Richard Bell

List of Publications by Year
in descending order

119 papers	1,915 citations	218662 26 h-index	345203 36 g-index
128 all docs	128 docs citations	128 times ranked	1716 citing authors

#	Article	IF	Citations
1	Diagnosis and prediction of boron deficiency for plant production. Plant and Soil, 1997, 193, 149-168.	3.7	84
2	Boron Nutrition and Chilling Tolerance of Warm Climate Crop Species. Annals of Botany, 2005, 96, 755-767.	2.9	78
3	Minimum tillage unpuddled transplanting: An alternative crop establishment strategy for rice in conservation agriculture cropping systems. Field Crops Research, 2016, 185, 31-39.	5.1	65
4	Boron: an essential element for vascular plants. New Phytologist, 2020, 226, 1232-1237.	7.3	62
5	Boron nutrition of rice in different production systems. A review. Agronomy for Sustainable Development, 2018, 38, 1.	5.3	61
6	The importance of sampling immature leaves for the diagnosis of boron deficiency in oilseed rape (Brassica napus cv. Eureka). Plant and Soil, 1996, 183, 187-198.	3.7	58
7	Increases in soil sequestered carbon under conservation agriculture cropping decrease the estimated greenhouse gas emissions of wetland rice using life cycle assessment. Journal of Cleaner Production, 2019, 224, 72-87.	9.3	51
8	Conservation Agriculture for Rice-Based Intensive Cropping by Smallholders in the Eastern Gangetic Plain. Agriculture (Switzerland), 2019, 9, 5.	3.1	49
9	Versatile Strip Seed Drill: A 2-Wheel Tractor-Based Option for Smallholders to Implement Conservation Agriculture in Asia and Africa. Environments - MDPI, 2016, 3, 1.	3.3	44
10	Soil phosphorusâ€“crop response calibration relationships and criteria for winter cereal crops grown in Australia. Crop and Pasture Science, 2013, 64, 480.	1.5	43
11	Greenhouse gas implications of novel and conventional rice production technologies in the Eastern-Gangetic plains. Journal of Cleaner Production, 2016, 112, 3977-3987.	9.3	43
12	Enhanced boron transport into the ear of wheat as a mechanism for boron efficiency. Plant and Soil, 2004, 264, 141-147.	3.7	41
13	Response of soil microbial activity to temperature, moisture, and litter leaching on a wetland transect during seasonal refilling. Wetlands Ecology and Management, 2005, 13, 43-54.	1.5	40
14	Differential response of oilseed rape (Brassica napus L.) cultivars to low boron supply. Plant and Soil, 1998, 204, 155-163.	3.7	39
15	Decreasing the carbon footprint of an intensive rice-based cropping system using conservation agriculture on the Eastern Gangetic Plains. Journal of Cleaner Production, 2019, 218, 259-272.	9.3	38
16	Title is missing!. Plant and Soil, 2000, 225, 243-251.	3.7	36
17	Evidence of phloem boron transport in response to interrupted boron supply in white lupin (Lupinus albus L. cv. Kiev Mutant) at the reproductive stage. Journal of Experimental Botany, 2008, 59, 575-583.	4.8	33
18	Soil nitrogen storage and availability to crops are increased by conservation agriculture practices in riceâ€“based cropping systems in the Eastern Gangetic Plains. Field Crops Research, 2020, 250, 107764.	5.1	33

