# Donald S Gaydon

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2431891/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 57 papers | 3,180 citations | 293460 24 h-index | 175968 55 g-index |
| 59 all docs | 59 docs citations | 59 times ranked | 3681 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Testing APSIM in a complex saline coastal cropping environment. Environmental Modelling and Software, 2022, 147, 105239. | 1.9 | 9 |
| 2 | Integrating gender and farmer's preferences in a discussion support tool for crop choice. Agricultural Systems, 2022, 195, 103300. | 3.2 | 4 |
| 3 | How we used APSIM to simulate conservation agriculture practices in the rice-wheat system of the Eastern Gangetic Plains. Field Crops Research, 2022, 275, 108344. | 2.3 | 25 |
| 4 | Sustainable groundwater use in the Eastern Gangetic Plains requires region-specific solutions. Groundwater for Sustainable Development, 2022, 18, 100798. | 2.3 | 0 |
| 5 | Model-based evaluation of rainfed lowland rice responses to N fertiliser in variable hydro-edaphic wetlands of East Africa. Field Crops Research, 2022, 285, 108602. | 2.3 | 4 |
| 6 | Tweaking Pakistani Punjab rice-wheat management to maximize productivity within nitrate leaching limits. Field Crops Research, 2021, 260, 107964. | 2.3 | 13 |
| 7 | Puddled and zero-till unpuddled transplanted rice are each best suited to different environments â€“ An example from two diverse locations in the Eastern Gangetic Plains of Bangladesh. Field Crops Research, 2021, 262, 108031. | 2.3 | 11 |
| 8 | Impact of climate change and management strategies on water and salt balance of the polders and islands in the Ganges delta. Scientific Reports, 2021, 11, 7041. | 1.6 | 29 |
| 9 | Opportunities and risks with early sowing of sunflower in a salt-affected coastal region of the Ganges Delta. Agronomy for Sustainable Development, 2021, 41, 1. | 2.2 | 13 |
| 10 | Options for increasing Boro rice production in the saline coastal zone of Bangladesh. Field Crops Research, 2021, 264, 108089. | 2.3 | 16 |
| 11 | Conservation agriculture enhances the rice-wheat system of the Eastern Gangetic Plains in some environments, but not in others. Field Crops Research, 2021, 265, 108109. | 2.3 | 10 |
| 12 | Assessing the effects of management and hydro-edaphic conditions on rice in contrasting East African wetlands using experimental and modelling approaches. Agricultural Water Management, 2021, 258, 107146. | 2.4 | 4 |
| 13 | Improved water management practices improve cropping system profitability and smallholder farmersâ€™ incomes. Agricultural Water Management, 2020, 242, 106411. | 2.4 | 14 |
| 14 | Soil carbon sequestration potential in a Vertisol in central India- results from a 43-year long-term experiment and APSIM modeling. Agricultural Systems, 2020, 184, 102906. | 3.2 | 32 |
| 15 | Farmersâ€™ perceptions and management of risk in rice/shrimp farming systems in South-West Coastal Bangladesh. Land Use Policy, 2020, 95, 104577. | 2.5 | 30 |
| 16 | A water and salt balance model for the polders and islands in the Ganges delta. Journal of Hydrology, 2020, 587, 125008. | 2.3 | 26 |
| 17 | Farmersâ€™ perceptions and management of risk in rice-based farming systems of south-west coastal Bangladesh. Land Use Policy, 2019, 86, 177-188. | 2.5 | 14 |
| 18 | Land Situation and Sowing Date Effects Growth and Yield of Crops in the Rice-Pulse Based Cropping Systems of Coastal India. Proceedings (mdpi), 2019, 36, 152. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Modelling Yield and Seasonal Soil Salinity Dynamics in Rice-Grasspea Cropping System for the Coastal Saline Zone of West Bengal, India. Proceedings (mdpi), 2019, 36, 146. | 0.2 | 2 |
| 20 | Trends in key soil parameters under conservation agriculture-based sustainable intensification farming practices in the Eastern Ganga Alluvial Plains. Soil Research, 2019, 57, 883. | 0.6 | 31 |
| 21 | Analyzing crop yield gaps and their causes using cropping systems modellingâ€“A case study of the Punjab rice-wheat system, Pakistan. Field Crops Research, 2019, 232, 119-130. | 2.3 | 31 |
| 22 | Nitrogen dynamics in flooded soil systems: an overview on concepts and performance of models. Journal of the Science of Food and Agriculture, 2018, 98, 865-871. | 1.7 | 8 |
| 23 | Bio-economic evaluation of cropping systems for saline coastal Bangladesh: I. Biophysical simulation in historical and future environments. Agricultural Systems, 2018, 162, 107-122. | 3.2 | 10 |
| 24 | Bio-economic evaluation of cropping systems for saline coastal Bangladesh: III Benefits of adaptation in current and future environments. Agricultural Systems, 2018, 161, 28-41. | 3.2 | 20 |
| 25 | Modeling salinity effect on rice growth and grain yield with ORYZA v3 and APSIM-Oryza. European Journal of Agronomy, 2018, 100, 44-55. | 1.9 | 68 |
| 26 | Describing the physiological responses of different rice genotypes to salt stress using sigmoid and piecewise linear functions. Field Crops Research, 2018, 220, 46-56. | 2.3 | 52 |
| 27 | Varietal improvement options for higher rice productivity in salt affected areas using crop modelling. Field Crops Research, 2018, 229, 27-36. | 2.3 | 18 |
