

Paiboon Vattanaviboon

List of Publications by Year in descending order

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50
papers

1,255
citations

331670

21
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

1302
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial Ohr and OsmC paralogues define two protein families with distinct functions and patterns of expression. <i>Microbiology (United Kingdom)</i> , 2001, 147, 1775-1782.	1.8	97
2	ohrR and ohr Are the Primary Sensor/Regulator and Protective Genes against Organic Hydroperoxide Stress in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2006, 188, 842-851.	2.2	67
3	Gene Expression and Physiological Role of <i>Pseudomonas aeruginosa</i> Methionine Sulfoxide Reductases during Oxidative Stress. <i>Journal of Bacteriology</i> , 2013, 195, 3299-3308.	2.2	67
4	Regulation of the oxidative stress protective enzymes, catalase and superoxide dismutase in <i>Xanthomonas</i> – a review. <i>Gene</i> , 1996, 179, 33-37.	2.2	60
5	A <i>Xanthomonas</i> Alkyl Hydroperoxide Reductase Subunit C (ahpC) Mutant Showed an Altered Peroxide Stress Response and Complex Regulation of the Compensatory Response of Peroxide Detoxification Enzymes. <i>Journal of Bacteriology</i> , 2000, 182, 6845-6849.	2.2	59
6	<i>Pseudomonas aeruginosa</i> glutathione biosynthesis genes play multiple roles in stress protection, bacterial virulence and biofilm formation. <i>PLoS ONE</i> , 2018, 13, e0205815.	2.5	52
7	The Catalase-Peroxidase KatG Is Required for Virulence of <i>Xanthomonas campestris</i> pv. <i>campestris</i> in a Host Plant by Providing Protection against Low Levels of H ₂ O ₂ . <i>Journal of Bacteriology</i> , 2009, 191, 7372-7377.	2.2	48
8	The Iron-Sulphur Cluster Biosynthesis Regulator IscR Contributes to Iron Homeostasis and Resistance to Oxidants in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2014, 9, e86763.	2.5	43
9	Mutations of ferric uptake regulator (fur) impair iron homeostasis, growth, oxidative stress survival, and virulence of <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>Archives of Microbiology</i> , 2010, 192, 331-339.	2.2	41
10	The oxyR from <i>Agrobacterium tumefaciens</i> : evaluation of its role in the regulation of catalase and peroxide responses. <i>Biochemical and Biophysical Research Communications</i> , 2003, 304, 41-47.	2.1	40
11	OxyR mediated compensatory expression between ahpC and katA and the significance of ahpC in protection from hydrogen peroxide in <i>Xanthomonas campestris</i> . <i>FEMS Microbiology Letters</i> , 2005, 249, 73-78.	1.8	40
12	Multiple Superoxide Dismutases in <i>Agrobacterium tumefaciens</i> : Functional Analysis, Gene Regulation, and Influence on Tumorigenesis. <i>Journal of Bacteriology</i> , 2007, 189, 8807-8817.	2.2	40
13	<i>Pseudomonas aeruginosa</i> Thiol Peroxidase Protects against Hydrogen Peroxide Toxicity and Displays Atypical Patterns of Gene Regulation. <i>Journal of Bacteriology</i> , 2012, 194, 3904-3912.	2.2	38
14	The repressor for an organic peroxide-inducible operon is uniquely regulated at multiple levels. <i>Molecular Microbiology</i> , 2002, 44, 793-802.	2.5	35
15	Expression analysis and characterization of the mutant of a growth-phase- and starvation-regulated monofunctional catalase gene from <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> . <i>Gene</i> , 2000, 241, 259-265.	2.2	29
16	Mini-Tn7 vectors as genetic tools for gene cloning at a single copy number in an industrially important and phytopathogenic bacteria, <i>Xanthomonas</i> spp.. <i>FEMS Microbiology Letters</i> , 2009, 298, 111-117.	1.8	28
17	The role of a bifunctional catalase-peroxidase KatA in protection of <i>Agrobacterium tumefaciens</i> from menadione toxicity. <i>FEMS Microbiology Letters</i> , 2004, 232, 217-223.	1.8	26
18	Important Role for Methionine Sulfoxide Reductase in the Oxidative Stress Response of <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> . <i>Journal of Bacteriology</i> , 2005, 187, 5831-5836.	2.2	25

