

Magdy M Mahfouz

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.

84
papers

5,531
citations

40
h-index

74
g-index

98
ext. papers

7,288
ext. citations

8.6
avg, IF

6.37
L-index

#	Paper	IF	Citations
84	Microbial Biocontainment Systems for Clinical, Agricultural, and Industrial Applications.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 830200	5.8	0
83	The Rice Serine/Arginine Splicing Factor RS33 Regulates Pre-mRNA Splicing during Abiotic Stress Responses. <i>Cells</i> , 2022 , 11, 1796	7.9	0
82	iSCAN-V2: A One-Pot RT-RPA-CRISPR/Cas12b Assay for Point-of-Care SARS-CoV-2 Detection.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 800104	5.8	1
81	LAMP-Coupled CRISPR-Cas12a Module for Rapid and Sensitive Detection of Plant DNA Viruses. <i>Viruses</i> , 2021 , 13,	6.2	22
80	Chemical activation of Arabidopsis SnRK2.6 by pladienolide B. <i>Plant Signaling and Behavior</i> , 2021 , 16, 1885165	2.5	0
79	Vigilant: An Engineered VirD2-Cas9 Complex for Lateral Flow Assay-Based Detection of SARS-CoV2. <i>Nano Letters</i> , 2021 , 21, 3596-3603	11.5	16
78	CRISPR/Cas systems versus plant viruses: engineering plant immunity and beyond. <i>Plant Physiology</i> , 2021 , 186, 1770-1785	6.6	2
77	Overlapping roles of spliceosomal components SF3B1 and PHF5A in rice splicing regulation. <i>Communications Biology</i> , 2021 , 4, 529	6.7	2
76	Polycomb-dependent differential chromatin compartmentalization determines gene coregulation in. <i>Genome Research</i> , 2021 ,	9.7	6
75	Pre-mRNA alternative splicing as a modulator for heat stress response in plants. <i>Trends in Plant Science</i> , 2021 , 26, 1153-1170	13.1	8
74	CRISPR-Based Crop Improvements: A Way Forward to Achieve Zero Hunger. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 8307-8323	5.7	10
73	A Novel Miniature CRISPR-Cas13 System for SARS-CoV-2 Diagnostics. <i>ACS Synthetic Biology</i> , 2021 , 10, 2541-2551	5.7	9
72	Synthetic directed evolution in plants: unlocking trait engineering and improvement. <i>Synthetic Biology</i> , 2021 , 6, ysab025	3.3	2
71	Bio-SCAN: A CRISPR/dCas9-Based Lateral Flow Assay for Rapid, Specific, and Sensitive Detection of SARS-CoV-2.. <i>ACS Synthetic Biology</i> , 2021 ,	5.7	2
70	Engineering herbicide resistance via prime editing in rice. <i>Plant Biotechnology Journal</i> , 2020 , 18, 2370-2377	12.6	77
69	GCN5 modulates salicylic acid homeostasis by regulating H3K14ac levels at the 5' and 3' ends of its target genes. <i>Nucleic Acids Research</i> , 2020 , 48, 5953-5966	20.1	18
68	Genome Editing Technologies for Rice Improvement: Progress, Prospects, and Safety Concerns. <i>Frontiers in Genome Editing</i> , 2020 , 2, 5	2.5	21

67	Nucleic Acid Detection Using CRISPR/Cas Biosensing Technologies. <i>ACS Synthetic Biology</i> , 2020 , 9, 1226-1233	12.3	105
66	Fusion of the Cas9 endonuclease and the VirD2 relaxase facilitates homology-directed repair for precise genome engineering in rice. <i>Communications Biology</i> , 2020 , 3, 44	6.7	48
65	Wheat chromatin architecture is organized in genome territories and transcription factories. <i>Genome Biology</i> , 2020 , 21, 104	18.3	44
64	Efficient, Rapid, and Sensitive Detection of Plant RNA Viruses With One-Pot RT-RPA-CRISPR/Cas12a Assay. <i>Frontiers in Microbiology</i> , 2020 , 11, 610872	5.7	35
63	CRISPR-TSKO: A Tool for Tissue-Specific Genome Editing in Plants. <i>Trends in Plant Science</i> , 2020 , 25, 123-136	13.6	15
62	iSCAN: An RT-LAMP-coupled CRISPR-Cas12 module for rapid, sensitive detection of SARS-CoV-2. <i>Virus Research</i> , 2020 , 288, 198129	6.4	102
61	Engineering crops of the future: CRISPR approaches to develop climate-resilient and disease-resistant plants. <i>Genome Biology</i> , 2020 , 21, 289	18.3	31
60	CRISPR/Cas9 Mutagenesis by Translocation of Cas9 Protein Into Plant Cells via the Type IV Secretion System. <i>Frontiers in Genome Editing</i> , 2020 , 2, 6	2.5	8
59	CRISPR-Based Directed Evolution for Crop Improvement. <i>Trends in Biotechnology</i> , 2020 , 38, 236-240	15.1	21
58	Thermopriming reprograms metabolic homeostasis to confer heat tolerance. <i>Scientific Reports</i> , 2019 , 9, 181	4.9	45
57	A Simplified Method to Engineer CRISPR/Cas9-Mediated Geminivirus Resistance in Plants. <i>Methods in Molecular Biology</i> , 2019 , 2028, 167-183	1.4	4
56	CRISPR directed evolution of the spliceosome for resistance to splicing inhibitors. <i>Genome Biology</i> , 2019 , 20, 73	18.3	70
55	Plant Genome Engineering for Targeted Improvement of Crop Traits. <i>Frontiers in Plant Science</i> , 2019 , 10, 114	6.2	105
54	New plant breeding technologies for food security. <i>Science</i> , 2019 , 363, 1390-1391	33.3	85
53	Serine/Arginine-rich protein family of splicing regulators: New approaches to study splice isoform functions. <i>Plant Science</i> , 2019 , 283, 127-134	5.3	13
52	Multiplex CRISPR Mutagenesis of the Serine/Arginine-Rich (SR) Gene Family in Rice. <i>Genes</i> , 2019 , 10,	4.2	17
51	CRISPR-Cas13d mediates robust RNA virus interference in plants. <i>Genome Biology</i> , 2019 , 20, 263	18.3	65
50	Virus-Mediated Genome Editing in Plants Using the CRISPR/Cas9 System. <i>Methods in Molecular Biology</i> , 2019 , 1917, 311-326	1.4	10

