

# Yantai Gan

## List of Publications by Year in descending order

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93  
papers

5,038  
citations

81743

39  
h-index

98622

67  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4341  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diversifying crop rotations enhances agroecosystem services and resilience. <i>Advances in Agronomy</i> , 2022, , 299-335.	2.4	21
2	Root rot alters the root-associated microbiome of field pea in commercial crop production systems. <i>Plant and Soil</i> , 2021, 460, 593-607.	1.8	10
3	Integrated farming with intercropping increases food production while reducing environmental footprint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	83
4	Intensifying crop rotations with pulse crops enhances system productivity and soil organic carbon in semi-arid environments. <i>Field Crops Research</i> , 2020, 248, 107657.	2.3	53
5	Optimization of the Fermentation Media and Parameters for the Bio-control Potential of <i>Trichoderma longibrachiatum</i> T6 Against Nematodes. <i>Frontiers in Microbiology</i> , 2020, 11, 574601.	1.5	13
6	Expression of Nâ€cycling genes of root microbiomes provides insights for sustaining oilseed crop production. <i>Environmental Microbiology</i> , 2020, 22, 4545-4556.	1.8	11
7	Diversifying cropping systems enhances productivity, stability, and nitrogen use efficiency. <i>Agronomy Journal</i> , 2020, 112, 1517-1536.	0.9	36
8	Economics of pulse crop frequency and sequence in a wheatâ€based rotation. <i>Agronomy Journal</i> , 2020, 112, 2058-2080.	0.9	6
9	Slow-Release Fertilizer Improves the Growth, Quality, and Nutrient Utilization of Wintering Chinese Chives ( <i>Allium tuberosum</i> Rottler ex Spreng.). <i>Agronomy</i> , 2020, 10, 381.	1.3	24
10	Nitrogen Source Affects the Composition of Metabolites in Pepper ( <i>Capsicum annuum</i> L.) and Regulates the Synthesis of Capsaicinoids through the GOGATâ€GS Pathway. <i>Foods</i> , 2020, 9, 150.	1.9	15
11	Promoting pepper ( <i>Capsicum annuum</i> ) photosynthesis via chloroplast ultrastructure and enzyme activities by optimising the ammonium to nitrate ratio. <i>Functional Plant Biology</i> , 2020, 47, 303.	1.1	8
12	No-Till Farming Systems in the Canadian Prairies. , 2020, , 601-616.		2
13	Synchrony of nitrogen supply and crop demand are driven via high maize density in maize/pea strip intercropping. <i>Scientific Reports</i> , 2019, 9, 10954.	1.6	19
14	Seed Treatment with <i>Trichoderma longibrachiatum</i> T6 Promotes Wheat Seedling Growth under NaCl Stress Through Activating the Enzymatic and Nonenzymatic Antioxidant Defense Systems. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3729.	1.8	39
15	Influence of introduced arbuscular mycorrhizal fungi and phosphorus sources on plant traits, soil properties, and rhizosphere microbial communities in organic legume-flax rotation. <i>Plant and Soil</i> , 2019, 443, 87-106.	1.8	13
16	Appropriate Ammonium-Nitrate Ratio Improves Nutrient Accumulation and Fruit Quality in Pepper ( <i>Capsicum annuum</i> L.). <i>Agronomy</i> , 2019, 9, 683.	1.3	42
17	Improving salt tolerance in potato through overexpression of AtHKT1 gene. <i>BMC Plant Biology</i> , 2019, 19, 357.	1.6	36
18	Innovative passive heat-storage walls improve thermal performance and energy efficiency in Chinese solar greenhouses for non-arable lands. <i>Solar Energy</i> , 2019, 190, 561-575.	2.9	38

