

Richard Bell

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106
papers

1,264
citations

22
h-index

29
g-index

128
ext. papers

1,570
ext. citations

3.6
avg, IF

4.89
L-index

#	Paper	IF	Citations
106	Diagnosis and prediction of boron deficiency for plant production. <i>Plant and Soil</i> , 1997 , 193, 149-168	4.2	70
105	Boron nutrition and chilling tolerance of warm climate crop species. <i>Annals of Botany</i> , 2005 , 96, 755-67	4.1	59
104	Boron nutrition of rice in different production systems. A review. <i>Agronomy for Sustainable Development</i> , 2018 , 38, 1	6.8	44
103	The importance of sampling immature leaves for the diagnosis of boron deficiency in oilseed rape (<i>Brassica napus</i> cv. Eureka). <i>Plant and Soil</i> , 1996 , 183, 187-198	4.2	42
102	Boron: an essential element for vascular plants: A comment on Lewis (2019) 'Boron: the essential element for vascular plants that never was'. <i>New Phytologist</i> , 2020 , 226, 1232-1237	9.8	38
101	Minimum tillage unpuddled transplanting: An alternative crop establishment strategy for rice in conservation agriculture cropping systems. <i>Field Crops Research</i> , 2016 , 185, 31-39	5.5	37
100	Versatile Strip Seed Drill: A 2-Wheel Tractor-Based Option for Smallholders to Implement Conservation Agriculture in Asia and Africa. <i>Environments - MDPI</i> , 2016 , 3, 1	3.2	37
99	Soil phosphorus–crop response calibration relationships and criteria for winter cereal crops grown in Australia. <i>Crop and Pasture Science</i> , 2013 , 64, 480	2.2	33
98	Enhanced boron transport into the ear of wheat as a mechanism for boron efficiency. <i>Plant and Soil</i> , 2004 , 264, 141-147	4.2	31
97	Response of soil microbial activity to temperature, moisture, and litter leaching on a wetland transect during seasonal refilling. <i>Wetlands Ecology and Management</i> , 2005 , 13, 43-54	2.1	30
96	Boron efficiency in oilseed rape: I. Genotypic variation demonstrated in field and pot grown <i>Brassica napus</i> L. and <i>Brassica juncea</i> L.. <i>Plant and Soil</i> , 2000 , 225, 243-251	4.2	30
95	Response to bradyrhizobium strain of peanut cultivars grown under iron stress. <i>Journal of Plant Nutrition</i> , 1988 , 11, 843-852	2.3	30
94	Induced anti-oxidant activity in soybean alleviates oxidative stress under moderate boron toxicity. <i>Plant Growth Regulation</i> , 2013 , 70, 217-226	3.2	29
93	Evidence of phloem boron transport in response to interrupted boron supply in white lupin (<i>Lupinus albus</i> L. cv. Kiev Mutant) at the reproductive stage. <i>Journal of Experimental Botany</i> , 2008 , 59, 575-83	7	28
92	Greenhouse gas implications of novel and conventional rice production technologies in the Eastern-Gangetic plains. <i>Journal of Cleaner Production</i> , 2016 , 112, 3977-3987	10.3	27
91	Boron supply into wheat (<i>Triticum aestivum</i> L. cv. Wilgoyne) ears whilst still enclosed within leaf sheaths. <i>Journal of Experimental Botany</i> , 2001 , 52, 1731-1738	7	27
90	Conservation Agriculture for Rice-Based Intensive Cropping by Smallholders in the Eastern Gangetic Plain. <i>Agriculture (Switzerland)</i> , 2019 , 9, 5	3	25