49	Thermopriming triggers splicing memory in Arabidopsis. <i>Journal of Experimental Botany</i> , 2018 , 69, 2659-2675	64
48	CRISPR/Cas13 as a Tool for RNA Interference. <i>Trends in Plant Science</i> , 2018 , 23, 374-378	13.1 40
47	Pea early-browning virus-mediated genome editing via the CRISPR/Cas9 system in <i>Nicotiana benthamiana</i> and Arabidopsis. <i>Virus Research</i> , 2018 , 244, 333-337	6.4 63
46	Engineering virus resistance via CRISPR-Cas systems. <i>Current Opinion in Virology</i> , 2018 , 32, 1-8	7.5 38
45	RNA virus interference via CRISPR/Cas13a system in plants. <i>Genome Biology</i> , 2018 , 19, 1	18.3 409
44	CRISPR base editors: genome editing without double-stranded breaks. <i>Biochemical Journal</i> , 2018 , 475, 1955-1964	3.8 132
43	Harnessing CRISPR/Cas systems for programmable transcriptional and post-transcriptional regulation. <i>Biotechnology Advances</i> , 2018 , 36, 295-310	17.8 60
42	Engineering RNA Virus Interference via the CRISPR/Cas13 Machinery in Arabidopsis. <i>Viruses</i> , 2018 , 10,	6.2 46
41	Engineering resistance against Tomato yellow leaf curl virus via the CRISPR/Cas9 system in tomato. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1525996	2.5 103
40	Engineering plant architecture via CRISPR/Cas9-mediated alteration of strigolactone biosynthesis. <i>BMC Plant Biology</i> , 2018 , 18, 174	5.3 65
39	Targeted genome regulation via synthetic programmable transcriptional regulators. <i>Critical Reviews in Biotechnology</i> , 2017 , 37, 429-440	9.4 18
38	Genome editing: The efficient tool CRISPR-Cpf1. <i>Nature Plants</i> , 2017 , 3, 17028	11.5 23
37	CRISPR-Cpf1: A New Tool for Plant Genome Editing. <i>Trends in Plant Science</i> , 2017 , 22, 550-553	13.1 91
36	Engineering Molecular Immunity Against Plant Viruses. <i>Progress in Molecular Biology and Translational Science</i> , 2017 , 149, 167-186	4 12
35	Herboxidiene triggers splicing repression and abiotic stress responses in plants. <i>BMC Genomics</i> , 2017 , 18, 260	4.5 20
34	The Arabidopsis SWI/SNF protein BAF60 mediates seedling growth control by modulating DNA accessibility. <i>Genome Biology</i> , 2017 , 18, 114	18.3 30
33	Pre-mRNA splicing repression triggers abiotic stress signaling in plants. <i>Plant Journal</i> , 2017 , 89, 291-309	6.9 39
32	Efficient CRISPR/Cas9-Mediated Genome Editing Using a Chimeric Single-Guide RNA Molecule. <i>Frontiers in Plant Science</i> , 2017 , 8, 1441	6.2 72

