

Ajay Kohli

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,561
citations

136950

32
h-index

155660

55
g-index

67
all docs

67
docs citations

67
times ranked

5114
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle bombardment and the genetic enhancement of crops: myths and realities. <i>Molecular Breeding</i> , 2005, 15, 305-327.	2.1	291
2	Transgene organization in rice engineered through direct DNA transfer supports a two-phase integration mechanism mediated by the establishment of integration hot spots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 7203-7208.	7.1	262
3	Recent developments and future prospects in insect pest control in transgenic crops. <i>Trends in Plant Science</i> , 2006, 11, 302-308.	8.8	251
4	Contrapuntal role of ABA: Does it mediate stress tolerance or plant growth retardation under long-term drought stress?. <i>Gene</i> , 2012, 506, 265-273.	2.2	250
5	Transgene integration, organization and interaction in plants. <i>Plant Molecular Biology</i> , 2003, 52, 247-258.	3.9	241
6	Exploring Jasmonates in the Hormonal Network of Drought and Salinity Responses. <i>Frontiers in Plant Science</i> , 2015, 6, 1077.	3.6	221
7	The phytohormone crosstalk paradigm takes center stage in understanding how plants respond to abiotic stresses. <i>Plant Cell Reports</i> , 2013, 32, 945-957.	5.6	218
8	Linear transgene constructs lacking vector backbone sequences generate low-copy-number transgenic plants with simple integration patterns. <i>Transgenic Research</i> , 2000, 9, 11-19.	2.4	194
9	Drought Resistance Improvement in Rice: An Integrated Genetic and Resource Management Strategy. <i>Plant Production Science</i> , 2011, 14, 1-14.	2.0	192
10	Rice Resistance to Planthoppers and Leafhoppers. <i>Critical Reviews in Plant Sciences</i> , 2013, 32, 162-191.	5.7	179
11	Molecular characterization of transforming plasmid rearrangements in transgenic rice reveals a recombination hotspot in the CaMV 35S promoter and confirms the predominance of microhomology mediated recombination. <i>Plant Journal</i> , 1999, 17, 591-601.	5.7	177
12	Drought susceptibility of modern rice varieties: an effect of linkage of drought tolerance with undesirable traits. <i>Scientific Reports</i> , 2015, 5, 14799.	3.3	145
13	Transgene expression in rice engineered through particle bombardment: molecular factors controlling stable expression and transgene silencing. <i>Planta</i> , 1999, 208, 88-97.	3.2	139
14	Expression of an engineered cysteine proteinase inhibitor (Oryzacystatin-I ¹ D86) for nematode resistance in transgenic rice plants. <i>Theoretical and Applied Genetics</i> , 1998, 96, 266-271.	3.6	130
15	New plant breeding technologies for food security. <i>Science</i> , 2019, 363, 1390-1391.	12.6	125
16	High-throughput localization of functional elements by quantitative chromatin profiling. <i>Nature Methods</i> , 2004, 1, 219-225.	19.0	123
17	Matrix attachment regions increase transgene expression levels and stability in transgenic rice plants and their progeny. <i>Plant Journal</i> , 1999, 18, 233-242.	5.7	93
18	Genetic Advances in Adapting Rice to a Rapidly Changing Climate. <i>Journal of Agronomy and Crop Science</i> , 2012, 198, 360-373.	3.5	84

