

Thean Chor Leow

List of Publications by Year in descending order

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88
papers

1,726
citations

279487

23
h-index

344852

36
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88
all docs

88
docs citations

88
times ranked

1754
citing authors

#	ARTICLE	IF	CITATIONS
1	Ancestral sequence reconstruction of ancient lipase from family I.3 bacterial lipolytic enzymes. <i>Molecular Phylogenetics and Evolution</i> , 2022, 168, 107381.	1.2	13
2	Clinical and Preclinical Studies of Fermented Foods and Their Effects on Alzheimer's Disease. <i>Antioxidants</i> , 2022, 11, 883.	2.2	21
3	Unraveling the crystal structure of <i>Leptospira kmetyi</i> riboflavin synthase and computational analyses for potential development of new antibacterials. <i>Journal of Molecular Structure</i> , 2022, 1265, 133420.	1.8	3
4	Thermostability engineering of industrial enzymes through structure modification. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4845-4866.	1.7	26
5	Structure Prediction and Characterization of Thermostable Aldehyde Dehydrogenase from Newly Isolated <i>Anoxybacillus geothermalis</i> Strain D9. <i>Microorganisms</i> , 2022, 10, 1444.	1.6	8
6	Identification of potential riboflavin synthase inhibitors by virtual screening and molecular dynamics simulation studies. <i>Journal of King Saud University - Science</i> , 2021, 33, 101270.	1.6	6
7	Structure elucidation and docking analysis of 5M mutant of T1 lipase <i>Geobacillus zalihae</i> . <i>PLoS ONE</i> , 2021, 16, e0251751.	1.1	3
8	Discovery of new inhibitor for the protein arginine deiminase type 4 (PAD4) by rational design of L- α -enolase-derived peptides. <i>Computational Biology and Chemistry</i> , 2021, 92, 107487.	1.1	4
9	Enhancing the stability of <i>Geobacillus zalihae</i> T1 lipase in organic solvents and insights into the structural stability of its variants. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 105, 107897.	1.3	3
10	Membrane-bound Δ^12 fatty acid desaturase (FAD12); From <i>Brassica napus</i> to <i>E. coli</i> expression system. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 242-251.	3.6	1
11	Selected Kefir Water from Malaysia Attenuates Hydrogen Peroxide-Induced Oxidative Stress by Upregulating Endogenous Antioxidant Levels in SH-SY5Y Neuroblastoma Cells. <i>Antioxidants</i> , 2021, 10, 940.	2.2	10
12	Metagenomic and phytochemical analyses of kefir water and its subchronic toxicity study in BALB/c mice. <i>BMC Complementary Medicine and Therapies</i> , 2021, 21, 183.	1.2	15
13	Thermostable lipases and their dynamics of improved enzymatic properties. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7069-7094.	1.7	25
14	An integrated overview of bacterial carboxylesterase: Structure, function and biocatalytic applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111882.	2.5	20
15	The Influence of Calcium toward Order/Disorder Conformation of Repeat-in-Toxin (RTX) Structure of Family I.3 Lipase from <i>Pseudomonas fluorescens</i> AMS8. <i>Toxins</i> , 2020, 12, 579.	1.5	3
16	Cyanobacterial aldehyde deformylating oxygenase: Structure, function, and potential in biofuels production. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3155-3162.	3.6	12
17	Main Structural Targets for Engineering Lipase Substrate Specificity. <i>Catalysts</i> , 2020, 10, 747.	1.6	35
18	A Host-Vector System for the Expression of a Thermostable Bacterial Lipase in a Locally Isolated <i>Meyerozyma guilliermondii</i> SMB. <i>Microorganisms</i> , 2020, 8, 1738.	1.6	1