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19	Induction of peroxide and superoxide protective enzymes and physiological cross-protection against peroxide killing by a superoxide generator in <i>Vibrio harveyi</i> . <i>FEMS Microbiology Letters</i> , 2003, 221, 89-95.	1.8	24
20	Evaluation of the roles that alkyl hydroperoxide reductase and Ohr play in organic peroxide-induced gene expression and protection against organic peroxides in <i>Xanthomonas campestris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 177-182.	2.1	23
21	Genetic and physiological analysis of the major OxyR-regulated katA from <i>Xanthomonas campestris</i> pv. phaseoli. <i>Microbiology (United Kingdom)</i> , 2005, 151, 597-605.	1.8	23
22	<i>Agrobacterium tumefaciens</i> soxR Is Involved in Superoxide Stress Protection and Also Directly Regulates Superoxide-Inducible Expression of Itself and a Target Gene. <i>Journal of Bacteriology</i> , 2006, 188, 8669-8673.	2.2	22
23	<i>Pseudomonas aeruginosa</i> IscR-Regulated Ferredoxin NADP(+) Reductase Gene (<i>fprB</i>) Functions in Iron-Sulfur Cluster Biogenesis and Multiple Stress Response. <i>PLoS ONE</i> , 2015, 10, e0134374.	2.5	22
24	<i>Pseudomonas aeruginosa</i> ttcA encoding tRNA-thiolating protein requires an iron-sulfur cluster to participate in hydrogen peroxide-mediated stress protection and pathogenicity. <i>Scientific Reports</i> , 2018, 8, 11882.	3.3	21
25	IscR plays a role in oxidative stress resistance and pathogenicity of a plant pathogen, <i>Xanthomonas campestris</i> . <i>Microbiological Research</i> , 2015, 170, 139-146.	5.3	20
26	Regulation by SoxR of <i>mfsA</i> , Which Encodes a Major Facilitator Protein Involved in Paraquat Resistance in <i>Stenotrophomonas maltophilia</i> . <i>PLoS ONE</i> , 2015, 10, e0123699.	2.5	18
27	Mutation of the gene encoding monothiol glutaredoxin (<i>GrxD</i>) in <i>Pseudomonas aeruginosa</i> increases its susceptibility to polymyxins. <i>International Journal of Antimicrobial Agents</i> , 2015, 45, 314-318.	2.5	18
28	Evaluation of the Virulence of <i>Xanthomonas campestris</i> pv. <i>campestris</i> Mutant Strains Lacking Functional Genes in the OxyR Regulon. <i>Current Microbiology</i> , 2011, 63, 232-237.	2.2	16
29	Regulation of Organic Hydroperoxide Stress Response by Two OhrR Homologs in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2016, 11, e0161982.	2.5	16
30	The FinR-regulated essential gene <i>fprA</i> , encoding ferredoxin NADP+ reductase: Roles in superoxide-mediated stress protection and virulence of <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2017, 12, e0172071.	2.5	16
31	Copper ions potentiate organic hydroperoxide and hydrogen peroxide toxicity through different mechanisms in <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>FEMS Microbiology Letters</i> , 2010, 313, 75-80.	1.8	15
32	Major facilitator superfamily MfsA contributes to multidrug resistance in emerging nosocomial pathogen <i>Stenotrophomonas maltophilia</i> : Table A1.. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 2990-2991.	3.0	15
33	Atypical Adaptive and Cross-Protective Responses Against Peroxide Killing in a Bacterial Plant Pathogen, <i>Agrobacterium tumefaciens</i> . <i>Current Microbiology</i> , 2003, 47, 323-326.	2.2	14
34	Mutation in <i>scdA</i> affects cytochrome <i>c</i> assembly and alters oxidative stress resistance in <i>Agrobacterium tumefaciens</i> . <i>FEMS Microbiology Letters</i> , 2009, 293, 122-129.	1.8	14
35	Novel Roles of SoxR, a Transcriptional Regulator from <i>Xanthomonas campestris</i> , in Sensing Redox-Cycling Drugs and Regulating a Protective Gene That Have Overall Implications for Bacterial Stress Physiology and Virulence on a Host Plant. <i>Journal of Bacteriology</i> , 2012, 194, 209-217.	2.2	14
36	Overexpression of <i>Stenotrophomonas maltophilia</i> major facilitator superfamily protein MfsA increases resistance to fluoroquinolone antibiotics. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 1263-1266.	3.0	13

