negative effects of nitrogen dioxide on crop growth. Science Advances, 2022, 8, . | 4.7 | 21 |
| 7 | Evaluation of soil-dependent crop yield outcomes in Nepal using ground and satellite-based approaches. Field Crops Research, 2021, 260, 107987. | 2.3 | 12 |
| 8 | A million kernels of truth: Insights into scalable satellite maize yield mapping and yield gap analysis from an extensive ground dataset in the US Corn Belt. Remote Sensing of Environment, 2021, 253, 112174. | 4.6 | 54 |
| 9 | Uniting remote sensing, crop modelling and economics for agricultural risk management. Nature Reviews Earth & Environment, 2021, 2, 140-159. | 12.2 | 88 |
| 10 | Using satellite imagery to understand and promote sustainable development. Science, 2021, 371, . | 6.0 | 138 |
| 11 | Scalable deep learning to identify brick kilns and aid regulatory capacity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 16 |
| 12 | Anthropogenic climate change has slowed global agricultural productivity growth. Nature Climate Change, 2021, 11, 306-312. | 8.1 | 336 |
| 13 | Using Sentinel-1, Sentinel-2, and Planet Imagery to Map Crop Type of Smallholder Farms. Remote Sensing, 2021, 13, 1870. | 1.8 | 34 |
| 14 | Cleaner air has contributed one-fifth of US maize and soybean yield gains since 1999. Environmental Research Letters, 2021, 16, 074049. | 2.2 | 21 |
| 15 | The impact of groundwater depletion on agricultural production in India. Environmental Research Letters, 2021, 16, 085003. | 2.2 | 33 |
| 16 | Twice Is Nice: The Benefits of Two Ground Measures for Evaluating the Accuracy of Satellite-Based Sustainability Estimates. Remote Sensing, 2021, 13, 3160. | 1.8 | 9 |
| 17 | Two shifts for crop mapping: Leveraging aggregate crop statistics to improve satellite-based maps in new regions. Remote Sensing of Environment, 2021, 262, 112488. | 4.6 | 21 |
| 18 | Combining GEDI and Sentinel-2 for wall-to-wall mapping of tall and short crops. Environmental Research Letters, 2021, 16, 125002. | 2.2 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | From sunlight to seed: Assessing limits to solar radiation capture and conversion in agro-ecosystems. Agricultural and Forest Meteorology, 2020, 280, 107775. | 1.9 | 11 |
| 20 | Eyes in the Sky, Boots on the Ground: Assessing Satelliteâ€•and Groundâ€Based Approaches to Crop Yield Measurement and Analysis. American Journal of Agricultural Economics, 2020, 102, 202-219. | 2.4 | 86 |
| 21 | Mapping Crop Types in Southeast India with Smartphone Crowdsourcing and Deep Learning. Remote Sensing, 2020, 12, 2957. | 1.8 | 48 |
| 22 | Mapping twenty years of corn and soybean across the US Midwest using the Landsat archive. Scientific Data, 2020, 7, 307. | 2.4 | 56 |
| 23 | The COVID-19 lockdowns: a window into the Earth System. Nature Reviews Earth & Environment, 2020, 1, 470-481. | 12.2 | 153 |
| 24 | Farm Parcel Delineation Using Spatio-temporal Convolutional Networks. , 2020, , . | | 14 |
| 25 | Meta-Learning for Few-Shot Land Cover Classification. , 2020, , . | | 34 |
| 26 | Changes in the drought sensitivity of US maize yields. Nature Food, 2020, 1, 729-735. | 6.2 | 68 |
| 27 | High-Resolution Soybean Yield Mapping Across the US Midwest Using Subfield Harvester Data. Remote Sensing, 2020, 12, 3471. | 1.8 | 16 |
| 28 | On the role of anthropogenic climate change in the emerging food crisis in southern Africa in the 2019â€“2020 growing season. Global Change Biology, 2020, 26, 2729-2730. | 4.2 | 7 |
| 29 | Weakly Supervised Deep Learning for Segmentation of Remote Sensing Imagery. Remote Sensing, 2020, 12, 207. | 1.8 | 136 |
| 30 | Viewpoint: Principles and priorities for one CGIAR. Food Policy, 2020, 91, 101825. | 2.8 | 5 |