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19	Single Residue Substitution at N-Terminal Affects Temperature Stability and Activity of L2 Lipase. <i>Molecules</i> , 2020, 25, 3433.	1.7	8
20	Integrative Structural and Computational Biology of Phytases for the Animal Feed Industry. <i>Catalysts</i> , 2020, 10, 844.	1.6	7
21	Ion-Pair Interaction and Hydrogen Bonds as Main Features of Protein Thermostability in Mutated T1 Recombinant Lipase Originating from <i>Geobacillus zalihae</i> . <i>Molecules</i> , 2020, 25, 3430.	1.7	7
22	Effective refolding of a cysteine rich glycoside hydrolase family 19 recombinant chitinase from <i>Streptomyces griseus</i> by reverse dilution and affinity chromatography. <i>PLoS ONE</i> , 2020, 15, e0241074.	1.1	1
23	The Role of Surface Exposed Lysine in Conformational Stability and Functional Properties of Lipase from <i>Staphylococcus</i> Family. <i>Molecules</i> , 2020, 25, 3858.	1.7	4
24	Newly Isolated Alkane Hydroxylase and Lipase Producing <i>Geobacillus</i> and <i>Anoxybacillus</i> Species Involved in Crude Oil Degradation. <i>Catalysts</i> , 2020, 10, 851.	1.6	15
25	Design and Characterisation of Inhibitory Peptides against Bleg1_2478, an Evolutionary Divergent B3 Metallo- β -lactamase. <i>Molecules</i> , 2020, 25, 5797.	1.7	5
26	Antifreeze Proteins and Their Practical Utilization in Industry, Medicine, and Agriculture. <i>Biomolecules</i> , 2020, 10, 1649.	1.8	53
27	Calcium-Induced Activity and Folding of a Repeat in Toxin Lipase from Antarctic <i>Pseudomonas fluorescens</i> Strain AMS8. <i>Toxins</i> , 2020, 12, 27.	1.5	5
28	Genomic and phenomic analysis of a marine bacterium, <i>Photobacterium marinum</i> J15. <i>Microbiological Research</i> , 2020, 233, 126410.	2.5	3
29	Expression, Characterisation and Homology Modelling of a Novel Hormone-Sensitive Lipase (HSL)-Like Esterase from <i>Glaciozyma antarctica</i> . <i>Catalysts</i> , 2020, 10, 58.	1.6	14
30	Insight into Improved Thermostability of Cold-Adapted Staphylococcal Lipase by Glycine to Cysteine Mutation. <i>Molecules</i> , 2019, 24, 3169.	1.7	17
31	Recent advancement of engineering microbial hosts for the biotechnological production of flavonoids. <i>Molecular Biology Reports</i> , 2019, 46, 6647-6659.	1.0	40
32	Effects of Lid 1 Mutagenesis on Lid Displacement, Catalytic Performances and Thermostability of Cold-active <i>Pseudomonas</i> AMS8 Lipase in Toluene. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 215-228.	1.9	11
33	Changes of Thermostability, Organic Solvent, and pH Stability in <i>Geobacillus zalihae</i> HT1 and Its Mutant by Calcium Ion. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2561.	1.8	18
34	A Novel Mini Protein Design of Haloalkane Dehalogenase. <i>Molecular Biotechnology</i> , 2019, 61, 477-488.	1.3	3
35	Unravelling protein-organic solvent interaction of organic solvent tolerant elastase from <i>Pseudomonas aeruginosa</i> strain K crystal structure. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 575-584.	3.6	7
36	The Effects of One Amino Acid Substitutions at the C-Terminal Region of Thermostable L2 Lipase by Computational and Experimental Approach. <i>Molecular Biotechnology</i> , 2018, 60, 1-11.	1.3	14

