

# Abdelali Ali Hannoufa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83  
papers

2,067  
citations

29  
h-index

42  
g-index

90  
ext. papers

2,640  
ext. citations

4.5  
avg, IF

5.02  
L-index

#	Paper	IF	Citations
83	The CRISPR/Cas9-Mediated Modulation of in Alfalfa Leads to Distinct Phenotypic Outcomes.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 774146	6.2	1
82	Identification of Differential Drought Response Mechanisms in subsp. and through Comparative Assessments at the Physiological, Biochemical, and Transcriptional Levels. <i>Plants</i> , <b>2021</b> , 10,	4.5	1
81	Mutation of MsSPL8 Alleles via CRISPR/Cas9-Mediated Genome Editing Leads to Superior Abiotic Stress Resiliency and Distinct Morphological Alterations in Alfalfa. <i>Biology and Life Sciences Forum</i> , <b>2021</b> , 4, 67		
80	Involvement of the miR156/SPL module in flooding response in Medicago sativa. <i>Scientific Reports</i> , <b>2021</b> , 11, 3243	4.9	9
79	Overexpression of miR156 and Silencing and Genes in on the Changes of Carbohydrate Physiochemical, Fermentation, and Nutritional Profiles. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 14540-14548	5.7	1
78	Transcriptome-IPMS analysis reveals a tissue-dependent miR156/SPL13 regulatory mechanism in alfalfa drought tolerance. <i>BMC Genomics</i> , <b>2020</b> , 21, 721	4.5	3
77	Label-free quantitative proteomic analysis of alfalfa in response to microRNA156 under high temperature. <i>BMC Genomics</i> , <b>2020</b> , 21, 758	4.5	1
76	Synchrotron-radiation sourced SR-IMS molecular spectroscopy to explore impact of silencing TT8 and HB12 genes in alfalfa leaves on the molecular structure and chemical mapping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 243, 118676	4.4	1
75	Characterization of the Role of in Drought Stress Tolerance in. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	7
74	Host plant defenses of black (Solanum nigrum L.) and red nightshade ( Solanum villosum Mill.) against specialist Solanaceae herbivore Leptinotarsa decemlineata (Say). <i>Archives of Insect Biochemistry and Physiology</i> , <b>2019</b> , 101, e21550	2.3	1
73	Effects of silencing TT8 and HB12 on in vitro nutrients degradation and VFA production in relation to molecular structures of alfalfa (Medicago sativa). <i>Journal of the Science of Food and Agriculture</i> , <b>2019</b> , 99, 6850-6858	4.3	1
72	Silencing and Decreased Protein Degradation and Digestion, Microbial Synthesis, and Metabolic Protein in Relation to Molecular Structures of Alfalfa (). <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 7898-7907	5.7	2
71	The interplay between miR156/SPL13 and DFR/WD40-1 regulate drought tolerance in alfalfa. <i>BMC Plant Biology</i> , <b>2019</b> , 19, 434	5.3	36
70	Alfalfa response to heat stress is modulated by microRNA156. <i>Physiologia Plantarum</i> , <b>2019</b> , 165, 830-842.	4.6	33
69	Assessment of Antinutritional Compounds and Chemotaxonomic Relationships between Camelina sativa and Its Wild Relatives. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 796-806	5.7	10
68	Potential production of polyphenols, carotenoids and glycoalkaloids in Solanum villosum Mill. under salt stress. <i>Biologia (Poland)</i> , <b>2019</b> , 74, 309-324	1.5	11
67	Molecular improvement of alfalfa for enhanced productivity and adaptability in a changing environment. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 1955-1971	8.4	18

