

# Conxita Royo

## List of Publications by Year in descending order

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118  
papers

8,007  
citations

53794

45  
h-index

53230

85  
g-index

118  
all docs

118  
docs citations

118  
times ranked

5371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Breeding and Drought in C3 Cereals: What Should We Breed For?. <i>Annals of Botany</i> , 2002, 89, 925-940.	2.9	987
2	Breeding for Yield Potential and Stress Adaptation in Cereals. <i>Critical Reviews in Plant Sciences</i> , 2008, 27, 377-412.	5.7	638
3	Quantitative Trait Loci for Grain Yield and Adaptation of Durum Wheat ( <i>Triticum durum</i> Desf.) Across a Wide Range of Water Availability. <i>Genetics</i> , 2008, 178, 489-511.	2.9	397
4	Exploiting genetic diversity from landraces in wheat breeding for adaptation to climate change. <i>Journal of Experimental Botany</i> , 2015, 66, 3477-3486.	4.8	356
5	Spectral Vegetation Indices as Nondestructive Tools for Determining Durum Wheat Yield. <i>Agronomy Journal</i> , 2000, 92, 83-91.	1.8	339
6	Association mapping in durum wheat grown across a broad range of water regimes. <i>Journal of Experimental Botany</i> , 2011, 62, 409-438.	4.8	270
7	Promising eco-physiological traits for genetic improvement of cereal yields in Mediterranean environments. <i>Annals of Applied Biology</i> , 2005, 146, 61-70.	2.5	248
8	Evaluation of Grain Yield and Its Components in Durum Wheat under Mediterranean Conditions. <i>Agronomy Journal</i> , 2003, 95, 266.	1.8	180
9	Relationship between Growth Traits and Spectral Vegetation Indices in Durum Wheat. <i>Crop Science</i> , 2002, 42, 1547-1555.	1.8	158
10	Breeding cereals for Mediterranean conditions: ecophysiological clues for biotechnology application. <i>Annals of Applied Biology</i> , 2003, 142, 129-141.	2.5	157
11	Genetic changes in durum wheat yield components and associated traits in Italian and Spanish varieties during the 20th century. <i>Euphytica</i> , 2007, 155, 259-270.	1.2	142
12	Usefulness of spectral reflectance indices as durum wheat yield predictors under contrasting Mediterranean conditions. <i>International Journal of Remote Sensing</i> , 2003, 24, 4403-4419.	2.9	116
13	Genetic improvement of bread wheat yield and associated traits in Spain during the 20th century. <i>Journal of Agricultural Science</i> , 2013, 151, 105-118.	1.3	108
14	Durum wheat quality in Mediterranean environments. <i>Field Crops Research</i> , 2003, 80, 133-140.	5.1	94
15	Dissecting the old Mediterranean durum wheat genetic architecture for phenology, biomass and yield formation by association mapping and QTL meta-analysis. <i>PLoS ONE</i> , 2017, 12, e0178290.	2.5	93
16	Can Mediterranean durum wheat landraces contribute to improved grain quality attributes in modern cultivars?. <i>Euphytica</i> , 2012, 185, 1-17.	1.2	92
17	Genetic Structure of Modern Durum Wheat Cultivars and Mediterranean Landraces Matches with Their Agronomic Performance. <i>PLoS ONE</i> , 2016, 11, e0160983.	2.5	92
18	Biomass Accumulation and Main Stem Elongation of Durum Wheat Grown under Mediterranean Conditions. <i>Annals of Botany</i> , 2001, 88, 617-627.	2.9	91