89	Biochar and Compost Increase Crop Yields but the Effect is Short Term on Sandplain Soils of Western Australia. <i>Pedosphere</i> , 2015 , 25, 720-728	5	24
88	Bauxite residue fines as an amendment to residue sands to enhance plant growth potential in glasshouse study. <i>Journal of Soils and Sediments</i> , 2011 , 11, 889-902	3.4	23
87	Differential response of oilseed rape (<i>Brassica napus</i> L.) cultivars to low boron supply. <i>Plant and Soil</i> , 1998 , 204, 155-163	4.2	23
86	Decreasing the carbon footprint of an intensive rice-based cropping system using conservation agriculture on the Eastern Gangetic Plains. <i>Journal of Cleaner Production</i> , 2019 , 218, 259-272	10.3	22
85	Ratios of C, N and P in soil water direct microbial immobilisation, mineralisation and N availability in nutrient amended sandy soils in southwestern Australia. <i>Agriculture, Ecosystems and Environment</i> , 2008 , 127, 93-99	5.7	22
84	Increases in soil sequestered carbon under conservation agriculture cropping decrease the estimated greenhouse gas emissions of wetland rice using life cycle assessment. <i>Journal of Cleaner Production</i> , 2019 , 224, 72-87	10.3	21
83	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 (<i>Triticum aestivum</i>) on a low-K sandy soil. <i>Plant and Soil</i> , 2013 , 373, 373-384	4.2	21
82	Responses of barley to hypoxia and salinity during seed germination, nutrient uptake, and early plant growth in solution culture. <i>Journal of Plant Nutrition and Soil Science</i> , 2012 , 175, 630-640	2.3	18
81	Micronutrient fractionation and plant availability in bauxite-processing residue sand. <i>Soil Research</i> , 2009 , 47, 518	1.8	18
80	Variation in the yield of sunflower (<i>Helianthus annuus</i> 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. <i>Soil and Tillage Research</i> , 2020 , 197, 104489	6.5	17
79	Plant distribution and its relationship to extractable boron in naturally-occurring high boron soils in Turkey. <i>Israel Journal of Plant Sciences</i> , 2004 , 52, 125-132	0.6	16
78	Banding of Fertilizer Improves Phosphorus Acquisition and Yield of Zero Tillage Maize by Concentrating Phosphorus in Surface Soil. <i>Sustainability</i> , 2018 , 10, 3234	3.6	16
77	Rice (<i>Oryza sativa</i> L.) Establishment Techniques and Their Implications for Soil Properties, Global Warming Potential Mitigation and Crop Yields. <i>Agronomy</i> , 2020 , 10, 888	3.6	15
76	Wheat responses to sodium vary with potassium use efficiency of cultivars. <i>Frontiers in Plant Science</i> , 2014 , 5, 631	6.2	15
75	Straw mulch and irrigation affect solute potential and sunflower yield in a heavy textured soil in the Ganges Delta. <i>Agricultural Water Management</i> , 2020 , 239, 106211	5.9	14
74	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. <i>Field Crops Research</i> , 2015 , 178, 125-134	5.5	12
73	Soil nitrogen storage and availability to crops are increased by conservation agriculture practices in rice-based cropping systems in the Eastern Gangetic Plains. <i>Field Crops Research</i> , 2020 , 250, 107764	5.5	12
72	Subsoil rhizosphere modification by chickpea under a dry topsoil: implications for phosphorus acquisition. <i>Journal of Plant Nutrition and Soil Science</i> , 2015 , 178, 904-913	2.3	12