| 31 | Using publicly available satellite imagery and deep learning to understand economic well-being in Africa. Nature Communications, 2020, 11, 2583. | 5.8 | 158 |
| 32 | Factors Constraining Timely Sowing of Wheat as an Adaptation to Climate Change in Eastern India. Weather, Climate, and Society, 2020, 12, 515-528. | 0.5 | 15 |
| 33 | Generating Interpretable Poverty Maps using Object Detection in Satellite Images. , 2020, , . | | 37 |
| 34 | Sight for Sorghums: Comparisons of Satellite- and Ground-Based Sorghum Yield Estimates in Mali. Remote Sensing, 2020, 12, 100. | 1.8 | 35 |
| 35 | Landsat-Based Reconstruction of Corn and Soybean Yield Histories in the United States Since 1999. , 2020, , . | | 0 |
| 36 | Meta-Learning For Few-Shot Time Series Classification. , 2020, , . | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A new spin on an old debate: Errors in farmer-reported production and their implications for inverse scale - Productivity relationship in Uganda. Journal of Development Economics, 2019, 141, 102376. | 2.1 | 69 |
| 38 | Predicting Economic Development using Geolocated Wikipedia Articles. , 2019, , . | | 31 |
| 39 | Mapping Missing Population in Rural India. , 2019, , . | | 15 |
| 40 | Tile2Vec: Unsupervised Representation Learning for Spatially Distributed Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 3967-3974. | 3.6 | 78 |
| 41 | The role of irrigation in changing wheat yields and heat sensitivity in India. Nature Communications, 2019, 10, 4144. | 5.8 | 146 |
| 42 | Rotation Effects on Corn and Soybean Yield Inferred from Satellite and Fieldâ€level Data. Agronomy Journal, 2019, 111, 2940-2948. | 0.9 | 10 |
| 43 | How much will precision nitrogen management pay off? An evaluation based on simulating thousands of corn fields over the US Corn-Belt. Field Crops Research, 2019, 240, 12-22. | 2.3 | 32 |
| 44 | Integrating satellite and climate data to predict wheat yield in Australia using machine learning approaches. Agricultural and Forest Meteorology, 2019, 274, 144-159. | 1.9 | 319 |
| 45 | Water Use Efficiency as a Constraint and Target for Improving the Resilience and Productivity of C<sub>3</sub> and C<sub>4</sub> Crops. Annual Review of Plant Biology, 2019, 70, 781-808. | 8.6 | 202 |
| 46 | Smallholder maize area and yield mapping at national scales with Google Earth Engine. Remote Sensing of Environment, 2019, 228, 115-128. | 4.6 | 235 |
| 47 | Satellites reveal a small positive yield effect from conservation tillage across the US Corn Belt. Environmental Research Letters, 2019, 14, 124038. | 2.2 | 39 |
| 48 | The impact of agricultural interventions can be doubled by using satellite data. Nature Sustainability, 2019, 2, 931-934. | 11.5 | 37 |
| 49 | Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases. Science, 2019, 363, . | 6.0 | 34 |
| 50 | Crop type mapping without field-level labels: Random forest transfer and unsupervised clustering techniques. Remote Sensing of Environment, 2019, 222, 303-317. | 4.6 | 229 |
| 51 | Satellite mapping of tillage practices in the North Central US region from 2005 to 2016. Remote Sensing of Environment, 2019, 221, 417-429. | 4.6 | 47 |
| 52 | Learning to Interpret Satellite Images using Wikipedia. , 2019, , . | | 13 |
| 53 | Differences, or lack thereof, in wheat and maize yields under three low-warming scenarios. Environmental Research Letters, 2018, 13, 065001. | 2.2 | 17 |
| 54 | Estimated impacts of emission reductions on wheat and maize crops. Climatic Change, 2018, 146, 533-545. | 1.7 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Increasing drought and diminishing benefits of elevated carbon dioxide for soybean yields across the US Midwest. Global Change Biology, 2018, 24, e522-e533. | 4.2 | 74 |