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19	Induced anti-oxidant activity in soybean alleviates oxidative stress under moderate boron toxicity. Plant Growth Regulation, 2013, 70, 217-226.	3.4	32
20	Response tobradyrhizobiumstrain of peanut cultivars grown under iron stress. Journal of Plant Nutrition, 1988, 11, 843-852.	1.9	31
21	Ratios of C, N and P in soil water direct microbial immobilisationâ€“mineralisation and N availability in nutrient amended sandy soils in southwestern Australia. Agriculture, Ecosystems and Environment, 2008, 127, 93-99.	5.3	31
22	Integrated Weed and Nutrient Management Improve Yield, Nutrient Uptake and Economics of Maize in the Rice-Maize Cropping System of Eastern India. Agronomy, 2020, 10, 1906.	3.0	31
23	Rice (Oryza sativa L.) Establishment Techniques and Their Implications for Soil Properties, Global Warming Potential Mitigation and Crop Yields. Agronomy, 2020, 10, 888.	3.0	31
24	Biochar and Compost Increase Crop Yields but the Effect is Short Term on Sandplain Soils of Western Australia. Pedosphere, 2015, 25, 720-728.	4.0	30
25	Wheat responses to sodium vary with potassium use efficiency of cultivars. Frontiers in Plant Science, 2014, 5, 631.	3.6	29
26	Variation in the yield of sunflower (Helianthus annuus L.) due to differing tillage systems is associated with variation in solute potential of the soil solution in a salt-affected coastal region of the Ganges Delta. Soil and Tillage Research, 2020, 197, 104489.	5.6	29
27	Straw mulch and irrigation affect solute potential and sunflower yield in a heavy textured soil in the Ganges Delta. Agricultural Water Management, 2020, 239, 106211.	5.6	29
28	Boron supply into wheat (Triticum aestivum L. cv. Wilgoyne) ears whilst still enclosed within leaf sheaths. Journal of Experimental Botany, 2001, 52, 1731-1738.	4.8	27
29	Bauxite residue fines as an amendment to residue sands to enhance plant growth potentialâ€”a glasshouse study. Journal of Soils and Sediments, 2011, 11, 889-902.	3.0	25
30	The dynamics of potassium uptake and use, leaf gas exchange and root growth throughout plant phenological development and its effects on seed yield in wheat (Triticum aestivum) on a low-K sandy soil. Plant and Soil, 2013, 373, 373-384.	3.7	25
31	Banding of Fertilizer Improves Phosphorus Acquisition and Yield of Zero Tillage Maize by Concentrating Phosphorus in Surface Soil. Sustainability, 2018, 10, 3234.	3.2	25
32	Responses of barley to hypoxia and salinity during seed germination, nutrient uptake, and early plant growth in solution culture. Journal of Plant Nutrition and Soil Science, 2012, 175, 630-640.	1.9	22
33	Plant distribution and its relationship to extractable boron in naturally-occurring high boron soils in Turkey. Israel Journal of Plant Sciences, 2004, 52, 125-132.	0.5	18
34	Micronutrient fractionation and plant availability in bauxite-processing residue sand. Soil Research, 2009, 47, 518.	1.1	18
35	Yield Response, Nutritional Quality and Water Productivity of Tomato (Solanum lycopersicum L.) are Influenced by Drip Irrigation and Straw Mulch in the Coastal Saline Ecosystem of Ganges Delta, India. Sustainability, 2020, 12, 6779.	3.2	18
36	Impact of Rice Straw Mulch on Soil Physical Properties, Sunflower Root Distribution and Yield in a Salt-Affected Clay-Textured Soil. Agriculture (Switzerland), 2021, 11, 264.	3.1	18

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37	Subsoil rhizosphere modification by chickpea under a dry topsoil: implications for phosphorus acquisition. Journal of Plant Nutrition and Soil Science, 2015, 178, 904-913.	1.9	17
38	Soil Management Systems to Overcome Multiple Constraints for Dryland Crops on Deep Sands in a Water Limited Environment on the South Coast of Western Australia. Agronomy, 2020, 10, 1881.	3.0	17
39	Forage options to sustainably intensify smallholder farming systems on tropical sandy soils. A review. Agronomy for Sustainable Development, 2019, 39, 1.	5.3	16
40	Phosphorus forms in soil solution and leachate of contrasting soil profiles and their implications for P mobility. Journal of Soils and Sediments, 2015, 15, 854-862.	3.0	15
41	Simulating wheat growth response to potassium availability under field conditions in sandy soils. II. Effect of subsurface potassium on grain yield response to potassium fertiliser. Field Crops Research, 2015, 178, 125-134.	5.1	15
42	Incorporating Geological Effects in Modeling of Revegetation Strategies for Salt-Affected Landscapes. Environmental Management, 1999, 24, 99-109.	2.7	14
43	Applicability of passive compost bioreactors for treatment of extremely acidic and saline waters in semi-arid climates. Water Research, 2014, 55, 83-94.	11.3	14
44	Overstorey and juvenile response to thinning and drought in a jarrah (Eucalyptus marginata Donn ex) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.7	13
45	Potassium application alleviates grain sterility and increases yield of wheat (Triticum aestivum) in frost-prone Mediterranean-type climate. Plant and Soil, 2019, 434, 203-216.	3.7	13
46	Field-Deployed Extruded Seed Pellets Show Promise for Perennial Grass Establishment in Arid Zone Mine Rehabilitation. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	13
47	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.	5.3	13
48	Moderate sodium has positive effects on shoots but not roots of salt-tolerant barley grown in a potassium-deficient sandy soil. Crop and Pasture Science, 2011, 62, 972.	1.5	12
49	Importance of whole plant dry matter dynamics for potato (Solanum tuberosum L.) tuber yield response to an episode of high temperature. Environmental and Experimental Botany, 2019, 162, 560-571.	4.2	12
50	Low root zone temperature favours shoot B partitioning into young leaves of oilseed rape (Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.2	11
51	Simulating wheat growth response to potassium availability under field conditions with sandy soils. I. Model development. Field Crops Research, 2015, 178, 109-124.	5.1	11
52	Strip Tillage and Crop Residue Retention Decrease the Size but Increase the Diversity of the Weed Seed Bank under Intensive Rice-Based Crop Rotations in Bangladesh. Agronomy, 2021, 11, 1164.	3.0	11
53	Nursery Fertilizer Application Increases Rice Growth and Yield in Rainfed Lowlands with or without Post-Transplanting Crop Stress. American Journal of Plant Sciences, 2015, 06, 2878-2892.	0.8	11
54	Title is missing!. Plant and Soil, 1999, 208, 233-241.	3.7	10