66	Gene editing by CRISPR/Cas9 in the obligatory outcrossing <i>Medicago sativa</i> . <i>Planta</i> , <b>2018</b> , 247, 1043-1050.	4.7	35
65	Transcriptome profiling of <i>Brassica napus</i> stem sections in relation to differences in lignin content. <i>BMC Genomics</i> , <b>2018</b> , 19, 255	4.5	5
64	The biochemical composition and transcriptome of cotyledons from <i>Brassica napus</i> lines expressing the AtGL3 transcription factor and exhibiting reduced flea beetle feeding. <i>BMC Plant Biology</i> , <b>2018</b> , 18, 64	5.3	6
63	Transcriptome analysis of microRNA156 overexpression alfalfa roots under drought stress. <i>Scientific Reports</i> , <b>2018</b> , 8, 9363	4.9	21
62	COP9 signalosome subunit 5A affects phenylpropanoid metabolism, trichome formation and transcription of key genes of a regulatory tri-protein complex in <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , <b>2018</b> , 18, 134	5.3	8
61	Molecular Structural Changes in Alfalfa Detected by ATR-FTIR Spectroscopy in Response to Silencing of TT8 and HB12 Genes. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	11
60	Effects of TT8 and HB12 Silencing on the Relations between the Molecular Structures of Alfalfa ( <i>Medicago sativa</i> ) Plants and Their Nutritional Profiles and In Vitro Gas Production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 5602-5611	5.7	7
59	SPL13 regulates shoot branching and flowering time in <i>Medicago sativa</i> . <i>Plant Molecular Biology</i> , <b>2018</b> , 96, 119-133	4.6	26
58	Progress Toward Deep Sequencing-Based Discovery of Stress-Related MicroRNA in Plants and Available Bioinformatics Tools. <i>Progress in Botany Fortschritte Der Botanik</i> , <b>2018</b> , 41-76	0.6	3
57	MicroRNA156 improves drought stress tolerance in alfalfa ( <i>Medicago sativa</i> ) by silencing SPL13. <i>Plant Science</i> , <b>2017</b> , 258, 122-136	5.3	104
56	Cytosolic acetyl-CoA promotes histone acetylation predominantly at H3K27 in <i>Arabidopsis</i> . <i>Nature Plants</i> , <b>2017</b> , 3, 814-824	11.5	46
55	miR156/SPL10 Modulates Lateral Root Development, Branching and Leaf Morphology in <i>Arabidopsis</i> by Silencing. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 2226	6.2	45
54	MsmiR156 affects global gene expression and promotes root regenerative capacity and nitrogen fixation activity in alfalfa. <i>Transgenic Research</i> , <b>2017</b> , 26, 541-557	3.3	14
53	An Insight into microRNA156 Role in Salinity Stress Responses of Alfalfa. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 356	6.2	41
52	The Use of Gene Modification and Advanced Molecular Structure Analyses towards Improving Alfalfa Forage. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	25
51	A fast, adaptable piecewise gradient method for high-throughput quantification of leaf carotenoids using RP-HPLC-PDA. <i>Analytical Methods</i> , <b>2016</b> , 8, 4955-4964	3.2	2
50	Molecular cloning, functional characterization and expression of potato ( <i>Solanum tuberosum</i> ) 1-deoxy-d-xylulose 5-phosphate synthase 1 (StDXS1) in response to <i>Phytophthora infestans</i> . <i>Plant Science</i> , <b>2016</b> , 243, 71-83	5.3	26
49	Salt stress (NaCl) affects plant growth and branch pathways of carotenoid and flavonoid biosyntheses in <i>Solanum nigrum</i> . <i>Acta Physiologiae Plantarum</i> , <b>2016</b> , 38, 1	2.6	67