31	Genome editing: the road of CRISPR/Cas9 from bench to clinic. <i>Experimental and Molecular Medicine</i> , 2016 , 48, e265	12.8	55
30	CRISPR/Cas9-Mediated Immunity to Geminiviruses: Differential Interference and Evasion. <i>Scientific Reports</i> , 2016 , 6, 26912	4.9	146
29	Engineering Plants for Geminivirus Resistance with CRISPR/Cas9 System. <i>Trends in Plant Science</i> , 2016 , 21, 279-281	13.1	47
28	Engineering Plant Immunity: Using CRISPR/Cas9 to Generate Virus Resistance. <i>Frontiers in Plant Science</i> , 2016 , 7, 1673	6.2	109
27	High efficiency of targeted mutagenesis in arabidopsis via meiotic promoter-driven expression of Cas9 endonuclease. <i>Plant Cell Reports</i> , 2016 , 35, 1555-8	5.1	37
26	CRISPR/Cas9-mediated target validation of the splicing inhibitor Pladienolide B. <i>Biochimie Open</i> , 2016 , 3, 72-75	0	7
25	Transcription activator-like effector nucleases mediated metabolic engineering for enhanced fatty acids production in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 364-71	3.3	21
24	Efficient Virus-Mediated Genome Editing in Plants Using the CRISPR/Cas9 System. <i>Molecular Plant</i> , 2015 , 8, 1288-91	14.4	178
23	CRISPR/Cas9-mediated viral interference in plants. <i>Genome Biology</i> , 2015 , 16, 238	18.3	299
22	RNA-guided transcriptional regulation in planta via synthetic dCas9-based transcription factors. <i>Plant Biotechnology Journal</i> , 2015 , 13, 578-89	11.6	245
21	Activity and specificity of TRV-mediated gene editing in plants. <i>Plant Signaling and Behavior</i> , 2015 , 10, e1044191	2.5	48
20	Efficient FdCas9 Synthetic Endonuclease with Improved Specificity for Precise Genome Engineering. <i>PLoS ONE</i> , 2015 , 10, e0133373	3.7	42
19	Activities and specificities of homodimeric TALENs in <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 2014 , 60, 61-74	2.9	35
18	Genome engineering via TALENs and CRISPR/Cas9 systems: challenges and perspectives. <i>Plant Biotechnology Journal</i> , 2014 , 12, 1006-14	11.6	86
17	Detection of a Usp-like gene in <i>Calotropis procera</i> plant from the de novo assembled genome contigs of the high-throughput sequencing dataset. <i>Comptes Rendus - Biologies</i> , 2014 , 337, 86-94	1.4	10
16	Characterization and DNA-binding specificities of <i>Ralstonia</i> TAL-like effectors. <i>Molecular Plant</i> , 2013 , 6, 1318-30	14.4	44
15	Targeted transcriptional repression using a chimeric TALE-SRDx repressor protein. <i>Plant Molecular Biology</i> , 2012 , 78, 311-21	4.6	118
14	Rapid and highly efficient construction of TALE-based transcriptional regulators and nucleases for genome modification. <i>Plant Molecular Biology</i> , 2012 , 78, 407-16	4.6	92

13	Structural basis for sequence-specific recognition of DNA by TAL effectors. <i>Science</i> , 2012 , 335, 720-3	33.3	432
12	Recognition of methylated DNA by TAL effectors. <i>Cell Research</i> , 2012 , 22, 1502-4	24.7	97
11	De novo-engineered transcription activator-like effector (TALE) hybrid nuclease with novel DNA binding specificity creates double-strand breaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 2623-8	11.5	339
10	TALE nucleases and next generation GM crops. <i>GM Crops</i> , 2011 , 2, 99-103		41
9	RNA-directed DNA methylation: mechanisms and functions. <i>Plant Signaling and Behavior</i> , 2010 , 5, 806-16	2.5	28
8	The Anticancer Activity of the N-Terminal CARD-Like Domain of Arginine Deiminase (ADI) from <i>Pseudomonas aeruginosa</i> . <i>Letters in Drug Design and Discovery</i> , 2009 , 6, 403-412	0.8	5
7	Bacterial proteins and CpG-rich extrachromosomal DNA in potential cancer therapy. <i>Plasmid</i> , 2007 , 57, 4-17	3.3	22
6	Cupredoxin-cancer interrelationship: azurin binding with EphB2, interference in EphB2 tyrosine phosphorylation, and inhibition of cancer growth. <i>Biochemistry</i> , 2007 , 46, 1799-810	3.2	55
5	Arabidopsis TARGET OF RAPAMYCIN interacts with RAPTOR, which regulates the activity of S6 kinase in response to osmotic stress signals. <i>Plant Cell</i> , 2006 , 18, 477-90	11.6	267
4	Callose synthase (CalS5) is required for exine formation during microgametogenesis and for pollen viability in Arabidopsis. <i>Plant Journal</i> , 2005 , 42, 315-28	6.9	250
3	Engineering Plant Architecture via CRISPR/Cas9-mediated Alteration of Strigolactone Biosynthesis		1
2	iSCAN: An RT-LAMP-coupled CRISPR-Cas12 module for rapid, sensitive detection of SARS-CoV-2		2
1	Engineering resistance against Tomato yellow leaf curl virus via the CRISPR/Cas9 system in tomato		3