# Rong-Cai Yang

List of Publications by Year
in descending order



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|---|---|---|---|
| 84 papers | 1,872 citations | 257357 24 h-index | 302012 39 g-index |
| 85 all docs | 85 docs citations | 85 times ranked | 2002 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Biplot Analysis of Genotype Ã— Environment Interaction: Proceed with Caution. Crop Science, 2009, 49, 1564-1576. | 0.8 | 232 |
| 2 | A Comparison of Isozyme and Quantitative Genetic Variation in Pinus contorta ssp. latifolia by FST. Genetics, 1996, 142, 1045-1052. | 1.2 | 112 |
| 3 | Using Factor Analytic Models for Joining Environments and Genotypes without Crossover Genotype Ã— Environment Interaction. Crop Science, 2008, 48, 1291-1305. | 0.8 | 86 |
| 4 | Studying crossover genotype Ã— environment interaction using linear-bilinear models and mixed models. Journal of Agricultural, Biological, and Environmental Statistics, 2004, 9, 362-380. | 0.7 | 77 |
| 5 | QTLs associated with agronomic traits in the Attila Ã— CDC Go spring wheat population evaluated under conventional management. PLoS ONE, 2017, 12, e0171528. | 1.1 | 68 |
| 6 | Epistasis of Quantitative Trait Loci Under Different Gene Action Models. Genetics, 2004, 167, 1493-1505. | 1.2 | 58 |
| 7 | Genetic analysis of flowering and maturity time in high latitude spring wheat. Euphytica, 2007, 154, 207-218. | 0.6 | 55 |
| 8 | Should spring wheat breeding for organically managed systems be conducted on organically managed land?. Euphytica, 2009, 169, 239-252. | 0.6 | 52 |
| 9 | Estimating Hierarchical F-Statistics. Evolution; International Journal of Organic Evolution, 1998, 52, 950. | 1.1 | 50 |
| 10 | Realized gains from selection for spring wheat grain yield are different in conventional and organically managed systems. Euphytica, 2011, 177, 253-266. | 0.6 | 46 |
| 11 | Can Spring Wheat-Growing Megaenvironments in the Northern Great Plains Be Dissected for Representative Locations or Niche-Adapted Genotypes?. Crop Science, 2006, 46, 1107-1116. | 0.8 | 43 |
| 12 | Mixed-Model Analysis of Crossover Genotype-Environment Interactions. Crop Science, 2007, 47, 1051-1062. | 0.8 | 37 |
| 13 | Short Communication: First report of outcrossing rates in camelina [Camelina sativa (L.) Crantz], a potential platform for bioindustrial oils. Canadian Journal of Plant Science, 2012, 92, 681-685. | 0.3 | 37 |
| 14 | A LIKELIHOOD-BASED APPROACH TO ESTIMATING AND TESTING FOR ISOLATION BY DISTANCE. Evolution; International Journal of Organic Evolution, 2004, 58, 1839-1845. | 1.1 | 36 |
| 15 | Using Degree-Day and Logistic Models to Predict Emergence Patterns and Seasonal Flights of the Cabbage Maggot and Seed Corn Maggot (Diptera: Anthomyiidae) in Canola. Environmental Entomology, 2006, 35, 1166-1177. | 0.7 | 35 |
| 16 | Nucleotide divergence between populations of trembling aspen (Populus tremuloides) estimated with RAPDs. Current Genetics, 1994, 26, 374-376. | 0.8 | 33 |
| 17 | Genome-Wide Comparative Analysis of Flowering-Related Genes in Arabidopsis, Wheat, and Barley. International Journal of Plant Genomics, 2015, 2015, 1-17. | 2.2 | 30 |
| 18 | Mapping QTLs Controlling Agronomic Traits in the â€˜Attilaâ€™ Ã— â€˜CDC Goâ€™ Spring Wheat Population under Organic Management using 90K SNP Array. Crop Science, 2017, 57, 365-377. | 0.8 | 30 |

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|---|---|---|---|