| 28 | Mechanised dry seeding is an adaptation strategy for managing climate risks and reducing labour costs in rainfed rice production in lowland Lao PDR. Field Crops Research, 2018, 225, 32-46. | 2.3 | 18 |
| 29 | Evaluation of the APSIM model in cropping systems of Asia. Field Crops Research, 2017, 204, 52-75. | 2.3 | 170 |
| 30 | Bio-economic evaluation of cropping systems for saline coastal Bangladesh: II. Economic viability in historical and future environments. Agricultural Systems, 2017, 155, 103-115. | 3.2 | 24 |
| 31 | Smallholder farmers managing climate risk in India: 2. Is it climate-smart?. Agricultural Systems, 2017, 151, 61-72. | 3.2 | 27 |
| 32 | Improving water productivity in moisture-limited rice-based cropping systems through incorporation of maize and mungbean: A modelling approach. Agricultural Water Management, 2017, 189, 111-122. | 2.4 | 28 |
| 33 | Smallholder farmers managing climate risk in India: 1. Adapting to a variable climate. Agricultural Systems, 2017, 150, 54-66. | 3.2 | 25 |
| 34 | Causes of variation among rice models in yield response to CO2 examined with Free-Air CO2 Enrichment and growth chamber experiments. Scientific Reports, 2017, 7, 14858. | 1.6 | 41 |
| 35 | Evaluation of the effects of mulch on optimum sowing date and irrigation management of zero till wheat in central Punjab, India using APSIM. Field Crops Research, 2016, 197, 83-96. | 2.3 | 65 |
| 36 | A taxonomy-based approach to shed light on the babel of mathematical models for rice simulation. Environmental Modelling and Software, 2016, 85, 332-341. | 1.9 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. Global Change Biology, 2015, 21, 1328-1341. | 4.2 | 339 |
| 38 | Options for increasing the productivity of the riceâ€“wheat system of north-west India while reducing groundwater depletion. Part 1. Rice variety duration, sowing date and inclusion of mungbean. Field Crops Research, 2015, 173, 68-80. | 2.3 | 48 |
| 39 | Options for increasing the productivity of the riceâ€“wheat system of north west India while reducing groundwater depletion. Part 2. Is conservation agriculture the answer?. Field Crops Research, 2015, 173, 81-94. | 2.3 | 41 |
| 40 | Simulation of crop and water productivity for rice (Oryza sativa L.) using APSIM under diverse agro-climatic conditions and water management techniques in Sri Lanka. Agricultural Water Management, 2015, 160, 132-143. | 2.4 | 51 |
| 41 | A statistical analysis of three ensembles of crop model responses to temperature and CO2 concentration. Agricultural and Forest Meteorology, 2015, 214-215, 483-493. | 1.9 | 31 |
| 42 | Applicability of APSIM to capture the effectiveness of irrigation management decisions in rice-based cropping sequence in the Upper-Gangetic Plains of India. Paddy and Water Environment, 2015, 13, 325-335. | 1.0 | 12 |
| 43 | APSIM â€“ Evolution towards a new generation of agricultural systems simulation. Environmental Modelling and Software, 2014, 62, 327-350. | 1.9 | 1,173 |
| 44 | Climate Change Perception and Adaptation Options for Agriculture in Southern Khulna of Bangladesh. Applied Ecology and Environmental Sciences, 2014, 2, 25-31. | 0.1 | 19 |
| 45 | Prospects for ecological intensification of Australian agriculture. European Journal of Agronomy, 2013, 44, 109-123. | 1.9 | 106 |
| 46 | The best farm-level irrigation strategy changes seasonally with fluctuating water availability. Agricultural Water Management, 2012, 103, 33-42. | 2.4 | 34 |
| 47 | Comparing water options for irrigation farmers using Modern Portfolio Theory. Agricultural Water Management, 2012, 115, 1-9. | 2.4 | 24 |
| 48 | Rice in cropping systemsâ€”Modelling transitions between flooded and non-flooded soil environments. European Journal of Agronomy, 2012, 39, 9-24. | 1.9 | 86 |
| 49 | Modelling the role of algae in rice crop nutrition and soil organic carbon maintenance. European Journal of Agronomy, 2012, 39, 35-43. | 1.9 | 58 |
| 50 | Rice growth, yield and water productivity responses to irrigation scheduling prior to the delayed application of continuous flooding in south-east Australia. Agricultural Water Management, 2011, 98, 1799-1807. | 2.4 | 54 |
| 51 | Rats in rice: linking crop and pest models to explore management strategies. Wildlife Research, 2011, 38, 560. | 0.7 | 8 |
| 52 | The effects of mulch and irrigation management on wheat in Punjab, Indiaâ€”Evaluation of the APSIM model. Field Crops Research, 2011, 124, 1-13. | 2.3 | 61 |
| 53 | Introducing irrigation efficiencies: prospects for flood-dependent biodiversity in a rice agro-ecosystem. Environmental Conservation, 2011, 38, 353-365. | 0.7 | 9 |
| 54 | More than Ecoâ€efficiency is Required to Improve Food Security. Crop Science, 2010, 50, S-132. | 0.8 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | A methodology for up-scaling irrigation losses. Irrigation Science, 2009, 27, 347-356. | 1.3 | 11 |
| 56 | Production risks and water use benefits of summer crop production on the south coast of Western Australia. Australian Journal of Agricultural Research, 2005, 56, 597. | 1.5 | 14 |
| 57 | Use of modelling to explore the water balance of dryland farming systems in the Murray-Darling Basin, Australia. European Journal of Agronomy, 2002, 18, 159-169. | 1.9 | 70 |