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19	Diversifying crop rotation improves system robustness. <i>Agronomy for Sustainable Development</i> , 2019, 39, 1.	2.2	52
20	Comparative analysis of oil and protein content and seed yield of five Brassicaceae oilseeds on the Canadian prairie. <i>Industrial Crops and Products</i> , 2019, 136, 77-86.	2.5	48
21	Improving the productivity and stability of oilseed cropping systems through crop diversification. <i>Field Crops Research</i> , 2019, 237, 65-73.	2.3	35
22	Soil 16S DNA sequence data and corresponding soil property and wheat yield data from a 72-plot field experiment involving pulses and wheat crops grown in rotations in the semiarid prairie. <i>Data in Brief</i> , 2019, 23, 103790.	0.5	1
23	Lentil enhances the productivity and stability of oilseed-cereal cropping systems across different environments. <i>European Journal of Agronomy</i> , 2019, 105, 24-31.	1.9	24
24	High frequency cropping of pulses modifies soil nitrogen level and the rhizosphere bacterial microbiome in 4-year rotation systems of the semiarid prairie. <i>Applied Soil Ecology</i> , 2018, 126, 47-56.	2.1	43
25	Identification of the antifungal activity of <i>Trichoderma longibrachiatum</i> T6 and assessment of bioactive substances in controlling phytopathogens. <i>Pesticide Biochemistry and Physiology</i> , 2018, 147, 59-66.	1.6	51
26	Genotypic variation in the response of chickpea to arbuscular mycorrhizal fungi and non-mycorrhizal fungal endophytes. <i>Canadian Journal of Microbiology</i> , 2018, 64, 265-275.	0.8	20
27	Nodulation and nitrogen accumulation in pulses vary with species, cultivars, growth stages, and environments. <i>Canadian Journal of Plant Science</i> , 2018, 98, 527-542.	0.3	7
28	AtHKT1 gene regulating K <sup>+</sup> state in whole plant improves salt tolerance in transgenic tobacco plants. <i>Scientific Reports</i> , 2018, 8, 16585.	1.6	18
29	Agronomic Responses of <i>Brassica carinata</i> to Herbicide, Seeding Rate, and Nitrogen on the Northern Great Plains. <i>Crop Science</i> , 2018, 58, 2633-2643.	0.8	18
30	Soil Plant Indices Help Explain Legume Response to Crop Rotation in a Semiarid Environment. <i>Frontiers in Plant Science</i> , 2018, 9, 1488.	1.7	20
31	Grazing exclusion—An effective approach for naturally restoring degraded grasslands in Northern China. <i>Land Degradation and Development</i> , 2018, 29, 4439-4456.	1.8	79
32	Agronomic Advancement in Tillage, Crop Rotation, Soil Health, and Genetic Gain in Durum Wheat Cultivation: A 17-Year Canadian Story. <i>Agronomy</i> , 2018, 8, 193.	1.3	8
33	Gobi agriculture: an innovative farming system that increases energy and water use efficiencies. A review. <i>Agronomy for Sustainable Development</i> , 2018, 38, 1.	2.2	23
34	Decoupling land productivity and greenhouse gas footprints: A review. <i>Land Degradation and Development</i> , 2018, 29, 4348-4361.	1.8	11
35	Intensified Pulse Rotations Buildup Pea Rhizosphere Pathogens in Cereal and Pulse Based Cropping Systems. <i>Frontiers in Microbiology</i> , 2018, 9, 1909.	1.5	31
36	Enhancing the systems productivity and water use efficiency through coordinated soil water sharing and compensation in strip-intercropping. <i>Scientific Reports</i> , 2018, 8, 10494.	1.6	34

