Thean Chor Leow

List of Publications by Year
in descending order

88	1,726	279487 23	344852 36
papers	citations	h-index	g-index

88	88	88	1754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biosynthesis of agar in red seaweeds: A review. Carbohydrate Polymers, 2017, 164, 23-30.	5.1	170
2	Factors affecting yield and gelling properties of agar. Journal of Applied Phycology, 2017, 29, 1527-1540.	1.5	82
3	A thermoalkaliphilic lipase of Geobacillus sp. T1. Extremophiles, 2007, 11, 527-535.	0.9	77
4	Novel cationâ€ interaction revealed by crystal structure of thermoalkalophilic lipase. Proteins: Structure, Function and Bioinformatics, 2008, 70, 592-598.	1.5	68
5	Geobacillus zalihae sp. nov., a thermophilic lipolytic bacterium isolated from palm oil mill effluent in Malaysia. BMC Microbiology, 2007, 7, 77.	1.3	64
6	Adaptational properties and applications of cold-active lipases from psychrophilic bacteria. Extremophiles, 2015, 19, 235-247.	0.9	58
7	High Level Expression of Thermostable Lipase fromGeobacillussp. Strain T1. Bioscience, Biotechnology and Biochemistry, 2004, 68, 96-103.	0.6	54
8	Antifreeze Proteins and Their Practical Utilization in Industry, Medicine, and Agriculture. Biomolecules, 2020, 10, 1649.	1.8	53
9	Dehalogenases: From Improved Performance to Potential Microbial Dehalogenation Applications. Molecules, 2018, 23, 1100.	1.7	51
10	The biology and the importance of Photobacterium species. Applied Microbiology and Biotechnology, 2017, 101, 4371-4385.	1.7	50
11	Recent advancement of engineering microbial hosts for the biotechnological production of flavonoids. Molecular Biology Reports, 2019, 46, 6647-6659.	1.0	40
12	Polyunsaturated fatty acids in marine bacteria and strategies to enhance their production. Applied Microbiology and Biotechnology, 2018, 102, 5811-5826.	1.7	38
13	Improvement of Thermal Stability via Outer-Loop Ion Pair Interaction of Mutated T1 Lipase from Geobacillus zalihae Strain T1. International Journal of Molecular Sciences, 2012, 13, 943-960.	1.8	36
14	Secretory expression and characterization of a highly Ca2+-activated thermostable L2 lipase. Protein Expression and Purification, 2009, 68, 161-166.	0.6	35
15	Cold-adapted organic solvent tolerant alkalophilic family I.3 lipase from an Antarctic Pseudomonas. International Journal of Biological Macromolecules, 2016, 92, 1266-1276.	3.6	35
16	Main Structural Targets for Engineering Lipase Substrate Specificity. Catalysts, 2020, 10, 747.	1.6	35
17	Unlocking the mystery behind the activation phenomenon of T1 lipase: A molecular dynamics simulations approach. Protein Science, 2012, 21, 1210-1221.	3.1	33
18	Enzymatic production of a solvent-free menthyl butyrate via response surface methodology catalyzed by a novel thermostable lipase fromGeobacillus zalihae. Biotechnology and Biotechnological Equipment, 2014, 28, 1065-1072.	0.5	29