71	Forage options to sustainably intensify smallholder farming systems on tropical sandy soils. A review. <i>Agronomy for Sustainable Development</i> , 2019 , 39, 1	6.8	11
70	Overstorey and juvenile response to thinning and drought in a jarrah (<i>Eucalyptus marginata</i> Donn ex Sm.) forest of southwestern Australia. <i>Plant and Soil</i> , 2013 , 365, 291-305	4.2	11
69	Moderate sodium has positive effects on shoots but not roots of salt-tolerant barley grown in a potassium-deficient sandy soil. <i>Crop and Pasture Science</i> , 2011 , 62, 972	2.2	11
68	Low root zone temperature favours shoot B partitioning into young leaves of oilseed rape (<i>Brassica napus</i>). <i>Physiologia Plantarum</i> , 2003 , 118, 213-220	4.6	10
67	Incorporating Geological Effects in Modeling of Revegetation Strategies for Salt-Affected Landscapes. <i>Environmental Management</i> , 1999 , 24, 99-109	3.1	10
66	Oxidative stress responses in watermelon (<i>Citrullus lanatus</i>) as influenced by boron toxicity and drought. <i>Zemdirbyste</i> , 2015 , 102, 209-216	1.1	10
65	Phosphorus forms in soil solution and leachate of contrasting soil profiles and their implications for P mobility. <i>Journal of Soils and Sediments</i> , 2015 , 15, 854-862	3.4	9
64	Applicability of passive compost bioreactors for treatment of extremely acidic and saline waters in semi-arid climates. <i>Water Research</i> , 2014 , 55, 83-94	12.5	9
63	Phosphorus dynamics from vegetated catchment to lakebed during seasonal refilling. <i>Wetlands</i> , 2004 , 24, 828-836	1.7	9
62	Applications in sustainable production. <i>Communications in Soil Science and Plant Analysis</i> , 2000 , 31, 2379-2392	1.3	9
61	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. <i>Agronomy</i> , 2020 , 10, 1881	3.6	9
60	Integrated Weed and Nutrient Management Improve Yield, Nutrient Uptake and Economics of Maize in the Rice-Maize Cropping System of Eastern India. <i>Agronomy</i> , 2020 , 10, 1906	3.6	9
59	Impact of Rice Straw Mulch on Soil Physical Properties, Sunflower Root Distribution and Yield in a Salt-Affected Clay-Textured Soil. <i>Agriculture (Switzerland)</i> , 2021 , 11, 264	3	9
58	Potassium application alleviates grain sterility and increases yield of wheat (<i>Triticum aestivum</i>) in frost-prone Mediterranean-type climate. <i>Plant and Soil</i> , 2019 , 434, 203-216	4.2	9
57	Simulating wheat growth response to potassium availability under field conditions with sandy soils. I. Model development. <i>Field Crops Research</i> , 2015 , 178, 109-124	5.5	8
56	Leaf-litter application to a sandy soil modifies phosphorus leaching over the wet season of southwestern Australia. <i>Hydrobiologia</i> , 2005 , 545, 33-44	2.4	8
55	Nursery Fertilizer Application Increases Rice Growth and Yield in Rainfed Lowlands with or without Post-Transplanting Crop Stress. <i>American Journal of Plant Sciences</i> , 2015 , 06, 2878-2892	0.5	8
54	Wheat grain-yield response to lime application: relationships with soil pH and aluminium in Western Australia. <i>Crop and Pasture Science</i> , 2019 , 70, 295	2.2	8

53	Evaluation of anaerobic digestate as a substrate for vermicomposting. <i>International Journal of Environment and Waste Management</i> , 2014 , 14, 149	0.9	7
52	Applications in sustainable production. <i>Communications in Soil Science and Plant Analysis</i> , 2000 , 31, 2233-2349		7
51	Factors controlling equilibrium boron (B) concentration in nutrient solution buffered with B-specific resin (Amberlite IRA-743). <i>Plant and Soil</i> , 1999 , 208, 233-241	4.2	7
50	Micronutrients limiting pasture production in Australia. <i>Crop and Pasture Science</i> , 2019 , 70, 1053	2.2	7
49	Zinc forms in compost and red mud-amended bauxite residue sand. <i>Journal of Soils and Sediments</i> , 2011 , 11, 101-114	3.4	6
48	Root pruning and transplanting increase zinc requirements of canola (<i>Brassica napus</i>). <i>Plant and Soil</i> , 2009 , 314, 11-24	4.2	6
47	EFFICACY OF HERBICIDES IN NON-PUDDLED TRANSPLANTED RICE UNDER CONSERVATION AGRICULTURE SYSTEMS AND THEIR EFFECT ON ESTABLISHMENT OF THE SUCCEEDING CROPS. <i>Acta Scientifica Malaysia</i> , 2018 , 2, 17-25	1	6
46	Water supply influences boron uptake by transplanted oilseed rape (<i>Brassica napus</i> cv. Eureka) grown in low boron soil 1997 , 157-160		6
45	Yield Response, Nutritional Quality and Water Productivity of Tomato (<i>Solanum lycopersicum</i> L.) are Influenced by Drip Irrigation and Straw Mulch in the Coastal Saline Ecosystem of Ganges Delta, India. <i>Sustainability</i> , 2020 , 12, 6779	3.6	6
44	Rethinking soil water repellency and its management. <i>Plant Ecology</i> , 2019 , 220, 977-984	1.7	5
43	Importance of whole plant dry matter dynamics for potato (<i>Solanum tuberosum</i> L.) tuber yield response to an episode of high temperature. <i>Environmental and Experimental Botany</i> , 2019 , 162, 560-571	5.9	5
42	Risks of Boron Toxicity in Canola and Lupin by Forms of Boron Application in Acid Sands of South-Western Australia. <i>Journal of Plant Nutrition</i> , 2015 , 38, 920-937	2.3	5
41	Extremely high boron tolerance in <i>Puccinellia distans</i> (Jacq.) Parl. related to root boron exclusion and a well-regulated antioxidant system. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2016 , 71, 273-85	1.7	5
40	Partially mechanized non-puddled rice establishment: on-farm performance and farmers' perceptions. <i>Plant Production Science</i> , 2019 , 22, 23-45	2.4	5
39	Growth and yield responses in wheat and barley to potassium supply under drought or moderately saline conditions in the south-west of Western Australia. <i>Crop and Pasture Science</i> , 2015 , 66, 135	2.2	5
38	Leaf Litter Decomposition and Nutrient Dynamics in Woodland and Wetland Conditions along a Forest to Wetland Hillslope. <i>ISRN Soil Science</i> , 2012 , 2012, 1-8		5
37	Measuring microbial uptake of nitrogen in nutrient-amended sandy soils: a mass-balance based approach. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 581-589	7.5	4
36	Partitioning processes controlling water column phosphorus concentrations in a shallow wetland. <i>Freshwater Biology</i> , 2004 , 49, 563-575	3.1	4

