

Narendra Tuteja

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

15,332
citations

159358

30
h-index

143772

57
g-index

63
all docs

63
docs citations

63
times ranked

15612
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive oxygen species and antioxidant machinery in abiotic stress tolerance in crop plants. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 909-930.	2.8	8,238
2	Cold, salinity and drought stresses: An overview. <i>Archives of Biochemistry and Biophysics</i> , 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. <i>Microbial Cell Factories</i> , 2014, 13, 66.	1.9	747
4	Abscisic Acid and Abiotic Stress Signaling. <i>Plant Signaling and Behavior</i> , 2007, 2, 135-138.	1.2	715
5	Mechanisms of High Salinity Tolerance in Plants. <i>Methods in Enzymology</i> , 2007, 428, 419-438.	0.4	585
6	<i>Piriformospora indica</i> : Potential and Significance in Plant Stress Tolerance. <i>Frontiers in Microbiology</i> , 2016, 7, 332.	1.5	272
7	Pea DNA helicase 45 overexpression in tobacco confers high salinity tolerance without affecting yield. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 509-514.	3.3	216
8	Antioxidant enzyme activities in maize plants colonized with <i>Piriformospora indica</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 780-790.	0.7	214
9	The CRISPR/Cas Genome-Editing Tool: Application in Improvement of Crops. <i>Frontiers in Plant Science</i> , 2016, 7, 506.	1.7	196
10	Prokaryotic and eukaryotic DNA helicases. Essential molecular motor proteins for cellular machinery. <i>FEBS Journal</i> , 2004, 271, 1835-1848.	0.2	139
11	<sc>O</sc>s<sc>SUV</sc>3 dual helicase functions in salinity stress tolerance by maintaining photosynthesis and antioxidant machinery in rice (<i>Oryza sativa</i> L. cv.) Tj ETQq1 1 0.784314 rgB.8/Overlock110 Tf 50		
12	<i>Piriformospora indica</i> Årescues growth diminution of rice seedlings during high salt stress. <i>Plant Signaling and Behavior</i> , 2013, 8, e26891.	1.2	130
13	Stress responsive DEAD-box helicases: A new pathway to engineer plant stress tolerance. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 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. <i>Plant Molecular Biology</i> , 2010, 73, 449-465.	2.0	86
15	A DNA helicase from <i>Pisum sativum</i> is homologous to translation initiation factor and stimulates topoisomerase I activity. <i>Plant Journal</i> , 2000, 24, 219-229.	2.8	82
16	Phenotypic and molecular characterisation of efficient nitrogen-fixing <i>Azotobacter</i> strains from rice fields for crop improvement. <i>Protoplasma</i> , 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 (<i>Oryza sativa</i> L. cv. PB1). <i>Plant Molecular Biology</i> , 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. <i>PLoS ONE</i> , 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 (<i>Oryza sativa</i> L.). <i>Molecular Breeding</i> , 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. <i>Plant Molecular Biology</i> , 2015, 88, 193-206.	2.0	58
21	Function of heterotrimeric G-protein β^3 subunit RGG1 in providing salinity stress tolerance in rice by elevating detoxification of ROS. <i>Planta</i> , 2017, 245, 367-383.	1.6	51
22	Plant DNA helicases: the long unwinding road. <i>Journal of Experimental Botany</i> , 2003, 54, 2201-2214.	2.4	49
23	Development of <i>Agrobacterium</i> -mediated transformation technology for mature seed-derived callus tissues of indica rice cultivar IR64. <i>GM Crops and Food</i> , 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. <i>Journal of Plant Physiology</i> , 2016, 191, 1-11.	1.6	46
25	A novel <i>Azotobacter vinelandii</i> (SRI <i>Az</i>) functions in salinity stress tolerance in rice. <i>Plant Signaling and Behavior</i> , 2014, 9, e29377.	1.2	41
26	Pea DNA helicase 45 promotes salinity stress tolerance in IR64 rice with improved yield. <i>Plant Signaling and Behavior</i> , 2012, 7, 1042-1046.	1.2	40
27	Field performance of bacterial inoculants to alleviate water stress effects in wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 \log_{10} BT / 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. <i>Rice</i> , 2014, 7, 17.	1.7	35
29	Emergence of plant and rhizospheric microbiota as stable interactomes. <i>Protoplasma</i> , 2017, 254, 617-626.	1.0	34
30	Structure of RNA-interacting Cyclophilin A-like protein from <i>Piriformospora indica</i> that provides salinity-stress tolerance in plants. <i>Scientific Reports</i> , 2013, 3, 3001.	1.6	33
31	Assessing zygosity in progeny of transgenic plants: current methods and perspectives. <i>Journal of Biological Methods</i> , 2016, 3, e46.	1.0	32
32	Helicases as molecular motors: An insight. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 372, 70-83.	1.2	24
33	<i>Pisum sativum</i> p68 DEAD-box protein is ATP-dependent RNA helicase and unique bipolar DNA helicase. <i>Plant Molecular Biology</i> , 2014, 85, 639-651.	2.0	23
34	Rice lectin receptor-like kinase provides salinity tolerance by ion homeostasis. <i>Biotechnology and Bioengineering</i> , 2020, 117, 498-510.	1.7	23
35	Emerging Importance of Helicases in Plant Stress Tolerance: Characterization of <i>Oryza sativa</i> Repair Helicase XPB2 Promoter and Its Functional Validation in Tobacco under Multiple Stresses. <i>Frontiers in Plant Science</i> , 2015, 6, 1094.	1.7	22
36	Pea p68 Imparts Salinity Stress Tolerance in Rice by Scavenging of ROS-Mediated H ₂ O ₂ and Interacts with Argonaute. <i>Plant Molecular Biology Reporter</i> , 2015, 33, 221-238.	1.0	21