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55	Establishment of Crops under Minimal Soil Disturbance and Crop Residue Retention in Rice-Based Cropping System: Yield Advantage, Soil Health Improvement, and Economic Benefit. Land, 2021, 10, 581.	2.9	10
56	Wheat grain-yield response to lime application: relationships with soil pH and aluminium in Western Australia. Crop and Pasture Science, 2019, 70, 295.	1.5	10
57	Micronutrients limiting pasture production in Australia. Crop and Pasture Science, 2019, 70, 1053.	1.5	10
58	Oxidative stress responses in watermelon (Citrullus lanatus) as influenced by boron toxicity and drought. Zemdirbyste, 2015, 102, 209-216.	0.8	10
59	EFFICACY OF HERBICIDES IN NON-PUDDLED TRANSPLANTED RICE UNDER CONSERVATION AGRICULTURE SYSTEMS AND THEIR EFFECT ON ESTABLISHMENT OF THE SUCCEEDING CROPS. Acta Scientifica Malaysia, 2018, 2, 17-25.	0.1	10
60	Short-Term Waterlogging Depresses Early Growth of Sunflower (Helianthus annuus L.) on Saline Soils with a Shallow Water Table in the Coastal Zone of Bangladesh. Soil Systems, 2021, 5, 68.	2.6	10
61	Shallow surface and subsurface drains alleviate waterlogging and salinity in a clay-textured soil and improve the yield of sunflower in the Ganges Delta. Agronomy for Sustainable Development, 2022, 42, 1.	5.3	10
62	Applications in sustainable production. Communications in Soil Science and Plant Analysis, 2000, 31, 2233-2249.	1.4	9
63	Applications in sustainable production. Communications in Soil Science and Plant Analysis, 2000, 31, 2379-2392.	1.4	9
64	Phosphorus dynamics from vegetated catchment to lakebed during seasonal refilling. Wetlands, 2004, 24, 828-836.	1.5	9
65	Evaluation of anaerobic digestate as a substrate for vermicomposting. International Journal of Environment and Waste Management, 2014, 14, 149.	0.3	9
66	Insufficient potassium and sulfur supply threaten the productivity of perennial forage grasses in smallholder farms on tropical sandy soils. Plant and Soil, 2021, 461, 617-630.	3.7	9
67	Water supply influences boron uptake by transplanted oilseed rape (Brassica napus cv. Eureka) grown in low boron soil. , 1997, , 157-160.		9
68	Conservation agriculture practice influences soil organic carbon pools in intensive riceâ€based systems of the Eastern Indoâ€Gangetic Plain. Soil Use and Management, 2022, 38, 1217-1236.	4.9	9
69	Leaf-litter application to a sandy soil modifies phosphorus leaching over the wet season of southwestern Australia. Hydrobiologia, 2005, 545, 33-44.	2.0	8
70	Partially mechanized non-puddled rice establishment: on-farm performance and farmersâ€™ perceptions. Plant Production Science, 2019, 22, 23-45.	2.0	8
71	Rethinking soil water repellency and its management. Plant Ecology, 2019, 220, 977-984.	1.6	8
72	Variation of Cicer Germplasm to Manganese Toxicity Tolerance. Frontiers in Plant Science, 2020, 11, 588065.	3.6	8

