Adi Avni

List of Publications by Year
in descending order

73 papers	3,236 citations	147726 31 h-index	155592 55 g-index
75 all docs	75 docs citations	75 times ranked	3068 citing authors

#	Article	IF	Citations
1	The Receptor for the Fungal Elicitor Ethylene-Inducing Xylanase Is a Member of a Resistance-Like Gene Family in Tomato. Plant Cell, 2004, 16, 1604-1615.	3.1	508
2	Identification of an essential component of the elicitation active site of the EIX protein elicitor. Plant Journal, 2002, 32, 1049-1055.	2.8	153
3	BAK1 is required for the attenuation of ethylene-inducing xylanase (Eix)-induced defense responses by the decoy receptor LeEix1. Plant Journal, 2010, 63, 791-800.	2.8	141
4	Induction of Ethylene Biosynthesis in Nicotiana tabacum by a Trichoderma viride Xylanase Is Correlated to the Accumulation of 1-Aminocyclopropane-1-Carboxylic Acid (ACC) Synthase and ACC Oxidase Transcripts. Plant Physiology, 1994, 106, 1049-1055.	2.3	138
5	Constitutive caspase-like machinery executes programmed cell death in plant cells. Cell Death and Differentiation, 2002, 9, 726-733.	5.0	114
6	EHD2 inhibits ligandâ€induced endocytosis and signaling of the leucineâ€rich repeat receptorâ€like protein LeEix2. Plant Journal, 2009, 59, 600-611.	2.8	107
7	16S rRNA Phylogeny of Sponge-Associated Cyanobacteria. Applied and Environmental Microbiology, 2005, 71, 4127-4131.	1.4	102
8	A Novel Plant Cysteine Protease Has a Dual Function as a Regulator of 1-Aminocyclopropane-1-Carboxylic Acid Synthase Gene Expression. Plant Cell, 2005, 17, 1205-1216.	3.1	97
9	Endosomal signaling of the tomato leucineâ€rich repeat receptorâ€like protein LeEix2. Plant Journal, 2011, 68, 413-423.	2.8	92
10	Isolation of a novel SUMO protein from tomato that suppresses EIX-induced cell death. Plant Journal, 1999, 19, 533-541.	2.8	88
11	Involvement of Arabidopsis ROF2 (FKBP65) in thermotolerance. Plant Molecular Biology, 2010, 72, 191-203.	2.0	88
12	The Never ripe Mutant Provides Evidence That Tumor-Induced Ethylene Controls the Morphogenesis ofAgrobacterium tumefaciens-Induced Crown Galls on Tomato Stems1,2. Plant Physiology, 1998, 117, 841-849.	2.3	87
13	A Point Mutation in the Ethylene-Inducing Xylanase Elicitor Inhibits the Î²-1-4-Endoxylanase Activity But Not the Elicitation Activity. Plant Physiology, 1999, 121, 345-352.	2.3	84
14	Enhancing plant growth and fiber production by silencing GA 2-oxidase. Plant Biotechnology Journal, 2010, 8, 425-435.	4.1	83
15	Tentoxin sensitivity of chloroplasts determined by codon 83 of beta subunit of proton-ATPase. Science, 1992, 257, 1245-1247.	6.0	80
16	Sumoylation of Arabidopsis heat shock factor A2 (HsfA2) modifies its activity during acquired thermotholerance. Plant Molecular Biology, 2010, 74, 33-45.	2.0	80
17	Organelleâ€Targeted BODIPY Photocages: Visibleâ€Lightâ€Mediated Subcellular Photorelease. Angewandte Chemie - International Edition, 2019, 58, 4659-4663.	7.2	75
18	High-affinity binding site for ethylene-inducing xylanase elicitor on Nicotiana tabacum membranes. Plant Journal, 1997, 12, 113-120.	2.8	66