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37	Genetic engineering of crops: a ray of hope for enhanced food security. <i>Plant Signaling and Behavior</i> , 2014, 9, e28545.	1.2	19
38	Prediction and validation of cis-regulatory elements in 5' upstream regulatory regions of lectin receptor-like kinase gene family in rice. <i>Protoplasma</i> , 2017, 254, 669-684.	1.0	19
39	Marker-free transgenic rice plant overexpressing pea LecRLK imparts salinity tolerance by inhibiting sodium accumulation. <i>Plant Molecular Biology</i> , 2019, 99, 265-281.	2.0	18
40	Isolation and functional characterization of the promoter of a DEAD-box helicase <i>Psp68</i> using <i>Agrobacterium</i> -mediated transient assay. <i>Plant Signaling and Behavior</i> , 2014, 9, e28992.	1.2	16
41	Salt tolerant SUV3 overexpressing transgenic rice plants conserve physicochemical properties and microbial communities of rhizosphere. <i>Chemosphere</i> , 2015, 119, 1040-1047.	4.2	15
42	Concurrent overexpression of rice G-protein β^2 and β^3 subunits provide enhanced tolerance to sheath blight disease and abiotic stress in rice. <i>Planta</i> , 2019, 250, 1505-1520.	1.6	15
43	Stress-induced <i>Oryza sativa</i> BAT1 dual helicase exhibits unique bipolar translocation. <i>Protoplasma</i> , 2015, 252, 1563-1574.	1.0	13
44	Ectopic expression of phloem motor protein pea forisome PsSEO-F1 enhances salinity stress tolerance in tobacco. <i>Plant Cell Reports</i> , 2016, 35, 1021-1041.	2.8	13
45	Synergistic inoculation of <i>Azotobacter vinelandii</i> and <i>Serendipita indica</i> augmented rice growth. <i>Symbiosis</i> , 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. <i>Plant Molecular Biology Reporter</i> , 2015, 33, 1192-1209.	1.0	12
47	Stress-induced <i>Oryza sativa</i> RuvBL1a is DNA-independent ATPase and unwinds DNA duplex in 3' to 5' direction. <i>Protoplasma</i> , 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. <i>Plant Signaling and Behavior</i> , 2021, 16, 1950888.	1.2	12
49	Rice SUV3 is a bidirectional helicase that binds both DNA and RNA. <i>BMC Plant Biology</i> , 2014, 14, 283.	1.6	10
50	Simultaneous Expression of PDH45 with EPSPS Gene Improves Salinity and Herbicide Tolerance in Transgenic Tobacco Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 364.	1.7	10
51	Pea p68, a DEAD-box helicase, enhances salt tolerance in marker-free transgenic plants of soybean [<i>Glycine max</i> (L.) Merrill]. <i>3 Biotech</i> , 2019, 9, 10.	1.1	9
52	OsSUV3 functions in cadmium and zinc stress tolerance in rice (<i>Oryza sativa</i> L. cv IR64). <i>Plant Signaling and Behavior</i> , 2014, 9, e27389.	1.2	8
53	Overexpression of PDH45 or SUV3 helicases in rice leads to delayed leaf senescence-associated events. <i>Protoplasma</i> , 2017, 254, 1103-1113.	1.0	8
54	<i>Azotobacter vinelandii</i> helps to combat chromium stress in rice by maintaining antioxidant machinery. <i>3 Biotech</i> , 2021, 11, 275.	1.1	8

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55	Response of <i>PiCypA</i> tobacco T2 transgenic matured plant to potential tolerance to salinity stress. <i>Plant Signaling and Behavior</i> , 2014, 9, e27538.	1.2	6
56	Cyanide produced with ethylene by ACS and its incomplete detoxification by $\hat{1}^2$ -CAS in mango inflorescence leads to malformation. <i>Scientific Reports</i> , 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 (<i>Oryza sativa</i> L. cv. IR 64) Overexpressing PDH45 Gene Confers Salinity Tolerance by Maintaining Photosynthesis and Antioxidant Machinery. <i>Antioxidants</i> , 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