Kostya Kanyuka

List of Publications by Year
in descending order

64 papers	6,865 citations	117619 34 h-index	118840 62 g-index
73 all docs	73 docs citations	73 times ranked	7130 citing authors

#	Article	IF	Citations
1	Shifting the limits in wheat research and breeding using a fully annotated reference genome. Science, 2018, 361, .	12.6	2,424
2	The transcriptional landscape of polyploid wheat. Science, 2018, 361, .	12.6	768
3	Transcriptome and Metabolite Profiling of the Infection Cycle of <i>Zymoseptoria tritici</i> on Wheat Reveals a Biphasic Interaction with Plant Immunity Involving Differential Pathogen Chromosomal Contributions and a Variation on the Hemibiotrophic Lifestyle Definition Â. Plant Physiology, 2015, 167, 1158-1185.	4.8	301
4	Wheat receptor-kinase-like protein Stb6 controls gene-for-gene resistance to fungal pathogen Zymoseptoria tritici. Nature Genetics, 2018, 50, 368-374.	21.4	215
5	Loss of <i>AvrSr50</i> by somatic exchange in stem rust leads to virulence for <i>Sr50</i> resistance in wheat. Science, 2017, 358, 1607-1610.	12.6	206
6	<i>Barley Stripe Mosaic Virus</i><i>-</i>Mediated Tools for Investigating Gene Function in Cereal Plants and Their Pathogens: Virus-Induced Gene Silencing, Host-Mediated Gene Silencing, and Virus-Mediated Overexpression of Heterologous Protein. Plant Physiology, 2012, 160, 582-590.	4.8	161
7	Polymyxa graminis and the cereal viruses it transmits: a research challenge. Molecular Plant Pathology, 2003, 4, 393-406.	4.2	160
8	<i>Mycosphaerella graminicola</i> LysM Effector-Mediated Stealth Pathogenesis Subverts Recognition Through Both CERK1 and CEBiP Homologues in Wheat. Molecular Plant-Microbe Interactions, 2014, 27, 236-243.	2.6	152
9	A Metabolic Gene Cluster in the Wheat <i>W1</i> and the Barley <i>Cer-cqu</i> Loci Determines Î²-Diketone Biosynthesis and Glaucousness. Plant Cell, 2016, 28, 1440-1460.	6.6	123
10	GCN2-dependent phosphorylation of eukaryotic translation initiation factor-2Î± in Arabidopsis. Journal of Experimental Botany, 2008, 59, 3131-3141.	4.8	118
11	Evidence that the recessive bymovirus resistance locus rym4 in barley corresponds to the eukaryotic translation initiation factor 4E gene. Molecular Plant Pathology, 2005, 6, 449-458.	4.2	115
12	Mapping of the cyst nematode resistance locus Gpa2 in potato using a strategy based on comigrating AFLP markers. Theoretical and Applied Genetics, 1997, 95, 874-880.	3.6	109
13	Apoplastic recognition of multiple candidate effectors from the wheat pathogen <i>Zymoseptoria tritici</i> in the nonhost plant <i>Nicotiana benthamiana</i>. New Phytologist, 2017, 213, 338-350.	7.3	105
14	RNAi as an emerging approach to control Fusarium head blight disease and mycotoxin contamination in cereals. Pest Management Science, 2018, 74, 790-799.	3.4	103
15	Mutations in the huge Arabidopsis gene BIG affect a range of hormone and light responses. Plant Journal, 2003, 35, 57-70.	5.7	97
16	High-resolution genetical and physical mapping of the Rx gene for extreme resistance to potato virus X in tetraploid potato. Theoretical and Applied Genetics, 1997, 95, 153-162.	3.6	92
17	Cell surface immune receptors: the guardians of the plantâ€™s extracellular spaces. Current Opinion in Plant Biology, 2019, 50, 1-8.	7.1	91
18	<i>Foxtail mosaic virus</i>: A Viral Vector for Protein Expression in Cereals. Plant Physiology, 2018, 177, 1352-1367.	4.8	85

