

# Bunyamin Tar'an

## List of Publications by Year in descending order

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110  
papers

4,963  
citations

101543

36  
h-index

102487

66  
g-index

112  
all docs

112  
docs citations

112  
times ranked

3770  
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR/Cas9 gene editing in legume crops: Opportunities and challenges. , 2021, 3, e96.		49
2	Standardization of Aquafaba Production and Application in Vegan Mayonnaise Analogs. Foods, 2021, 10, 1978.	4.3	28
3	Identification of heat responsive genes in pea stipules and anthers through transcriptional profiling. PLoS ONE, 2021, 16, e0251167.	2.5	4
4	A chickpea genetic variation map based on the sequencing of 3,366 genomes. Nature, 2021, 599, 622-627.	27.8	106
5	Development of ABA Antagonists to Overcome ABA- and Low Temperature-Induced Inhibition of Seed Germination in Canola, Lentil, and Soybean. Journal of Plant Growth Regulation, 2020, 39, 1403-1413.	5.1	9
6	Folate profile diversity and associated SNPs using genome wide association study in pea. Euphytica, 2020, 216, 1.	1.2	16
7	Thermal processing methods differentially affect the protein quality of Chickpea ( <i>Cicer</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3.4 26	3.4	26
8	Integrating genomics for chickpea improvement: achievements and opportunities. Theoretical and Applied Genetics, 2020, 133, 1703-1720.	3.6	82
9	<sc>QTL</sc> sequencing strategy to map genomic regions associated with resistance to ascochyta blight in chickpea. Plant Biotechnology Journal, 2019, 17, 275-288.	8.3	75
10	A reference genome for pea provides insight into legume genome evolution. Nature Genetics, 2019, 51, 1411-1422.	21.4	363
11	Iron Fortification and Bioavailability of Chickpea ( <i>Cicer arietinum</i> L.) Seeds and Flour. Nutrients, 2019, 11, 2240.	4.1	13
12	Development of a Sequence-Based Reference Physical Map of Pea ( <i>Pisum sativum</i> L.). Frontiers in Plant Science, 2019, 10, 323.	3.6	13
13	Genome-wide SNP discovery for development of high-density genetic map and QTL mapping of ascochyta blight resistance in chickpea ( <i>Cicer arietinum</i> L.). Theoretical and Applied Genetics, 2019, 132, 1861-1872.	3.6	35
14	Mapping Quantitative Trait Loci for Carotenoid Concentration in Three F <sub>2</sub> Populations of Chickpea. Plant Genome, 2019, 12, 1-12.	2.8	13
15	Genome-Wide Association Mapping for Agronomic and Seed Quality Traits of Field Pea ( <i>Pisum sativum</i> ) Tj ETQq1 1,0,784314 rgBT /Ove 3.6 83	3.6	83
16	Sensory Acceptability of Iron-Fortified Red Lentil ( <i>Lens culinaris</i> Medik.) Dal. Journal of Food Science, 2018, 83, 804-813.	3.1	11
17	Ecology and genomics of an important crop wild relative as a prelude to agricultural innovation. Nature Communications, 2018, 9, 649.	12.8	142
18	Genotypic variation in the response of chickpea to arbuscular mycorrhizal fungi and non-mycorrhizal fungal endophytes. Canadian Journal of Microbiology, 2018, 64, 265-275.	1.7	20