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37	SOIL QUALITY INDICATORS AND CROP YIELD UNDER LONG-TERM TILLAGE SYSTEMS. <i>Experimental Agriculture</i> , 2017, 53, 497-511.	0.4	11
38	Increasing the frequency of pulses in crop rotations reduces soil fungal diversity and increases the proportion of fungal pathotrophs in a semiarid agroecosystem. <i>Agriculture, Ecosystems and Environment</i> , 2017, 240, 206-214.	2.5	76
39	Lentil enhances agroecosystem productivity with increased residual soil water and nitrogen. <i>Renewable Agriculture and Food Systems</i> , 2017, 32, 319-330.	0.8	15
40	Facility Cultivation Systems – A Chinese Model for the Planet. <i>Advances in Agronomy</i> , 2017, 145, 1-42.	2.4	42
41	Preceding Crops and Nitrogen Effects on Crop Energy Use Efficiency in Canola and Barley. <i>Agronomy Journal</i> , 2016, 108, 1079-1088.	0.9	4
42	Yield Stability and Seed Shattering Characteristics of <i>Brassica juncea</i> Canola in the Northern Great Plains. <i>Crop Science</i> , 2016, 56, 1296-1305.	0.8	12
43	Farming tactics to reduce the carbon footprint of crop cultivation in semiarid areas. A review. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	111
44	Residual effects of preceding crops and nitrogen fertilizer on yield and crop and soil N dynamics of spring wheat and canola in varying environments on the Canadian prairies. <i>Field Crops Research</i> , 2016, 192, 86-102.	2.3	60
45	Preceding crops and nitrogen fertilization influence soil nitrogen cycling in no-till canola and wheat cropping systems. <i>Field Crops Research</i> , 2016, 191, 20-32.	2.3	52
46	Edaphic properties override the influence of crops on the composition of the soil bacterial community in a semiarid agroecosystem. <i>Applied Soil Ecology</i> , 2016, 105, 160-168.	2.1	64
47	Boosting system productivity through the improved coordination of interspecific competition in maize/pea strip intercropping. <i>Field Crops Research</i> , 2016, 198, 50-60.	2.3	72
48	Phytochemicals induced in chickpea roots selectively and non-selectively stimulate and suppress fungal endophytes and pathogens. <i>Plant and Soil</i> , 2016, 409, 479-493.	1.8	18
49	Durum Wheat Productivity in Response to Soil Water and Soil Residual Nitrogen Associated with Previous Crop Management. <i>Agronomy Journal</i> , 2016, 108, 1468-1478.	0.9	9
50	Cropping practices impact fungal endophytes and pathogens in durum wheat roots. <i>Applied Soil Ecology</i> , 2016, 100, 104-111.	2.1	25
51	Regulated deficit irrigation for crop production under drought stress. A review. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	340
52	Diversifying crop rotations with pulses enhances system productivity. <i>Scientific Reports</i> , 2015, 5, 14625.	1.6	182
53	Legumes can reduce economic optimum nitrogen rates and increase yields in a wheat-canola cropping sequence in western Canada. <i>Field Crops Research</i> , 2015, 179, 12-25.	2.3	90
54	Incongruous variation of denitrifying bacterial communities as soil N level rises in Canadian canola fields. <i>Applied Soil Ecology</i> , 2015, 89, 93-101.	2.1	18

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55	Pyrosequencing reveals the impact of foliar fungicide application to chickpea on root fungal communities of durum wheat in subsequent year. <i>Fungal Ecology</i> , 2015, 15, 73-81.	0.7	20
56	Genotype-Specific Variation in the Structure of Root Fungal Communities Is Related to Chickpea Plant Productivity. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2368-2377.	1.4	39
57	Wheat and maize relay-planting with straw covering increases water use efficiency up to 46%. <i>Agronomy for Sustainable Development</i> , 2015, 35, 815-825.	2.2	62
58	Brassinosteroid alleviates chilling-induced oxidative stress in pepper by enhancing antioxidation systems and maintenance of photosystem II. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	45
59	Relating soil microbial properties to yields of no-till canola on the Canadian prairies. <i>European Journal of Agronomy</i> , 2015, 62, 110-119.	1.9	23
60	Economic Effects of Preceding Crops and Nitrogen Application on Canola and Subsequent Barley. <i>Agronomy Journal</i> , 2014, 106, 2055-2066.	0.9	28
61	Improving farming practices reduces the carbon footprint of spring wheat production. <i>Nature Communications</i> , 2014, 5, 5012.	5.8	215
62	Higher yield and lower carbon emission by intercropping maize with rape, pea, and wheat in arid irrigation areas. <i>Agronomy for Sustainable Development</i> , 2014, 34, 535-543.	2.2	124
63	Increased maize yield using slow-release attapulgite-coated fertilizers. <i>Agronomy for Sustainable Development</i> , 2014, 34, 657-665.	2.2	56
64	Efficacy of <i>Trichoderma longibrachiatum</i> in the control of <i>Heterodera avenae</i> . <i>BioControl</i> , 2014, 59, 319-331.	0.9	21
65	Film fully-mulched ridge-furrow cropping affects soil biochemical properties and maize nutrient uptake in a rainfed semi-arid environment. <i>Soil Science and Plant Nutrition</i> , 2014, 60, 486-498.	0.8	59
66	Up to 32% yield increase with optimized spatial patterns of canola plant establishment in western Canada. <i>Agronomy for Sustainable Development</i> , 2014, 34, 793-801.	2.2	18
67	Water-Saving Innovations in Chinese Agriculture. <i>Advances in Agronomy</i> , 2014, , 149-201.	2.4	120
68	Spatial and temporal structuring of arbuscular mycorrhizal communities is differentially influenced by abiotic factors and host crop in a semi-arid prairie agroecosystem. <i>FEMS Microbiology Ecology</i> , 2014, 88, 333-344.	1.3	127
69	Rotational Effects of Legumes and Non-Legumes on Hybrid Canola and Malting Barley. <i>Agronomy Journal</i> , 2014, 106, 1921-1932.	0.9	60
70	Pyrosequencing reveals how pulses influence rhizobacterial communities with feedback on wheat growth in the semiarid Prairie. <i>Plant and Soil</i> , 2013, 367, 493-505.	1.8	46
71	Ridge-Furrow Mulching Systems—An Innovative Technique for Boosting Crop Productivity in Semiarid Rain-Fed Environments. <i>Advances in Agronomy</i> , 2013, , 429-476.	2.4	453
72	Chickpea genotypes shape the soil microbiome and affect the establishment of the subsequent durum wheat crop in the semiarid North American Great Plains. <i>Soil Biology and Biochemistry</i> , 2013, 63, 129-141.	4.2	58