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19	A roadmap for gene functional characterisation in crops with large genomes: Lessons from polyploid wheat. ELife, 2020, 9, .	6.0	78
20	Virus induced gene silencing (VIGS) for functional analysis of wheat genes involved in Zymoseptoria tritici susceptibility and resistance. Fungal Genetics and Biology, 2015, 79, 84-88.	2.1	77
21	Transient reprogramming of crop plants for agronomic performance. Nature Plants, 2021, 7, 159-171.	9.3	72
22	Genomics accelerated isolation of a new stem rust avirulence geneâ€“wheat resistance gene pair. Nature Plants, 2021, 7, 1220-1228.	9.3	67
23	High-resolution melting analysis of cDNA-derived PCR amplicons for rapid and cost-effective identification of novel alleles in barley. Theoretical and Applied Genetics, 2009, 119, 851-865.	3.6	63
24	Characterization of an antimicrobial and phytotoxic ribonuclease secreted by the fungal wheat pathogen <i>Zymoseptoria tritici</i>. New Phytologist, 2018, 217, 320-331.	7.3	60
25	The ability of a bymovirus to overcome the rym4-mediated resistance in barley correlates with a codon change in the VPg coding region on RNA1. Journal of General Virology, 2003, 84, 2853-2859.	2.9	58
26	Plant Virus Particles Carrying Tumour Antigen Activate TLR7 and Induce High Levels of Protective Antibody. PLoS ONE, 2015, 10, e0118096.	2.5	58
27	DArT markers: diversity analyses, genomes comparison, mapping and integration with SSR markers in Triticum monococcum. BMC Genomics, 2009, 10, 458.	2.8	55
28	A new proteinaceous pathogenâ€associated molecular pattern (<scp>PAMP</scp>) identified in Ascomycete fungi induces cell death in Solanaceae. New Phytologist, 2017, 214, 1657-1672.	7.3	55
29	sRNA Profiling Combined With Gene Function Analysis Reveals a Lack of Evidence for Cross-Kingdom RNAi in the Wheat â€“ Zymoseptoria tritici Pathosystem. Frontiers in Plant Science, 2019, 10, 892.	3.6	51
30	An exceptionally high nucleotide and haplotype diversity and a signature of positive selection for the eIF4E resistance gene in barley are revealed by allele mining and phylogenetic analyses of natural populations. Molecular Ecology, 2011, 20, no-no.	3.9	48
31	G-protein Î±-subunit (GPA1) regulates stress, nitrate and phosphate response, flavonoid biosynthesis, fruit/seed development and substantially shares GCR1 regulation in A. thaliana. Plant Molecular Biology, 2015, 89, 559-576.	3.9	47
32	Dissecting the Molecular Interactions between Wheat and the Fungal Pathogen Zymoseptoria tritici. Frontiers in Plant Science, 2016, 7, 508.	3.6	45
33	The use of conventional and quantitative realâ€time PCR assays for Polymyxa graminis to examine host plant resistance, inoculum levels and intraspecific variation. New Phytologist, 2005, 165, 875-885.	7.3	39
34	Identification of variation in adaptively important traits and genome-wide analysis of traitâ€“marker associations in Triticum monococcum. Journal of Experimental Botany, 2007, 58, 3749-3764.	4.8	39
35	The genome of the emerging barley pathogen Ramularia collo-cygni. BMC Genomics, 2016, 17, 584.	2.8	36
36	The Sbm1 locus conferring resistance to Soil-borne cereal mosaic virus maps to a gene-rich region on 5DL in wheat. Genome, 2006, 49, 1140-1148.	2.0	34