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37	Inactivation of bpsI1039-1040 ATP-binding cassette transporter reduces intracellular survival in macrophages, biofilm formation and virulence in the murine model of <i>Burkholderia pseudomallei</i> infection. <i>PLoS ONE</i> , 2018, 13, e0196202.	2.5	12
38	<i>Pseudomonas aeruginosa</i> nfuA: Gene regulation and its physiological roles in sustaining growth under stress and anaerobic conditions and maintaining bacterial virulence. <i>PLoS ONE</i> , 2018, 13, e0202151.	2.5	12
39	Inactivation of ahpC renders <i>Stenotrophomonas maltophilia</i> resistant to the disinfectant hydrogen peroxide. <i>Antonie Van Leeuwenhoek</i> , 2019, 112, 809-814.	1.7	11
40	A Suppressor of the Menadione-Hypersensitive Phenotype of a <i>Xanthomonas campestris</i> pv. <i>phaseoli</i> oxyR Mutant Reveals a Novel Mechanism of Toxicity and the Protective Role of Alkyl Hydroperoxide Reductase. <i>Journal of Bacteriology</i> , 2003, 185, 1734-1738.	2.2	8
41	Physiological and Expression Analyses of <i>Agrobacterium tumefaciens</i> trxA, Encoding Thioredoxin. <i>Journal of Bacteriology</i> , 2007, 189, 6477-6481.	2.2	8
42	mfzQ encoding an MFS efflux pump mediates adaptive protection of <i>Stenotrophomonas maltophilia</i> against benzalkonium chloride. <i>Canadian Journal of Microbiology</i> , 2021, 67, 491-495.	1.7	8
43	Transcriptional regulation of the <i>Pseudomonas aeruginosa</i> iron-sulfur cluster assembly pathway by binding of IscR to multiple sites. <i>PLoS ONE</i> , 2019, 14, e0218385.	2.5	6
44	The role of MfsR, a TetR-type transcriptional regulator, in adaptive protection of <i>Stenotrophomonas maltophilia</i> against benzalkonium chloride via the regulation of mfzQ. <i>FEMS Microbiology Letters</i> , 2021, 368, .	1.8	6
45	Catalase has a novel protective role against electrophile killing of <i>Xanthomonas</i> . <i>Microbiology (United Kingdom)</i> , 2001, 147, 491-498.	1.8	6
46	Copper chloride induces antioxidant gene expression but reduces ability to mediate H ₂ O ₂ toxicity in <i>Xanthomonas campestris</i> . <i>Microbiology (United Kingdom)</i> , 2014, 160, 458-466.	1.8	5
47	Identification of <i>Burkholderia pseudomallei</i> Genes Induced During Infection of Macrophages by Differential Fluorescence Induction. <i>Frontiers in Microbiology</i> , 2020, 11, 72.	3.5	5
48	<i>Agrobacterium tumefaciens</i> estC, Encoding an Enzyme Containing Esterase Activity, Is Regulated by EstR, a Regulator in the MarR Family. <i>PLoS ONE</i> , 2016, 11, e0168791.	2.5	4
49	Unusual adaptive, cross protection responses and growth phase resistance against peroxide killing in a bacterial shrimp pathogen, <i>Vibrio harveyi</i> . <i>FEMS Microbiology Letters</i> , 2001, 200, 111-116.	1.8	3
50	Induced adaptive and cross-protection responses against oxidative stress killing in a bacterial phytopathogen, <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> . <i>FEMS Microbiology Letters</i> , 1997, 146, 217-222.	1.8	2