| 19 | Genome-wide association mapping of genomic regions associated with phenotypic traits in Canadian western spring wheat. Molecular Breeding, 2017, 37, 1. | 1.0 | 30 |
| 20 | Likelihoodâ€Based Analysis of Genotypeâ€“Environment Interactions. Crop Science, 2002, 42, 1434-1440. | 0.8 | 28 |
| 21 | Integrating Spring Wheat Sowing Density with Variety Selection to Manage Wheat Stem Sawfly. Agronomy Journal, 2011, 103, 1755-1764. | 0.9 | 28 |
| 22 | Population structure of a lodgepole pine (Pinus contorta) and jack pine (P. banksiana) complex as revealed by random amplified polymorphic DNA. Genome, 2002, 45, 530-540. | 0.9 | 26 |
| 23 | Zygotic Associations and Multilocus Statistics in a Nonequilibrium Diploid Population. Genetics, 2000, 155, 1449-1458. | 1.2 | 25 |
| 24 | Efficiency of Spatial Analyses of Field Pea Variety Trials. Crop Science, 2004, 44, 49-55. | 0.8 | 24 |
| 25 | Exploitation of the late flowering species Brassica oleracea L. for the improvement of earliness in B. napus L.: an untraditional approach. Euphytica, 2011, 177, 365-374. | 0.6 | 24 |
| 26 | Relative performance of Canadian spring wheat cultivars under organic and conventional field conditions. Euphytica, 2014, 196, 13-24. | 0.6 | 24 |
| 27 | Influence of Seeding Rate, Nitrogen Management, and Micronutrient Blend Applications on Pith Expression in Solidâ€Stemmed Spring Wheat. Crop Science, 2012, 52, 1316-1329. | 0.8 | 23 |
| 28 | Rotation length, canola variety and herbicide resistance system affect weed populations and yield. Weed Science, 2006, 54, 726-734. | 0.8 | 22 |
| 29 | The Effect of Vernalization Genes on Earliness and Related Agronomic Traits of Spring Wheat in Northern Growing Regions. Crop Science, 2007, 47, 1031-1039. | 0.8 | 22 |
| 30 | Multiallelic models of genetic effects and variance decomposition in non-equilibrium populations. Genetica, 2011, 139, 1119-1134. | 0.5 | 22 |
| 31 | Earliness per se quantitative trait loci and their interaction with Vrn-B1 locus in a spring wheat population. Molecular Breeding, 2015, 35, 1. | 1.0 | 19 |
| 32 | Prediction and analysis of three gene families related to leaf rust (Puccinia triticina) resistance in wheat (Triticum aestivum L.). BMC Plant Biology, 2017, 17, 108. | 1.6 | 19 |
| 33 | Potential for seed-mediated gene flow in agroecosystems from transgenic safflower (Carthamus) Tj ETQq1 1 0.784314 rgBT /Overloc | 1.3 | 18 |
| 34 | Effect of Lr34/Yr18 on agronomic and quality traits in a spring wheat mapping population and implications for breeding. Molecular Breeding, 2016, 36, 1. | 1.0 | 18 |
| 35 | Analysis of Multilocus Zygotic Associations. Genetics, 2002, 161, 435-445. | 1.2 | 18 |
| 36 | Analysis of covariance in agronomy and crop research. Canadian Journal of Plant Science, 2011, 91, 621-641. | 0.3 | 16 |

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|---|---|---|---|
| 37 | A genetic examination of early flowering and maturity in Canadian spring wheat. Canadian Journal of Plant Science, 2006, 86, 995-1004. | 0.3 | 15 |
| 38 | The effect of VRN1 genes on important agronomic traits in highâ€yielding <scp>C</scp>anadian soft white spring wheat. Plant Breeding, 2014, 133, 321-326. | 1.0 | 15 |
| 39 | Investigating Genetic Progress and Variation for Nitrogen Use Efficiency in Spring Wheat. Crop Science, 2018, 58, 1542-1557. | 0.8 | 15 |
| 40 | Genetic Study and QTL Mapping of Seed Glucosinolate Content in Brassica rapa L.. Crop Science, 2014, 54, 537-543. | 0.8 | 14 |