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73	Root pruning and transplanting increase zinc requirements of canola (Brassica napus). Plant and Soil, 2009, 314, 11-24.	3.7	7
74	Zinc forms in compost and red mud-amended bauxite residue sand. Journal of Soils and Sediments, 2011, 11, 101-114.	3.0	7
75	Leaf Litter Decomposition and Nutrient Dynamics in Woodland and Wetland Conditions along a Forest to Wetland Hillslope. ISRN Soil Science, 2012, 2012, 1-8.	0.8	7
76	Growth and yield responses in wheat and barley to potassium supply under drought or moderately saline conditions in the south-west of Western Australia. Crop and Pasture Science, 2015, 66, 135.	1.5	7
77	Photosynthetic and respiratory response of potato leaves of different ages during and after an episode of high temperature. Journal of Agronomy and Crop Science, 2020, 206, 352-362.	3.5	7
78	AMENDING BAUXITE RESIDUE SANDS WITH RESIDUE FINES TO ENHANCE GROWTH POTENTIAL. Journal of the American Society of Mining and Reclamation, 2007, 2007, 1-15.	0.3	7
79	Canola, narrow-leafed lupin and wheat differ in growth response to lowâ€“moderate sodium on a potassium-deficient sandy soil. Crop and Pasture Science, 2016, 67, 1168.	1.5	6
80	Novel Sources of Tolerance to Aluminium Toxicity in Wild Cicer (Cicer reticulatum and Cicer) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	3.6	6
81	Risks of Boron Toxicity in Canola and Lupin by Forms of Boron Application in Acid Sands of South-Western Australia. Journal of Plant Nutrition, 2015, 38, 920-937.	1.9	5
82	Extremely high boron tolerance in Puccinellia distans (Jacq.) Parl. related to root boron exclusion and a well-regulated antioxidant system. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2016, 71, 273-285.	1.4	5
83	Partial potassium balance under irrigated peanut crops on sands in a tropical monsoonal climate. Nutrient Cycling in Agroecosystems, 2019, 114, 71-83.	2.2	5
84	Sulfur management strategies to improve partial sulfur balance with irrigated peanut production on deep sands. Archives of Agronomy and Soil Science, 2021, 67, 1465-1478.	2.6	5
85	Carbon and Nitrogen Mineralization in Dark Grey Calcareous Floodplain Soil Is Influenced by Tillage Practices and Residue Retention. Plants, 2021, 10, 1650.	3.5	5
86	Data presentation, interpretation, and communication. Communications in Soil Science and Plant Analysis, 2000, 31, 2111-2123.	1.4	4
87	Partitioning processes controlling water column phosphorus concentrations in a shallow wetland. Freshwater Biology, 2004, 49, 563-575.	2.4	4
88	Measuring microbial uptake of nitrogen in nutrient-amended sandy soilsâ€”A mass-balance based approach. Soil Biology and Biochemistry, 2007, 39, 581-589.	8.8	4
89	Role of soil covers in establishment of vegetation on gold oxide refining residues. Ecological Engineering, 2015, 75, 392-403.	3.6	4
90	Genotypic variation among chickpea and wild Cicer spp. in nutrient uptake with increasing concentration of solution Al at low pH. Plant Physiology and Biochemistry, 2020, 157, 390-401.	5.8	4