| 56 | Hierarchical modeling of seed variety yields and decision making for future planting plans. Environment Systems and Decisions, 2018, 38, 458-470. | 1.9 | 11 |
| 57 | Anticipated burden and mitigation of carbon-dioxide-induced nutritional deficiencies and related diseases: A simulation modeling study. PLoS Medicine, 2018, 15, e1002586. | 3.9 | 40 |
| 58 | Deep Transfer Learning for Crop Yield Prediction with Remote Sensing Data. , 2018, , . | | 117 |
| 59 | Satellite detection of cover crops and their effects on crop yield in the Midwestern United States. Environmental Research Letters, 2018, 13, 064033. | 2.2 | 52 |
| 60 | Infrastructure Quality Assessment in Africa using Satellite Imagery and Deep Learning. , 2018, , . | | 29 |
| 61 | Synthesis and Review: an inter-method comparison of climate change impacts on agriculture. Environmental Research Letters, 2018, 13, 070401. | 2.2 | 25 |
| 62 | The important but weakening maize yield benefit of grain filling prolongation in the US Midwest. Global Change Biology, 2018, 24, 4718-4730. | 4.2 | 41 |
| 63 | Comparing estimates of climate change impacts from process-based and statistical crop models. Environmental Research Letters, 2017, 12, 015001. | 2.2 | 212 |
| 64 | Satellite detection of rising maize yield heterogeneity in the U.S. Midwest. Environmental Research Letters, 2017, 12, 014014. | 2.2 | 41 |
| 65 | Satellite-based assessment of yield variation and its determinants in smallholder African systems. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2189-2194. | 3.3 | 256 |
| 66 | Assessing the heterogeneity and persistence of farmersâ€™ maize yield performance across the North China Plain. Field Crops Research, 2017, 205, 55-66. | 2.3 | 20 |
| 67 | Towards fine resolution global maps of crop yields: Testing multiple methods and satellites in three countries. Remote Sensing of Environment, 2017, 202, 129-141. | 4.6 | 145 |
| 68 | Landsat-based classification in the cloud: An opportunity for a paradigm shift in land cover monitoring. Remote Sensing of Environment, 2017, 202, 64-74. | 4.6 | 160 |
| 69 | Continuous Corn and Soybean Yield Penalties across Hundreds of Thousands of Fields. Agronomy Journal, 2017, 109, 541-548. | 0.9 | 64 |
| 70 | Improving the accuracy of satellite-based high-resolution yield estimation: A test of multiple scalable approaches. Agricultural and Forest Meteorology, 2017, 247, 207-220. | 1.9 | 81 |
| 71 | Using remotely sensed temperature to estimate climate response functions. Environmental Research Letters, 2017, 12, 014013. | 2.2 | 17 |
| 72 | Comparing and combining process-based crop models and statistical models with some implications for climate change. Environmental Research Letters, 2017, 12, 095010. | 2.2 | 124 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Monitoring Ethiopian Wheat Fungus with Satellite Imagery and Deep Feature Learning. , 2017, , . | | 18 |
| 74 | The shared and unique values of optical, fluorescence, thermal and microwave satellite data for estimating large-scale crop yields. Remote Sensing of Environment, 2017, 199, 333-349. | 4.6 | 165 |
| 75 | Temperature increase reduces global yields of major crops in four independent estimates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9326-9331. | 3.3 | 1,708 |
| 76 | Historical effects of CO2 and climate trends on global crop water demand. Nature Climate Change, 2017, 7, 901-905. | 8.1 | 19 |
| 77 | Hot spots of wheat yield decline with rising temperatures. Global Change Biology, 2017, 23, 2464-2472. | 4.2 | 80 |
| 78 | Assessing climate adaptation options and uncertainties for cereal systems in West Africa. Agricultural and Forest Meteorology, 2017, 232, 291-305. | 1.9 | 74 |
