

Joseph G Chimungu

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

1,094
citations

1162367

8
h-index

1199166

12
g-index

19
all docs

19
docs citations

19
times ranked

1092
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Root anatomical phenes associated with water acquisition from drying soil: targets for crop improvement. <i>Journal of Experimental Botany</i> , 2014, 65, 6155-6166. | 2.4 | 262 |
| 2 | Reduced Root Cortical Cell File Number Improves Drought Tolerance in Maize. <i>Plant Physiology</i> , 2014, 166, 1943-1955. | 2.3 | 154 |
| 3 | Root Cortical Aerenchyma Enhances Nitrogen Acquisition from Low-Nitrogen Soils in Maize. <i>Plant Physiology</i> , 2014, 166, 726-735. | 2.3 | 153 |
| 4 | Large Root Cortical Cell Size Improves Drought Tolerance in Maize. <i>Plant Physiology</i> , 2014, 166, 2166-2178. | 2.3 | 148 |
| 5 | Root anatomical phenes predict root penetration ability and biomechanical properties in maize (<i>Zea mays</i> L.). <i>Plant Physiology</i> , 2014, 166, 135-145. | 2.4 | 135 |
| 6 | Root cortical burden influences drought tolerance in maize. <i>Annals of Botany</i> , 2013, 112, 429-437. | 1.4 | 117 |
| 7 | Utility of root cortical aerenchyma under water limited conditions in tropical maize (<i>Zea mays</i> L.). <i>Field Crops Research</i> , 2015, 171, 86-98. | 2.3 | 77 |
| 8 | Root hair phenotypes influence nitrogen acquisition in maize. <i>Annals of Botany</i> , 2021, 128, 849-858. | 1.4 | 21 |
| 9 | Increasing zinc concentration in maize grown under contrasting soil types in Malawi through agronomic biofortification: Trial protocol for a field experiment to detect small effect sizes. <i>Plant Direct</i> , 2020, 4, e00277. | 0.8 | 9 |
| 10 | Communicating uncertainties in spatial predictions of grain micronutrient concentration. <i>Geoscience Communication</i> , 2021, 4, 245-265. | 0.5 | 6 |
| 11 | Longitudinal analysis of a long-term conservation agriculture experiment in Malawi and lessons for future experimental design. <i>Experimental Agriculture</i> , 2020, 56, 506-527. | 0.4 | 5 |
| 12 | Root Traits for Improving Nitrogen Acquisition Efficiency. <i>Plant Physiology</i> , 2014, 166, 181-192. | | 2 |
| 13 | Stakeholder interpretation of probabilistic representations of uncertainty in spatial information: an example on the nutritional quality of staple crops. <i>International Journal of Geographical Information Science</i> , 2014, 28, 1-27. | 2.2 | 2 |
| 14 | Eliciting experts' tacit models for the interpretation of soil information, an example from the evaluation of potential benefits from conservation agriculture. <i>Geoderma</i> , 2020, 376, 114545. | 2.3 | 1 |