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37	Transcriptome Analysis of Arabidopsis GCR1 Mutant Reveals Its Roles in Stress, Hormones, Secondary Metabolism and Phosphate Starvation. PLoS ONE, 2015, 10, e0117819.	2.5	32
38	Mapping of intra-locus duplications and introgressed DNA: aids to map-based cloning of genes from complex genomes illustrated by physical analysis of the Rx locus in tetraploid potato. Theoretical and Applied Genetics, 1999, 98, 679-689.	3.6	30
39	A controlled environment test for resistance to Soil-borne cereal mosaic virus (SBCMV) and its use to determine the mode of inheritance of resistance in wheat cv. Cadenza and for screening Triticum monococcum genotypes for sources of SBCMV resistance. Plant Pathology, 2004, 53, 154-160.	2.4	30
40	The putative RNA replicase of potato virus M: Obvious sequence similarity with potex- and tymoviruses. Virology, 1990, 179, 911-914.	2.4	28
41	Mapping and diagnostic marker development for Soil-borne cereal mosaic virus resistance in bread wheat. Molecular Breeding, 2009, 23, 641-653.	2.1	28
42	Deregulation of Plant Cell Death Through Disruption of Chloroplast Functionality Affects Asexual Sporulation of <i>Zymoseptoria tritici</i> on Wheat. Molecular Plant-Microbe Interactions, 2015, 28, 590-604.	2.6	27
43	GCR1 and GPA1 coupling regulates nitrate, cell wall, immunity and light responses in Arabidopsis. Scientific Reports, 2019, 9, 5838.	3.3	23
44	WAKsing plant immunity, waning diseases. Journal of Experimental Botany, 2022, 73, 22-37.	4.8	23
45	A higher plant seven-transmembrane receptor that influences sensitivity to cytokinins. Current Biology, 2001, 11, 535.	3.9	22
46	Remarkable recent changes in the genetic diversity of the avirulence gene <i>AvrStb6</i> in global populations of the wheat pathogen <i>Zymoseptoria tritici</i>. Molecular Plant Pathology, 2021, 22, 1121-1133.	4.2	22
47	Sequence diversification in recessive alleles of two host factor genes suggests adaptive selection for bymovirus resistance in cultivated barley from East Asia. Theoretical and Applied Genetics, 2017, 130, 331-344.	3.6	21
48	FANCM promotes class I interfering crossovers and suppresses class II non-interfering crossovers in wheat meiosis. Nature Communications, 2022, 13, .	12.8	21
49	Genetic analyses of BaMMV/BaYMV resistance in barley accession HOR4224 result in the identification of an allele of the translation initiation factor 4e (Hv-eIF4E) exclusively effective against Barley mild mosaic virus (BaMMV). Theoretical and Applied Genetics, 2014, 127, 1061-1071.	3.6	18
50	Functionality of resistance gene Hero, which controls plant root-infecting potato cyst nematodes, in leaves of tomato. Plant, Cell and Environment, 2006, 29, 1372-1378.	5.7	16
51	Functional analysis of a <scp>W</scp>heat <scp>H</scp>omeodomain protein, <scp><scp>TaR1</scp></scp>, reveals that host chromatin remodelling influences the dynamics of the switch to necrotrophic growth in the phytopathogenic fungus <i><scp>Z</scp>ymoseptoria tritici</i>. New Phytologist, 2015, 206, 598-605.	7.3	16
52	Efficient CRISPR/Cas-Mediated Targeted Mutagenesis in Spring and Winter Wheat Varieties. Plants, 2021, 10, 1481.	3.5	12
53	Virus-Mediated Transient Expression Techniques Enable Gene Function Studies in Black-Grass. Plant Physiology, 2020, 183, 455-459.	4.8	11
54	Identification and Characterization of a Novel Efficient Resistance Response to the Furoviruses SBWMV and SBCMV in Barley. Molecular Plant-Microbe Interactions, 2008, 21, 1193-1204.	2.6	10

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55	In Planta Transient Expression Systems for Monocots. , 2015, , 391-422.		8
56	A Cytological Analysis of Wheat Meiosis Targeted by Virus-Induced Gene Silencing (VIGS). Methods in Molecular Biology, 2020, 2061, 319-330.	0.9	8
57	Inactivation of plant infecting fungal and viral pathogens to achieve biological containment in drainage water using UV treatment. Journal of Applied Microbiology, 2011, 110, 675-687.	3.1	7
58	The vesicular trafficking system component MIN7 is required for minimizing <i>Fusarium graminearum</i> infection. Journal of Experimental Botany, 2021, 72, 5010-5023.	4.8	7
59	The rise of necrotrophic effectors. New Phytologist, 2022, 233, 11-14.	7.3	7
60	Characterization of Two Unusual Features of Resistance to <i>Soilborne cereal mosaic virus</i> in Hexaploid Wheat: Leakiness and Gradual Elimination of Viral Coat Protein from Infected Root Tissues. Molecular Plant-Microbe Interactions, 2009, 22, 560-574.	2.6	6
61	Exploring the diversity of promoter and 5â€²UTR sequences in ancestral, historic and modern wheat. Plant Biotechnology Journal, 2021, 19, 2469-2487.	8.3	4
62	Investigation of soilborne mosaic virus diseases transmitted by Polymyxa graminis in cereal production areas of the Anatolian part of Turkey. European Journal of Plant Pathology, 2011, 130, 59-72.	1.7	3
63	Virus-Induced Gene Silencing in Wheat and Related Monocot Species. Methods in Molecular Biology, 2022, 2408, 95-107.	0.9	1
64	Can Biotechnology and Genomics Offer Better Routes to Crop Protection?. Outlooks on Pest Management, 2004, 15, 217-221.	0.2	0