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19	Determine effect of pressure heating on carbohydrate related molecular structures in association with carbohydrate metabolic profiles of cool-climate chickpeas using Global spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 201, 8-18.	3.9	6
20	Construction of high-density linkage maps for mapping quantitative trait loci for multiple traits in field pea ( <i>Pisum sativum</i> L.). <i>BMC Plant Biology</i> , 2018, 18, 172.	3.6	59
21	CDC Canary yellow field pea. <i>Canadian Journal of Plant Science</i> , 2017, , .	0.9	0
22	CDC Spruce green field pea. <i>Canadian Journal of Plant Science</i> , 2017, , .	0.9	0
23	The Chickpea <i>Early Flowering 1</i> ( <i>Efl1</i> ) Locus Is an Ortholog of Arabidopsis <i>ELF3</i> . <i>Plant Physiology</i> , 2017, 175, 802-815.	4.8	54
24	Classical Genetics and Gene Mapping. <i>Compendium of Plant Genomes</i> , 2017, , 69-81.	0.5	1
25	Population structure and association mapping of traits related to reproductive development in field pea. <i>Euphytica</i> , 2017, 213, 1.	1.2	12
26	Pea Phenology: Crop Potential in a Warming Environment. <i>Crop Science</i> , 2017, 57, 1540-1551.	1.8	32
27	Fine Mapping of QTLs for Ascochyta Blight Resistance in Pea Using Heterogeneous Inbred Families. <i>Frontiers in Plant Science</i> , 2017, 8, 765.	3.6	35
28	Genetic Analysis of NBS-LRR Gene Family in Chickpea and Their Expression Profiles in Response to Ascochyta Blight Infection. <i>Frontiers in Plant Science</i> , 2017, 8, 838.	3.6	60
29	Iron Fortification of Lentil ( <i>Lens culinaris</i> Medik.) to Address Iron Deficiency. <i>Nutrients</i> , 2017, 9, 863.	4.1	21
30	Towards Zinc Biofortification in Chickpea: Performance of Chickpea Cultivars in Response to Soil Zinc Application. <i>Agronomy</i> , 2017, 7, 11.	3.0	14
31	CDC Athabasca yellow field pea. <i>Canadian Journal of Plant Science</i> , 2017, , .	0.9	0
32	Distinct Subgroups of <i>Cicer echinospermum</i> Are Associated with Hybrid Sterility and Breakdown in Interspecific Crosses with Cultivated Chickpea. <i>Crop Science</i> , 2017, 57, 3101-3111.	1.8	33
33	Determination of Photoperiod-Sensitive Phase in Chickpea ( <i>Cicer arietinum</i> L.). <i>Frontiers in Plant Science</i> , 2016, 7, 478.	3.6	19
34	Genome-Wide Analysis of the Aquaporin Gene Family in Chickpea ( <i>Cicer arietinum</i> L.). <i>Frontiers in Plant Science</i> , 2016, 7, 1802.	3.6	69
35	Identification and Expression Analysis of Candidate Genes Involved in Carotenoid Biosynthesis in Chickpea Seeds. <i>Frontiers in Plant Science</i> , 2016, 7, 1867.	3.6	26
36	Identification of QTLs Associated with Improved Resistance to Ascochyta Blight in an Interspecific Pea Recombinant Inbred Line Population. <i>Crop Science</i> , 2016, 56, 2926-2939.	1.8	29

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37	Gene-based SNP discovery in tepary bean ( <i>Phaseolus acutifolius</i> ) and common bean ( <i>P. vulgaris</i> ) for diversity analysis and comparative mapping. <i>BMC Genomics</i> , 2016, 17, 239.	2.8	38
38	Response of conventional and imidazolinone-resistant chickpea ( <i>Cicer arietinum</i> L.) cultivars to imazamox and/or imazethapyr applied post-emergence. <i>Canadian Journal of Plant Science</i> , 2016, 96, 48-58.	0.9	3
39	QTL mapping of early flowering and resistance to ascochyta blight in chickpea. <i>Genome</i> , 2016, 59, 413-425.	2.0	41
40	Response of Chickpea Cultivars to Imidazolinone Herbicide Applied at Different Growth Stages. <i>Weed Technology</i> , 2016, 30, 664-676.	0.9	7
41	Effect of Temperature and Photoperiod on Time to Flowering in Chickpea. <i>Crop Science</i> , 2016, 56, 200-208.	1.8	12
42	Flowering response of diverse chickpea ( <i>Cicer arietinum</i> L.) accessions to photoperiod. <i>Genetic Resources and Crop Evolution</i> , 2016, 63, 1161-1172.	1.6	3
43	Fine mapping for double podding gene in chickpea. <i>Theoretical and Applied Genetics</i> , 2016, 129, 77-86.	3.6	21
44	Effect of prohexadione calcium on vegetative growth, seed maturity and seed yield of the Kabuli chickpea cultivar CDC Frontier. <i>Canadian Journal of Plant Science</i> , 2015, 95, 571-578.	0.9	9
45	Response of Snap Bean Cultivars to Rhizobium Inoculation under Dryland Agriculture in Ethiopia. <i>Agronomy</i> , 2015, 5, 291-308.	3.0	30
46	Mapping Seed Phytic Acid Concentration and Iron Bioavailability in a Pea Recombinant Inbred Line Population. <i>Crop Science</i> , 2015, 55, 828-836.	1.8	23
47	SNP variation within genes associated with amylose, total starch and crude protein concentration in field pea. <i>Euphytica</i> , 2015, 206, 459-471.	1.2	24
48	Genetic diversity of nutritionally important carotenoids in 94 pea and 121 chickpea accessions. <i>Journal of Food Composition and Analysis</i> , 2015, 43, 49-60.	3.9	45
49	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.	3.1	39
50	Population structure and marker-trait association studies of iron, zinc and selenium concentrations in seed of field pea ( <i>Pisum sativum</i> L.). <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	68
51	Genetic diversity of folate profiles in seeds of common bean, lentil, chickpea and pea. <i>Journal of Food Composition and Analysis</i> , 2015, 42, 134-140.	3.9	77
52	Allele diversity analysis to identify SNPs associated with ascochyta blight resistance in pea. <i>Euphytica</i> , 2015, 202, 189-197.	1.2	24
53	Effect of Cultivar and Environment on Carotenoid Profile of Pea and Chickpea. <i>Crop Science</i> , 2014, 54, 2225-2235.	1.8	23
54	Gene-based SNP discovery and genetic mapping in pea. <i>Theoretical and Applied Genetics</i> , 2014, 127, 2225-2241.	3.6	74

