Bruno Gerard

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2912044/publications.pdf

Version: 2024-02-01

73 papers	4,598 citations	94269 37 h-index	106150 65 g-index
76 all docs	76 docs citations	76 times ranked	5077 citing authors

#	Article	IF	Citations
1	Carbon sequestration potential, challenges, and strategies towards climate action in smallholder agricultural systems of South Asia. , 2022, 1, 86-101.		18
2	Radiative transfer model inversion using high-resolution hyperspectral airborne imagery â€“ Retrieving maize LAI to access biomass and grain yield. Field Crops Research, 2022, 282, 108449.	2.3	23
3	Responsible plant nutrition: A new paradigm to support food system transformation. Global Food Security, 2022, 33, 100636.	4.0	28
4	Improving smallholder farmersâ€™ gross margins and labor-use efficiency across a range of cropping systems in the Eastern Gangetic Plains. World Development, 2021, 138, 105266.	2.6	32
5	Maize intercropping in the milpa system. Diversity, extent and importance for nutritional security in the Western Highlands of Guatemala. Scientific Reports, 2021, 11, 3696.	1.6	32
6	High Throughput Field Phenotyping for Plant Height Using UAV-Based RGB Imagery in Wheat Breeding Lines: Feasibility and Validation. Frontiers in Plant Science, 2021, 12, 591587.	1.7	46
7	Sparing or sharing land? Views from agricultural scientists. Biological Conservation, 2021, 259, 109167.	1.9	19
8	Energy-efficient, sustainable crop production practices benefit smallholder farmers and the environment across three countries in the Eastern Gangetic Plains, South Asia. Journal of Cleaner Production, 2020, 246, 118982.	4.6	46
9	Carbon sequestration potential through conservation agriculture in Africa has been largely overestimated. Soil and Tillage Research, 2020, 196, 104300.	2.6	15
10	Enabling smallholder farmers to sustainably improve their food, energy and water nexus while achieving environmental and economic benefits. Renewable and Sustainable Energy Reviews, 2020, 120, 109645.	8.2	58
11	Different uncertainty distribution between high and low latitudes in modelling warming impacts on wheat. Nature Food, 2020, 1, 63-69.	6.2	43
12	Agricultural labor, COVID-19, and potential implications for food security and air quality in the breadbasket of India. Agricultural Systems, 2020, 185, 102954.	3.2	58
13	Achieving the sustainable development goals in agriculture: The crucial role of nitrogen in cereal-based systems. Advances in Agronomy, 2020, , 39-116.	2.4	67
14	Indian agriculture, air pollution, and public health in the age of COVID. World Development, 2020, 135, 105064.	2.6	15
15	Conservation agriculture for sustainable intensification in South Asia. Nature Sustainability, 2020, 3, 336-343.	11.5	135
16	Sustainable intensification of African agriculture: a necessity, but not yet a reality. Frontiers of Agricultural Science and Engineering, 2020, 7, 383.	0.9	4
17	Fields on fire: Alternatives to crop residue burning in India. Science, 2019, 365, 536-538.	6.0	121
18	Scaling â€“ from â€œreaching manyâ€•to sustainable systems change at scale: A critical shift in mindset. Agricultural Systems, 2019, 176, 102652.	3.2	66

