

Madan K Bhattacharyya

List of Publications by Year in descending order

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53
papers

5,529
citations

293460

24
h-index

223390

49
g-index

58
all docs

58
docs citations

58
times ranked

6993
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequence of the palaeopolyploid soybean. <i>Nature</i> , 2010, 463, 178-183.	13.7	3,854
2	Two Classes of Highly Similar Coiled Coil-Nucleotide Binding-Leucine Rich Repeat Genes Isolated from the Rps1-k Locus Encode Phytophthora Resistance in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 1035-1045.	1.4	133
3	Phylogenomic Analysis of a 55.1-kb 19-Gene Dataset Resolves a Monophyletic <i>Fusarium</i> that Includes the <i>Fusarium solani</i> Species Complex. <i>Phytopathology</i> , 2021, 111, 1064-1079.	1.1	107
4	Expression and evolution of the phosphoinositide-specific phospholipase C gene family in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2008, 46, 627-637.	2.8	106
5	The soybean-Phytophthora resistance locus Rps1-k encompasses coiled coil-nucleotide binding-leucine rich repeat-like genes and repetitive sequences. <i>BMC Plant Biology</i> , 2008, 8, 29.	1.6	100
6	Deletion of a Disease Resistance Nucleotide-Binding-Site Leucine-Rich- Repeat-like Sequence Is Associated With the Loss of the Phytophthora Resistance Gene Rps4 in Soybean. <i>Genetics</i> , 2004, 168, 2157-2167.	1.2	98
7	The Matrix Metalloproteinase Gene GmMMP2 Is Activated in Response to Pathogenic Infections in Soybean. <i>Plant Physiology</i> , 2001, 127, 1788-1797.	2.3	70
8	Systemic acquired resistance in soybean is regulated by two proteins, Orthologous to <i>Arabidopsis</i> NPR1. <i>BMC Plant Biology</i> , 2009, 9, 105.	1.6	68
9	A Novel Phytophthora sojae Resistance Rps12 Gene Mapped to a Genomic Region That Contains Several Rps Genes. <i>PLoS ONE</i> , 2017, 12, e0169950.	1.1	68
10	The <i>Fusarium virguliforme</i> Toxin FvTox1 Causes Foliar Sudden Death Syndrome-Like Symptoms in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 1179-1188.	1.4	66
11	High Resolution Genetic and Physical Mapping of Molecular Markers Linked to the Phytophthora Resistance Gene Rps1-k in Soybean. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 1035-1044.	1.4	63
12	Reduced variation in transgene expression from a binary vector with selectable markers at the right and left T-DNA borders. <i>Plant Journal</i> , 1994, 6, 957-968.	2.8	51
13	The Genome Sequence of the Fungal Pathogen <i>Fusarium virguliforme</i> That Causes Sudden Death Syndrome in Soybean. <i>PLoS ONE</i> , 2014, 9, e81832.	1.1	50
14	Genetic and Physical Mapping of Avr1a in <i>Phytophthora sojae</i> . <i>Genetics</i> , 2002, 160, 949-959.	1.2	47
15	Investigation of the <i>Fusarium virguliforme</i> fvto1 mutants revealed that the FvTox1 toxin is involved in foliar sudden death syndrome development in soybean. <i>Current Genetics</i> , 2013, 59, 107-117.	0.8	44
16	Excision of an Active CACTA-Like Transposable Element From DFR2 Causes Variegated Flowers in Soybean [<i>Glycine max</i> (L.) Merr.]. <i>Genetics</i> , 2010, 184, 53-63.	1.2	42
17	Expression of a Single-Chain Variable-Fragment Antibody Against a <i>Fusarium virguliforme</i> Toxin Peptide Enhances Tolerance to Sudden Death Syndrome in Transgenic Soybean Plants. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 817-824.	1.4	41
18	Enhanced Oleic Acid Content in the Soybean Mutant M23 Is Associated with the Deletion in the Fad2-1a Gene Encoding a Fatty Acid Desaturase. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2007, 84, 229-235.	0.8	39

