Matthew D Lebar

List of Publications by Year
in descending order

39 papers	1,734 citations	304743 22 h-index	315739 38 g-index
43 all docs	43 docs citations	43 times ranked	2286 citing authors

#	Article	IF	Citations
1	MurJ is the flippase of lipid-linked precursors for peptidoglycan biogenesis. Science, 2014, 345, 220-222.	12.6	278
2	D-Amino Acids Indirectly Inhibit Biofilm Formation in Bacillus subtilis by Interfering with Protein Synthesis. Journal of Bacteriology, 2013, 195, 5391-5395.	2.2	178
3	Cold-water marine natural products. Natural Product Reports, 2007, 24, 774.	10.3	145
4	Detection of Lipid-Linked Peptidoglycan Precursors by Exploiting an Unexpected Transpeptidase Reaction. Journal of the American Chemical Society, 2014, 136, 14678-14681.	13.7	100
5	Reconstitution of Peptidoglycan Cross-Linking Leads to Improved Fluorescent Probes of Cell Wall Synthesis. Journal of the American Chemical Society, 2014, 136, 10874-10877.	13.7	99
6	Laboratory Studies on the Formation of Three C2H4O Isomersâ€”Acetaldehyde (CH3CHO), Ethylene Oxide (câ€C2H4O), and Vinyl Alcohol (CH2CHOH)â€”in Interstellar and Cometary Ices. Astrophysical Journal, 2005, 634, 698-711.	4.5	86
7	Lipoprotein Activators Stimulate <i>Escherichia coli</i> Penicillin-Binding Proteins by Different Mechanisms. Journal of the American Chemical Society, 2014, 136, 52-55.	13.7	72
8	The Diarylheptanoid (+)-a<i>R</i>,11<i>S-</i>Myricanol and Two Flavones from Bayberry (<i>Myrica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 74, 38-44.	3.0	60
9	Screening Mangrove Endophytic Fungi for Antimalarial Natural Products. Marine Drugs, 2013, 11, 5036-5050.	4.6	58
10	Forming Cross-Linked Peptidoglycan from Synthetic Gram-Negative Lipid II. Journal of the American Chemical Society, 2013, 135, 4632-4635.	13.7	48
11	Synthesis and Structure Reassessment of Psammopemmin A. Australian Journal of Chemistry, 2010, 63, 862.	0.9	47
12	Biosynthesis of conidial and sclerotial pigments in Aspergillus species. Applied Microbiology and Biotechnology, 2020, 104, 2277-2286.	3.6	47
13	The Aspergillus flavus Homeobox Gene, hbx1, Is Required for Development and Aflatoxin Production. Toxins, 2017, 9, 315.	3.4	38
14	On the stereochemistry of palmerolide A. Tetrahedron Letters, 2007, 48, 8009-8010.	1.4	34
15	RNA interference-based silencing of the alpha-amylase (amy1) gene in Aspergillus flavus decreases fungal growth and aflatoxin production in maize kernels. Planta, 2018, 247, 1465-1473.	3.2	34
16	<i>Aspergillus flavus</i> Secondary Metabolites: More than Just Aflatoxins. Food Safety (Tokyo, Japan), 2018, 6, 7-32.	1.8	33
17	The Aspergillus flavus Spermidine Synthase (spds) Gene, Is Required for Normal Development, Aflatoxin Production, and Pathogenesis During Infection of Maize Kernels. Frontiers in Plant Science, 2018, 9, 317.	3.6	32
18	CNS and antimalarial activity of synthetic meridianin and psammopemmin analogs. Bioorganic and Medicinal Chemistry, 2011, 19, 5756-5762.	3.0	31

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19	Carbon Dioxide Mediates the Response to Temperature and Water Activity Levels in Aspergillus flavus during Infection of Maize Kernels. Toxins, 2018, 10, 5.	3.4	31
20	Identification and functional analysis of the aspergillic acid gene cluster in Aspergillus flavus. Fungal Genetics and Biology, 2018, 116, 14-23.	2.1	30
21	Contribution of Maize Polyamine and Amino Acid Metabolism Toward Resistance Against Aspergillus flavus Infection and Aflatoxin Production. Frontiers in Plant Science, 2019, 10, 692.	3.6	28
22	Whole genome comparison of Aspergillus flavus L-morphotype strain NRRL 3357 (type) and S-morphotype strain AF70. PLoS ONE, 2018, 13, e0199169.	2.5	27
23	The potential role of fungal volatile organic compounds in Aspergillus flavus biocontrol efficacy. Biological Control, 2021, 160, 104686.	3.0	24
24	A mutant Escherichia coli that attaches peptidoglycan to lipopolysaccharide and displays cell wall on its surface. ELife, 2014, 3, e05334.	6.0	23
25	A Fluorescent Probe Distinguishes between Inhibition of Early and Late Steps of Lipopolysaccharide Biogenesis in Whole Cells. ACS Chemical Biology, 2017, 12, 928-932.	3.4	22
26	Chemical repertoire and biosynthetic machinery of the <i>Aspergillus flavus</i> secondary metabolome: A review. Comprehensive Reviews in Food Science and Food Safety, 2020, 19, 2797-2842.	11.7	22
27	The Pathogenesis-Related Maize Seed (PRms) Gene Plays a Role in Resistance to Aspergillus flavus Infection and Aflatoxin Contamination. Frontiers in Plant Science, 2017, 8, 1758.	3.6	20
28	Synthesis of the C3â€"14 fragment of palmerolide A using a chiral pool based strategy. Tetrahedron, 2010, 66, 1557-1562.	1.9	19
29	Identification of a copper-transporting ATPase involved in biosynthesis of A. flavus conidial pigment. Applied Microbiology and Biotechnology, 2019, 103, 4889-4897.	3.6	17
30	Genetic Responses and Aflatoxin Inhibition during Co-Culture of Aflatoxigenic and Non-Aflatoxigenic Aspergillus flavus. Toxins, 2021, 13, 794.	3.4	9
31	Accumulation of vanadium, manganese, and nickel in Antarctic tunicates. Polar Biology, 2011, 34, 587-590.	1.2	8
32	Characterization of morphological changes within stromata during sexual reproduction in <i>Aspergillus flavus</i>. Mycologia, 2020, 112, 908-920.	1.9	7
33	Miniaturized Cultivation of Microbiota for Antimalarial Drug Discovery. Medicinal Research Reviews, 2016, 36, 144-168.	10.5	6
34	Cumulative Effects of Non-Aflatoxigenic Aspergillus flavus Volatile Organic Compounds to Abate Toxin Production by Mycotoxigenic Aspergilli. Toxins, 2022, 14, 340.	3.4	6
35	rmtA-Dependent Transcriptome and Its Role in Secondary Metabolism, Environmental Stress, and Virulence in Aspergillus flavus. G3: Genes, Genomes, Genetics, 2019, 9, 4087-4096.	1.8	5
36	Flavonoids Modulate the Accumulation of Toxins From Aspergillus flavus in Maize Kernels. Frontiers in Plant Science, 2021, 12, 761446.	3.6	5

#	Article	IF	Citations
37	Development of sexual structures influences metabolomic and transcriptomic profiles in Aspergillus flavus. Fungal Biology, 2022, 126, 187-200.	2.5	4
38	Dataset for transcriptomic profiles associated with development of sexual structures in Aspergillus flavus. Data in Brief, 2022, 42, 108033.	1.0	1
39	Detection of Lipidâ€Linked Peptidoglycan Precursors by Exploiting an Unexpected Transpeptidase Reaction. FASEB Journal, 2015, 29, 573.11.	0.5	0