| 79 | Mapping Smallholder Yield Heterogeneity at Multiple Scales in Eastern Africa. Remote Sensing, 2017, 9, 931. | 1.8 | 66 |
| 80 | Mapping Smallholder Wheat Yields and Sowing Dates Using Micro-Satellite Data. Remote Sensing, 2016, 8, 860. | 1.8 | 74 |
| 81 | Growing sensitivity of maize to water scarcity under climate change. Scientific Reports, 2016, 6, 19605. | 1.6 | 87 |
| 82 | An approach to understanding persistent yield variationâ€"A case study in North China Plain. European Journal of Agronomy, 2016, 77, 10-19. | 1.9 | 15 |
| 83 | Pharaoh's Dream Revisited: An Integrated US Midwest Field Research Network for Climate Adaptation. BioScience, 2016, 66, 80-85. | 2.2 | 5 |
| 84 | Combining satellite imagery and machine learning to predict poverty. Science, 2016, 353, 790-794. | 6.0 | 938 |
| 85 | Similar estimates of temperature impacts on global wheat yield by three independent methods. Nature Climate Change, 2016, 6, 1130-1136. | 8.1 | 352 |
| 86 | Yield trends under varying environmental conditions for sorghum and wheat across Australia. Agricultural and Forest Meteorology, 2016, 228-229, 276-285. | 1.9 | 38 |
| 87 | Improving the monitoring of crop productivity using spaceborne solarâ€induced fluorescence. Global Change Biology, 2016, 22, 716-726. | 4.2 | 240 |
| 88 | Colocation opportunities for large solar infrastructures and agriculture in drylands. Applied Energy, 2016, 165, 383-392. | 5.1 | 125 |
| 89 | Contribution of persistent factors to yield gaps in high-yield irrigated maize. Field Crops Research, 2016, 186, 124-132. | 2.3 | 40 |
| 90 | What aspects of future rainfall changes matter for crop yields in West Africa?. Geophysical Research Letters, 2015, 42, 8001-8010. | 1.5 | 57 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | The shifting influence of drought and heat stress for crops in northeast Australia. Global Change Biology, 2015, 21, 4115-4127. | 4.2 | 230 |
| 92 | The impacts of future climate and carbon dioxide changes on the average and variability of US maize yields under two emission scenarios. Environmental Research Letters, 2015, 10, 045003. | 2.2 | 68 |
| 93 | Reply to Gonsamo and Chen: Yield findings independent of cause of climate trends. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2267-E2267. | 3.3 | 1 |
| 94 | The fingerprint of climate trends on European crop yields. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2670-2675. | 3.3 | 176 |
| 95 | The effects of extremely wet planting conditions on maize and soybean yields. Climatic Change, 2015, 130, 247-260. | 1.7 | 57 |
| 96 | Using satellite remote sensing to understand maize yield gaps in the North China Plain. Field Crops Research, 2015, 183, 31-42. | 2.3 | 29 |
| 97 | Impacts of precipitation and temperature on crop yields in the Pampas. Climatic Change, 2015, 130, 235-245. | 1.7 | 65 |
| 98 | Response of double cropping suitability to climate change in the United States. Environmental Research Letters, 2015, 10, 024002. | 2.2 | 68 |
| 99 | A scalable satellite-based crop yield mapper. Remote Sensing of Environment, 2015, 164, 324-333. | 4.6 | 361 |
| 100 | Incorporating Climate Uncertainty into Estimates of Climate Change Impacts. Review of Economics and Statistics, 2015, 97, 461-471. | 2.3 | 148 |
| 101 | Historical climate trends, deforestation, and maize and bean yields in Nicaragua. Agricultural and Forest Meteorology, 2015, 200, 270-281. | 1.9 | 64 |
| 102 | Testing Remote Sensing Approaches for Assessing Yield Variability among Maize Fields. Agronomy Journal, 2014, 106, 24-32. | 0.9 | 73 |