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19	The Coiled-Coil Domain of EHD2 Mediates Inhibition of LeEix2 Endocytosis and Signaling. PLoS ONE, 2009, 4, e7973.	1.1	58
20	AtEHDs, novel Arabidopsis EHâ€domainâ€containing proteins involved in endocytosis. Plant Journal, 2008, 55, 1025-1038.	2.8	53
21	Polymorphism of Acetylcholinesterase in Discrete Regions of the Developing Human Fetal Brain. Journal of Neurochemistry, 1985, 45, 382-389.	2.1	52
22	Direct selection for paternal inheritance of chloroplasts in sexual progeny of Nicotiana. Molecular Genetics and Genomics, 1991, 225, 273-277.	2.4	48
23	High-resolution linkage analysis and physical characterization of the EIX-responding locus in tomato. Theoretical and Applied Genetics, 2000, 100, 184-189.	1.8	47
24	A point mutation in the gene for the large subunit of ribulose 1,5-bisphosphate carboxylase/oxygenase affects holoenzyme assembly in Nicotiana tabacum.. EMBO Journal, 1989, 8, 1915-1918.	3.5	43
25	LeEIX2 Interactorsâ€™ Analysis and EIX-Mediated Responses Measurement. Methods in Molecular Biology, 2017, 1578, 167-172.	0.4	41
26	Molecular Properties of the Xanthomonas AvrRxv Effector and Global Transcriptional Changes Determined by Its Expression in Resistant Tomato Plants. Molecular Plant-Microbe Interactions, 2005, 18, 300-310.	1.4	39
27	The influence of air pollution on the concentration of mineral elements, on the spectral reflectance response and on the production of stress-ethylene in the lichen Ramalina duriaei. New Phytologist, 1997, 137, 587-597.	3.5	38
28	The intracellular nucleotideâ€binding leucineâ€rich repeat receptor (SlNRC4a) enhances immune signalling elicited by extracellular perception. Plant, Cell and Environment, 2018, 41, 2313-2327.	2.8	38
29	Translational Research: Exploring and Creating Genetic Diversity. Trends in Plant Science, 2018, 23, 42-52.	4.3	36
30	Differential Gene Expression in a Marine Sponge in Relation to Its Symbiotic State. Marine Biotechnology, 2007, 9, 543-549.	1.1	33
31	Nucleotide Sequence of the Nicotiana tabacum cv Xanthi Gene Encoding 1-Aminocyclopropane-1-Carboxylate Synthase. Plant Physiology, 1992, 100, 1615-1616.	2.3	32
32	Reactivation of the chloroplast CF1-ATPase Î² subunit by trace amounts of the CF1 Î± subunit suggests a chaperonin-like activity for CF1 Î±. Journal of Biological Chemistry, 1991, 266, 7317-7320.	1.6	31
33	Reactivation of the chloroplast CF1-ATPase beta subunit by trace amounts of the CF1 alpha subunit suggests a chaperonin-like activity for CF1 alpha. Journal of Biological Chemistry, 1991, 266, 7317-20.	1.6	30
34	Tomato Prenylated RAB Acceptor Protein 1 Modulates Trafficking and Degradation of the Pattern Recognition Receptor LeEIX2, Affecting the Innate Immune Response. Frontiers in Plant Science, 2018, 9, 257.	1.7	27
35	A human acetylcholinesterase gene identified by homology to the Ace region of Drosophila.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 1827-1831.	3.3	25
36	The expression of the large rice FK506 binding proteins (FKBPs) demonstrate tissue specificity and heat stress responsiveness. Plant Science, 2006, 170, 695-704.	1.7	25

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37	Integrated electrochemical Chip-on-Plant functional sensor for monitoring gene expression under stress. Biosensors and Bioelectronics, 2018, 117, 493-500.	5.3	25
38	A point mutation in the gene for the large subunit of ribulose 1,5-bisphosphate carboxylase/oxygenase affects holoenzyme assembly in Nicotiana tabacum. EMBO Journal, 1989, 8, 1915-8.	3.5	23
39	LeEix1 functions as a decoy receptor to attenuate LeEix2 signaling. Plant Signaling and Behavior, 2011, 6, 455-457.	1.2	19
40	EHD1 Functions in Endosomal Recycling and Confers Salt Tolerance. PLoS ONE, 2013, 8, e54533.	1.1	19
41	Coupled microalgalâ€“bacterial biofilm for enhanced wastewater treatment without energy investment. Journal of Water Process Engineering, 2021, 41, 102029.	2.6	19
42	Comparison of Formation and Biodegradation of Bromacil Oxidation Products in Aqueous Solutions. Journal of Agricultural and Food Chemistry, 1994, 42, 2040-2047.	2.4	18
43	CRISPys: Optimal sgRNA Design for Editing Multiple Members of a Gene Family Using the CRISPR System. Journal of Molecular Biology, 2018, 430, 2184-2195.	2.0	18
44	Sterol-Dependent Induction of Plant Defense Responses by a Microbe-Associated Molecular Pattern from Trichoderma viride Â Â Â. Plant Physiology, 2014, 164, 819-827.	2.3	16
45	Electrical Impedance Spectroscopy of plant cells in aqueous biological buffer solutions and their modelling using a unified electrical equivalent circuit over a wide frequency range: 4Hz to 20ÂGHz. Biosensors and Bioelectronics, 2020, 168, 112485.	5.3	16
46	EHD2 inhibits signaling ofÂLeucine rich repeat receptor-like proteins. Plant Signaling and Behavior, 2009, 4, 682-684.	1.2	13
47	Towards Optimal Green Plant Irrigation: Watering and Body Electrical Impedance. , 2020, , .		13
48	Endosomal trafficking and signaling in plant defense responses. Current Opinion in Plant Biology, 2014, 22, 86-92.	3.5	12
49	A gain of function mutation in SlNRC4a enhances basal immunity resulting in broad-spectrum disease resistance. Communications Biology, 2020, 3, 404.	2.0	12
50	Can plant biotechnology help in solving our food and energy shortage in the future?. Current Opinion in Biotechnology, 2011, 22, 220-223.	3.3	11
51	Tomato Dynamin Related Protein 2A Associates With LeEIX2 and Enhances PRR Mediated Defense by Modulating Receptor Trafficking. Frontiers in Plant Science, 2019, 10, 936.	1.7	11
52	Plants and Environmental Sensors for Smart Agriculture, an Overview. , 2020, , .		11
53	Ultrasensitive Electrochemical Impedance Detection of Mycoplasma agalactiae DNA by Low-Cost and Disposable Au-Decorated NiO Nanowall Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 50143-50151.	4.0	10
54	TOR inhibition primes immunity and pathogen resistance in tomato in a salicylic acidâ€dependent manner. Molecular Plant Pathology, 2022, 23, 1035-1047.	2.0	10

