Yana Y Toporkova

List of Publications by Year
in descending order

26	331	759233 12	839539 18
papers	citations	h-index	g-index

27	27	27	174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Differential modulation of the lipoxygenase cascade during typical and latent Pectobacterium atrosepticum infections. Annals of Botany, 2022, 129, 271-286.	2.9	12
2	Oxylipin biosynthesis in spikemoss Selaginella moellendorffii: Identification of allene oxide synthase (CYP74L2) and hydroperoxide lyase (CYP74L1). Phytochemistry, 2022, 195, 113051.	2.9	1
3	Gene Expression Analysis of Potato (Solanum tuberosum L.) Lipoxygenase Cascade and Oxylipin Signature under Abiotic Stress. Plants, 2022, 11, 683.	3.5	5
4	Detection of divinyl ether synthase CYP74H2 biosynthesizing (11Z)-etheroleic and (1Ê¹Z)-colnelenic acids in asparagus (Asparagus officinalis L.). Phytochemistry, 2022, 200, 113212.	2.9	2
5	Lipoxygenase pathway in brown algae: The biosynthesis of novel oxylipins â€˜ectocarpinsâ€™ by hydroperoxide bicyclase CYP5164A3 of Ectocarpus siliculosus. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159205.	2.4	3
6	Detection of the First Epoxyalcohol Synthase/Allene Oxide Synthase (CYP74 Clan) in the Lancelet (Branchiostoma belcheri, Chordata). International Journal of Molecular Sciences, 2021, 22, 4737.	4.1	4
7	Hydroperoxide bicyclase CYP50918A1 of Plasmodiophora brassicae (Rhizaria, SAR): Detection of novel enzyme of oxylipin biosynthesis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 159042.	2.4	1
8	Catalysis by allene oxide synthases (CYP74A and CYP74C): Alterations by the Phe/Leu mutation at the SRS-1 region. Phytochemistry, 2020, 169, 112152.	2.9	9
9	The CYP74B and CYP74D divinyl ether synthases possess a side hydroperoxide lyase and epoxyalcohol synthase activities that are enhanced by the site-directed mutagenesis. Phytochemistry, 2020, 179, 112512.	2.9	7
10	Epoxyalcohol synthase activity of the CYP74B enzymes of higher plants. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158743.	2.4	10
11	Detection of unprecedented allene oxide synthase member of CYP74B subfamily: CYP74B33 of carrot (Daucus carota). Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 1580-1590.	2.4	7
12	Double function hydroperoxide lyases/epoxyalcohol synthases (CYP74C) of higher plants: identification and conversion into allene oxide synthases by site-directed mutagenesis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 369-378.	2.4	18
13	Antimicrobial Activity of Geometric Isomers of Etherolenic Acidâ€”the Products of Plant Lipoxygenase Cascade. Doklady Biochemistry and Biophysics, 2018, 480, 139-142.	0.9	5
14	Detection of the first higher plant epoxyalcohol synthase: Molecular cloning and characterisation of the CYP74M2 enzyme of spikemoss Selaginella moellendorffii. Phytochemistry, 2018, 156, 73-82.	2.9	13
15	Epoxyalcohol synthase of Ectocarpus siliculosus . First CYP74-related enzyme of oxylipin biosynthesis in brown algae. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 167-175.	2.4	19
16	NMR structure, conformational dynamics, and biological activity of Ps Def1 defensin from Pinus sylvestris. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1085-1094.	2.3	15
17	Identification of CYP443D1 (CYP74 clan) of Nematostella vectensis as a first cnidarian epoxyalcohol synthase and insights into its catalytic mechanism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1099-1109.	2.4	16
18	Oxylipin biosynthesis in spikemoss Selaginella moellendorffii: Molecular cloning and identification of divinyl ether synthases CYP74M1 and CYP74M3. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 301-309.	2.4	15

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19	Structure of Scots pine defensin 1 by spectroscopic methods and computational modeling. International Journal of Biological Macromolecules, 2016, 84, 142-152.	7.5	13
20	Stereospecific biosynthesis of (9S,13S)-10-oxo-phytoenoic acid in young maize roots. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1262-1270.	2.4	11
21	Detection and molecular cloning of CYP74Q1 gene: Identification of Ranunculus acris leaf divinyl ether synthase. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1227-1233.	2.4	9
22	Structureâ€“function relationship in the CYP74 family: Conversion of divinyl ether synthases into allene oxide synthases by siteâ€directed mutagenesis. FEBS Letters, 2013, 587, 2552-2558.	2.8	24
23	Green leaf divinyl ether synthase: Gene detection, molecular cloning and identification of a unique CYP74B subfamily member. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 287-294.	2.4	22
24	Novel Allene Oxide Synthase Products Formed via Favorskiiâ€Type Rearrangement: Mechanistic Implications for 12â€Oxoâ€10,15â€phytodienoic Acid Biosynthesis. ChemBioChem, 2011, 12, 2511-2517.	2.6	9
25	Tomato CYP74C3 is a Multifunctional Enzyme not only Synthesizing Allene Oxide but also Catalyzing its Hydrolysis and Cyclization. ChemBioChem, 2008, 9, 2498-2505.	2.6	42
26	Determinants governing the CYP74 catalysis: Conversion of allene oxide synthase into hydroperoxide lyase by siteâ€directed mutagenesis. FEBS Letters, 2008, 582, 3423-3428.	2.8	39