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19	Particle-bombardment-mediated co-transformation of elite Chinese rice cultivars with genes conferring resistance to bacterial blight and sap-sucking insect pests. <i>Planta</i> , 1999, 208, 552-563.	3.2	80
20	The green fluorescent protein (GFP) as a vital screenable marker in rice transformation. <i>Theoretical and Applied Genetics</i> , 1998, 96, 164-169.	3.6	79
21	Transformation of Plants with Multiple Cassettes Generates Simple Transgene Integration Patterns and High Expression Levels. <i>Molecular Breeding</i> , 2005, 16, 247-260.	2.1	71
22	Physiological and Proteomic Analysis of the Rice Mutant <i>cpm2</i> Suggests a Negative Regulatory Role of Jasmonic Acid in Drought Tolerance. <i>Frontiers in Plant Science</i> , 2017, 8, 1903.	3.6	71
23	Cereal flag leaf adaptations for grain yield under drought: knowledge status and gaps. <i>Molecular Breeding</i> , 2013, 31, 749-766.	2.1	70
24	A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. <i>Mass Spectrometry Reviews</i> , 2013, 32, 335-365.	5.4	70
25	The Quest to Understand the Basis and Mechanisms that Control Expression of Introduced Transgenes in Crop Plants. <i>Plant Signaling and Behavior</i> , 2006, 1, 185-195.	2.4	61
26	Transposon Insertional Mutagenesis in Rice. <i>Plant Physiology</i> , 2001, 125, 1175-1177.	4.8	58
27	Action of multiple intra-QTL genes concerted around a co-localized transcription factor underpins a large effect QTL. <i>Scientific Reports</i> , 2015, 5, 15183.	3.3	58
28	Narrow genetic and apparent phenetic diversity in <i>Jatropha curcas</i> : initial success with generating low phorbol ester interspecific hybrids. <i>Nature Precedings</i> , 0, , .	0.1	46
29	Root proteases: reinforced links between nitrogen uptake and mobilization and drought tolerance. <i>Physiologia Plantarum</i> , 2012, 145, 165-179.	5.2	45
30	Crop seed oil bodies: From challenges in protein identification to an emerging picture of the oil body proteome. <i>Proteomics</i> , 2013, 13, 1836-1849.	2.2	45
31	Reference genes for accurate gene expression analyses across different tissues, developmental stages and genotypes in rice for drought tolerance. <i>Rice</i> , 2016, 9, 32.	4.0	45
32	<i>Jatropha curcas</i> oil body proteome and oleosins: L-form <i>JcOle3</i> as a potential phylogenetic marker. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 352-356.	5.8	39
33	Variation in primary metabolites in parental and near-isogenic lines of the QTL <i>qDTY 12.1</i> : altered roots and flag leaves but similar spikelets of rice under drought. <i>Molecular Breeding</i> , 2015, 35, 138.	2.1	35
34	Alternative silencing effects involve distinct types of non-spreading cytosine methylation at a three-gene, single-copy transgenic locus in rice. <i>Molecular Genetics and Genomics</i> , 2000, 263, 106-118.	2.4	33
35	Rice Seed Germination Underwater: Morpho-Physiological Responses and the Bases of Differential Expression of Alcoholic Fermentation Enzymes. <i>Frontiers in Plant Science</i> , 2017, 8, 1857.	3.6	32
36	Proteomic insights into the role of the large-effect QTL <i>qDTY 12.1</i> for rice yield under drought. <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	30