#	Article	IF	Citations
19	Food security and agriculture in the Western Highlands of Guatemala. Food Security, 2019, 11, 817-833.	2.4	45
20	Tradeoffs between groundwater conservation and air pollution from agricultural fires in northwest India. Nature Sustainability, 2019, 2, 580-583.	11.5	41
21	Conservation agriculture based sustainable intensification: Increasing yields and water productivity for smallholders of the Eastern Gangetic Plains. Field Crops Research, 2019, 238, 1-17.	2.3	70
22	Application of Remote Sensing for Phenotyping Tar Spot Complex Resistance in Maize. Frontiers in Plant Science, 2019, 10, 552.	1.7	26
23	DOES SIZE MATTER? A CRITICAL REVIEW OF META-ANALYSIS IN AGRONOMY. Experimental Agriculture, 2019, 55, 200-229.	0.4	17
24	Sub-surface drip fertigation with conservation agriculture in a rice-wheat system: A breakthrough for addressing water and nitrogen use efficiency. Agricultural Water Management, 2019, 216, 273-283.	2.4	71
25	Complementary practices supporting conservation agriculture in southern Africa. A review. Agronomy for Sustainable Development, 2018, 38, 1.	2.2	83
26	Assessing sustainability in agricultural landscapes: a review of approaches^{1,2}. Environmental Reviews, 2018, 26, 299-315.	2.1	28
27	Multi-Temporal and Spectral Analysis of High-Resolution Hyperspectral Airborne Imagery for Precision Agriculture: Assessment of Wheat Grain Yield and Grain Protein Content. Remote Sensing, 2018, 10, 930.	1.8	41
28	Enhancing Smallholder Access to Agricultural Machinery Services: Lessons from Bangladesh. Journal of Development Studies, 2017, 53, 1502-1517.	1.2	48
29	Genetic mitigation strategies to tackle agricultural GHG emissions: The case for biological nitrification inhibition technology. Plant Science, 2017, 262, 165-168.	1.7	62
30	Potential for Scaling up Climate Smart Agricultural Practices: Examples from Sub-Saharan Africa. Climate Change Management, 2017, , 185-203.	0.6	12
31	Variation in vegetation cover and livestock mobility needs in Sahelian West Africa. Journal of Land Use Science, 2016, 11, 76-95.	1.0	10
32	Where to Target Conservation Agriculture for African Smallholders? How to Overcome Challenges Associated with its Implementation? Experience from Eastern and Southern Africa. Environments - MDPI, 2015, 2, 338-357.	1.5	48
33	Reply to 'No-till agriculture and climate change mitigation'. Nature Climate Change, 2015, 5, 489-489.	8.1	9
34	Identifying determinants, pressures and trade-offs of crop residue use in mixed smallholder farms in Sub-Saharan Africa and South Asia. Agricultural Systems, 2015, 134, 107-118.	3.2	71
35	Millet response to microdose fertilization in southâ€“western Niger: Effect of antecedent fertility management and environmental factors. Field Crops Research, 2015, 171, 165-175.	2.3	59
36	Tradeoffs around crop residue biomass in smallholder crop-livestock systems â€“ Whatâ€™s next?. Agricultural Systems, 2015, 134, 119-128.	3.2	44

#	Article	IF	Citations
37	Improving rural livelihoods as a â€œmoving targetâ€: trajectories of change in smallholder farming systems of Western Kenya. Regional Environmental Change, 2015, 15, 1395-1407.	1.4	44
38	Re-examining appropriate mechanization in Eastern and Southern Africa: two-wheel tractors, conservation agriculture, and private sector involvement. Food Security, 2015, 7, 889-904.	2.4	105
39	Response to Sommer et al. (2014) â€œFertilizer use is not required as a fourth principle to define Conservation Agricultureâ€: Field Crops Research, 2014, 169, 149.	2.3	2
40	Nutrient Management and Use Efficiency in Wheat Systems of South Asia. Advances in Agronomy, 2014, 125, 171-259.	2.4	48
41	A fourth principle is required to define Conservation Agriculture in sub-Saharan Africa: The appropriate use of fertilizer to enhance crop productivity. Field Crops Research, 2014, 155, 10-13.	2.3	265
42	Limited potential of no-till agriculture for climate change mitigation. Nature Climate Change, 2014, 4, 678-683.	8.1	594
43	Response to Sommer et al. (2014) Fertiliser use is not required as a fourth principle to define conservation agriculture. Field Crops Research, 2014, 167, 159.	2.3	5
44	Inter-connection between land use/land cover change and herdersâ€™/farmersâ€™ livestock feed resource management strategies: a case study from three Ethiopian eco-environments. Agriculture, Ecosystems and Environment, 2014, 188, 150-162.	2.5	48
45	Integrating crops and livestock in subtropical agricultural systems. Journal of the Science of Food and Agriculture, 2012, 92, 1010-1015.	1.7	63
46	Conservation Agriculture in mixed cropâ€“livestock systems: Scoping crop residue trade-offs in Sub-Saharan Africa and South Asia. Field Crops Research, 2012, 132, 175-184.	2.3	231
47	Spatial fieldsâ€™ dispersion as a farmer strategy to reduce agro-climatic risk at the household level in pearl millet-based systems in the Sahel: A modeling perspective. Agricultural and Forest Meteorology, 2011, 151, 215-227.	1.9	32
48	Targeting rural development interventions: Empirical agent-based modeling in Nigerien villages. Agricultural Systems, 2011, 104, 354-364.	3.2	21
49	Selection for Earlier Flowering Crop Associated with Climatic Variations in the Sahel. PLoS ONE, 2011, 6, e19563.	1.1	82
50	Spatio-temporal dynamics of genetic diversity in Sorghum bicolor in Niger. Theoretical and Applied Genetics, 2010, 120, 1301-1313.	1.8	33
51	Use of the APSIM model in long term simulation to support decision making regarding nitrogen management for pearl millet in the Sahel. European Journal of Agronomy, 2010, 32, 144-154.	1.9	60
52	Testing the impact of social forces on the evolution of Sahelian farming systems: A combined agent-based modeling and anthropological approach. Ecological Modelling, 2010, 221, 2714-2727.	1.2	17
53	Smart Investments in Sustainable Food Production: Revisiting Mixed Crop-Livestock Systems. Science, 2010, 327, 822-825.	6.0	633
54	Simulating Rural Environmentally and Socio-Economically Constrained Multi-Activity and Multi-Decision Societies in a Low-Data Context: A Challenge Through Empirical Agent-Based Modeling. Jasss, 2010, 13, .	1.0	20

