

# Arie Altman

## List of Publications by Year in descending order

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72  
papers

11,039  
citations

100601

38  
h-index

97045

71  
g-index

73  
all docs

73  
docs citations

73  
times ranked

12674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ornamental plant domestication by aesthetics-driven human cultural niche construction. Trends in Plant Science, 2022, 27, 124-138.	4.3	12
2	Promoting Ethically Responsible Use of Agricultural Biotechnology. Trends in Plant Science, 2021, 26, 546-559.	4.3	25
3	Understanding Agriculture within the Frameworks of Cumulative Cultural Evolution, Gene-Culture Co-Evolution, and Cultural Niche Construction. Human Ecology, 2019, 47, 483-497.	0.7	40
4	Accelerating Climate Resilient Plant Breeding by Applying Next-Generation Artificial Intelligence. Trends in Biotechnology, 2019, 37, 1217-1235.	4.9	134
5	Plant tissue culture and biotechnology: perspectives in the history and prospects of the International Association of Plant Biotechnology (IAPB). In Vitro Cellular and Developmental Biology - Plant, 2019, 55, 590-594.	0.9	6
6	Current challenges and future perspectives of plant and agricultural biotechnology. Trends in Biotechnology, 2015, 33, 337-342.	4.9	90
7	Molecular and physiological responses to abiotic stress in forest trees and their relevance to tree improvement. Tree Physiology, 2014, 34, 1181-1198.	1.4	144
8	Tree genetic engineering and applications to sustainable forestry and biomass production. Trends in Biotechnology, 2011, 29, 9-17.	4.9	145
9	Linking the Salt Transcriptome with Physiological Responses of a Salt-Resistant <i>Populus</i> Species as a Strategy to Identify Genes Important for Stress Acclimation. Plant Physiology, 2010, 154, 1697-1709.	2.3	120
10	EPR Studies of $O_2$ , $H_2O_2$ , and $HO_2$ Scavenging and Prevention of Glutathione Depletion in Fibroblast Cells by Cyanidin-3-rhamnoglucoside Isolated from Fig ( <i>Ficus carica</i> L.) Fruits. Journal of Agricultural and Food Chemistry, 2010, 58, 7158-7165.	2.4	17
11	Protection of Fibroblasts (NIH-3T3) against Oxidative Damage by Cyanidin-3-rhamnoglucoside Isolated from Fig Fruits ( <i>Ficus carica</i> L.). Journal of Agricultural and Food Chemistry, 2010, 58, 6660-6665.	2.4	30
12	SP1 Protein-Based Nanostructures and Arrays. Nano Letters, 2008, 8, 473-477.	4.5	70
13	Gradual Soil Water Depletion Results in Reversible Changes of Gene Expression, Protein Profiles, Ecophysiology, and Growth Performance in <i>Populus euphratica</i> , a Poplar Growing in Arid Regions. Plant Physiology, 2007, 143, 876-892.	2.3	338
14	Multiple display of catalytic modules on a protein scaffold: Nano-fabrication of enzyme particles. Journal of Biotechnology, 2007, 131, 433-439.	1.9	37
15	SP1 as a Novel Scaffold Building Block for Self-Assembly Nanofabrication of Submicron Enzymatic Structures. Nano Letters, 2007, 7, 1575-1579.	4.5	37
16	Antioxidant Activities and Anthocyanin Content of Fresh Fruits of Common Fig ( <i>Ficus carica</i> L.). Journal of Agricultural and Food Chemistry, 2006, 54, 7717-7723.	2.4	441
17	Aspen SP1, an exceptional thermal, protease and detergent-resistant self-assembled nano-particle. Biotechnology and Bioengineering, 2006, 95, 161-168.	1.7	36
18	Recent advances in engineering plant tolerance to abiotic stress: achievements and limitations. Current Opinion in Biotechnology, 2005, 16, 123-132.	3.3	1,299

