

Rani Gupta

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,552
citations

279798

23
h-index

189892

50
g-index

61
all docs

61
docs citations

61
times ranked

2830
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a novel <i>Pichia pastoris</i> expression platform via genomic integration of lipase gene for sustained release of methanol from methyloleate. <i>Preparative Biochemistry and Biotechnology</i> , 2022, , 1-12.	1.9	1
2	N-truncation in lipase Lip11 from <i>Yarrowia lipolytica</i> alleviates substrate inhibition with improved stability and efficiency ensuing distinct structural modifications. <i>Process Biochemistry</i> , 2022, 116, 185-196.	3.7	1
3	Gamma cyclodextrin glycosyltransferase from <i>Evansella caseinilytica</i> : production, characterization and product specificity. <i>3 Biotech</i> , 2022, 12, 16.	2.2	7
4	Cell surface expression of $\hat{\Gamma}^3$ -CGTase from <i>Evansella caseinilytica</i> on <i>E. coli</i> : Application in the enzymatic conversion of starch to $\hat{\Gamma}^3$ -cyclodextrin. <i>Enzyme and Microbial Technology</i> , 2022, 159, 110066.	3.2	3
5	Bacterial Gamma-Glutamyl Transpeptidase, an Emerging Biocatalyst: Insights Into Structure–Function Relationship and Its Biotechnological Applications. <i>Frontiers in Microbiology</i> , 2021, 12, 641251.	3.5	29
6	Functional characterization of the extra sequence in the large subunit of $\hat{\Gamma}^3$ -glutamyl transpeptidase from <i>Bacillus atrophaeus</i> : Role in autoprocessing and activity. <i>Process Biochemistry</i> , 2021, 106, 199-212.	3.7	0
7	Disrupting putative N-glycosylation site N17 in lipase Lip11 of <i>Yarrowia lipolytica</i> yielded a catalytically efficient and thermostable variant accompanying conformational changes. <i>Enzyme and Microbial Technology</i> , 2021, 151, 109922.	3.2	6
8	Draft Genome Sequence of a Poly- $\hat{\Gamma}^3$ -Glutamic Acid-Producing Isolate, <i>Bacillus paralicheniformis</i> Strain bcasdu2018/01. <i>Microbiology Resource Announcements</i> , 2021, 10, e0101321.	0.6	0
9	High level extracellular production of recombinant $\hat{\Gamma}^3$ -glutamyl transpeptidase from <i>Bacillus licheniformis</i> in <i>Escherichia coli</i> fed-batch culture. <i>Enzyme and Microbial Technology</i> , 2018, 116, 23-32.	3.2	7
10	Characterization of a novel thiol activated phospholipase TAPLB1 from <i>Trichosporon asahii</i> MSR 54. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 537-546.	7.5	0
11	Hyperproduction of $\hat{\Gamma}^3$ -glutamyl transpeptidase from <i>Bacillus licheniformis</i> ER15 in the presence of high salt concentration. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 163-172.	1.9	8
12	Heterologous expression of $\hat{\Gamma}^3$ -glutamyl transpeptidase from <i>Bacillus atrophaeus</i> GS-16 and its application in the synthesis of $\hat{\Gamma}^3$ -d -glutamyl- l -tryptophan, a known immunomodulatory peptide. <i>Enzyme and Microbial Technology</i> , 2017, 99, 67-76.	3.2	18
13	High Resolution X-ray Diffraction Dataset for <i>Bacillus licheniformis</i> Gamma Glutamyl Transpeptidase-acivicin complex: SUMO-Tag Renders High Expression and Solubility. <i>Protein Journal</i> , 2017, 36, 7-16.	1.6	5
14	Targeted mutations and MD simulations of a methanol-stable lipase YLIP9 from <i>Yarrowia lipolytica</i> MSR80 to develop a biodiesel enzyme. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 78-88.	7.5	14
15	Evolving transpeptidase and hydrolytic variants of $\hat{\Gamma}^3$ -glutamyl transpeptidase from <i>Bacillus licheniformis</i> by targeted mutations of conserved residue Arg109 and their biotechnological relevance. <i>Journal of Biotechnology</i> , 2017, 249, 82-90.	3.8	11
16	Functional characterization of hormone sensitive-like lipase from <i>Bacillus halodurans</i> : synthesis and recovery of pNP-laurate with high yields. <i>Extremophiles</i> , 2017, 21, 871-889.	2.3	8
17	Heterologous expression of lipases YLIP4, YLIP5, YLIP7, YLIP13, and YLIP15 from <i>Yarrowia lipolytica</i> MSR80 in <i>Escherichia coli</i> : Substrate specificity, kinetic comparison, and enantioselectivity. <i>Biotechnology and Applied Biochemistry</i> , 2017, 64, 851-861.	3.1	9
18	Rational design of drug-like compounds targeting <i>Mycobacterium marinum</i> Melf protein. <i>PLoS ONE</i> , 2017, 12, e0183060.	2.5	13