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19	Environmental and genetic determination of protein content and grain yield in durum wheat under Mediterranean conditions. <i>Plant Breeding</i> , 2001, 120, 381-388.	1.9	90
20	Yield formation strategies of durum wheat landraces with distinct pattern of dispersal within the Mediterranean basin I: Yield components. <i>Field Crops Research</i> , 2006, 95, 194-205.	5.1	90
21	The climate of the zone of origin of Mediterranean durum wheat ( <i>Triticum durum</i> Desf.) landraces affects their agronomic performance. <i>Genetic Resources and Crop Evolution</i> , 2014, 61, 1345-1358.	1.6	87
22	Durum wheat quality in Mediterranean environments. <i>Field Crops Research</i> , 2003, 80, 123-131.	5.1	85
23	Contribution of main stem and tillers to durum wheat ( <i>Triticum turgidum</i> L. var. durum) grain yield and its components grown in Mediterranean environments. <i>Field Crops Research</i> , 2007, 103, 25-35.	5.1	85
24	Breeding progress in the pasta-making quality of durum wheat cultivars released in Italy and Spain during the 20th Century. <i>Crop and Pasture Science</i> , 2014, 65, 16.	1.5	83
25	QTL dissection of yield components and morpho-physiological traits in a durum wheat elite population tested in contrasting thermo-pluviometric conditions. <i>Crop and Pasture Science</i> , 2014, 65, 80.	1.5	79
26	Changes in duration of developmental phases of durum wheat caused by breeding in Spain and Italy during the 20th century and its impact on yield. <i>Annals of Botany</i> , 2011, 107, 1355-1366.	2.9	72
27	Using AFLPs to determine phylogenetic relationships and genetic erosion in durum wheat cultivars released in Italy and Spain throughout the 20th century. <i>Field Crops Research</i> , 2005, 91, 107-116.	5.1	70
28	Grain Filling and Dry Matter Translocation Responses to Source-Sink Modifications in a Historical Series of Durum Wheat. <i>Crop Science</i> , 2008, 48, 1523-1531.	1.8	69
29	Breeding Effects on Grain Filling, Biomass Partitioning, and Remobilization in Mediterranean Durum Wheat. <i>Agronomy Journal</i> , 2008, 100, 361-370.	1.8	69
30	Dissecting the Genetic Architecture of Leaf Rust Resistance in Wheat by QTL Meta-Analysis. <i>Phytopathology</i> , 2015, 105, 1585-1593.	2.2	69
31	Comparative performance of carbon isotope discrimination and canopy temperature depression as predictors of genotype differences in durum wheat yield in Spain. <i>Australian Journal of Agricultural Research</i> , 2002, 53, 561.	1.5	67
32	From landraces to improved cultivars: Assessment of genetic diversity and population structure of Mediterranean wheat using SNP markers. <i>PLoS ONE</i> , 2019, 14, e0219867.	2.5	66
33	Genetic Diversity of Glutenin Protein Subunits Composition in Durum Wheat Landraces [ <i>Triticum turgidum</i> ssp. <i>turgidum</i> Convar. durum (Desf.) MacKey] from the Mediterranean Basin. <i>Genetic Resources and Crop Evolution</i> , 2006, 53, 993-1002.	1.6	62
34	Assessment of durum wheat yield using visible and near-infrared reflectance spectra of canopies. <i>Field Crops Research</i> , 2005, 94, 126-148.	5.1	59
35	A panel of elite accessions of durum wheat ( <i>Triticum durum</i> Desf.) suitable for association mapping studies. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2006, 4, 79-85.	0.8	54
36	Understanding the relationships between genetic and phenotypic structures of a collection of elite durum wheat accessions. <i>Field Crops Research</i> , 2010, 119, 91-105.	5.1	54