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37	Identification of a 49-bp fragment of the HvLTP2 promoter directing aleurone cell specific expression. <i>Gene</i> , 2004, 341, 49-58.	2.2	27
38	Transgene Integration, Expression and Stability in Plants: Strategies for Improvements. , 2010, , 201-237.		24
39	Foreign DNA: Integration and Expression in Transgenic Plants. , 2002, 24, 107-136.		22
40	Protein SUMOylation and plant abiotic stress signaling: in silico case study of rice RLKs, heat-shock and Ca ²⁺ -binding proteins. <i>Plant Cell Reports</i> , 2013, 32, 1053-1065.	5.6	21
41	Systems-based rice improvement approaches for sustainable food and nutritional security. <i>Plant Cell Reports</i> , 2021, 40, 2021-2036.	5.6	19
42	Photosynthesis research: a model to bridge fundamental science, translational products, and socio-economic considerations in agriculture. <i>Journal of Experimental Botany</i> , 2020, 71, 2281-2298.	4.8	17
43	Trans-Disciplinary Responses to Climate Change: Lessons from Rice-Based Systems in Asia. <i>Climate</i> , 2020, 8, 35.	2.8	15
44	Stable transgenes bear fruit. <i>Nature Biotechnology</i> , 2008, 26, 653-654.	17.5	14
45	Comparative Transcriptomics and Co-Expression Networks Reveal Tissue- and Genotype-Specific Responses of qDTYs to Reproductive-Stage Drought Stress in Rice (<i>Oryza sativa</i> L.). <i>Genes</i> , 2020, 11, 1124.	2.4	13
46	Genetic factors enhancing seed longevity in tropical japonica rice. <i>Current Plant Biology</i> , 2021, 26, 100196.	4.7	13
47	Steady agronomic and genetic interventions are essential for sustaining productivity in intensive rice cropping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
48	Dedifferentiation-mediated changes in transposition behavior make the Activator transposon an ideal tool for functional genomics in rice. <i>Molecular Breeding</i> , 2004, 13, 177-191.	2.1	10
49	Comparative whole genome re-sequencing analysis in upland New Rice for Africa: insights into the breeding history and respective genome compositions. <i>Rice</i> , 2018, 11, 33.	4.0	9
50	Sustainable agriculture for health and prosperity: stakeholders'™ roles, legitimacy and <i>modus operandi</i>. <i>Development in Practice</i> , 2020, 30, 965-971.	1.3	9
51	Plant proteomics in India and Nepal: current status and challenges ahead. <i>Physiology and Molecular Biology of Plants</i> , 2013, 19, 461-477.	3.1	7
52	Advanced Strategic Research to Promote the Use of Rice Genetic Resources. <i>Agronomy</i> , 2020, 10, 1629.	3.0	7
53	Rice Protoplast Isolation and Transfection for Transient Gene Expression Analysis. <i>Methods in Molecular Biology</i> , 2021, 2238, 313-324.	0.9	7
54	Proteomic Perspectives on Understanding and Improving <i>Jatropha curcas</i> L. , 2013, , 375-391.		6

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55	Total Soluble Protein Extraction for Improved Proteomic Analysis of Transgenic Rice Plant Roots. <i>Methods in Molecular Biology</i> , 2016, 1385, 139-147.	0.9	5
56	Molecular Analyses of Transgenic Plants. <i>Methods in Molecular Biology</i> , 2016, 1385, 201-222.	0.9	5
57	RICE RESEARCH TO BREAK YIELD BARRIERS. <i>Cosmos</i> , 2015, 11, 37-54.	0.4	3
58	Harnessing protein posttranslational modifications for plant improvement. , 2020, , 385-401.		3
59	Cereal Root Proteomics for Complementing the Mechanistic Understanding of Plant Abiotic Stress Tolerance. , 2016, , 19-51.		2
60	Systems biology of crop improvement: Drought tolerance as a model to integrate molecular biology, physiology, and breeding. , 2020, , 209-231.		2
61	A drought-responsive rice amidohydrolase is the elusive plant guanine deaminase with the potential to modulate the epigenome. <i>Physiologia Plantarum</i> , 2021, 172, 1853-1866.	5.2	2
62	Translating the Genome for Translational Research: Proteomics in Agriculture. , 2015, , 247-264.		0
63	Genome-Scale Analysis of Hematopoietic Regulatory Sequences by Digital Analysis of Chromatin Structure.. <i>Blood</i> , 2004, 104, 4163-4163.	1.4	0
64	Scaling Climate-Smart Agriculture Through Interdisciplinary Research-for-Development: Learning from South and Southeast Asia's Rice-Based Systems. , 2021, , 1-16.		0
65	Scaling Climate-Smart Agriculture Through Interdisciplinary Research-for-Development: Learning from South and Southeast Asia's Rice-Based Systems. , 2021, , 1187-1202.		0