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55	NRC proteins - a critical node for pattern and effector mediated signaling. Plant Signaling and Behavior, 2018, 13, 1-4.	1.2	9
56	Analysis of in Vivo Plant Stem Impedance Variations in Relation with External Conditions Daily Cycle. , 2021, , .		9
57	Organelleâ€Targeted BODIPY Photocages: Visibleâ€Lightâ€Mediated Subcellular Photorelease. Angewandte Chemie, 2019, 131, 4707-4711.	1.6	8
58	Electrical Modelling of In-Vivo Impedance Spectroscopy of Nicotiana tabacum Plants. Frontiers in Electronics, 2021, 2, .	2.0	8
59	Nucleotide sequence of the Spirodela oligorrhiza chloroplast psbA gene coding for the D1 (32 kDa) photosystem II protein. Plant Molecular Biology, 1991, 17, 919-921.	2.0	6
60	AtEHDs in endocytosis. Plant Signaling and Behavior, 2008, 3, 1008-1010.	1.2	6
61	SlRLKâ€like is a malectinâ€like domain protein affecting localization and abundance of LeEIX2 receptor resulting in suppression of EIXâ€induced immune responses. Plant Journal, 2020, 104, 1369-1381.	2.8	6
62	The function of EHD2 in endocytosis and defense signaling is affected by SUMO. Plant Molecular Biology, 2014, 84, 509-518.	2.0	5
63	SlPRA1A/RAB attenuate EIX immune responses via degradation of LeEIX2 pattern recognition receptor. Plant Signaling and Behavior, 2018, 13, e1467689.	1.2	4
64	In-Vivo Dehydration Sensing in Transgenic Tobacco Plants using an Integrated Electrochemical Chip. , 2020, , .		3
65	Drought monitoring in tobacco plants by in-vivo electrochemical biosensor. Sensors and Actuators B: Chemical, 2022, 356, 131357.	4.0	3
66	Towards optimization of plant cell detection in suspensions using impedance-based analyses and the unified equivalent circuit model. Scientific Reports, 2021, 11, 19310.	1.6	2
67	Electrical impedance spectroscopy of plant cells in aqueous buffer media over a wide frequency range of 4ÂHz to 20ÂGHz. MethodsX, 2021, 8, 101185.	0.7	2
68	Feasibility of Signal Transmission for Plant Body Channel Communication in Tobacco. , 2020, , .		2
69	Endocytosis of LeEix and EHD Proteins During Plant Defense Signalling. , 2012, , 297-311.		2
70	Involvement of Ethylene in Protein Elicitor-Induced Plant Responses. , 1997, , 267-274.		2
71	A Study on the Dielectric Behaviour of Plant Cell Suspensions using Wideband Electrical Impedance Spectroscopy (WB-EIS). , 2020, , .		1
72	Expression of acetylcholinesterase gene(s) in the human brain: molecular cloning evidence for cross-homologous sequences. Journal De Physiologie, 1985, 80, 221-8.	0.2	1

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73	Endocytosis in Plant â€“ Fungal Interactions. Cellular Origin and Life in Extreme Habitats, 2010, , 495-508.	0.3	0