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37	Breeding effects on the cultivar×environment interaction of durum wheat yield. <i>European Journal of Agronomy</i> , 2015, 68, 78-88.	4.1	54
38	Remobilization of Pre-Anthesis Assimilates to the Grain for Grain Only and Dual-Purpose (Forage and Tj ETQq 0.0 rgBT /Overlock 10	1.8	53
39	Dispersal of durum wheat [ <i>Triticum turgidum</i> L. ssp. <i>turgidum</i> convar. <i>durum</i> (Desf.) MacKey] landraces across the Mediterranean basin assessed by AFLPs and microsatellites. <i>Genetic Resources and Crop Evolution</i> , 2007, 54, 1133-1144.	1.6	53
40	Changes in bread-making quality attributes of bread wheat varieties cultivated in Spain during the 20th century. <i>European Journal of Agronomy</i> , 2015, 63, 79-88.	4.1	53
41	Durum wheat quality in Mediterranean environments. <i>Field Crops Research</i> , 2003, 80, 141-146.	5.1	51
42	Old and modern durum wheat varieties from Italy and Spain differ in main spike components. <i>Field Crops Research</i> , 2008, 106, 86-93.	5.1	51
43	Genetic Diversity and Association Mapping for Agromorphological and Grain Quality Traits of a Structured Collection of Durum Wheat Landraces Including subsp. <i>durum</i> , <i>turgidum</i> and <i>diccocon</i> . <i>PLoS ONE</i> , 2016, 11, e0166577.	2.5	51
44	Durum Wheat Landraces from East and West Regions of the Mediterranean Basin Are Genetically Distinct for Yield Components and Phenology. <i>Frontiers in Plant Science</i> , 2018, 9, 80.	3.6	51
45	Variability in glutenin subunit composition of Mediterranean durum wheat germplasm and its relationship with gluten strength. <i>Journal of Agricultural Science</i> , 2014, 152, 379-393.	1.3	47
46	Grain growth and yield formation of durum wheat grown at contrasting latitudes and water regimes in a Mediterranean environment. <i>Cereal Research Communications</i> , 2006, 34, 1021-1028.	1.6	46
47	Breeding Effects on Grain Filling, Biomass Partitioning, and Remobilization in Mediterranean Durum Wheat. <i>Agronomy Journal</i> , 2008, 100, 361.	1.8	46
48	Yield formation strategies of durum wheat landraces with distinct pattern of dispersal within the Mediterranean basin. <i>Field Crops Research</i> , 2006, 95, 182-193.	5.1	44
49	Changes in Yield and Carbon Isotope Discrimination of Italian and Spanish Durum Wheat during the 20th Century. <i>Agronomy Journal</i> , 2008, 100, 352-360.	1.8	42
50	Leaf and green area development of durum wheat genotypes grown under Mediterranean conditions. <i>European Journal of Agronomy</i> , 2004, 20, 419-430.	4.1	41
51	Diversity and Genetic Structure of a Collection of Spanish Durum Wheat Landraces. <i>Crop Science</i> , 2012, 52, 2262-2275.	1.8	41
52	Yield Formation in Mediterranean durum wheats under two contrasting water regimes based on path-coefficient analysis. <i>Euphytica</i> , 2005, 146, 203-212.	1.2	40
53	Daylength, Temperature and Solar Radiation Effects on the Phenology and Yield Formation of Spring Durum Wheat. <i>Journal of Agronomy and Crop Science</i> , 2016, 202, 203-216.	3.5	40
54	Environmentally Induced Changes in Amino Acid Composition in the Grain of Durum Wheat Grown under Different Water and Temperature Regimes in a Mediterranean Environment. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8144-8151.	5.2	39