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19	Analyses of the Xylem Sap Proteomes Identified Candidate <i>Fusarium virguliforme</i> Proteinacious Toxins. PLoS ONE, 2014, 9, e93667.	1.1	31
20	A copia-like retrotransposon Tgmr closely linked to the Rps1-k allele that confers race-specific resistance of soybean to <i>Phytophthora sojae</i> . Plant Molecular Biology, 1997, 34, 255-264.	2.0	30
21	Genetic architecture and evolution of the mating type locus in fusaria that cause soybean sudden death syndrome and bean root rot. Mycologia, 2014, 106, 686-697.	0.8	30
22	The plant immunity inducer pipecolic acid accumulates in the xylem sap and leaves of soybean seedlings following <i>Fusarium virguliforme</i> infection. Plant Science, 2016, 243, 105-114.	1.7	27
23	Segregation distortion in a region containing a male-sterility, female-sterility locus in soybean. Plant Science, 2012, 195, 151-156.	1.7	25
24	Arabidopsis nonhost resistance gene PSS1 confers immunity against an oomycete and a fungal pathogen but not a bacterial pathogen that cause diseases in soybean. BMC Plant Biology, 2012, 12, 87.	1.6	25
25	Quantitative trait loci underlying host responses of soybean to <i>Fusarium virguliforme</i> toxins that cause foliar sudden death syndrome. Theoretical and Applied Genetics, 2016, 129, 495-506.	1.8	25
26	Novel Sources of Partial Resistance against <i>Phytophthora sojae</i> in Soybean PI 399036. Crop Science, 2016, 56, 2322-2335.	0.8	23
27	Transcriptomic Study of the Soybean- <i>Fusarium virguliforme</i> Interaction Revealed a Novel Ankyrin-Repeat Containing Defense Gene, Expression of Whose during Infection Led to Enhanced Resistance to the Fungal Pathogen in Transgenic Soybean Plants. PLoS ONE, 2016, 11, e0163106.	1.1	22
28	Sequence based polymorphic (SBP) marker technology for targeted genomic regions: its application in generating a molecular map of the Arabidopsis thaliana genome. BMC Genomics, 2012, 13, 20.	1.2	20
29	Arabidopsis Novel Glycine-Rich Plasma Membrane PSS1 Protein Enhances Disease Resistance in Transgenic Soybean Plants. Plant Physiology, 2018, 176, 865-878.	2.3	17
30	Identification of candidate signaling genes including regulators of chromosome condensation 1 protein family differentially expressed in the soybean- <i>Phytophthora sojae</i> interaction. Theoretical and Applied Genetics, 2009, 118, 399-412.	1.8	13
31	A candidate male-fertility female-fertility gene tagged by the soybean endogenous transposon, Tgm9. Functional and Integrative Genomics, 2013, 13, 67-73.	1.4	13
32	Identification of a soybean rust resistance gene in PI 567104B. Theoretical and Applied Genetics, 2016, 129, 863-877.	1.8	13
33	Mapping of new quantitative trait loci for sudden death syndrome and soybean cyst nematode resistance in two soybean populations. Theoretical and Applied Genetics, 2018, 131, 1047-1062.	1.8	13
34	Overexpression of a plasma membrane protein generated broad-spectrum immunity in soybean. Plant Biotechnology Journal, 2021, 19, 502-516.	4.1	13
35	Identification of Highly Variable Supernumerary Chromosome Segments in an Asexual Pathogen. PLoS ONE, 2016, 11, e0158183.	1.1	12
36	Microfluidic device enabled quantitative time-lapse microscopic-photography for phenotyping vegetative and reproductive phases in <i>Fusarium virguliforme</i> , which is pathogenic to soybean. Scientific Reports, 2017, 7, 44365.	1.6	12