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19	Cloning, expression and characterization of a novel cold-adapted GDSL family esterase from Photobacterium sp. strain J15. Extremophiles, 2016, 20, 45-55.	0.9	29
20	The Role of Solvent-Accessible Leu-208 of Cold-Active Pseudomonas fluorescens Strain AMS8 Lipase in Interfacial Activation, Substrate Accessibility and Low-Molecular Weight Esterification in the Presence of Toluene. Molecules, 2017, 22, 1312.	1.7	28
21	Production of L2 lipase by Bacillus sp. strain L2: nutritional and physical factors. Journal of Basic Microbiology, 2007, 47, 406-412.	1.8	27
22	Thermostability engineering of industrial enzymes through structure modification. Applied Microbiology and Biotechnology, 2022, 106, 4845-4866.	1.7	26
23	Secretory expression of thermostable T1 lipase through bacteriocin release protein. Protein Expression and Purification, 2005, 40, 411-416.	0.6	25
24	Molecular Dynamic Simulation of Space and Earth-Grown Crystal Structures of Thermostable T1 Lipase Geobacillus zalihae Revealed a Better Structure. Molecules, 2017, 22, 1574.	1.7	25
25	Thermostable lipases and their dynamics of improved enzymatic properties. Applied Microbiology and Biotechnology, 2021, 105, 7069-7094.	1.7	25
26	Clinical and Preclinical Studies of Fermented Foods and Their Effects on Alzheimerâ€™s Disease. Antioxidants, 2022, 11, 883.	2.2	21
27	An integrated overview of bacterial carboxylesterase: Structure, function and biocatalytic applications. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111882.	2.5	20
28	Lid opening and conformational stability of T1 Lipase is mediated by increasing chain length polar solvents. PeerJ, 2017, 5, e3341.	0.9	20
29	Combination of Oxyanion Gln114 Mutation and Medium Engineering to Influence the Enantioselectivity of Thermophilic Lipase from Geobacillus zalihae. International Journal of Molecular Sciences, 2012, 13, 11666-11680.	1.8	18
30	Unscrambling the Effect of C-Terminal Tail Deletion on the Stability of a Cold-Adapted, Organic Solvent Stable Lipase from Staphylococcus epidermidis AT2. Molecular Biotechnology, 2014, 56, 747-757.	1.3	18
31	Toluene promotes lid 2 interfacial activation of cold active solvent tolerant lipase from Pseudomonas fluorescens strain AMS8. Journal of Molecular Graphics and Modelling, 2016, 68, 224-235.	1.3	18
32	The Effect of N-Terminal Domain Removal towards the Biochemical and Structural Features of a Thermotolerant Lipase from an Antarctic Pseudomonas sp. Strain AMS3. International Journal of Molecular Sciences, 2018, 19, 560.	1.8	18
33	Changes of Thermostability, Organic Solvent, and pH Stability in Geobacillus zalihae HT1 and Its Mutant by Calcium Ion. International Journal of Molecular Sciences, 2019, 20, 2561.	1.8	18
34	Insight into Improved Thermostability of Cold-Adapted Staphylococcal Lipase by Glycine to Cysteine Mutation. Molecules, 2019, 24, 3169.	1.7	17
35	Expression of an Organic Solvent Stable Lipase from Staphylococcus epidermidis AT2. International Journal of Molecular Sciences, 2010, 11, 3195-3208.	1.8	16
36	Expression and Characterization ofGeobacillus stearothermophilusSR74 RecombinantÎ±-Amylase inPichia pastoris. BioMed Research International, 2015, 2015, 1-9.	0.9	16