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55	Effect of Ppd-A1 and Ppd-B1 Allelic Variants on Grain Number and Thousand Kernel Weight of Durum Wheat and Their Impact on Final Grain Yield. <i>Frontiers in Plant Science</i> , 2018, 9, 888.	3.6	39
56	Seedling development and biomass as affected by seed size and morphology in durum wheat. <i>Journal of Agricultural Science</i> , 2002, 139, 143-150.	1.3	38
57	Effect of sensor view angle on the assessment of agronomic traits by ground level hyper-spectral reflectance measurements in durum wheat under contrasting Mediterranean conditions. <i>International Journal of Remote Sensing</i> , 2004, 25, 1131-1152.	2.9	38
58	Amino-Acid Composition and Protein and Carbohydrate Accumulation in the Grain of Triticale Grown under Terminal Water Stress Simulated by a Senescing Agent. <i>Journal of Cereal Science</i> , 2000, 32, 249-258.	3.7	37
59	Transcriptomic and proteomic analyses of a pale-green durum wheat mutant shows variations in photosystem components and metabolic deficiencies under drought stress. <i>BMC Genomics</i> , 2014, 15, 125.	2.8	37
60	Effect of Ppd-1 photoperiod sensitivity genes on dry matter production and allocation in durum wheat. <i>Field Crops Research</i> , 2018, 221, 358-367.	5.1	37
61	Breeding effects on the genotype–environment interaction for yield of bread wheat grown in Spain during the 20th century. <i>Field Crops Research</i> , 2012, 126, 79-86.	5.1	36
62	Effect of Ppd-1 genes on durum wheat flowering time and grain filling duration in a wide range of latitudes. <i>Journal of Agricultural Science</i> , 2016, 154, 612-631.	1.3	36
63	Changes in durum wheat root and aerial biomass caused by the introduction of the Rht-B1b dwarfing allele and their effects on yield formation. <i>Plant and Soil</i> , 2016, 403, 291-304.	3.7	36
64	Genetic Dissection of the Seminal Root System Architecture in Mediterranean Durum Wheat Landraces by Genome-Wide Association Study. <i>Agronomy</i> , 2019, 9, 364.	3.0	35
65	Triticale grain growth and morphometry as affected by drought stress, late sowing and simulated drought stress. <i>Functional Plant Biology</i> , 2000, 27, 1051.	2.1	34
66	Durum wheat ( <i>Triticum durum</i> Desf.) Mediterranean landraces as sources of variability for allelic combinations at Glu-1/Glu-3 loci affecting gluten strength and pasta cooking quality. <i>Genetic Resources and Crop Evolution</i> , 2014, 61, 1219-1236.	1.6	33
67	Carbon Isotope Ratios in Ear Parts of Triticale. <i>Plant Physiology</i> , 1992, 100, 1033-1035.	4.8	32
68	Patterns of grain filling of spring and winter hexaploid triticales. <i>European Journal of Agronomy</i> , 2002, 16, 219-230.	4.1	32
69	Durum Wheat Breeding. , 2009, , 199-226.		32
70	Changes in Yield and Carbon Isotope Discrimination of Italian and Spanish Durum Wheat during the 20th Century. <i>Agronomy Journal</i> , 2008, 100, 352.	1.8	31
71	Pasta-Making Quality QTLome From Mediterranean Durum Wheat Landraces. <i>Frontiers in Plant Science</i> , 2018, 9, 1512.	3.6	30
72	Differential Adaptation of Complete and Substituted Triticale. <i>Plant Breeding</i> , 1993, 111, 113-119.	1.9	28