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91	High Light Intensity Increases External Boron (B) Requirements for Leaf Growth of Sunflower (Helianthus annuus L. cv. Hysun 25) in B-buffered Solution Culture. , 2002, , 213-225.		4
92	Long-term rundown of plant-available potassium in Western Australia requires a re-evaluation of potassium management for grain production: a review. Crop and Pasture Science, 2022, 73, 981-996.	1.5	4
93	Optimum Soil Water Content for Chickpea Emergence in Heavyâ€Textured Soils of Northâ€West Bangladesh. Journal of Agronomy and Crop Science, 2015, 201, 195-205.	3.5	3
94	Factors influencing the soil-test calibration for Colwell P and wheat under winter-dominant rainfall. Crop and Pasture Science, 2020, 71, 113.	1.5	3
95	Performance of pyrazosulfuron-ethyl in non-puddled transplanted rainy season rice and its residual effect on growth of the succeeding crop in rice-wheat cropping pattern. International Journal of Pest Management, 2020, 66, 122-130.	1.8	2
96	Increasing frequency of high-temperature episodes in potato growing regions of Western Australia and its impacts on plant and tuber growth. Archives of Agronomy and Soil Science, 2022, 68, 1988-2004.	2.6	2
97	Estimating production of gilvin from catchment leaf litter during seasonal rains. Marine and Freshwater Research, 2005, 56, 843.	1.3	2
98	Growth and yield responses of sunflower to drainage in waterlogged saline soil are caused by changes in plant-water relations and ion concentrations in leaves. Plant and Soil, 2022, 479, 679-697.	3.7	2
99	Managing Sands of the Lower Mekong Basin to Limit Land Degradation: A Review of Properties and Limitations for Crop and Forage Production. Soil Systems, 2022, 6, 58.	2.6	2
100	Physiology and Metabalism of Boron in Plants. , 2007, , 31-46.		1
101	Differential growth and yield by canola (Brassica napus L.) and wheat (Triticum aestivum) Tj ETQq1 1 0.784314 rgBT /Ov of the Science of Food and Agriculture, 2013, 93, 995-1002.	3.5	1
102	Effect of Straw Mulch and Irrigation on Sunflower and Maize Cultivation in No Tillage Systems of Coastal Heavy Soils. Proceedings (mdpi), 2019, 36, 145.	0.2	1
103	Cropping System Intensification for Increasing Crop Productivity in Salt-Affected Coastal Zones of Bangladesh. Proceedings (mdpi), 2020, 36, .	0.2	1
104	Sodium (Na) Stimulates Barley Growth in Potassium (K)-Deficient Soils by Improved K Uptake at Low Na Supply or by Substitution of K at Moderate Na Supply. Journal of Soil Science and Plant Nutrition, 2021, 21, 1520-1530.	3.4	1
105	Continuous Practice of Conservation Agriculture for 3â€“5 Years in Intensive Rice-Based Cropping Patterns Reduces Soil Weed Seedbank. Agriculture (Switzerland), 2021, 11, 895.	3.1	1
106	Factors Affecting Conservation Agriculture Technologies at Farm Level in Bangladesh. Research on World Agricultural Economy, 2020, 1, 50.	1.3	1
107	Rescheduling of Wet Season (T. Aman) Rice Planting for Cropping Intensification in Coastal Bangladesh. Proceedings (mdpi), 2020, 36, .	0.2	1
108	On-Farm Evaluation of Conservation Agriculture Practice on Weed Control and Yield of Wheat in Northern Bangladesh. Current Research in Agricultural Sciences, 2020, 7, 84-99.	0.4	1

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109	Availability and utilisation pattern of agricultural waste at household level in selected areas of Bangladesh. Waste Management and Research, 2021, , 0734242X2110644.	3.9	1
110	Effects of Fresh and Saline Water Irrigation for Maize in Coastal Areas of Bangladesh. Proceedings (mdpi), 2020, 36, .	0.2	0
111	Yield Response of Sunflower to Sowing Dates and NPK Rates under Zero Tillage in Wet Soil of Southwestern Coastal Bangladesh. Proceedings (mdpi), 2020, 36, .	0.2	0
112	Soil disturbance levels, soil water content and the establishment of rainfed chickpea: Mechanised seeding options for smallholder farms in northâ€west Bangladesh. Journal of Agronomy and Crop Science, 2021, 207, 208-223.	3.5	0
113	Influence of non-puddled transplanting and residues of previous mustard on rice (Oryza sativa L.). International Journal of Agricultural Sciences and Technology, 2021, 1, 8-14.	0.0	0
114	Prognosis of Boron Deficiency in Oilseed Rape (Brassica napus) by Soil Analysis. , 2002, , 311-317.		0
115	Reply to â€˜Comments on papers relating to soil phosphorus testing in â€˜Making better fertiliser decisions for cropping systems in Australiaâ€™ by I.C.R. Holford. Crop and Pasture Science, 2015, 66, 110.	1.5	0
116	Response of Strip-Planted Wheat Varieties to Pendimethalin. Fundamental and Applied Agriculture, 2019, , 1.	0.1	0
117	Assessing the Trends of Soil Weed Seed Bank in Conservation Agriculture Systems. Fundamental and Applied Agriculture, 2020, , 1.	0.1	0
118	Land Use, Productivity, and Profitability of Traditional Riceâ€“Wheat System Could be Improved by Conservation Agriculture. Research on World Agricultural Economy, 2022, 3, 48.	1.3	0
119	Improving Irrigation, Potassium and Sulphur Use Efficiency of Peanut (Arachis hypogaea) in Tropical Sandy Soils. International Journal of Plant Production, 0, , .	2.2	0