| 103 | Getting caught with our plants down: the risks of a global crop yield slowdown from climate trends in the next two decades. Environmental Research Letters, 2014, 9, 074003. | 2.2 | 82 |
| 104 | Temperature and violence. Nature Climate Change, 2014, 4, 234-235. | 8.1 | 24 |
| 105 | Reply to 'Temperature and drought effects on maize yield'. Nature Climate Change, 2014, 4, 234-234. | 8.1 | 20 |
| 106 | The benefits of recent warming for maize production in high latitude China. Climatic Change, 2014, 122, 341-349. | 1.7 | 60 |
| 107 | Greater Sensitivity to Drought Accompanies Maize Yield Increase in the U.S. Midwest. Science, 2014, 344, 516-519. | 6.0 | 779 |
| 108 | Adaptation potential of European agriculture in response to climate change. Nature Climate Change, 2014, 4, 610-614. | 8.1 | 193 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Tradeoffs and Synergies between Biofuel Production and Large Solar Infrastructure in Deserts. Environmental Science & Technology, 2014, 48, 3021-3030. | 4.6 | 50 |
| 110 | Climate change adaptation in crop production: Beware of illusions. Global Food Security, 2014, 3, 72-76. | 4.0 | 149 |
| 111 | Agricultural adaptation to climate change in rich and poor countries: Current modeling practice and potential for empirical contributions. Energy Economics, 2014, 46, 562-575. | 5.6 | 93 |
| 112 | US maize adaptability. Nature Climate Change, 2013, 3, 690-691. | 8.1 | 35 |
| 113 | The use of satellite data for crop yield gap analysis. Field Crops Research, 2013, 143, 56-64. | 2.3 | 256 |
| 114 | Reduction of transpiration and altered nutrient allocation contribute to nutrient decline of crops grown in elevated CO<sub>2</sub> concentrations. Plant, Cell and Environment, 2013, 36, 697-705. | 2.8 | 218 |
| 115 | Errors in climate datasets and their effects on statistical crop models. Agricultural and Forest Meteorology, 2013, 170, 58-66. | 1.9 | 48 |
| 116 | The challenge to detect and attribute effects of climate change on human and natural systems. Climatic Change, 2013, 121, 381-395. | 1.7 | 87 |
| 117 | An assessment of wheat yield sensitivity and breeding gains in hot environments. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122190. | 1.2 | 97 |
| 118 | The critical role of extreme heat for maize production in the United States. Nature Climate Change, 2013, 3, 497-501. | 8.1 | 706 |
| 119 | Satellite detection of earlier wheat sowing in India and implications for yield trends. Agricultural Systems, 2013, 115, 137-143. | 3.2 | 67 |
| 120 | Climate adaptation as mitigation: the case of agricultural investments. Environmental Research Letters, 2013, 8, 015012. | 2.2 | 78 |
| 121 | Regional disparities in the CO <sub>2</sub> fertilization effect and implications for crop yields. Environmental Research Letters, 2013, 8, 014054. | 2.2 | 116 |
| 122 | Seasonal energy storage using bioenergy production from abandoned croplands. Environmental Research Letters, 2013, 8, 035012. | 2.2 | 18 |
| 123 | Global crop exposure to critical high temperatures in the reproductive period: historical trends and future projections. Environmental Research Letters, 2013, 8, 024041. | 2.2 | 350 |
| 124 | The case of the missing wheat. Environmental Research Letters, 2012, 7, 021002. | 2.2 | 7 |
| 125 | Evaluating the Contribution of Weather to Maize and Wheat Yield Trends in 12 U.S. Counties. Agronomy Journal, 2012, 104, 301-311. | 0.9 | 31 |
| 126 | The Influence of Climate Change on Global Crop Productivity. Plant Physiology, 2012, 160, 1686-1697. | 2.3 | 839 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Extreme heat effects on wheat senescence in India. Nature Climate Change, 2012, 2, 186-189. | 8.1 | 606 |