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73	Photosynthetic and developmental traits associated with genotypic differences in durum wheat yield across the Mediterranean basin. <i>Australian Journal of Agricultural Research</i> , 2000, 51, 891.	1.5	28
74	Growth and yield responses of spring and winter triticale cultivated under Mediterranean conditions. <i>European Journal of Agronomy</i> , 2004, 20, 281-292.	4.1	27
75	Morphological Traits above the Flag Leaf Node as Indicators of Drought Susceptibility Index in Durum Wheat. <i>Journal of Agronomy and Crop Science</i> , 2007, 193, 103-116.	3.5	27
76	Yield and quality of spring triticale used for forage and grain as influenced by sowing date and cutting stage. <i>Field Crops Research</i> , 1994, 37, 161-168.	5.1	26
77	Growth Analysis of Five Spring and Five Winter Triticale Genotypes. <i>Agronomy Journal</i> , 1999, 91, 305-311.	1.8	26
78	Near infrared reflectance spectroscopy as a potential surrogate method for the analysis of D13C in mature kernels of durum wheat. <i>Australian Journal of Agricultural Research</i> , 2001, 52, 809.	1.5	26
79	Allelic Variation at the Vernalization Response ( <i>Vrn-1</i> ) and Photoperiod Sensitivity ( <i>Ppd-1</i> ) Genes and Their Association With the Development of Durum Wheat Landraces and Modern Cultivars. <i>Frontiers in Plant Science</i> , 2020, 11, 838.	3.6	24
80	Exploring the Genetic Architecture of Root-Related Traits in Mediterranean Bread Wheat Landraces by Genome-Wide Association Analysis. <i>Agronomy</i> , 2020, 10, 613.	3.0	24
81	Agronomic performance of durum wheat landraces and modern cultivars and its association with genotypic variation in vernalization response ( <i>Vrn-1</i> ) and photoperiod sensitivity ( <i>Ppd-1</i> ) genes. <i>European Journal of Agronomy</i> , 2020, 120, 126129.	4.1	23
82	Global loss of climatically suitable areas for durum wheat growth in the future. <i>Environmental Research Letters</i> , 2021, 16, 104049.	5.2	22
83	Short communication: Emergence of a new race of leaf rust with combined virulence to <i>Lr14a</i> and <i>Lr72</i> genes on durum wheat. <i>Spanish Journal of Agricultural Research</i> , 2016, 14, e10SC02.	0.6	21
84	Triticale and other small grain cereals for forage and grain in Mediterranean conditions. <i>Grass and Forage Science</i> , 1993, 48, 11-17.	2.9	20
85	Agronomical and morphological differentiation among winter and spring triticales. <i>Plant Breeding</i> , 1995, 114, 413-416.	1.9	19
86	Effect of Sowing Date and Cutting Stage on Yield and Quality of Irrigated Barley and Triticale Used for Forage and Grain. <i>Journal of Agronomy and Crop Science</i> , 1997, 179, 227-234.	3.5	19
87	Creation and Validation of the Spanish Durum Wheat Core Collection. <i>Crop Science</i> , 2013, 53, 2530-2537.	1.8	19
88	Wheat: A Crop in the Bottom of the Mediterranean Diet Pyramid. , 0, , .		19
89	Durum Wheat under Mediterranean Conditions as Affected by Seed Size. <i>Journal of Agronomy and Crop Science</i> , 2006, 192, 257-266.	3.5	18
90	Relationships among adaptation patterns, morphophysiological traits and molecular markers in durum wheat. <i>Plant Breeding</i> , 2009, 128, 164-171.	1.9	18

