

Muhammad Jamil

List of Publications by Year in descending order

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36
papers

2,607
citations

361413

20
h-index

377865

34
g-index

39
all docs

39
docs citations

39
times ranked

2211
citing authors

#	ARTICLE	IF	CITATIONS
1	The Path from Î ² -Carotene to Carlactone, a Strigolactone-Like Plant Hormone. <i>Science</i> , 2012, 335, 1348-1351.	12.6	809
2	Strigolactone Biosynthesis in <i>Medicago truncatula</i> and Rice Requires the Symbiotic GRAS-Type Transcription Factors NSP1 and NSP2. <i>Plant Cell</i> , 2011, 23, 3853-3865.	6.6	291
3	Natural variation of rice strigolactone biosynthesis is associated with the deletion of two <i>MAX1</i> orthologs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2379-2384.	7.1	138
4	The apocarotenoid metabolite zaxinone regulates growth and strigolactone biosynthesis in rice. <i>Nature Communications</i> , 2019, 10, 810.	12.8	113
5	Quantification of the relationship between strigolactones and <i>Striga hermonthica</i> infection in rice under varying levels of nitrogen and phosphorus. <i>Weed Research</i> , 2011, 51, 373-385.	1.7	112
6	Pre-attachment <i>Striga hermonthica</i> resistance of New Rice for Africa (NERICA) cultivars based on low strigolactone production. <i>New Phytologist</i> , 2011, 192, 964-975.	7.3	109
7	Engineering plant architecture via CRISPR/Cas9-mediated alteration of strigolactone biosynthesis. <i>BMC Plant Biology</i> , 2018, 18, 174.	3.6	106
8	Strigolactones: ecological significance and use as a target for parasitic plant control. <i>Pest Management Science</i> , 2009, 65, 471-477.	3.4	99
9	Alternative control of wild oat and canary grass in wheat fields by allelopathic plant water extracts. <i>Agronomy for Sustainable Development</i> , 2009, 29, 475-482.	5.3	71
10	Suicidal germination as a control strategy for <i>Striga hermonthica</i> (Benth.) in smallholder farms of sub-Saharan Africa. <i>Plants People Planet</i> , 2019, 1, 107-118.	3.3	70
11	Genetic variation in strigolactone production and tillering in rice and its effect on <i>Striga hermonthica</i> infection. <i>Planta</i> , 2012, 235, 473-484.	3.2	69
12	Carotenoid inhibitors reduce strigolactone production and <i>Striga hermonthica</i> infection in rice. <i>Archives of Biochemistry and Biophysics</i> , 2010, 504, 123-131.	3.0	53
13	Methyl phenlactonoates are efficient strigolactone analogs with simple structure. <i>Journal of Experimental Botany</i> , 2018, 69, 2319-2331.	4.8	50
14	The Apocarotenoid Zaxinone Is a Positive Regulator of Strigolactone and Abscisic Acid Biosynthesis in <i>Arabidopsis</i> Roots. <i>Frontiers in Plant Science</i> , 2020, 11, 578.	3.6	48
15	Structural basis for specific inhibition of the highly sensitive Sh <i>HTL</i> 7 receptor. <i>EMBO Reports</i> , 2018, 19, .	4.5	47
16	<i>S</i> triga hermonthica <i>MAX2</i> restores branching but not the <i>V</i> ery <i>L</i> ow <i>F</i> luence <i>R</i> esponse in the <i>A</i> rabidopsis thaliana <i>max2</i> mutant. <i>New Phytologist</i> , 2014, 202, 531-541.	7.3	40
17	3-Hydroxycarlactone, a Novel Product of the Strigolactone Biosynthesis Core Pathway. <i>Molecular Plant</i> , 2018, 11, 1312-1314.	8.3	38
18	Current progress in <i>Striga</i> management. <i>Plant Physiology</i> , 2021, 185, 1339-1352.	4.8	37

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19	Effect of diammonium phosphate application on strigolactone production and <i>Striga hermonthica</i> infection in three sorghum cultivars. <i>Weed Research</i> , 2013, 53, 121-130.	1.7	30
20	Efficient Mimics for Elucidating Zaxinone Biology and Promoting Agricultural Applications. <i>Molecular Plant</i> , 2020, 13, 1654-1661.	8.3	24
21	Nitro-Phenlactone, a Carlactone Analog with Pleiotropic Strigolactone Activities. <i>Molecular Plant</i> , 2016, 9, 1341-1344.	8.3	22
22	SeedQuant: a deep learning-based tool for assessing stimulant and inhibitor activity on root parasitic seeds. <i>Plant Physiology</i> , 2021, 186, 1632-1644.	4.8	21
23	<i>Striga hermonthica</i> Suicidal Germination Activity of Potent Strigolactone Analogs: Evaluation from Laboratory Bioassays to Field Trials. <i>Plants</i> , 2022, 11, 1045.	3.5	21
24	Aromatic A-ring analogues of orobanchol, new germination stimulants for seeds of parasitic weeds. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2286.	2.8	20
25	Effect of the strigolactone analogs methyl phenlactonoates on spore germination and root colonization of arbuscular mycorrhizal fungi. <i>Heliyon</i> , 2018, 4, e00936.	3.2	20
26	Methylation at the C-3 in D-Ring of Strigolactone Analogs Reduces Biological Activity in Root Parasitic Plants and Rice. <i>Frontiers in Plant Science</i> , 2019, 10, 353.	3.6	20
27	Protocol for characterizing strigolactones released by plant roots. <i>STAR Protocols</i> , 2022, 3, 101352.	1.2	20
28	A New Series of Carlactonoic Acid Based Strigolactone Analogs for Fundamental and Applied Research. <i>Frontiers in Plant Science</i> , 2020, 11, 434.	3.6	19
29	Multi-omics approaches explain the growth-promoting effect of the apocarotenoid growth regulator zaxinone in rice. <i>Communications Biology</i> , 2021, 4, 1222.	4.4	18
30	A New Formulation for Strigolactone Suicidal Germination Agents, towards Successful Striga Management. <i>Plants</i> , 2022, 11, 808.	3.5	18
31	Differential Activity of <i>Striga hermonthica</i> Seed Germination Stimulants and <i>Gigaspora rosea</i> Hyphal Branching Factors in Rice and Their Contribution to Underground Communication. <i>PLoS ONE</i> , 2014, 9, e104201.	2.5	14
32	Rational design of <i>Striga hermonthica</i> -specific seed germination inhibitors. <i>Plant Physiology</i> , 2022, 188, 1369-1384.	4.8	12
33	A PLETHORA/PIN-FORMED/auxin network mediates prehaustorium formation in the parasitic plant <i>Striga hermonthica</i> . <i>Plant Physiology</i> , 2022, 189, 2281-2297.	4.8	7
34	Evaluation of the Biostimulant Activity of Zaxinone Mimics (MiZax) in Crop Plants. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	5
35	Effect of D-ring C-3 TM methylation of strigolactone analogs on their transcription regulating activity in rice. <i>Plant Signaling and Behavior</i> , 2019, 14, 1668234.	2.4	1
36	Strigolactones: A Cry for Help Results in Fatal Attraction. Is Escape Possible?. , 2012, , 199-211.		0