| 41 | Using Degree-Day and Logistic Models to Predict Emergence Patterns and Seasonal Flights of the Cabbage Maggot and Seed Corn Maggot (Diptera: Anthomyiidae) in Canola. Environmental Entomology, 2006, 35, 1166-1177. | 0.7 | 14 |
| 42 | Pollen-mediated gene flow from transgenic safflower (CarthamustinctoriusL.) intended for plant molecular farming to conventional safflower. Environmental Biosafety Research, 2009, 8, 19-32. | 1.1 | 13 |
| 43 | Seed-Mediated Gene Flow in Wheat: Seed Bank Longevity in Western Canada. Weed Science, 2009, 57, 124-132. | 0.8 | 12 |
| 44 | Improved Statistical Inference for Graphical Description and Interpretation of Genotype Ã— Environment Interaction. Crop Science, 2013, 53, 2400-2410. | 0.8 | 12 |
| 45 | Analysis of linear and non-linear genotype Ãƒâ€” environment interaction. Frontiers in Genetics, 2014, 5, 227. | 1.1 | 11 |
| 46 | Genetic parameters of growth and adaptive traits in aspen (Populus tremuloides): Implications for tree breeding in a warming world. PLoS ONE, 2020, 15, e0229225. | 1.1 | 11 |
| 47 | Susceptibility of Pinus contorta - Pinus banksiana complex to Endocronartium harknessii: host-pathogen interactions. Canadian Journal of Botany, 1999, 77, 1035-1043. | 1.2 | 11 |
| 48 | Multilocus structure in thePinus contorta â€“ Pinus banksianacomplex. Canadian Journal of Botany, 2007, 85, 774-784. | 1.2 | 10 |
| 49 | Gametic and Zygotic Associations. Genetics, 2003, 165, 447-450. | 1.2 | 10 |
| 50 | Coevolution in Natural Pathosystems: Effects of Dominance on Host-Pathogen Interactions. Phytopathology, 2003, 93, 633-639. | 1.1 | 9 |
| 51 | A New Distribution-Free Approach to Constructing the Confidence Region for Multiple Parameters. PLoS ONE, 2013, 8, e81179. | 1.1 | 9 |
| 52 | Patterns of Heterosis in Three Distinct Inbred Populations of Spring Brassica napus Canola. Crop Science, 2016, 56, 2536-2545. | 0.8 | 9 |
| 53 | When Is Early Generation Selection Effective in Selfâ€Pollinated Crops?. Crop Science, 2009, 49, 2065-2079. | 0.8 | 8 |
| 54 | Persistence of Triticale Seed in the Soil Seed Bank. Crop Science, 2012, 52, 1868-1880. | 0.8 | 8 |

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|---|---|---|---|
| 55 | Pollenâ€Mediated Gene Flow in Triticale. Crop Science, 2012, 52, 2293-2303. | 0.8 | 8 |
| 56 | Bioinformatic prediction of transcription factor binding sites at promoter regions of genes for photoperiod and vernalization responses in model and temperate cereal plants. BMC Genomics, 2016, 17, 573. | 1.2 | 8 |
| 57 | Inferring defense-related gene families in Arabidopsis and wheat. BMC Genomics, 2017, 18, 980. | 1.2 | 8 |
| 58 | Potential of the C Genome of the Different Variants of Brassica oleracea for Heterosis in Spring B. napus Canola. Frontiers in Plant Science, 2019, 10, 1691. | 1.7 | 8 |
| 59 | Phenotypic performance and associated QTL of â€˜Peaceâ€™ Ã— â€˜CDC Stanleyâ€™ mapping population under conventional and organic management systems. Crop Science, 2021, 61, 3469-3483. | 0.8 | 8 |
| 60 | The effect of auxins on amelioration of heat stressâ€induced wheat (Triticum aestivum L.) grain loss. Journal of Agronomy and Crop Science, 2021, 207, 970-983. | 1.7 | 8 |
| 61 | Emergence and Persistence of Volunteer Flax in Western Canadian Cropping Systems. Agronomy Journal, 2010, 102, 1321-1328. | 0.9 | 7 |
| 62 | Genome-wide estimation of heritability and its functional components for flowering, defense, ionomics, and developmental traits in a geographically diverse population of Arabidopsis thaliana. Genome, 2017, 60, 572-580. | 0.9 | 7 |