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19	Gene expression and metabolite profiling of <i>Populus euphratica</i> growing in the Negev desert. <i>Genome Biology</i> , 2005, 6, R101.	13.9	208
20	The Structural Basis of the Thermostability of SP1, a Novel Plant ( <i>Populus tremula</i> ) Boiling Stable Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 51516-51523.	1.6	73
21	Cloning and characterization of the tomato karyopherin alpha1 gene promoter. <i>Development Growth and Differentiation</i> , 2004, 46, 515-522.	0.6	3
22	Role of plant heat-shock proteins and molecular chaperones in the abiotic stress response. <i>Trends in Plant Science</i> , 2004, 9, 244-252.	4.3	2,358
23	From plant tissue culture to biotechnology: Scientific revolutions, abiotic stress tolerance, and forestry. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2003, 39, 75-84.	0.9	43
24	Plant responses to drought, salinity and extreme temperatures: towards genetic engineering for stress tolerance. <i>Planta</i> , 2003, 218, 1-14.	1.6	2,937
25	Crystallization and preliminary X-ray crystallographic analysis of SP1, a novel chaperone-like protein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 512-514.	2.5	13
26	Effects of NaCl on shoot growth, transpiration, ion compartmentation, and transport in regenerated plants of <i>Populus euphratica</i> and <i>Populus tomentosa</i> . <i>Canadian Journal of Forest Research</i> , 2003, 33, 967-975.	0.8	120
27	Characterization of SP1, a Stress-Responsive, Boiling-Soluble, Homo-Oligomeric Protein from Aspen. <i>Plant Physiology</i> , 2002, 130, 865-875.	2.3	85
28	Xylem abscisic acid accelerates leaf abscission by modulating polyamine and ethylene synthesis in water-stressed intact poplar. <i>Trees - Structure and Function</i> , 2002, 16, 16-22.	0.9	23
29	Salt, nutrient uptake and transport, and ABA of <i>Populus euphratica</i> ; a hybrid in response to increasing soil NaCl. <i>Trees - Structure and Function</i> , 2001, 15, 186-194.	0.9	164
30	Genotypic difference in salinity and water stress tolerance of fresh market tomato cultivars. <i>Plant Science</i> , 2000, 152, 59-65.	1.7	112
31	<i>Arabidopsis thaliana</i> endo-1,4- $\beta$ -glucanase (cell) Promoter Mediates uidA Expression in Elongating Tissues of Aspen ( <i>Populus tremula</i> ). <i>Journal of Plant Physiology</i> , 2000, 156, 118-120.	1.6	19
32	rol. <i>Trees - Structure and Function</i> , 1999, 14, 49.	0.9	14
33	Forest-tree biotechnology: genetic transformation and its application to future forests. <i>Trends in Biotechnology</i> , 1998, 16, 439-446.	4.9	95
34	INHIBITION OF POLYAMINE BIOSYNTHESIS BY L-CANAVANINE AND ITS EFFECT ON MERISTEMATIC ACTIVITY, GROWTH, AND DEVELOPMENT OF ZEA MAYS ROOTS. <i>Israel Journal of Plant Sciences</i> , 1997, 45, 23-30.	0.3	4
35	Photosynthetic response of <i>Populus euphratica</i> to salt stress. <i>Forest Ecology and Management</i> , 1997, 93, 55-61.	1.4	93
36	Differential accumulation of water stress-related proteins, sucrose synthase and soluble sugars in <i>Populus</i> species that differ in their water stress response. <i>Physiologia Plantarum</i> , 1997, 99, 153-159.	2.6	115

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37	Transformation and regeneration of transgenic aspen plants via shoot formation from stem explants. <i>Physiologia Plantarum</i> , 1997, 99, 554-561.	2.6	32
38	Transgenic <i>Populus tremula</i> : a step-by-step protocol for its <i>Agrobacterium</i> -mediated transformation. <i>Plant Molecular Biology Reporter</i> , 1997, 15, 219-235.	1.0	75
39	<i>Agrobacterium rhizogenes</i> -mediated DNA transfer in <i>Pinus halepensis</i> Mill.. <i>Plant Cell Reports</i> , 1996, 16, 26-31.	2.8	62
40	Highly efficient transformation and regeneration of aspen plants through shoot-bud formation in root culture. <i>Plant Cell Reports</i> , 1996, 15, 566-571.	2.8	4
41	Tomato yellow leaf curl virus DNA in callus cultures derived from infected tomato leaves. <i>Plant Cell, Tissue and Organ Culture</i> , 1994, 39, 37-42.	1.2	6
42	In vitro propagation and germplasm cold-storage of fertile and male-sterile <i>Allium trifoliatum</i> subsp. <i>hirsutum</i> . <i>Genetic Resources and Crop Evolution</i> , 1994, 41, 87-98.	0.8	7
43	Interactions of polyamines and nitrogen nutrition in plants. <i>Physiologia Plantarum</i> , 1993, 89, 653-658.	2.6	56
44	Interactions of polyamines and nitrogen nutrition in plants. <i>Physiologia Plantarum</i> , 1993, 89, 653-658.	2.6	44
45	In vitro Development of Mature <i>Fagus sylvatica</i> L. buds II. Seasonal Changes in The Response to Plant Growth Regulators. <i>Journal of Plant Physiology</i> , 1991, 138, 136-141.	1.6	16
46	In vitro Development of Mature <i>Fagus Sylvatica</i> L. Buds. I. The Effect of Medium and Plant Growth Regulators on Bud Growth and Protein Profiles. <i>Journal of Plant Physiology</i> , 1991, 138, 596-601.	1.6	17
47	Regulation of somatic embryogenesis in celery cell suspensions. <i>Plant Cell, Tissue and Organ Culture</i> , 1989, 18, 181-189.	1.2	62
48	The effect of salt stress on polyamine biosynthesis and content in mung bean plants and in halophytes. <i>Physiologia Plantarum</i> , 1989, 76, 295-302.	2.6	69
49	Liposome-mediated introduction of the chloramphenicol acetyl transferase (CAT) gene and its expression in tobacco protoplasts. <i>Plant Molecular Biology</i> , 1988, 10, 185-191.	2.0	14
50	Changes in the integrity of large unilamellar vesicles due to their interaction with tobacco cell suspensions. <i>Plant Cell Reports</i> , 1988, 7, 341-343.	2.8	0
51	Fusion of germinating watermelon pollen tubes with liposomes. <i>Plant Science</i> , 1988, 55, 69-75.	1.7	12
52	Interactions between myo-inositol and cytokinins: Their basipetal transport and effect on peach roots. <i>Physiologia Plantarum</i> , 1987, 69, 633-638.	2.6	4
53	Involvement of Divalent Cations in Maintaining Cell Membrane Integrity in Stressed Apple Fruit Tissues. <i>Journal of Plant Physiology</i> , 1986, 125, 47-60.	1.6	22
54	Presence and Identification of Polyamines in Xylem and Phloem Exudates of Plants. <i>Plant Physiology</i> , 1986, 82, 1154-1157.	2.3	110