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19	Localized surface plasmon resonance-based fiber-optic sensor for the detection of triacylglycerides using silver nanoparticles. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	23
20	Thermo- and salt-tolerant chitosan cross-linked \hat{I}^3 -glutamyl transpeptidase from <i>Bacillus licheniformis</i> ER15. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 544-553.	7.5	14
21	Long period fiber grating based sensor for the detection of triacylglycerides. <i>Biosensors and Bioelectronics</i> , 2016, 79, 693-700.	10.1	39
22	Novel S -enantioselective lipase TALipB from <i>Trichosporon asahii</i> MSR54: Heterologous expression, characterization, conformational stability and homology modeling. <i>Enzyme and Microbial Technology</i> , 2016, 83, 29-39.	3.2	11
23	Selective disruption of disulphide bonds lowered activation energy and improved catalytic efficiency in TALipB from <i>Trichosporon asahii</i> MSR54: MD simulations revealed flexible lid and extended substrate binding area in the mutant. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 223-230.	2.1	6
24	Long period fiber grating for the detection of triacylglycerides: Analytical and experimental study. , 2015, , .		0
25	Molecular and functional diversity of yeast and fungal lipases: Their role in biotechnology and cellular physiology. <i>Progress in Lipid Research</i> , 2015, 57, 40-54.	11.6	129
26	Functional Characterisation of Novel Enantioselective Lipase TALipA from <i>Trichosporon asahii</i> MSR54: Sequence Comparison Revealed New Signature Sequence AXSXG Among Yeast Lipases. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 360-371.	2.9	9
27	Cloning, Expression, and Biochemical Characterization of an Enantioselective Lipase, YLIP9, from <i>Yarrowia lipolytica</i> MSR80. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 110-124.	2.9	10
28	Extracellular expression of YLip11 with a native signal peptide from <i>Yarrowia lipolytica</i> MSR80 in three different yeast hosts. <i>Protein Expression and Purification</i> , 2015, 110, 138-144.	1.3	12
29	Phylogenetic and evolutionary analysis of functional divergence among Gamma glutamyl transpeptidase (GGT) subfamilies. <i>Biology Direct</i> , 2015, 10, 49.	4.6	29
30	Novel Strategy of Using Methyl Esters as Slow Release Methanol Source during Lipase Expression by mutant <i>Pichia pastoris</i> X33. <i>PLoS ONE</i> , 2014, 9, e104272.	2.5	7
31	Theanine Synthesis Using \hat{I}^3 -Glutamyl Transpeptidase from <i>Bacillus licheniformis</i> ER-15. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 9151-9159.	5.2	48
32	A hydrolytic \hat{I}^3 -glutamyl transpeptidase from thermo-acidophilic archaeon <i>Picrophilus torridus</i> : binding pocket mutagenesis and transpeptidation. <i>Extremophiles</i> , 2013, 17, 29-41.	2.3	20
33	Revisiting microbial keratinases: next generation proteases for sustainable biotechnology. <i>Critical Reviews in Biotechnology</i> , 2013, 33, 216-228.	9.0	113
34	Comparative biochemical characterization and in silico analysis of novel lipases Lip11 and Lip12 with Lip2 from <i>Yarrowia lipolytica</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 3103-3111.	3.6	19
35	\hat{I}^3 -Glutamyl transpeptidase from <i>Bacillus pumilus</i> KS 12: Decoupling autoprocessing from catalysis and molecular characterization of N-terminal region. <i>Enzyme and Microbial Technology</i> , 2012, 50, 159-164.	3.2	23
36	Cloning and characterization of a thermostable detergent-compatible recombinant keratinase from <i>Bacillus pumilus</i> KS12. <i>Biotechnology and Applied Biochemistry</i> , 2011, 58, 109-118.	3.1	17