35	Genome-wide identification and transcriptional analyses of MATE transporter genes in root tips of wild Cicer spp. under aluminium stress		4
34	Variation of Germplasm to Manganese Toxicity Tolerance. <i>Frontiers in Plant Science</i> , 2020 , 11, 588065	6.2	4
33	Opportunities and risks with early sowing of sunflower in a salt-affected coastal region of the Ganges Delta. <i>Agronomy for Sustainable Development</i> , 2021 , 41, 1	6.8	4
32	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. <i>Agronomy</i> , 2021 , 11, 1164	3.6	4
31	Canola, narrow-leaved lupin and wheat differ in growth response to low to moderate sodium on a potassium-deficient sandy soil. <i>Crop and Pasture Science</i> , 2016 , 67, 1168	2.2	3
30	Data presentation, interpretation, and communication. <i>Communications in Soil Science and Plant Analysis</i> , 2000 , 31, 2111-2123	1.5	3
29	High Light Intensity Increases External Boron (B) Requirements for Leaf Growth of Sunflower (<i>Helianthus annuus</i> L. cv. Hysun 25) in B-buffered Solution Culture 2002 , 213-225		3
28	Optimum Soil Water Content for Chickpea Emergence in Heavy-Textured Soils of North-West Bangladesh. <i>Journal of Agronomy and Crop Science</i> , 2015 , 201, 195-205	3.9	2
27	Role of soil covers in establishment of vegetation on gold oxide refining residues. <i>Ecological Engineering</i> , 2015 , 75, 392-403	3.9	2
26	Photosynthetic and respiratory response of potato leaves of different ages during and after an episode of high temperature. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 352-362	3.9	2
25	AMENDING BAUXITE RESIDUE SANDS WITH RESIDUE FINES TO ENHANCE GROWTH POTENTIAL. <i>Journal of the American Society of Mining and Reclamation</i> , 2007 , 2007, 1-15	2.5	2
24	Estimating production of gilvin from catchment leaf litter during seasonal rains. <i>Marine and Freshwater Research</i> , 2005 , 56, 843	2.2	2
23	Genotypic variation among chickpea and wild Cicer spp. in nutrient uptake with increasing concentration of solution Al at low pH. <i>Plant Physiology and Biochemistry</i> , 2020 , 157, 390-401	5.4	2
22	Sulfur management strategies to improve partial sulfur balance with irrigated peanut production on deep sands. <i>Archives of Agronomy and Soil Science</i> , 2020 , 1-14	2	2
21	Factors influencing the soil-test calibration for Colwell P and wheat under winter-dominant rainfall. <i>Crop and Pasture Science</i> , 2020 , 71, 113	2.2	2
20	Establishment of Crops under Minimal Soil Disturbance and Crop Residue Retention in Rice-Based Cropping System: Yield Advantage, Soil Health Improvement, and Economic Benefit. <i>Land</i> , 2021 , 10, 581	3.5	2
19	Novel Sources of Tolerance to Aluminium Toxicity in Wild (and) Collections. <i>Frontiers in Plant Science</i> , 2021 , 12, 678211	6.2	2
18	Insufficient potassium and sulfur supply threaten the productivity of perennial forage grasses in smallholder farms on tropical sandy soils. <i>Plant and Soil</i> , 2021 , 461, 617-630	4.2	2