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73	Field-scale spatial distribution characteristics of soil nutrients in a newly reclaimed sandy cropland in the Hexi Corridor of Northwest China. <i>Environmental Earth Sciences</i> , 2013, 70, 2987-2996.	1.3	9
74	Bacterial endophytes mediate positive feedback effects of early legume termination times on the yield of subsequent durum wheat crops. <i>Canadian Journal of Microbiology</i> , 2012, 58, 1368-1377.	0.8	22
75	Tag-encoded pyrosequencing analysis of the effects of fungicide application and plant genotype on rhizobacterial communities. <i>Applied Soil Ecology</i> , 2012, 60, 92-97.	2.1	24
76	Carbon footprint of spring wheat in response to fallow frequency and soil carbon changes over 25 years on the semiarid Canadian prairie. <i>European Journal of Agronomy</i> , 2012, 43, 175-184.	1.9	98
77	Phytochemicals and spore germination: At the root of AMF host preference?. <i>Applied Soil Ecology</i> , 2012, 60, 98-104.	2.1	38
78	Water use profiles across the rooting zones of various pulse crops. <i>Field Crops Research</i> , 2012, 134, 130-137.	2.3	33
79	Phytochemicals to suppress <i>Fusarium</i> head blight in wheat-chickpea rotation. <i>Phytochemistry</i> , 2012, 78, 72-80.	1.4	54
80	Carbon footprint of canola and mustard is a function of the rate of N fertilizer. <i>International Journal of Life Cycle Assessment</i> , 2012, 17, 58-68.	2.2	50
81	Innovations in agronomy for food legumes. A review. <i>Agronomy for Sustainable Development</i> , 2012, 32, 45-64.	2.2	158
82	Alternative oilseed crops for biodiesel feedstock on the Canadian prairies. <i>Canadian Journal of Plant Science</i> , 2011, 91, 889-896.	0.3	117
83	Lowering carbon footprint of durum wheat by diversifying cropping systems. <i>Field Crops Research</i> , 2011, 122, 199-206.	2.3	174
84	Rooting systems of oilseed and pulse crops I: Temporal growth patterns across the plant developmental periods. <i>Field Crops Research</i> , 2011, 122, 256-263.	2.3	59
85	Rooting systems of oilseed and pulse crops. II: Vertical distribution patterns across the soil profile. <i>Field Crops Research</i> , 2011, 122, 248-255.	2.3	69
86	Strategies for reducing the carbon footprint of field crops for semiarid areas. A review. <i>Agronomy for Sustainable Development</i> , 2011, 31, 643-656.	2.2	147
87	First report of <i>Fusarium redolens</i> from Saskatchewan and its comparative pathogenicity. <i>Canadian Journal of Plant Pathology</i> , 2011, 33, 559-564.	0.8	48
88	Nitrogen accumulation in plant tissues and roots and N mineralization under oilseeds, pulses, and spring wheat. <i>Plant and Soil</i> , 2010, 332, 451-461.	1.8	50
89	Fine Root Distributions in Oilseed and Pulse Crops. <i>Crop Science</i> , 2010, 50, 222-226.	0.8	58
90	Glyphosate-resistant spring wheat production system effects on weed communities. <i>Weed Science</i> , 2005, 53, 451-464.	0.8	28

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91	Glyphosate-resistant wheat persistence in western Canadian cropping systems. <i>Weed Science</i> , 2005, 53, 846-859.	0.8	23
92	Performance of Rhizobial Inoculant Formulations in the Field. <i>Crop Management</i> , 2004, 3, 1-6.	0.3	5
93	Evaluation of Selected Nonlinear Regression Models in Quantifying Seedling Emergence Rate of Spring Wheat. <i>Crop Science</i> , 1996, 36, 165-168.	0.8	31