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37	Expression and characterization of functional domains of FK506-binding protein 35 from <i>Plasmodium knowlesi</i> . <i>Protein Engineering, Design and Selection</i> , 2018, 31, 489-498.	1.0	5
38	Site-directed mutagenesis: role of lid region for T1 lipase specificity. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 221-229.	1.0	3
39	Conformational Design and Characterisation of a Truncated Diamine Oxidase from <i>Arthrobacter globiformis</i> . <i>High-Throughput</i> , 2018, 7, 21.	4.4	3
40	Dehalogenases: From Improved Performance to Potential Microbial Dehalogenation Applications. <i>Molecules</i> , 2018, 23, 1100.	1.7	51
41	The Effect of N-Terminal Domain Removal towards the Biochemical and Structural Features of a Thermotolerant Lipase from an Antarctic <i>Pseudomonas</i> sp. Strain AMS3. <i>International Journal of Molecular Sciences</i> , 2018, 19, 560.	1.8	18
42	In silico design of potentially functional artificial metallo-haloalkane dehalogenase containing catalytic zinc. <i>3 Biotech</i> , 2018, 8, 314.	1.1	2
43	Polyunsaturated fatty acids in marine bacteria and strategies to enhance their production. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5811-5826.	1.7	38
44	Crystallization and structure elucidation of GDSL esterase of <i>Photobacterium</i> sp. J15. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 1188-1194.	3.6	11
45	Enhancement of a protocol purifying T1 lipase through molecular approach. <i>PeerJ</i> , 2018, 6, e5833.	0.9	3
46	Biosynthesis of agar in red seaweeds: A review. <i>Carbohydrate Polymers</i> , 2017, 164, 23-30.	5.1	170
47	The biology and the importance of <i>Photobacterium</i> species. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4371-4385.	1.7	50
48	Factors affecting yield and gelling properties of agar. <i>Journal of Applied Phycology</i> , 2017, 29, 1527-1540.	1.5	82
49	Ability of T1 Lipase to Degrade Amorphous P(3HB): Structural and Functional Study. <i>Molecular Biotechnology</i> , 2017, 59, 284-293.	1.3	6
50	Novel furan-containing peptide-based inhibitors of protein arginine deiminase type IV (PAD4). <i>Chemical Biology and Drug Design</i> , 2017, 90, 1134-1146.	1.5	8
51	Directed Evolution of Recombinant C-Terminal Truncated <i>Staphylococcus epidermidis</i> Lipase AT2 for the Enhancement of Thermostability. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2202.	1.8	16
52	The Role of Solvent-Accessible Leu-208 of Cold-Active <i>Pseudomonas fluorescens</i> Strain AMS8 Lipase in Interfacial Activation, Substrate Accessibility and Low-Molecular Weight Esterification in the Presence of Toluene. <i>Molecules</i> , 2017, 22, 1312.	1.7	28
53	Molecular Dynamic Simulation of Space and Earth-Grown Crystal Structures of Thermostable T1 Lipase <i>Geobacillus zalihae</i> Revealed a Better Structure. <i>Molecules</i> , 2017, 22, 1574.	1.7	25
54	Lid opening and conformational stability of T1 Lipase is mediated by increasing chain length polar solvents. <i>PeerJ</i> , 2017, 5, e3341.	0.9	20

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55	Toluene promotes lid 2 interfacial activation of cold active solvent tolerant lipase from <i>Pseudomonas fluorescens</i> strain AMS8. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 68, 224-235.	1.3	18
56	Cold-adapted organic solvent tolerant alkalophilic family I.3 lipase from an Antarctic <i>Pseudomonas</i> . <i>International Journal of Biological Macromolecules</i> , 2016, 92, 1266-1276.	3.6	35
57	Facile modulation of enantioselectivity of thermophilic <i>Geobacillus zalihae</i> lipase by regulating hydrophobicity of its Q114 oxyanion. <i>Enzyme and Microbial Technology</i> , 2016, 93-94, 174-181.	1.6	7
58	Danger lurking in the "unknowns" structure-to-function studies of hypothetical protein Bleg1_2437 from <i>Bacillus lehensis</i> G1 alkaliphile revealed an evolutionary divergent B3 metallo-beta-lactamase. <i>Journal of Biochemistry</i> , 2016, 161, mvw058.	0.9	4
59	Complete Genome Sequence of <i>Photobacterium</i> sp. Strain J15, Isolated from Seawater of Southwestern Johor, Malaysia. <i>Genome Announcements</i> , 2016, 4, .	0.8	3
60	Cloning, expression and characterization of a novel cold-adapted GDSL family esterase from <i>Photobacterium</i> sp. strain J15. <i>Extremophiles</i> , 2016, 20, 45-55.	0.9	29
61	Expression and characterization of thermotolerant lipase with broad pH profiles isolated from an Antarctic <i>Pseudomonas</i> sp strain AMS3. <i>PeerJ</i> , 2016, 4, e2420.	0.9	16
62	Expression and characterization of thermostable glycogen branching enzyme from <i>Geobacillus mahadia</i> Geo-05. <i>PeerJ</i> , 2016, 4, e2714.	0.9	8
63	Expression and Characterization of <i>Geobacillus stearothermophilus</i> SR74 Recombinant α -Amylase in <i>Pichia pastoris</i> . <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	16
64	A newly isolated yeast as an expression host for recombinant lipase. <i>Cellular and Molecular Biology Letters</i> , 2015, 20, 279-93.	2.7	8
65	Development of a catalytically stable and efficient lipase through an increase in hydrophobicity of the oxyanion residue. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 282-288.	1.8	6
66	Influence of protein solution in nucleation and optimized formulation for the growth of ARM lipase crystal. <i>Journal of Crystal Growth</i> , 2015, 426, 234-242.	0.7	1
67	Adaptational properties and applications of cold-active lipases from psychrophilic bacteria. <i>Extremophiles</i> , 2015, 19, 235-247.	0.9	58
68	Molecular Characterization of a Recombinant Manganese Superoxide Dismutase from <i>Lactococcus lactis</i> M4. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	4
69	Enzymatic production of a solvent-free menthyl butyrate via response surface methodology catalyzed by a novel thermostable lipase from <i>Geobacillus zalihae</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2014, 28, 1065-1072.	0.5	29
70	Molecular characterization and homology modeling of a short-chain reductase/dehydrogenase from <i>Gracilaria changii</i> (Rhodophyta). <i>Journal of Applied Phycology</i> , 2014, 26, 665-674.	1.5	2
71	A New Cold-Adapted, Organic Solvent Stable Lipase from Mesophilic <i>Staphylococcus epidermidis</i> AT2. <i>Protein Journal</i> , 2014, 33, 296-307.	0.7	14
72	Unscrambling the Effect of C-Terminal Tail Deletion on the Stability of a Cold-Adapted, Organic Solvent Stable Lipase from <i>Staphylococcus epidermidis</i> AT2. <i>Molecular Biotechnology</i> , 2014, 56, 747-757.	1.3	18