| 128 | Projected temperature changes indicate significant increase in interannual variability of U.S. maize yields. Climatic Change, 2012, 112, 525-533. | 1.7 | 121 |
| 129 | Agricultural Research and Management at the Field Scale. , 2012, , 139-169. | | 0 |
| 130 | Climate variability and crop production in Tanzania. Agricultural and Forest Meteorology, 2011, 151, 449-460. | 1.9 | 354 |
| 131 | Effect of vineyard-scale climate variability on Pinot noir phenolic composition. Agricultural and Forest Meteorology, 2011, 151, 1556-1567. | 1.9 | 59 |
| 132 | Climate volatility and poverty vulnerability in Tanzania. Global Environmental Change, 2011, 21, 46-55. | 3.6 | 111 |
| 133 | Climate Trends and Global Crop Production Since 1980. Science, 2011, 333, 616-620. | 6.0 | 3,040 |
| 134 | Direct impacts on local climate of sugar-cane expansion in Brazil. Nature Climate Change, 2011, 1, 105-109. | 8.1 | 208 |
| 135 | An independent method of deriving the carbon dioxide fertilization effect in dry conditions using historical yield data from wet and dry years. Global Change Biology, 2011, 17, 2689-2696. | 4.2 | 42 |
| 136 | Nonlinear heat effects on African maize as evidenced by historical yield trials. Nature Climate Change, 2011, 1, 42-45. | 8.1 | 860 |
| 137 | California perennial crops in a changing climate. Climatic Change, 2011, 109, 317-333. | 1.7 | 69 |
| 138 | Climate extremes in California agriculture. Climatic Change, 2011, 109, 355-363. | 1.7 | 34 |
| 139 | Direct climate effects of perennial bioenergy crops in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4307-4312. | 3.3 | 199 |
| 140 | Land-Cover and Surface Water Change Drive Large Albedo Increases in South America*. Earth Interactions, 2011, 15, 1-16. | 0.7 | 38 |
| 141 | Satelliteâ€Based Detection of Salinity and Sodicity Impacts on Wheat Production in the Mexicali Valley. Soil Science Society of America Journal, 2011, 75, 699-707. | 1.2 | 5 |
| 142 | A walk on the wild side. Nature Climate Change, 2011, 1, 374-375. | 8.1 | 77 |
| 143 | Regionalâ€scale Assessment of Soil Salinity in the Red River Valley Using Multiâ€year MODIS EVI and NDVI. Journal of Environmental Quality, 2010, 39, 35-41. | 1.0 | 129 |
| 144 | Remote Sensing of Soil Degradation: Introduction. Journal of Environmental Quality, 2010, 39, 1-4. | 1.0 | 58 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 145 | Climate robustly linked to African civil war. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, E185; author reply E186-7. | 3.3 | 64 |
| 146 | Global and Regional Assessments. Advances in Global Change Research, 2010, , 177-192. | 1.6 | 2 |
| 147 | Robust negative impacts of climate change on African agriculture. Environmental Research Letters, 2010, 5, 014010. | 2.2 | 979 |
| 148 | African Agriculture in 2050: Climate Change Impacts and Adaptation Options. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2010, , 255-266. | 0.4 | 0 |
| 149 | The poverty implications of climate-induced crop yield changes by 2030. Global Environmental Change, 2010, 20, 577-585. | 3.6 | 364 |
| 150 | Satellite evidence for yield growth opportunities in Northwest India. Field Crops Research, 2010, 118, 13-20. | 2.3 | 26 |
| 151 | On the use of statistical models to predict crop yield responses to climate change. Agricultural and Forest Meteorology, 2010, 150, 1443-1452. | 1.9 | 636 |
| 152 | Greenhouse gas mitigation by agricultural intensification. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12052-12057. | 3.3 | 835 |
| 153 | Climate Effects on Food Security: An Overview. Advances in Global Change Research, 2010, , 13-30. | 1.6 | 30 |
| 154 | Crop Responses to Climate: Time-Series Models. Advances in Global Change Research, 2010, , 85-98. | 1.6 | 8 |
