Narendra Tuteja

List of Publications by Year
in descending order

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62	15,332	159525 30	143943 57
papers	citations	h-index	g-index

63	63	63	15612
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reactive oxygen species and antioxidant machinery in abiotic stress tolerance in crop plants. Plant Physiology and Biochemistry, 2010, 48, 909-930.	2.8	8,238
2	Cold, salinity and drought stresses: An overview. Archives of Biochemistry and Biophysics, 2005, 444, 139-158.	1.4	2,295
3	Biofertilizers function as key player in sustainable agriculture by improving soil fertility, plant tolerance and crop productivity. Microbial Cell Factories, 2014, 13, 66.	1.9	747
4	Abscisic Acid and Abiotic Stress Signaling. Plant Signaling and Behavior, 2007, 2, 135-138.	1.2	715
5	Mechanisms of High Salinity Tolerance in Plants. Methods in Enzymology, 2007, 428, 419-438.	0.4	585
6	Piriformospora indica: Potential and Significance in Plant Stress Tolerance. Frontiers in Microbiology, 2016, 7, 332.	1.5	272
7	Pea DNA helicase 45 overexpression in tobacco confers high salinity tolerance without affecting yield. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 509-514.	3.3	216
8	Antioxidant enzyme activities in maize plants colonized with Piriformospora indica. Microbiology (United Kingdom), 2009, 155, 780-790.	0.7	214
9	The CRISPR/Cas Genome-Editing Tool: Application in Improvement of Crops. Frontiers in Plant Science, 2016, 7, 506.	1.7	196
10	Prokaryotic and eukaryotic DNA helicases. Essential molecular motor proteins for cellular machinery. FEBS Journal, 2004, 271, 1835-1848.	0.2	139
11	<scp>O</scp>s<scp>SUV</scp>3 dual helicase functions in salinity stress tolerance by maintaining photosynthesis and antioxidant machinery in rice (<scp>O</scp>ryza sativaÂL. cv.) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	3.3	134
12	Piriformospora indicaÂrescues growth diminution of rice seedlings during high salt stress. Plant Signaling and Behavior, 2013, 8, e26891.	1.2	130
13	Stress responsive DEAD-box helicases: A new pathway to engineer plant stress tolerance. Journal of Photochemistry and Photobiology B: Biology, 2006, 84, 150-160.	1.7	126
14	Genome-wide analysis of helicase gene family from rice and Arabidopsis: a comparison with yeast and human. Plant Molecular Biology, 2010, 73, 449-465.	2.0	86
15	A DNA helicase from Pisum sativum is homologous to translation initiation factor and stimulates topoisomerase I activity. Plant Journal, 2000, 24, 219-229.	2.8	82
16	Phenotypic and molecular characterisation of efficient nitrogen-fixing Azotobacter strains from rice fields for crop improvement. Protoplasma, 2014, 251, 511-523.	1.0	80
17	A DESD-box helicase functions in salinity stress tolerance by improving photosynthesis and antioxidant machinery in rice (Oryza sativa L. cv. PB1). Plant Molecular Biology, 2013, 82, 1-22.	2.0	79
18	Pea p68, a DEAD-Box Helicase, Provides Salinity Stress Tolerance in Transgenic Tobacco by Reducing Oxidative Stress and Improving Photosynthesis Machinery. PLoS ONE, 2014, 9, e98287.	1.1	65

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19	Over-expression of a DEAD-box helicase, PDH45, confers both seedling and reproductive stage salinity tolerance to rice (Oryza sativa L.). Molecular Breeding, 2012, 30, 345-354.	1.0	61
20	Pea lectin receptor-like kinase functions in salinity adaptation without yield penalty, by alleviating osmotic and ionic stresses and upregulating stress-responsive genes. Plant Molecular Biology, 2015, 88, 193-206.	2.0	58
21	Function of heterotrimeric G-protein Î³ subunit RGG1 in providing salinity stress tolerance in rice by elevating detoxification of ROS. Planta, 2017, 245, 367-383.	1.6	51
22	Plant DNA helicases: the long unwinding road. Journal of Experimental Botany, 2003, 54, 2201-2214.	2.4	49
23	Development of Agrobacterium-mediated transformation technology for mature seed-derived callus tissues of indica rice cultivar IR64. GM Crops and Food, 2012, 3, 123-128.	2.0	49
24	PDH45 transgenic rice maintain cell viability through lower accumulation of Na+, ROS and calcium homeostasis in roots under salinity stress. Journal of Plant Physiology, 2016, 191, 1-11.	1.6	46
25	A novelAzotobacter vinellandii(SRIAz3) functions in salinity stress tolerance in rice. Plant Signaling and Behavior, 2014, 9, e29377.	1.2	41
26	Pea DNA helicase 45 promotes salinity stress tolerance in IR64 rice with improved yield. Plant Signaling and Behavior, 2012, 7, 1042-1046.	1.2	40
27	Field performance of bacterial inoculants to alleviate water stress effects in wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	38
28	OsSUV3 transgenic rice maintains higher endogenous levels of plant hormones that mitigates adverse effects of salinity and sustains crop productivity. Rice, 2014, 7, 17.	1.7	35
29	Emergence of plant and rhizospheric microbiota as stable interactomes. Protoplasma, 2017, 254, 617-626.	1.0	34
30	Structure of RNA-interacting Cyclophilin A-like protein from Piriformospora indica that provides salinity-stress tolerance in plants. Scientific Reports, 2013, 3, 3001.	1.6	33
31	Assessing zygosity in progeny of transgenic plants: current methods and perspectives. Journal of Biological Methods, 2016, 3, e46.	1.0	32
32	Helicases as molecular motors: An insight. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 70-83.	1.2	24
33	Pisum sativum p68 DEAD-box protein is ATP-dependent RNA helicase and unique bipolar DNA helicase. Plant Molecular Biology, 2014, 85, 639-651.	2.0	23
34	Rice lectin receptorâ€like kinase provides salinity tolerance by ion homeostasis. Biotechnology and Bioengineering, 2020, 117, 498-510.	1.7	23
35	Emerging Importance of Helicases in Plant Stress Tolerance: Characterization of Oryza sativa Repair Helicase XPB2 Promoter and Its Functional Validation in Tobacco under Multiple Stresses. Frontiers in Plant Science, 2015, 6, 1094.	1.7	22
36	Pea p68 Imparts Salinity Stress Tolerance in Rice by Scavenging of ROS-Mediated H2O2 and Interacts with Argonaute. Plant Molecular Biology Reporter, 2015, 33, 221-238.	1.0	21