48	Repellent and Attractive Effects of $\beta$ -E and Dihydro-Eilonone to Generalist and Specialist Herbivores. <i>Journal of Chemical Ecology</i> , <b>2016</b> , 42, 107-17	2.7	34
47	Comparative transcriptome investigation of global gene expression changes caused by miR156 overexpression in <i>Medicago sativa</i> . <i>BMC Genomics</i> , <b>2016</b> , 17, 658	4.5	35
46	Gene-Silencing-Induced Changes in Carbohydrate Conformation in Relation to Bioenergy Value and Carbohydrate Subfractions in Modeled Plant ( <i>Medicago sativa</i> ) with Down-Regulation of HB12 and TT8 Transcription Factors. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	10
45	SQUAMOSA PROMOTER BINDING PROTEIN-LIKE 2 controls floral organ development and plant fertility by activating ASYMMETRIC LEAVES 2 in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , <b>2016</b> , 92, 661-674	4.6	29
44	Global gene expression and secondary metabolite changes in <i>Arabidopsis thaliana</i> ABI4 over-expression lines. <i>Botany</i> , <b>2016</b> , 94, 615-634	1.3	1
43	Ectopic expression of miR156 represses nodulation and causes morphological and developmental changes in <i>Lotus japonicus</i> . <i>Molecular Genetics and Genomics</i> , <b>2015</b> , 290, 471-84	3.1	44
42	SCARECROW-LIKE15 interacts with HISTONE DEACETYLASE19 and is essential for repressing the seed maturation programme. <i>Nature Communications</i> , <b>2015</b> , 6, 7243	17.4	44
41	The MicroRNA156 system: A tool in plant biotechnology. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2015</b> , 4, 432-442	4.2	20
40	Quantitative and structural analyses of T-DNA tandem repeats in transgenic <i>Arabidopsis</i> SK mutant lines. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2015</b> , 123, 183-192	2.7	4
39	Ectopic expression of LjmiR156 delays flowering, enhances shoot branching, and improves forage quality in alfalfa. <i>Plant Biotechnology Reports</i> , <b>2015</b> , 9, 379-393	2.5	27
38	Transformation with TT8 and HB12 RNAi Constructs in Model Forage ( <i>Medicago sativa</i> , Alfalfa) Affects Carbohydrate Structure and Metabolic Characteristics in Ruminant Livestock Systems. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 9590-600	5.7	21
37	MicroRNA156 as a promising tool for alfalfa improvement. <i>Plant Biotechnology Journal</i> , <b>2015</b> , 13, 779-90	11.6	82
36	In vivo extraction of volatile organic compounds (VOCs) from Micro-Tom tomato flowers with multiple solid phase microextraction (SPME) fibers. <i>Canadian Journal of Chemistry</i> , <b>2015</b> , 93, 143-150	0.9	3
35	Genetic enhancement of <i>Brassica napus</i> seed quality. <i>Transgenic Research</i> , <b>2014</b> , 23, 39-52	3.3	21
34	Deep sequencing of <i>Lotus corniculatus</i> L. reveals key enzymes and potential transcription factors related to the flavonoid biosynthesis pathway. <i>Molecular Genetics and Genomics</i> , <b>2013</b> , 288, 131-9	3.1	13
33	Regulation of carotenoid accumulation in plants. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2012</b> , 1, 198-202	4.2	45
32	DIMINUTO 1 affects the lignin profile and secondary cell wall formation in <i>Arabidopsis</i> . <i>Planta</i> , <b>2012</b> , 235, 485-98	4.7	34
31	<i>Arabidopsis</i> mutant sk156 reveals complex regulation of SPL15 in a miR156-controlled gene network. <i>BMC Plant Biology</i> , <b>2012</b> , 12, 169	5.3	51