| 155 | Food Security and Adaptation to Climate Change: What Do We Know?. Advances in Global Change Research, 2010, , 133-153. | 1.6 | 48 |
| 156 | Warming increases the risk of civil war in Africa. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20670-20674. | 3.3 | 711 |
| 157 | Regional Differences in the Influence of Irrigation on Climate. Journal of Climate, 2009, 22, 2248-2255. | 1.2 | 185 |
| 158 | Responseâ€"Energy Strategies and Efficiency. Science, 2009, 325, 812-813. | 6.0 | 1 |
| 159 | Crop Yield Gaps: Their Importance, Magnitudes, and Causes. Annual Review of Environment and Resources, 2009, 34, 179-204. | 5.6 | 1,038 |
| 160 | Shifts in African crop climates by 2050, and the implications for crop improvement and genetic resources conservation. Global Environmental Change, 2009, 19, 317-325. | 3.6 | 221 |
| 161 | Identification of external influences on temperatures in California. Climatic Change, 2008, 87, 43-55. | 1.7 | 56 |
| 162 | Estimation of the carbon dioxide (CO<sub>2</sub>) fertilization effect using growth rate anomalies of CO<sub>2</sub> and crop yields since 1961. Global Change Biology, 2008, 14, 39-45. | 4.2 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Estimation of the CO<sub>2</sub> fertilization effect using growth rate anomalies of CO<sub>2</sub> and crop yields since 1961. Global Change Biology, 2008, 14, 451-451. | 4.2 | 42 |
| 164 | The Global Potential of Bioenergy on Abandoned Agriculture Lands. Environmental Science & Technology, 2008, 42, 5791-5794. | 4.6 | 546 |
| 165 | Prioritizing Climate Change Adaptation Needs for Food Security in 2030. Science, 2008, 319, 607-610. | 6.0 | 2,309 |
| 166 | Biomass energy: the scale of the potential resource. Trends in Ecology and Evolution, 2008, 23, 65-72. | 4.2 | 637 |
| 167 | Irrigation cooling effect on temperature and heat index extremes. Geophysical Research Letters, 2008, 35, . | 1.5 | 129 |
| 168 | The Role of Irrigation Expansion in Past and Future Temperature Trends. Earth Interactions, 2008, 12, 1-11. | 0.7 | 37 |
| 169 | The Effect of Irrigation on Regional Temperatures: A Spatial and Temporal Analysis of Trends in California, 1934â€“2002. Journal of Climate, 2008, 21, 2063-2071. | 1.2 | 159 |
| 170 | Why are agricultural impacts of climate change so uncertain? The importance of temperature relative to precipitation. Environmental Research Letters, 2008, 3, 034007. | 2.2 | 299 |
| 171 | Satellite Monitoring of Yield Responses to Irrigation Practices across Thousands of Fields. Agronomy Journal, 2008, 100, 1005-1012. | 0.9 | 9 |
| 172 | Comments on â€œMethodology and Results of Calculating Central California Surface Temperature Trends: Evidence of Human-Induced Climate Change?â€• Journal of Climate, 2007, 20, 4486-4489. | 1.2 | 8 |
| 173 | Empirical evidence for a recent slowdown in irrigation-induced cooling. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13582-13587. | 3.3 | 199 |
| 174 | Impacts of Day Versus Night Temperatures on Spring Wheat Yields:A Comparison of Empirical and CERES Model Predictions in Three Locations. Agronomy Journal, 2007, 99, 469-477. | 0.9 | 145 |
| 175 | Changes in diurnal temperature range and national cereal yields. Agricultural and Forest Meteorology, 2007, 145, 229-238. | 1.9 | 250 |
| 176 | Yield uncertainty at the field scale evaluated with multi-year satellite data. Agricultural Systems, 2007, 92, 76-90. | 3.2 | 36 |
| 177 | The cost of uncertainty for nitrogen fertilizer management: A sensitivity analysis. Field Crops Research, 2007, 100, 210-217. | 2.3 | 60 |
| 178 | Remote sensing assessment of regional yield losses due to sub-optimal planting dates and fallow period weed management. Field Crops Research, 2007, 101, 80-87. | 2.3 | 41 |