17	Shallow surface and subsurface drains alleviate waterlogging and salinity in a clay-textured soil and improve the yield of sunflower in the Ganges Delta. <i>Agronomy for Sustainable Development</i> , 2022 , 42, 1	6.8	2
16	Partial potassium balance under irrigated peanut crops on sands in a tropical monsoonal climate. <i>Nutrient Cycling in Agroecosystems</i> , 2019 , 114, 71-83	3.3	1
15	Differential growth and yield by canola (<i>Brassica napus</i> L.) and wheat (<i>Triticum aestivum</i> L.) arising from alterations in chemical properties of sandy soils due to additions of fly ash. <i>Journal of the Science of Food and Agriculture</i> , 2013 , 93, 995-1002	4.3	1
14	Physiology and Metabolism of Boron in Plants 2007 , 31-46		1
13	Short-Term Waterlogging Depresses Early Growth of Sunflower (<i>Helianthus annuus</i> L.) on Saline Soils with a Shallow Water Table in the Coastal Zone of Bangladesh. <i>Soil Systems</i> , 2021 , 5, 68	3.5	1
12	Salinity Dynamics and Water Availability in Water Bodies over a Dry Season in the Ganges Delta 2021 , 305-322		1
11	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. <i>International Journal of Pest Management</i> , 2020 , 66, 122-130	1.5	1
10	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. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 1520-1530	3.2	0
9	Effect of Straw Mulch and Irrigation on Sunflower and Maize Cultivation in No Tillage Systems of Coastal Heavy Soils. <i>Proceedings (mdpi)</i> , 2019 , 36, 145	0.3	0
8	Availability and utilisation pattern of agricultural waste at household level in selected areas of Bangladesh.. <i>Waste Management and Research</i> , 2021 , 734242X211064416	4	0
7	Issues and Challenges in the Rehabilitation and Sustainable Use of Highly Disturbed Lands Associated with Mining Activities in Australia 2022 , 525-535		
6	Prognosis of Boron Deficiency in Oilseed Rape (<i>Brassica napus</i>) by Soil Analysis 2002 , 311-317		
5	Rescheduling of Wet Season (T. Aman) Rice Planting for Cropping Intensification in Coastal Bangladesh. <i>Proceedings (mdpi)</i> , 2019 , 36, 32	0.3	
4	Effects of Fresh and Saline Water Irrigation for Maize in Coastal Areas of Bangladesh. <i>Proceedings (mdpi)</i> , 2019 , 36, 144	0.3	
3	Yield Response of Sunflower to Sowing Dates and NPK Rates under Zero Tillage in Wet Soil of Southwestern Coastal Bangladesh. <i>Proceedings (mdpi)</i> , 2019 , 36, 202	0.3	
2	Soil disturbance levels, soil water content and the establishment of rainfed chickpea: Mechanised seeding options for smallholder farms in north-west Bangladesh. <i>Journal of Agronomy and Crop Science</i> , 2021 , 207, 208-223	3.9	
1	Continuous Practice of Conservation Agriculture for 35 Years in Intensive Rice-Based Cropping Patterns Reduces Soil Weed Seedbank. <i>Agriculture (Switzerland)</i> , 2021 , 11, 895	3	