| 63 | Potential of rutabaga ( Brassica napus var. napobrassica ) gene pool for use in the breeding of B. napus canola. Crop Science, 2020, 60, 157-171. | 0.8 | 7 |
| 64 | Potential of the C Genome of Different Variants of Brassica oleracea for the Improvement of Agronomic and Seed Quality Traits of B. napus Canola. Crop Science, 2019, 59, 2608-2620. | 0.8 | 7 |
| 65 | Quantification and Mitigation of Adventitious Presence of Volunteer Flax (Linum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 | 0.8 | 6 |
| 66 | Do Interactions between Residue Management and Direct Seeding System Affect Wheat Stem Sawfly and Grain Yield?. Agronomy Journal, 2011, 103, 1635-1644. | 0.9 | 6 |
| 67 | Genome-wide analysis of zygotic linkage disequilibrium and its components in crossbred cattle. BMC Genetics, 2012, 13, 65. | 2.7 | 6 |
| 68 | Marker-Based Estimation of Genetic Parameters in Genomics. PLoS ONE, 2014, 9, e102715. | 1.1 | 6 |
| 69 | Efficiency of Spatial Analyses of Field Pea Variety Trials. Crop Science, 2004, 44, 49. | 0.8 | 6 |
| 70 | Effects of Linkage and Epistasis on Intergeneration Correlations in Selfâ€Pollinated Species. Crop Science, 2008, 48, 2074-2085. | 0.8 | 4 |
| 71 | Tolerance of Spring Triticale (Ã— Triticosecale Wittmack) to Four Wheat Herbicides. Weed Technology, 2011, 25, 84-89. | 0.4 | 4 |
| 72 | Stability of genome-wide QTL effects on malt Î±-amylase activity in a barley doubled-haploid population. Euphytica, 2012, 188, 131-139. | 0.6 | 4 |

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|---|---|---|---|
| 73 | Clarifying the Relationship between Average Excesses and Average Effects of Allele Substitutions. Frontiers in Genetics, 2012, 3, 30. | 1.1 | 4 |
| 74 | Comparative assessment of genetic variation of young high-elevation lodgepole pine for height and western gall rust resistance across two sites in Alberta. Canadian Journal of Forest Research, 1998, 28, 478-484. | 0.8 | 3 |
| 75 | Detecting and estimating segregation distortion and linkage between glufosinate tolerance and blackleg resistance in Brassica napus L.. Euphytica, 2006, 148, 217-225. | 0.6 | 3 |
| 76 | Why is MIXED analysis underutilized. Canadian Journal of Plant Science, 2008, 88, 563-567. | 0.3 | 3 |
| 77 | There are Different Pathways to Stable Spring Wheat Grain Yield and Nitrogen Utilization Efficiency in Conventional and Organicallyâ€Managed Systems. Agronomy Journal, 2019, 111, 2370-2377. | 0.9 | 3 |
| 78 | Potential of rutabaga ( Brassica napus var. napobrassica ) gene pool for use in the breeding of hybrid spring Brassica napus canola. Plant Breeding, 2021, 140, 305-319. | 1.0 | 3 |
| 79 | A LIKELIHOOD-BASED APPROACH TO ESTIMATING AND TESTING FOR ISOLATION BY DISTANCE. Evolution; International Journal of Organic Evolution, 2004, 58, 1839. | 1.1 | 2 |
| 80 | Simulated Genetically Modified Triticale: Adventitious Presence from Volunteers in Four Cropping Systems. Crop Science, 2014, 54, 1087-1096. | 0.8 | 1 |
| 81 | One century later: dissecting genetic effects for looking over old paradigms. Frontiers in Genetics, 2014, 5, 396. | 1.1 | 1 |
| 82 | Detecting and estimating segregation distortion and linkage between glufosinate tolerance and blackleg resistance in Brassica napus L.. , 2006, 148, 217. | | 1 |
| 83 | Testing for nonlinear genotype Ã— environment interactions. Crop Science, 2020, 60, 3127-3140. | 0.8 | 0 |
| 84 | Direct Approach to Modeling Epistasis. Methods in Molecular Biology, 2015, 1253, 159-183. | 0.4 | 0 |