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55	Analysis of acetohydroxyacid synthase1 gene in chickpea conferring resistance to imazamox herbicide. <i>Genome</i> , 2014, 57, 593-600.	2.0	6
56	Genetic diversity and association mapping of iron and zinc concentrations in chickpea ( <i>Cicer</i> ) Tj ETQq0 0 0 rgBT, Overlock, 10 Tf 50 7	2.0	111
57	Genome wide SNP identification in chickpea for use in development of a high density genetic map and improvement of chickpea reference genome assembly. <i>BMC Genomics</i> , 2014, 15, 708.	2.8	98
58	A chromosomal genomics approach to assess and validate the <i>desi</i> and <i>kabuli</i> draft chickpea genome assemblies. <i>Plant Biotechnology Journal</i> , 2014, 12, 778-786.	8.3	54
59	Genetic characterization of the acetohydroxyacid synthase (AHAS) gene responsible for resistance to imidazolinone in chickpea ( <i>Cicer arietinum</i> L.). <i>Theoretical and Applied Genetics</i> , 2014, 127, 1583-1591.	3.6	18
60	Comprehensive Transcriptome Assembly of Chickpea ( <i>Cicer arietinum</i> L.) Using Sanger and Next Generation Sequencing Platforms: Development and Applications. <i>PLoS ONE</i> , 2014, 9, e86039.	2.5	87
61	Mineral Micronutrient Content of Cultivars of Field Pea, Chickpea, Common Bean, and Lentil Grown in Saskatchewan, Canada. <i>Crop Science</i> , 2014, 54, 1698-1708.	1.8	117
62	CDC Raezer green field pea. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1535-1537.	0.9	4
63	CDC Limerick green field pea. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1547-1549.	0.9	7
64	CDC Amarillo yellow field pea. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1539-1541.	0.9	10
65	CDC Greenwater green field pea. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1551-1553.	0.9	0
66	CDC Saffron yellow field pea. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1543-1545.	0.9	1
67	Draft genome sequence of chickpea ( <i>Cicer arietinum</i> ) provides a resource for trait improvement. <i>Nature Biotechnology</i> , 2013, 31, 240-246.	17.5	1,049
68	Fast track genetic improvement of ascochyta blight resistance and double podding in chickpea by marker-assisted backcrossing. <i>Theoretical and Applied Genetics</i> , 2013, 126, 1639-1647.	3.6	36
69	Response of chickpea cultivars to pre- and post-emergence herbicide applications. <i>Canadian Journal of Plant Science</i> , 2013, 93, 279-286.	0.9	16
70	Characterization of 169 diverse pea germplasm accessions for agronomic performance, <i>Mycosphaerella</i> blight resistance and nutritional profile. <i>Genetic Resources and Crop Evolution</i> , 2013, 60, 747-761.	1.6	30
71	Identification of <i>Mycosphaerella</i> Blight Resistance in Wild <i>Pisum</i> Species for Use in Pea Breeding. <i>Crop Science</i> , 2012, 52, 2462-2468.	1.8	23
72	CDC Tetris green field pea. <i>Canadian Journal of Plant Science</i> , 2012, 92, 217-219.	0.9	0