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37	Directed Evolution of Recombinant C-Terminal Truncated Staphylococcus epidermidis Lipase AT2 for the Enhancement of Thermostability. International Journal of Molecular Sciences, 2017, 18, 2202.	1.8	16
38	Expression and characterization of thermotolerant lipase with broad pH profiles isolated from an AntarcticPseudomonassp strain AMS3. PeerJ, 2016, 4, e2420.	0.9	16
39	Newly Isolated Alkane Hydroxylase and Lipase Producing Geobacillus and Anoxybacillus Species Involved in Crude Oil Degradation. Catalysts, 2020, 10, 851.	1.6	15
40	Metagenomic and phytochemical analyses of kefir water and its subchronic toxicity study in BALB/c mice. BMC Complementary Medicine and Therapies, 2021, 21, 183.	1.2	15
41	A New Cold-Adapted, Organic Solvent Stable Lipase from Mesophilic Staphylococcus epidermidis AT2. Protein Journal, 2014, 33, 296-307.	0.7	14
42	The Effects of One Amino Acid Substitutions at the C-Terminal Region of Thermostable L2 Lipase by Computational and Experimental Approach. Molecular Biotechnology, 2018, 60, 1-11.	1.3	14
43	Expression, Characterisation and Homology Modelling of a Novel Hormone-Sensitive Lipase (HSL)-Like Esterase from Glaciozyma antarctica. Catalysts, 2020, 10, 58.	1.6	14
44	Ancestral sequence reconstruction of ancient lipase from family I.3 bacterial lipolytic enzymes. Molecular Phylogenetics and Evolution, 2022, 168, 107381.	1.2	13
45	Cyanobacterial aldehyde deformylating oxygenase: Structure, function, and potential in biofuels production. International Journal of Biological Macromolecules, 2020, 164, 3155-3162.	3.6	12
46	Crystallization and structure elucidation of GDSL esterase of Photobacterium sp. J15. International Journal of Biological Macromolecules, 2018, 119, 1188-1194.	3.6	11
47	Effects of Lid 1 Mutagenesis on Lid Displacement, Catalytic Performances and Thermostability of Cold-active Pseudomonas AMS8 Lipase in Toluene. Computational and Structural Biotechnology Journal, 2019, 17, 215-228.	1.9	11
48	Selected Kefir Water from Malaysia Attenuates Hydrogen Peroxide-Induced Oxidative Stress by Upregulating Endogenous Antioxidant Levels in SH-SY5Y Neuroblastoma Cells. Antioxidants, 2021, 10, 940.	2.2	10
49	A newly isolated yeast as an expression host for recombinant lipase. Cellular and Molecular Biology Letters, 2015, 20, 279-93.	2.7	8
50	Novel furanâ€containing peptideâ€based inhibitors of protein arginine deiminase type IV (PAD4). Chemical Biology and Drug Design, 2017, 90, 1134-1146.	1.5	8
51	Single Residue Substitution at N-Terminal Affects Temperature Stability and Activity of L2 Lipase. Molecules, 2020, 25, 3433.	1.7	8
52	Expression and characterization of thermostable glycogen branching enzyme fromGeobacillus mahadiaGeo-05. PeerJ, 2016, 4, e2714.	0.9	8
53	Structure Prediction and Characterization of Thermostable Aldehyde Dehydrogenase from Newly Isolated Anoxybacillus geothermalis Strain D9. Microorganisms, 2022, 10, 1444.	1.6	8
54	Facile modulation of enantioselectivity of thermophilic Geobacillus zalihae lipase by regulating hydrophobicity of its Q114 oxyanion. Enzyme and Microbial Technology, 2016, 93-94, 174-181.	1.6	7

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55	Unravelling protein -organic solvent interaction of organic solvent tolerant elastase from Pseudomonas aeruginosa strain K crystal structure. International Journal of Biological Macromolecules, 2019, 127, 575-584.	3.6	7
56	Integrative Structural and Computational Biology of Phytases for the Animal Feed Industry. Catalysts, 2020, 10, 844.	1.6	7
57	Ion-Pair Interaction and Hydrogen Bonds as Main Features of Protein Thermostability in Mutated T1 Recombinant Lipase Originating from Geobacillus zalihae. Molecules, 2020, 25, 3430.	1.7	7
58	Development of a catalytically stable and efficient lipase through an increase in hydrophobicity of the oxyanion residue. Journal of Molecular Catalysis B: Enzymatic, 2015, 122, 282-288.	1.8	6
59	Ability of T1 Lipase to Degrade Amorphous P(3HB): Structural and Functional Study. Molecular Biotechnology, 2017, 59, 284-293.	1.3	6
60	Identification of potential riboflavin synthase inhibitors by virtual screening and molecular dynamics simulation studies. Journal of King Saud University - Science, 2021, 33, 101270.	1.6	6
61	High-Temperature Crystallization of Thermostable T1 Lipase. Crystal Growth and Design, 2007, 7, 406-410.	1.4	5
62	Expression and characterization of functional domains of FK506-binding protein 35 from Plasmodium knowlesi. Protein Engineering, Design and Selection, 2018, 31, 489-498.	1.0	5
63	Design and Characterisation of Inhibitory Peptides against Bleg1_2478, an Evolutionary Divergent B3 Metallo-Î²-lactamase. Molecules, 2020, 25, 5797.	1.7	5
64	Calcium-Induced Activity and Folding of a Repeat in Toxin Lipase from Antarctic Pseudomonas fluorescens Strain AMS8. Toxins, 2020, 12, 27.	1.5	5
65	Reductive Alkylation Causes the Formation of a Molten Globule-Like Intermediate Structure in Geobacillus zalihae Strain T1 Thermostable Lipase. Applied Biochemistry and Biotechnology, 2011, 164, 362-375.	1.4	4
66	Molecular Characterization of a Recombinant Manganese Superoxide Dismutase fromLactococcus lactisM4. BioMed Research International, 2014, 2014, 1-9.	0.9	4
67	Danger lurking in the â€œunknownsâ€: structure-to-function studies of hypothetical protein Bleg1_2437 fromBacillus lehensisG1 alkaliphile revealed an evolutionary divergent B3 metallo-beta-lactamase. Journal of Biochemistry, 2016, 161, mvw058.	0.9	4
68	The Role of Surface Exposed Lysine in Conformational Stability and Functional Properties of Lipase from Staphylococcus Family. Molecules, 2020, 25, 3858.	1.7	4
69	Discovery of new inhibitor for the protein arginine deiminase type 4 (PAD4) by rational design of Î±-enolase-derived peptides. Computational Biology and Chemistry, 2021, 92, 107487.	1.1	4
70	A Sco protein among the hypothetical proteins of Bacillus lehensis G1: Its 3D macromolecular structure and association with Cytochrome C Oxidase. BMC Structural Biology, 2014, 14, 11.	2.3	3
71	Complete Genome Sequence of Photobacterium sp. Strain J15, Isolated from Seawater of Southwestern Johor, Malaysia. Genome Announcements, 2016, 4, .	0.8	3
72	Site-directed mutagenesis: role of lid region for T1 lipase specificity. Protein Engineering, Design and Selection, 2018, 31, 221-229.	1.0	3