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37	Genetic engineering of crops: a ray of hope for enhanced food security. Plant Signaling and Behavior, 2014, 9, e28545.	1.2	19
38	Prediction and validation of cis-regulatory elements in 5â€² upstream regulatory regions of lectin receptor-like kinase gene family in rice. Protoplasma, 2017, 254, 669-684.	1.0	19
39	Marker-free transgenic rice plant overexpressing pea LecRLK imparts salinity tolerance by inhibiting sodium accumulation. Plant Molecular Biology, 2019, 99, 265-281.	2.0	18
40	Isolation and functional characterization of the promoter of a DEAD-box helicasePsp68usingAgrobacterium-mediated transient assay. Plant Signaling and Behavior, 2014, 9, e28992.	1.2	16
41	Salt tolerant SUV3 overexpressing transgenic rice plants conserve physicochemical properties and microbial communities of rhizosphere. Chemosphere, 2015, 119, 1040-1047.	4.2	15
42	Concurrent overexpression of rice G-protein Î² and Î³ subunits provide enhanced tolerance to sheath blight disease and abiotic stress in rice. Planta, 2019, 250, 1505-1520.	1.6	15
43	Stress-induced Oryza sativa BAT1 dual helicase exhibits unique bipolar translocation. Protoplasma, 2015, 252, 1563-1574.	1.0	13
44	Ectopic expression of phloem motor protein pea forisome PsSEO-F1 enhances salinity stress tolerance in tobacco. Plant Cell Reports, 2016, 35, 1021-1041.	2.8	13
45	Synergistic inoculation of Azotobacter vinelandii and Serendipita indica augmented rice growth. Symbiosis, 2020, 81, 139-148.	1.2	13
46	OsBAT1 Augments Salinity Stress Tolerance by Enhancing Detoxification of ROS and Expression of Stress-Responsive Genes in Transgenic Rice. Plant Molecular Biology Reporter, 2015, 33, 1192-1209.	1.0	12
47	Stress-induced Oryza sativa RuvBL1a is DNA-independent ATPase and unwinds DNA duplex in 3â€² to 5â€² direction. Protoplasma, 2018, 255, 669-684.	1.0	12
48	Salicylic acid modulates ACS, NHX1, sos1 and HKT1;2 expression to regulate ethylene overproduction and Na⁺ions toxicity that leads to improved physiological status and enhanced salinity stress tolerance in tomato plants cv. Pusa Ruby. Plant Signaling and Behavior, 2021, 16, 1950888.	1.2	12
49	Rice SUV3 is a bidirectional helicase that binds both DNA and RNA. BMC Plant Biology, 2014, 14, 283.	1.6	10
50	Simultaneous Expression of PDH45 with EPSPS Gene Improves Salinity and Herbicide Tolerance in Transgenic Tobacco Plants. Frontiers in Plant Science, 2017, 8, 364.	1.7	10
51	Pea p68, a DEAD-box helicase, enhances salt tolerance in marker-free transgenic plants of soybean [Glycine max (L.) Merrill]. 3 Biotech, 2019, 9, 10.	1.1	9
52	OsSUV3 functions in cadmium and zinc stress tolerance in rice (Oryza sativaL. cv IR64). Plant Signaling and Behavior, 2014, 9, e27389.	1.2	8
53	Overexpression of PDH45 or SUV3 helicases in rice leads to delayed leaf senescence-associated events. Protoplasma, 2017, 254, 1103-1113.	1.0	8
54	Azotobacter vinelandii helps to combat chromium stress in rice by maintaining antioxidant machinery. 3 Biotech, 2021, 11, 275.	1.1	8

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55	Response ofPiCypAtobacco T2 transgenic matured plant to potential tolerance to salinity stress. Plant Signaling and Behavior, 2014, 9, e27538.	1.2	6
56	Cyanide produced with ethylene by ACS and its incomplete detoxification by Î²-CAS in mango inflorescence leads to malformation. Scientific Reports, 2019, 9, 18361.	1.6	6
57	In planta transformation: A smart way of crop improvement. , 2020, , 351-362.		5
58	Role of Plant Helicases in Imparting Salinity Stress Tolerance to Plants. , 2019, , 39-52.		4
59	Marker-Free Rice (Oryza sativa L. cv. IR 64) Overexpressing PDH45 Gene Confers Salinity Tolerance by Maintaining Photosynthesis and Antioxidant Machinery. Antioxidants, 2022, 11, 770.	2.2	3
60	Helicases and Their Importance in Abiotic Stresses. , 2018, , 119-141.		1
61	DNA Helicase-Mediated Abiotic Stress Tolerance in Plants. , 2018, , 103-115.		1
62	Transgenic approach in crop improvement. , 2020, , 329-350.		0