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37	Investigation of the <i>Fusarium virguliforme</i> Transcriptomes Induced during Infection of Soybean Roots Suggests that Enzymes with Hydrolytic Activities Could Play a Major Role in Root Necrosis. <i>PLoS ONE</i> , 2017, 12, e0169963.	1.1	11
38	Genome wide association study identifies novel single nucleotide polymorphic loci and candidate genes involved in soybean sudden death syndrome resistance. <i>PLoS ONE</i> , 2019, 14, e0212071.	1.1	11
39	Tightly linked <i>Rps12</i> and <i>Rps13</i> genes provide broad-spectrum <i>Phytophthora</i> resistance in soybean. <i>Scientific Reports</i> , 2021, 11, 16907.	1.6	11
40	Molecular Mapping of <i>D1</i> , <i>D2</i> and <i>ms5</i> Revealed Linkage between the Cotyledon Color Locus <i>D2</i> and the Male-Sterile Locus <i>ms5</i> in Soybean. <i>Plants</i> , 2013, 2, 441-454.	1.6	10
41	Humidity assay for studying plant-pathogen interactions in miniature controlled discrete humidity environments with good throughput. <i>Biomicrofluidics</i> , 2016, 10, 034108.	1.2	10
42	Interaction of <i>Phytophthora sojae</i> Effector <i>Avr1b</i> With E3 Ubiquitin Ligase <i>GmPUB1</i> Is Required for Recognition by Soybeans Carrying <i>Phytophthora</i> Resistance <i>Rps1-b</i> and <i>Rps1-k</i> Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 725571.	1.7	10
43	Study of the Interactions of <i>Fusarium virguliforme</i> Toxin <i>FvTox1</i> with Synthetic Peptides by Molecular Simulations and a Label-Free Biosensor. <i>Analytical Chemistry</i> , 2016, 88, 3024-3030.	3.2	8
44	<i>Arabidopsis non-host</i> resistance <i>PSS30</i> gene enhances broad-spectrum disease resistance in the soybean cultivar Williams 82. <i>Plant Journal</i> , 2021, 107, 1432-1446.	2.8	8
45	Transposon Tagging of a Male-Sterility, Female-Sterility Gene, <i>St8</i> , Revealed that the Meiotic <i>MER3</i> DNA Helicase Activity Is Essential for Fertility in Soybean. <i>PLoS ONE</i> , 2016, 11, e0150482.	1.1	8
46	Construction and characterization of a soybean yeast artificial chromosome library and identification of clones for the <i>Rps6</i> region. <i>Functional and Integrative Genomics</i> , 2003, 3, 153-159.	1.4	7
47	Identification of <i>Fusarium virguliforme</i> <i>FvTox1</i> -Interacting Synthetic Peptides for Enhancing Foliar Sudden Death Syndrome Resistance in Soybean. <i>PLoS ONE</i> , 2015, 10, e0145156.	1.1	7
48	The endogenous transposable element <i>Tgm9</i> is suitable for generating knockout mutants for functional analyses of soybean genes and genetic improvement in soybean. <i>PLoS ONE</i> , 2017, 12, e0180732.	1.1	7
49	A Robust and Rapid Candidate Gene Mapping Pipeline Based on M2 Populations. <i>Frontiers in Plant Science</i> , 2021, 12, 681816.	1.7	6
50	Map-based Cloning of Genes and QTLs in Soybean. , 2010, , 169-186.		2
51	Towards Understanding the Recognition and Signal Transduction Processes in the Soybean- <i>Phytophthora Sojae</i> Interaction. , 2001, , 227-239.		1
52	Plant pathogen spores grow in microfluidic droplets: A high-throughput approach to antifungal drug screening. , 2011, , .		0
53	Transposon-Based Functional Characterization of Soybean Genes. <i>Compendium of Plant Genomes</i> , 2017, , 183-192.	0.3	0