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55	Polyamines and Root Formation in Mung Bean Hypocotyl Cuttings. <i>Plant Physiology</i> , 1985, 79, 80-83.	2.3	46
56	Transcriptional activity of isolated maize chloroplasts. <i>Archives of Biochemistry and Biophysics</i> , 1984, 235, 26-33.	1.4	22
57	Arginine and Ornithine Decarboxylases, the Polyamine Biosynthetic Enzymes of Mung Bean Seedlings. <i>Plant Physiology</i> , 1982, 69, 876-879.	2.3	54
58	Polyamines and Root Formation in Mung Bean Hypocotyl Cuttings. <i>Plant Physiology</i> , 1982, 70, 844-848.	2.3	90
59	Growth and Metabolic Activity of Lemon Juice Vesicle Explants in Vitro. <i>Plant Physiology</i> , 1982, 69, 1-6.	2.3	28
60	Retardation of radish leaf senescence by polyamines. <i>Physiologia Plantarum</i> , 1982, 54, 189-193.	2.6	80
61	Polyamines and wounded storage tissues - Inhibition of RNase activity and solute leakage. <i>Physiologia Plantarum</i> , 1982, 54, 194-198.	2.6	49
62	Growth and development of Citrus pistils and fruit explants in vitro. <i>Physiologia Plantarum</i> , 1981, 53, 295-300.	2.6	16
63	Role of Ethylene in Abscisic Acid-induced Callus Formation in Citrus Bud Cultures. <i>Plant Physiology</i> , 1979, 63, 280-282.	2.3	40
64	Polyamines, ribonuclease and the improvement of oat leaf protoplasts. <i>Plant Science Letters</i> , 1978, 11, 69-79.	1.9	87
65	Dual Mechanisms in Polyamine-mediated Control of Ribonuclease Activity in Oat Leaf Protoplasts. <i>Plant Physiology</i> , 1978, 62, 158-160.	2.3	76
66	Differential Effects of Sucrose, Abscisic Acid, and Benzyladenine on Shoot Growth and Callus Formation in the Abscission Zone of Excised Citrus Buds. <i>Plant Physiology</i> , 1977, 59, 1161-1164.	2.3	16
67	Stabilization of Oat Leaf Protoplasts through Polyamine-mediated Inhibition of Senescence. <i>Plant Physiology</i> , 1977, 60, 570-574.	2.3	173
68	Characteristics of Root-to-Shoot Transport of Cytokinin 6-Benzylaminopurine in Intact Seedlings of <i>Citrus aurantium</i> . <i>Physiologia Plantarum</i> , 1977, 39, 225-232.	2.6	23
69	Comparative Basipetal Transport of 6-Benzylaminopurine-8-14C, Gibberellin A3-3H, IAA-2-14C, and Sucrose-14C in the Root of Intact <i>Citrus aurantium</i> Seedlings. <i>Physiologia Plantarum</i> , 1977, 39, 233-235.	2.6	3
70	Growth and Dormancy Cycles in Citrus Bud Cultures and Their Hormonal Control. <i>Physiologia Plantarum</i> , 1974, 30, 240-245.	2.6	61
71	Interrelationship of Abscisic Acid and Gibberellic Acid in the Promotion of Callus Formation in the Abscission Zone of Citrus Bud Cultures. <i>Physiologia Plantarum</i> , 1974, 32, 55-61.	2.6	15
72	Promotion of Callus Formation by Abscisic Acid in Citrus Bud Cultures. <i>Plant Physiology</i> , 1971, 47, 844-846.	2.3	38