#	Article	IF	Citations
55	Trends in productivity of crops, fallow and rangelands in Southwest Niger: Impact of land use, management and variable rainfall. Journal of Hydrology, 2009, 375, 65-77.	2.3	86
56	Changes in the diversity and geographic distribution of cultivated millet (Pennisetum glaucum (L.) R.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Resources and Crop Evolution, 2009, 56, 223-236.	0.8	70
57	Evaluation of application timing in fertilizer micro-dosing technology on millet production in Niger, West Africa. Nutrient Cycling in Agroecosystems, 2008, 80, 257-265.	1.1	52
58	Niger-wide assessment of in situ sorghum genetic diversity with microsatellite markers. Theoretical and Applied Genetics, 2008, 116, 903-913.	1.8	73
59	A Method to Determine the Appropriate Spatial Resolution Required for Monitoring Crop Growth in a given Agricultural Landscape. , 2008, , .		1
60	Modeling hydraulic properties of sandy soils of Niger using pedotransfer functions. Geoderma, 2007, 141, 407-415.	2.3	26
61	Supplementation with groundnut haulms for sheep fattening in the West African Sahel. Tropical Animal Health and Production, 2007, 39, 207-216.	0.5	18
62	Effect of planting technique and amendment type on pearl millet yield, nutrient uptake, and water use on degraded land in Niger. Nutrient Cycling in Agroecosystems, 2007, 76, 203-217.	1.1	58
63	Improving cereal productivity and farmersâ€™ income using a strategic application of fertilizers in West Africa. , 2007, , 201-208.		34
64	Diversity of wild and cultivated pearl millet accessions (Pennisetum glaucum [L.] R. Br.) in Niger assessed by microsatellite markers. Theoretical and Applied Genetics, 2006, 114, 49-58.	1.8	125
65	Title is missing!. Plant and Soil, 2001, 228, 265-273.	1.8	14
66	ESTIMATION OF SPATIAL VARIABILITY IN PEARL MILLET GROWTH WITH NON-DESTRUCTIVE METHODS. Experimental Agriculture, 2001, 37, 373-389.	0.4	9
67	Design and Testing of a Global Positioning Systemâ€Based Radiometer for Precision Mapping of Pearl Millet Total Dry Matter in the Sahel. Agronomy Journal, 2000, 92, 1086-1095.	0.9	6
68	Aerial photography to determine fertiliser effects on pearl millet and Guiera senegalensis growth. Plant and Soil, 1999, 210, 167-178.	1.8	16
69	The influence of vegetation pattern on the productivity, diversity and stability of vegetation: The case of`brousse tigrÃ©e' in the Sahel. Acta Oecologica, 1999, 20, 147-158.	0.5	58
70	Non-destructive measurement of plant growth and nitrogen status of pearl millet with low-altitude aerial photography. Soil Science and Plant Nutrition, 1997, 43, 993-998.	0.8	22
71	Non-destructive measurement of plant growth and nitrogen status of pearl millet with low-altitude aerial photography. , 1997, , 373-378.		0
72	Comparison between SAR and wind scatterometers data for surface parameters monitoring over a sahelian agropastoral area. , 0, , .		0

#	Article	IF	Citations
73	Reconstituting family transitions of Sahelian western Niger 1950-2000: an agent-based modelling approach in a low data context. CyberGeo, 0, , .	0.0	4