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91	Optimizing Winter Wheat Resilience to Climate Change in Rain Fed Crop Systems of Turkey and Iran. <i>Frontiers in Plant Science</i> , 2018, 9, 563.	3.6	18
92	Triticale and barley for grain and for dual-purpose (forage+grain) in a Mediterranean-type environment. II. Yield, yield components, and quality. <i>Australian Journal of Agricultural Research</i> , 1997, 48, 423.	1.5	18
93	Usefulness of remote sensing for the assessment of growth traits in individual cereal plants grown in the field. <i>International Journal of Remote Sensing</i> , 2007, 28, 2497-2512.	2.9	16
94	Effect of allele combinations at <i>Ppd-1</i> loci on durum wheat grain filling at contrasting latitudes. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 64-75.	3.5	16
95	Performance of the Two-Source Energy Balance (TSEB) Model as a Tool for Monitoring the Response of Durum Wheat to Drought by High-Throughput Field Phenotyping. <i>Frontiers in Plant Science</i> , 2021, 12, 658357.	3.6	15
96	Agronomic, Physiological and Genetic Changes Associated With Evolution, Migration and Modern Breeding in Durum Wheat. <i>Frontiers in Plant Science</i> , 2021, 12, 674470.	3.6	15
97	Use of potassium iodide to mimic drought stress in triticale. <i>Field Crops Research</i> , 1998, 59, 201-212.	5.1	14
98	Association of phytoene synthase <i>Psy1-A1</i> and <i>Psy1-B1</i> allelic variants with semolina yellowness in durum wheat ( <i>Triticum turgidum</i> L. var. durum). <i>Euphytica</i> , 2016, 207, 109-117.	1.2	14
99	Unravelling the relationship between adaptation pattern and yield formation strategies in Mediterranean durum wheat landraces. <i>European Journal of Agronomy</i> , 2019, 107, 43-52.	4.1	13
100	Triticale and barley for grain and for dual-purpose (forage+grain) in a Mediterranean-type environment. I. Growth analyses. <i>Australian Journal of Agricultural Research</i> , 1997, 48, 411.	1.5	12
101	Plant Recovery and Grain-Yield Formation in Barley and Triticale Following Forage Removal at Two Cutting Stages. <i>Journal of Agronomy and Crop Science</i> , 1999, 182, 175-184.	3.5	11
102	Yield and quality of winter and spring triticales for forage and grain. <i>Grass and Forage Science</i> , 1996, 51, 449-455.	2.9	10
103	Grain yield and yield components as affected by forage removal in winter and spring triticale. <i>Grass and Forage Science</i> , 1997, 52, 63-72.	2.9	10
104	Breeding effects on dry matter accumulation and partitioning in Spanish bread wheat during the 20th century. <i>Euphytica</i> , 2015, 203, 321-336.	1.2	10
105	Are the agronomic performance and grain quality characteristics of bread wheat Mediterranean landraces related to the climate prevalent in their area of origin?. <i>Journal of Cereal Science</i> , 2022, 105, 103478.	3.7	10
106	Field Measurements of Canopy Spectra for Biomass Assessment of Small-Grain Cereals. , 0, , .		9
107	The Effect of Photoperiod Genes and Flowering Time on Yield and Yield Stability in Durum Wheat. <i>Plants</i> , 2020, 9, 1723.	3.5	8
108	Phytoene synthase 1 ( <i>Psy-1</i> ) and lipoxygenase 1 ( <i>Lpx-1</i> ) Genes Influence on Semolina Yellowness in Wheat Mediterranean Germplasm. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4669.	4.1	8

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109	Likening Between the Effect of Drought and Terminal Water-stress Simulated by a Senescing Agent in Triticale. <i>Journal of Agronomy and Crop Science</i> , 1996, 176, 31-38.	3.5	7
110	Transcripts levels of Phytoene synthase 1 ( Psy-1 ) are associated to semolina yellowness variation in durum wheat ( <i>Triticum turgidum</i> L. ssp. durum ). <i>Journal of Cereal Science</i> , 2016, 68, 155-163.	3.7	7
111	Using Unmanned Aerial Vehicle and Ground-Based RGB Indices to Assess Agronomic Performance of Wheat Landraces and Cultivars in a Mediterranean-Type Environment. <i>Remote Sensing</i> , 2021, 13, 1187.	4.0	6
112	Labelling Selective Sweeps Used in Durum Wheat Breeding from a Diverse and Structured Panel of Landraces and Cultivars. <i>Biology</i> , 2021, 10, 258.	2.8	6
113	Effect of forage removal at the first detectable node stage on the growth of winter and spring triticale. <i>Grass and Forage Science</i> , 1996, 51, 170-179.	2.9	5
114	Effectiveness of Twenty-Four Barley Resistance Genes Against Powdery Mildew ( <i>Erysiphe graminis</i> DC f.) Tj ETQq0 0,0 rgBT /Qverlock 10	1.9	4
115	Hot Water Extracts in a Mutant Derived from the Barley Cultivar Troubadour. <i>Journal of Cereal Science</i> , 1993, 18, 69-74.	3.7	4
116	Grain yield, biomass and leaf area of triticale in response to sowing date and cutting stage in three contrasting Mediterranean environments. <i>Journal of Agricultural Science</i> , 1996, 126, 253-258.	1.3	3
117	Assessing genotypic variability for plant development in spring and winter triticale. <i>Cereal Research Communications</i> , 2001, 29, 359-366.	1.6	0
118	Physiology of Yield and Adaptation in Wheat and Barley Breeding. <i>Books in Soils, Plants, and the Environment</i> , 2004, , .	0.1	0