| 179 | Global scale climateâ€“crop yield relationships and the impacts of recent warming. Environmental Research Letters, 2007, 2, 014002. | 2.2 | 1,494 |
| 180 | Feedbacks of Terrestrial Ecosystems to Climate Change. Annual Review of Environment and Resources, 2007, 32, 1-29. | 5.6 | 268 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Climate change uncertainty for daily minimum and maximum temperatures: A model inter-comparison. Geophysical Research Letters, 2007, 34, . | 1.5 | 122 |
| 182 | Interpreting recent temperature trends in California. Eos, 2007, 88, 409-410. | 0.1 | 20 |
| 183 | Identification of Saline Soils with Multiyear Remote Sensing of Crop Yields. Soil Science Society of America Journal, 2007, 71, 777-783. | 1.2 | 74 |
| 184 | Historical effects of temperature and precipitation on California crop yields. Climatic Change, 2007, 81, 187-203. | 1.7 | 240 |
| 185 | Impacts of future climate change on California perennial crop yields: Model projections with climate and crop uncertainties. Agricultural and Forest Meteorology, 2006, 141, 208-218. | 1.9 | 246 |
| 186 | Evaluating strategies for improved water use in spring wheat with CERES. Agricultural Water Management, 2006, 84, 249-258. | 2.4 | 40 |
| 187 | Regional importance of crop yield constraints: Linking simulation models and geostatistics to interpret spatial patterns. Ecological Modelling, 2006, 196, 173-182. | 1.2 | 52 |
| 188 | Weather-based yield forecasts developed for 12 California crops. California Agriculture, 2006, 60, 211-215. | 0.5 | 14 |
| 189 | Analysis of wheat yield and climatic trends in Mexico. Field Crops Research, 2005, 94, 250-256. | 2.3 | 228 |
| 190 | Cropland distributions from temporal unmixing of MODIS data. Remote Sensing of Environment, 2004, 93, 412-422. | 4.6 | 272 |
| 191 | Spatiotemporal patterns of cropland area and net primary production in the central United States estimated from USDA agricultural information. Geophysical Research Letters, 2004, 31, . | 1.5 | 32 |
| 192 | Relative importance of soil and climate variability for nitrogen management in irrigated wheat. Field Crops Research, 2004, 87, 155-165. | 2.3 | 33 |
| 193 | Remote sensing of regional crop production in the Yaqui Valley, Mexico: estimates and uncertainties. Agriculture, Ecosystems and Environment, 2003, 94, 205-220. | 2.5 | 301 |
| 194 | A method for quantifying vulnerability, applied to the agricultural system of the Yaqui Valley, Mexico. Global Environmental Change, 2003, 13, 255-267. | 3.6 | 428 |
| 195 | Per-Pixel Analysis of Forest Structure. , 2003, , 209-254. | | 18 |
| 196 | Climate and Management Contributions to Recent Trends in U.S. Agricultural Yields. Science, 2003, 299, 1032-1032. | 6.0 | 232 |
| 197 | Moisture Effects on Soil Reflectance. Soil Science Society of America Journal, 2002, 66, 722-727. | 1.2 | 452 |
| 198 | Soil, climate, and management impacts on regional wheat productivity in Mexico from remote sensing. Agricultural and Forest Meteorology, 2002, 114, 31-43. | 1.9 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Moisture Effects on Soil Reflectance. Soil Science Society of America Journal, 2002, 66, 722. | 1.2 | 145 |
| 200 | Subpixel canopy cover estimation of coniferous forests in Oregon using SWIR imaging spectrometry. Journal of Geophysical Research, 2001, 106, 5151-5160. | 3.3 | 37 |
| 201 | Quantifying Vegetation Change in Semiarid Environments. Remote Sensing of Environment, 2000, 73, 87-102. | 4.6 | 413 |
| 202 | A Biogeophysical Approach for Automated SWIR Unmixing of Soils and Vegetation. Remote Sensing of Environment, 2000, 74, 99-112. | 4.6 | 324 |