Seung Sik Lee

List of Publications by Year
in descending order

33	1,146	687363 13	454955 30
papers	citations	h-index	g-index

33	33	33	1641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two Enzymes in One. Cell, 2004, 117, 625-635.	28.9	696
2	Heat-shock dependent oligomeric status alters the function of a plant-specific thioredoxin-like protein, AtTDX. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5978-5983.	7.1	97
3	Ionizing radiation manifesting DNA damage response in plants: An overview of DNA damage signaling and repair mechanisms in plants. Plant Science, 2019, 278, 44-53.	3.6	46
4	Structural and functional regulation of eukaryotic 2â€Cys peroxiredoxins including the plant ones in cellular defenseâ€signaling mechanisms against oxidative stress. Physiologia Plantarum, 2006, 126, 549-559.	5.2	26
5	Site-directed mutagenesis substituting cysteine for serine in 2-Cys peroxiredoxin (2-Cys Prx A) ofArabidopsis thalianaeffectively improves its peroxidase and chaperone functions. Annals of Botany, 2015, 116, 713-725.	2.9	26
6	Functional switching of a novel prokaryotic 2-Cys peroxiredoxin (PpPrx) under oxidative stress. Cell Stress and Chaperones, 2011, 16, 317-328.	2.9	19
7	Regulation of Dual Activity of Ascorbate Peroxidase 1 From Arabidopsis thaliana by Conformational Changes and Posttranslational Modifications. Frontiers in Plant Science, 2021, 12, 678111.	3.6	19
8	Gamma irradiation-assisted degradation of rosmarinic acid and evaluation of structures and anti-adipogenic properties. Food Chemistry, 2018, 258, 181-188.	8.2	18
9	Development of an embryogenic callus induction method for centipede grass (Eremochloa) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T - Plant, 2009, 45, 155-161.	2.1	17
10	Site-specific mutagenesis of yeast 2-Cys peroxiredoxin improves heat or oxidative stress tolerance by enhancing its chaperone or peroxidase function. Protoplasma, 2017, 254, 327-334.	2.1	17
11	Functional switching of ascorbate peroxidase 2 of rice (OsAPX2) between peroxidase and molecular chaperone. Scientific Reports, 2018, 8, 9171.	3.3	16
12	GIGANTEA Regulates the Timing Stabilization of CONSTANS by Altering the Interaction between FKF1 and ZEITLUPE. Molecules and Cells, 2019, 42, 693-701.	2.6	16
13	Gamma irradiation of aloe-emodin induced structural modification and apoptosis through a ROS- and caspase-dependent mitochondrial pathway in stomach tumor cells. International Journal of Radiation Biology, 2018, 94, 403-416.	1.8	15
14	Characterization of histone modifications associated with DNA damage repair genes upon exposure to gamma rays in Arabidopsis seedlings. Journal of Radiation Research, 2016, 57, 646-654.	1.6	13
15	Mutation in DDM1 inhibits the homology directed repair of double strand breaks. PLoS ONE, 2019, 14, e0211878.	2.5	13
16	Degradation of cyanidin-3-rutinoside and formation of protocatechuic acid methyl ester in methanol solution by gamma irradiation. Food Chemistry, 2014, 156, 312-318.	8.2	12
17	Structural insights into stressosome assembly. IUCrJ, 2019, 6, 938-947.	2.2	11
18	Novel functions of peroxiredoxin Q from Deinococcus radiodurans R1 as a peroxidase and a molecular chaperone. FEBS Letters, 2019, 593, 219-229.	2.8	10

#	Article	IF	Citations
19	An additional cysteine in a typical 2â€Cys peroxiredoxin ofPseudomonas promotes functional switching between peroxidase and molecular chaperone. FEBS Letters, 2015, 589, 2831-2840.	2.8	8
20	Enhancement of the Chaperone Activity of Alkyl Hydroperoxide Reductase C from Pseudomonas aeruginosa PAO1 Resulting from a Point-Specific Mutation Confers Heat Tolerance in Escherichia coli. Molecules and Cells, 2016, 39, 594-602.	2.6	8
21	The relationship between lignin and morphological characteristics of the tracheary elements from cacao(Theobroma cacao L.) Hulls. Journal of Plant Biology, 2008, 51, 139-144.	2.1	5
22	Liquid chromatography-tandem mass spectrometry-assisted identification of two salinity-inducible ascorbate peroxidases in a salt-sensitive rice cultivar (Oryza sativa L. cv. â€˜IR-29â€™). Plant Growth Regulation, 2015, 75, 143-153.	3.4	5
23	Comparative Analysis of Volatile Terpenoids Composition in Rosemary Leaves in Response to Ionizing Radiation. Journal of Essential Oil-bearing Plants: JEOP, 2020, 23, 594-600.	1.9	5
24	Radioprotective effects of centipedegrass extract on NIHâ€˜3T3 fibroblasts via antiâ€˜oxidative activity. Experimental and Therapeutic Medicine, 2021, 21, 419.	1.8	5
25	Global analysis of disulfide bond proteins inPseudomonas aeruginosaexposed to hydrogen peroxide and gamma rays. International Journal of Radiation Biology, 2010, 86, 400-408.	1.8	4
26	Functional and genomic characterization of a wound- and methyl jasmonate-inducible chalcone isomerase in Eremochloa ophiuroides [Munro] Hack. Plant Physiology and Biochemistry, 2019, 144, 355-364.	5.8	4
27	Transcriptome-guided identification and functional characterization of key terpene synthases involved in constitutive and methyl jasmonate-inducible volatile terpene formation in Eremochloa ophiuroides (Munro) Hack. Plant Physiology and Biochemistry, 2019, 141, 193-201.	5.8	4
28	Enhancement of Chaperone Activity of Plant-Specific Thioredoxin through Î³-Ray Mediated Conformational Change. International Journal of Molecular Sciences, 2015, 16, 27302-27312.	4.1	3
29	Centipedegrass extracts regulate LPS-mediated aberrant immune responses by inhibiting Janus kinase. Phytomedicine, 2019, 55, 172-178.	5.3	3
30	Removing Undesirable Color and Boosting Biological Activity in Red Beet Extracts Using Gamma Irradiation. , 2012, , .		2
31	Functional properties and the oligomeric state of alkyl hydroperoxide reductase subunit F (AhpF) in Pseudomonas aeruginosa. Protoplasma, 2020, 257, 807-817.	2.1	2
32	Drastic Enhancement of Maysin and Maysin Derivatives Contents in the Centipedegrass Extracts by Different Stresses. , 2012, , .		1
33	A Pyridazine-Based Fluorescent Probe Targeting AÎ²Plaques in Alzheimerâ€™s Disease. Journal of Analytical Methods in Chemistry, 2018, 2018, 1-5.	1.6	0