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73	Conformational Design and Characterisation of a Truncated Diamine Oxidase from Arthrobacter globiformis. High-Throughput, 2018, 7, 21.	4.4	3
74	A Novel Mini Protein Design of Haloalkane Dehalogenase. Molecular Biotechnology, 2019, 61, 477-488.	1.3	3
75	The Influence of Calcium toward Order/Disorder Conformation of Repeat-in-Toxin (RTX) Structure of Family I.3 Lipase from Pseudomonas fluorescens AMS8. Toxins, 2020, 12, 579.	1.5	3
76	Genomic and phenomic analysis of a marine bacterium, Photobacterium marinum J15. Microbiological Research, 2020, 233, 126410.	2.5	3
77	Structure elucidation and docking analysis of 5M mutant of T1 lipase Geobacillus zalihae. PLoS ONE, 2021, 16, e0251751.	1.1	3
78	Enhancing the stability of Geobacillus zalihae T1 lipase in organic solvents and insights into the structural stability of its variants. Journal of Molecular Graphics and Modelling, 2021, 105, 107897.	1.3	3
79	Enhancement of a protocol purifying T1 lipase through molecular approach. PeerJ, 2018, 6, e5833.	0.9	3
80	Characterisation and molecular dynamic simulations of J15 asparaginase from Photobacterium sp. strain J15. Acta Biochimica Polonica, 2014, 61, 745-52.	0.3	3
81	Unraveling the crystal structure of Leptospira kmetyi riboflavin synthase and computational analyses for potential development of new antibacterials. Journal of Molecular Structure, 2022, 1265, 133420.	1.8	3
82	Crystallization and preliminary X-ray crystallographic analysis of a thermostable organic solvent-tolerant lipase fromBacillussp. strain 42. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 401-403.	0.7	2
83	Molecular characterization and homology modeling of a short-chain reductase/dehydrogenase from Gracilaria changii (Rhodophyta). Journal of Applied Phycology, 2014, 26, 665-674.	1.5	2
84	In silico design of potentially functional artificial metallo-haloalkane dehalogenase containing catalytic zinc. 3 Biotech, 2018, 8, 314.	1.1	2
85	Influence of protein solution in nucleation and optimized formulation for the growth of ARM lipase crystal. Journal of Crystal Growth, 2015, 426, 234-242.	0.7	1
86	A Host-Vector System for the Expression of a Thermostable Bacterial Lipase in a Locally Isolated Meyerozyma guilliermondii SMB. Microorganisms, 2020, 8, 1738.	1.6	1
87	Effective refolding of a cysteine rich glycoside hydrolase family 19 recombinant chitinase from Streptomyces griseus by reverse dilution and affinity chromatography. PLoS ONE, 2020, 15, e0241074.	1.1	1
88	Membrane-bound Î”12 fatty acid desaturase (FAD12); From Brassica napus to E. coli expression system. International Journal of Biological Macromolecules, 2021, 180, 242-251.	3.6	1