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37	Medium optimization for a novel 58kDa dimeric keratinase from <i>Bacillus licheniformis</i> ER-15: Biochemical characterization and application in feather degradation and dehairing of hides. <i>Bioresource Technology</i> , 2010, 101, 6103-6110.	9.6	100
38	Extracellular Expression of Keratinase from <i>Bacillus licheniformis</i> ER-15 in <i>Escherichia coli</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8380-8385.	5.2	30
39	Green Enzymatic Synthesis of L-Ascorbyl Fatty Acid Ester: An Antioxidant. <i>Synthetic Communications</i> , 2009, 39, 1143-1151.	2.1	13
40	Keratinases vis-à-vis conventional proteases and feather degradation. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 1537-1540.	3.6	56
41	Microbial keratinases and their prospective applications: an overview. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 21-33.	3.6	525
42	Single-step purification of lipase from <i>Burkholderia multivorans</i> using polypropylene matrix. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 648-653.	3.6	28
43	Optimization of medium composition for keratinase production on feather by <i>Bacillus licheniformis</i> RG1 using statistical methods involving response surface methodology. <i>Biotechnology and Applied Biochemistry</i> , 2004, 40, 191.	3.1	93
44	Lipase assays for conventional and molecular screening: an overview. <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 63.	3.1	146
45	Lipase Mediated Upgradation of Dietary Fats and Oils. <i>Critical Reviews in Food Science and Nutrition</i> , 2003, 43, 635-644.	10.3	60
46	Microbial biomass: an economical alternative for removal of heavy metals from waste water. <i>Indian Journal of Experimental Biology</i> , 2003, 41, 945-66.	0.0	21
47	Statistical Media Optimization and Production of ITS α -Amylase from <i>Aspergillus oryzae</i> in a Bioreactor. <i>Current Microbiology</i> , 2002, 45, 203-208.	2.2	44
48	Simplified para-nitrophenyl palmitate assay for lipases and esterases. <i>Analytical Biochemistry</i> , 2002, 311, 98-99.	2.4	200
49	Fermentation waste of <i>Aspergillus terreus</i> : a potential copper biosorbent. <i>World Journal of Microbiology and Biotechnology</i> , 2002, 18, 397-401.	3.6	38
50	Reduced Uptake as a Mechanism of Zinc Tolerance in <i>Oscillatoria angustissima</i> . <i>Current Microbiology</i> , 2001, 43, 305-310.	2.2	14
51	Regulation of the production of polygalacturonase by <i>Aspergillus terreus</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 487-491.	3.6	25
52	A hyper-thermostable, alkaline lipase from <i>Pseudomonas</i> sp. with the property of thermal activation. <i>Biotechnology Letters</i> , 2000, 22, 495-498.	2.2	61
53	Microwave Assisted Stereoselective Synthesis and Antibacterial Activity of New Fluoroquinolonyl- β -lactam Derivatives. <i>Monatshefte für Chemie</i> , 2000, 131, 85-90.	1.8	13
54	Bleach-stable, alkaline protease from <i>Bacillus</i> sp.. <i>Biotechnology Letters</i> , 1999, 21, 135-138.	2.2	116

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55	News & Notes: Sorption and Desorption of Cobalt by <i>Oscillatoria angustissima</i> . <i>Current Microbiology</i> , 1999, 39, 49-52.	2.2	45
56	Microwave Assisted Synthesis and Antibacterial Activity of New Quinolone Derivatives. <i>Monatshefte für Chemie</i> , 1998, 129, 961-965.	1.8	7
57	Utility of a Novel Lipase From <i>Aspergillus Terreus</i> in Deacetylation Reactions. <i>Biocatalysis and Biotransformation</i> , 1998, 16, 17-25.	2.0	13
58	<i>Oscillatoria angustissima</i> : A Promising Cu ²⁺ Biosorbent. <i>Current Microbiology</i> , 1997, 35, 151-154.	2.2	19
59	Polyamines as Modulators of Microcycle Conidiation in <i>Aspergillus Flavus</i> . <i>Microbiology (United Kingdom)</i> 137: 1078-1084 (1997)	1.8	28
60	Chitinase production by <i>Streptomyces viridificans</i> : its potential in fungal cell wall lysis. <i>Journal of Applied Bacteriology</i> , 1995, 78, 378-383.	1.1	188
61	In-Situ and Cell-Free Goat Hair Hydrolysis by a Consortium of Proteases from <i>Bacillus licheniformis</i> Strain ER-15: Hair Hydrolysate Valorization by Melanin Extraction. <i>Waste and Biomass Valorization</i> , 0, , 1.	3.4	0