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73	CDC Pluto small green field pea. Canadian Journal of Plant Science, 2012, 92, 215-216.	0.9	2
74	CDC Horizon forage pea. Canadian Journal of Plant Science, 2012, 92, 207-209.	0.9	2
75	CDC Treasure yellow field pea. Canadian Journal of Plant Science, 2012, 92, 211-213.	0.9	1
76	Genetic control and identification of QTLs associated with visual quality traits of field pea ( <i>Pisum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	23
77	Mapping QTL Associated with Traits Affecting Grain Yield in Chickpea ( <i>Cicer arietinum</i> L.) under Terminal Drought Stress. Crop Science, 2011, 51, 450-463.	1.8	84
78	CDC Hornet yellow field pea. Canadian Journal of Plant Science, 2011, 91, 947-949.	0.9	0
79	CDC Orion kabuli chickpea. Canadian Journal of Plant Science, 2011, 91, 355-356.	0.9	7
80	Sources of resistance to ascochyta blight in wild species of lentil ( <i>Lens culinaris</i> Medik.). Genetic Resources and Crop Evolution, 2010, 57, 1053-1063.	1.6	53
81	Variation in chickpea germplasm for tolerance to imazethapyr and imazamox herbicides. Canadian Journal of Plant Science, 2010, 90, 139-142.	0.9	24
82	Genetic control and QTL analysis of cotyledon bleaching resistance in green field pea ( <i>Pisum sativum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	22
83	Genotype and growing environment influence chickpea ( <i>Cicer arietinum</i> L.) seed composition. Journal of the Science of Food and Agriculture, 2009, 89, 2052-2063.	3.5	49
84	Genetic analyses and conservation of QTL for ascochyta blight resistance in chickpea ( <i>Cicer arietinum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.6	81
85	Improved sources of resistance to ascochyta blight in chickpea. Canadian Journal of Plant Science, 2009, 89, 107-118.	0.9	17
86	CDC Luna kabuli chickpea. Canadian Journal of Plant Science, 2009, 89, 517-518.	0.9	3
87	CDC Vanguard desi chickpea. Canadian Journal of Plant Science, 2009, 89, 519-520.	0.9	1
88	CDC Corinne desi chickpea. Canadian Journal of Plant Science, 2009, 89, 515-516.	0.9	5
89	CDC Tucker and CDC Leroy forage pea cultivars. Canadian Journal of Plant Science, 2009, 89, 661-663.	0.9	8
90	The performance of dry bean cultivars with and without common bacterial blight resistance in field studies across Canada. Canadian Journal of Plant Science, 2009, 89, 405-410.	0.9	20

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91	Construction of an Intraspecific Linkage Map and QTL Analysis for Earliness and Plant Height in Lentil. <i>Crop Science</i> , 2008, 48, 2254-2264.	1.8	74
92	CDC Prosper field pea. <i>Canadian Journal of Plant Science</i> , 2008, 88, 1097-1098.	0.9	0
93	CDC Patrick field pea. <i>Canadian Journal of Plant Science</i> , 2008, 88, 1095-1096.	0.9	0
94	CDC Meadow field pea. <i>Canadian Journal of Plant Science</i> , 2007, 87, 909-910.	0.9	20
95	CDC Centennial field pea. <i>Canadian Journal of Plant Science</i> , 2007, 87, 907-908.	0.9	5
96	Selection for Lodging Resistance in Early Generations of Field Pea by Molecular Markers. <i>Crop Science</i> , 2006, 46, 321-329.	1.8	24
97	Sources of Resistance to Anthracnose ( <i>Colletotrichum truncatum</i> ) in Wild Lens Species. <i>Genetic Resources and Crop Evolution</i> , 2006, 53, 111-119.	1.6	69
98	A quantitative-trait locus for resistance to ascochyta blight [ <i>Ascochyta lentis</i> ] maps close to a gene for resistance to anthracnose [ <i>Colletotrichum truncatum</i> ] in lentil. <i>Canadian Journal of Plant Pathology</i> , 2006, 28, 588-595.	1.4	37
99	Identification of quantitative trait loci for grain yield, seed protein concentration and maturity in field pea ( <i>Pisum sativum</i> L.). <i>Euphytica</i> , 2004, 136, 297-306.	1.2	70
100	Title is missing!. <i>Euphytica</i> , 2003, 130, 423-432.	1.2	14
101	Using molecular markers to pyramid genes for resistance to ascochyta blight and anthracnose in lentil ( <i>Lens culinaris</i> Medik.). <i>Euphytica</i> , 2003, 134, 223-230.	1.2	61
102	Genetics of resistance to anthracnose and identification of AFLP and RAPD markers linked to the resistance gene in PI 320937 germplasm of lentil ( <i>Lens culinaris</i> Medikus). <i>Theoretical and Applied Genetics</i> , 2003, 106, 428-434.	3.6	71
103	Quantitative trait loci for lodging resistance, plant height and partial resistance to mycosphaerella blight in field pea ( <i>Pisum sativum</i> L.). <i>Theoretical and Applied Genetics</i> , 2003, 107, 1482-1491.	3.6	136
104	Genetic Mapping of Agronomic Traits in Common Bean. <i>Crop Science</i> , 2002, 42, 544-556.	1.8	100
105	Genetic Mapping of Agronomic Traits in Common Bean. <i>Crop Science</i> , 2002, 42, 544.	1.8	69
106	Stability of the association of molecular markers with common bacterial blight resistance in common bean ( <i>Phaseolus vulgaris</i> L.). <i>Plant Breeding</i> , 1998, 117, 553-558.	1.9	15
107	Inheritance of Somatic Embryogenesis in Orchardgrass. <i>Crop Science</i> , 1997, 37, 1497-1502.	1.8	4
108	CDC Spectrum yellow field pea. <i>Canadian Journal of Plant Science</i> , 0, , .	0.9	1

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109	CDC Inca yellow field pea. Canadian Journal of Plant Science, 0, , .	0.9	3
110	CDC Forest green field pea. Canadian Journal of Plant Science, 0, , .	0.9	0