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73	A Sco protein among the hypothetical proteins of <i>Bacillus lehensis</i> G1: Its 3D macromolecular structure and association with Cytochrome C Oxidase. <i>BMC Structural Biology</i> , 2014, 14, 11.	2.3	3
74	Characterisation and molecular dynamic simulations of J15 asparaginase from <i>Photobacterium</i> sp. strain J15. <i>Acta Biochimica Polonica</i> , 2014, 61, 745-52.	0.3	3
75	Improvement of Thermal Stability via Outer-Loop Ion Pair Interaction of Mutated T1 Lipase from <i>Geobacillus zalihae</i> Strain T1. <i>International Journal of Molecular Sciences</i> , 2012, 13, 943-960.	1.8	36
76	Combination of Oxyanion Gln114 Mutation and Medium Engineering to Influence the Enantioselectivity of Thermophilic Lipase from <i>Geobacillus zalihae</i> . <i>International Journal of Molecular Sciences</i> , 2012, 13, 11666-11680.	1.8	18
77	Unlocking the mystery behind the activation phenomenon of T1 lipase: A molecular dynamics simulations approach. <i>Protein Science</i> , 2012, 21, 1210-1221.	3.1	33
78	Reductive Alkylation Causes the Formation of a Molten Globule-Like Intermediate Structure in <i>Geobacillus zalihae</i> Strain T1 Thermostable Lipase. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 362-375.	1.4	4
79	Crystallization and preliminary X-ray crystallographic analysis of a thermostable organic solvent-tolerant lipase from <i>Bacillus</i> sp. strain 42. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 401-403.	0.7	2
80	Expression of an Organic Solvent Stable Lipase from <i>Staphylococcus epidermidis</i> AT2. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3195-3208.	1.8	16
81	Secretory expression and characterization of a highly Ca ²⁺ -activated thermostable L2 lipase. <i>Protein Expression and Purification</i> , 2009, 68, 161-166.	0.6	35
82	Novel cation- π interaction revealed by crystal structure of thermoalkalophilic lipase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 592-598.	1.5	68
83	High-Temperature Crystallization of Thermostable T1 Lipase. <i>Crystal Growth and Design</i> , 2007, 7, 406-410.	1.4	5
84	Production of L2 lipase by <i>Bacillus</i> sp. strain L2: nutritional and physical factors. <i>Journal of Basic Microbiology</i> , 2007, 47, 406-412.	1.8	27
85	<i>Geobacillus zalihae</i> sp. nov., a thermophilic lipolytic bacterium isolated from palm oil mill effluent in Malaysia. <i>BMC Microbiology</i> , 2007, 7, 77.	1.3	64
86	A thermoalkaliphilic lipase of <i>Geobacillus</i> sp. T1. <i>Extremophiles</i> , 2007, 11, 527-535.	0.9	77
87	Secretory expression of thermostable T1 lipase through bacteriocin release protein. <i>Protein Expression and Purification</i> , 2005, 40, 411-416.	0.6	25
88	High Level Expression of Thermostable Lipase from <i>Geobacillus</i> sp. Strain T1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 96-103.	0.6	54