30	Verte and Romaine lettuce varieties ( <i>Lactuca sativa</i> ) show differential responses to high NaCl concentrations. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2012</b> , 175, 641-648	2.3	2
29	INFLUENCE OF DIFFERENT SEED PRIMING METHODS FOR IMPROVING SALT STRESS TOLERANCE IN LETTUCE PLANTS. <i>Journal of Plant Nutrition</i> , <b>2012</b> , 35, 1910-1922	2.3	10
28	The translation elongation factor eEF-1B $\beta$ is involved in cell wall biosynthesis and plant development in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , <b>2012</b> , 7, e30425	3.7	22
27	<i>Arabidopsis</i> cpSRP54 regulates carotenoid accumulation in <i>Arabidopsis</i> and <i>Brassica napus</i> . <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 5189-202	7	22
26	Probing the Genes Expressed in Developing Seed of Oilseed Plants: <i>Brassica Napus</i> (L.) as A Case Example <b>2012</b> , 171-186		
25	Salt stress induced changes in germination, lipid peroxidation and antioxidant activities in lettuce ( <i>Lactuca sativa</i> L.) seedlings. <i>African Journal of Biotechnology</i> , <b>2011</b> , 10, 14498-14506	0.6	5
24	Phenolic content and antioxidant activity in two contrasting <i>Medicago ciliaris</i> lines cultivated under salt stress. <i>Biologia (Poland)</i> , <b>2011</b> , 66, 813-820	1.5	5
23	Varied tolerance to NaCl salinity is related to biochemical changes in two contrasting lettuce genotypes. <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 1613-1622	2.6	25
22	Enhanced $\beta$ ionone emission in <i>Arabidopsis</i> over-expressing AtCCD1 reduces feeding damage in vivo by the crucifer flea beetle. <i>Environmental Entomology</i> , <b>2011</b> , 40, 1622-30	2.1	39
21	Gene expression profiling of developing <i>Brassica napus</i> seed in relation to changes in major storage compounds. <i>Plant Science</i> , <b>2010</b> , 178, 381-389	5.3	22
20	The impact of genotype and salinity on physiological function, secondary metabolite accumulation, and antioxidative responses in lettuce. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 5122-30	5.7	43
19	Enhanced seed carotenoid levels and branching in transgenic <i>Brassica napus</i> expressing the <i>Arabidopsis</i> miR156b gene. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 9572-8	5.7	53
18	Pleiotropic changes in <i>Arabidopsis</i> f5h and sct mutants revealed by large-scale gene expression and metabolite analysis. <i>Planta</i> , <b>2009</b> , 230, 1057-69	4.7	31
17	Targeted modulation of sinapine biosynthesis pathway for seed quality improvement in <i>Brassica napus</i> . <i>Transgenic Research</i> , <b>2009</b> , 18, 31-44	3.3	39
16	RNAi-mediated suppression of DET1 alters the levels of carotenoids and sinapate esters in seeds of <i>Brassica napus</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 5326-33	5.7	38
15	Perturbation of lignin biosynthesis pathway in <i>Brassica napus</i> (canola) plants using RNAi. <i>Canadian Journal of Plant Science</i> , <b>2009</b> , 89, 441-453	1	14
14	Development of an <i>Adonis aestivalis</i> expressed sequence tag population as a resource for genes of the carotenoid pathway. <i>Genome</i> , <b>2008</b> , 51, 888-96	2.4	4
13	Manipulation of sinapine, choline and betaine accumulation in <i>Arabidopsis</i> seed: towards improving the nutritional value of the meal and enhancing the seedling performance under environmental stresses in oilseed crops. <i>Plant Physiology and Biochemistry</i> , <b>2008</b> , 46, 647-654	5.4	25

12	Enhancing the carotenoid content of Brassica napus seeds by downregulating lycopene epsilon cyclase. <i>Transgenic Research</i> , <b>2008</b> , 17, 573-85	3.3	113
11	Isolation and characterization of a GCN5-interacting protein from Arabidopsis thaliana. <i>Planta</i> , <b>2007</b> , 225, 1367-79	4.7	14
10	Characterization of a beta-carotene hydroxylase of Adonis aestivalis and its expression in Arabidopsis thaliana. <i>Planta</i> , <b>2007</b> , 226, 181-92	4.7	30
9	A ROS repressor-mediated binary regulation system for control of gene expression in transgenic plants. <i>Transgenic Research</i> , <b>2004</b> , 13, 109-18	3.3	
8	An auxin-responsive SCARECROW-like transcriptional activator interacts with histone deacetylase. <i>Plant Molecular Biology</i> , <b>2004</b> , 55, 417-31	4.6	64
7	A novel protein from Brassica napus has a putative KID domain and responds to low temperature. <i>Plant Journal</i> , <b>2003</b> , 33, 1073-86	6.9	25
6	Analysis of Arabidopsis thaliana transgenic plants transformed with CER2 and CER3 genes in sense and antisense orientations. <i>Theoretical and Applied Genetics</i> , <b>1998</b> , 97, 801-809	6	4
5	The CER3 gene of Arabidopsis thaliana is expressed in leaves, stems, roots, flowers and apical meristems. <i>Plant Journal</i> , <b>1996</b> , 10, 459-67	6.9	76
4	Variations in flavonoid sulphate patterns in relation to photosynthetic types of five Flaveria species. <i>Phytochemistry</i> , <b>1994</b> , 36, 353-356	4	5
3	Isolation and characterization of eceriferum (cer) mutants induced by T-DNA insertions in Arabidopsis thaliana. <i>Genome</i> , <b>1993</b> , 36, 610-8	2.4	97
2	Epicuticular waxes of eceriferum mutants of Arabidopsis thaliana. <i>Phytochemistry</i> , <b>1993</b> , 33, 851-855	4	80
1	Spatial Distribution of Flavonoid Conjugates in Relation to Glucosyltransferase and Sulfotransferase Activities in Flaveria bidentis. <i>Plant Physiology</i> , <b>1991</b> , 97, 259-63	6.6	13