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	Microbial keratinases and their prospective applications: an overview. Applied Microbiology and Biotechnology, 2006, 70, 21-33.	3.6	525
2	Simplified para-nitrophenyl palmitate assay for lipases and esterases. Analytical Biochemistry, 2002, 311, 98-99.	2.4	200
3	Chitinase production by Streptomyces viridificans: its potential in fungal cell wall lysis. Journal of Applied Bacteriology, 1995, 78, 378-383.	1.1	188
4	Lipase assays for conventional and molecular screening: an overview. Biotechnology and Applied Biochemistry, 2003, 37, 63.	3.1	146
5	Molecular and functional diversity of yeast and fungal lipases: Their role in biotechnology and cellular physiology. Progress in Lipid Research, 2015, 57, 40-54.	11.6	129
6	Bleach-stable, alkaline protease from Bacillus sp.. Biotechnology Letters, 1999, 21, 135-138.	2.2	116
7	Revisiting microbial keratinases: next generation proteases for sustainable biotechnology. Critical Reviews in Biotechnology, 2013, 33, 216-228.	9.0	113
8	Medium optimization for a novel 58kDa dimeric keratinase from Bacillus licheniformis ER-15: Biochemical characterization and application in feather degradation and dehairing of hides. Bioresource Technology, 2010, 101, 6103-6110.	9.6	100
9	Optimization of medium composition for keratinase production on feather by Bacillus licheniformis RG1 using statistical methods involving response surface methodology. Biotechnology and Applied Biochemistry, 2004, 40, 191.	3.1	93
10	A hyper-thermostable, alkaline lipase from Pseudomonas sp. with the property of thermal activation. Biotechnology Letters, 2000, 22, 495-498.	2.2	61
11	Lipase Mediated Upgradation of Dietary Fats and Oils. Critical Reviews in Food Science and Nutrition, 2003, 43, 635-644.	10.3	60
12	Keratinases vis-Ã-vis conventional proteases and feather degradation. World Journal of Microbiology and Biotechnology, 2007, 23, 1537-1540.	3.6	56
13	<scp>l</scp>-Theanine Synthesis Using Î³-Glutamyl Transpeptidase from Bacillus licheniformis ER-15. Journal of Agricultural and Food Chemistry, 2014, 62, 9151-9159.	5.2	48
14	News & Notes: Sorption and Desorption of Cobalt by Oscillatoria anguistissima. Current Microbiology, 1999, 39, 49-52.	2.2	45
15	Statistical Media Optimization and Production of ITS Î±-Amylase from Aspergillus oryzae in a Bioreactor. Current Microbiology, 2002, 45, 203-208.	2.2	44
16	Long period fiber grating based sensor for the detection of triacylglycerides. Biosensors and Bioelectronics, 2016, 79, 693-700.	10.1	39
17	Fermentation waste of Aspergillus terreus: a potential copper biosorbent. World Journal of Microbiology and Biotechnology, 2002, 18, 397-401.	3.6	38
18	Extracellular Expression of Keratinase from Bacillus licheniformis ER-15 in Escherichia coli. Journal of Agricultural and Food Chemistry, 2010, 58, 8380-8385.	5.2	30

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19	â€œPhylogenetic and evolutionary analysis of functional divergence among Gamma glutamyl transpeptidase (GGT) subfamiliesâ€• Biology Direct, 2015, 10, 49.	4.6	29
20	Bacterial Gamma-Glutamyl Transpeptidase, an Emerging Biocatalyst: Insights Into Structureâ€“Function Relationship and Its Biotechnological Applications. Frontiers in Microbiology, 2021, 12, 641251.	3.5	29
21	Single-step purification of lipase from Burkholderia multivorans using polypropylene matrix. Applied Microbiology and Biotechnology, 2005, 67, 648-653.	3.6	28
22	Polyamines as Modulators of Microcycle Conidiation in Aspergillus Flavus. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.8	28
23	Regulation of the production of polygalacturonase by Aspergillus terreus. World Journal of Microbiology and Biotechnology, 2001, 17, 487-491.	3.6	25
24	Î³-Glutamyl transpeptidase from Bacillus pumilus KS 12: Decoupling autoprocessing from catalysis and molecular characterization of N-terminal region. Enzyme and Microbial Technology, 2012, 50, 159-164.	3.2	23
25	Localized surface plasmon resonanceâ€“based fiber-optic sensor for the detection of triacylglycerides using silver nanoparticles. Journal of Biomedical Optics, 2017, 22, 1.	2.6	23
26	Microbial biomass: an economical alternative for removal of heavy metals from waste water. Indian Journal of Experimental Biology, 2003, 41, 945-66.	0.0	21
27	A hydrolytic Î³-glutamyl transpeptidase from thermo-acidophilic archaeon Picrophilus torridus: binding pocket mutagenesis and transpeptidation. Extremophiles, 2013, 17, 29-41.	2.3	20
28	Oscillatoria anguistissima : A Promising Cu 2+ Biosorbent. Current Microbiology, 1997, 35, 151-154.	2.2	19
29	Comparative biochemical characterization and in silico analysis of novel lipases Lip11 and Lip12 with Lip2 from Yarrowia lipolytica. World Journal of Microbiology and Biotechnology, 2012, 28, 3103-3111.	3.6	19
30	Heterologous expression of Î³-glutamyl transpeptidase from Bacillus atrophaeus GS-16 and its application in the synthesis of Î³- d -glutamyl- l -tryptophan, a known immunomodulatory peptide. Enzyme and Microbial Technology, 2017, 99, 67-76.	3.2	18
31	Cloning and characterization of a thermostable detergentâ€compatible recombinant keratinase from Bacillus pumilus KS12. Biotechnology and Applied Biochemistry, 2011, 58, 109-118.	3.1	17
32	Reduced Uptake as a Mechanism of Zinc Tolerance in Oscillatoria anguistissima. Current Microbiology, 2001, 43, 305-310.	2.2	14
33	Thermo- and salt-tolerant chitosan cross-linked Î³-glutamyl transpeptidase from Bacillus licheniformis ER15. International Journal of Biological Macromolecules, 2016, 91, 544-553.	7.5	14
34	Targeted mutations and MD simulations of a methanol-stable lipase YLIP9 from Yarrowia lipolytica MSR80 to develop a biodiesel enzyme. International Journal of Biological Macromolecules, 2017, 104, 78-88.	7.5	14
35	Utility of a Novel Lipase FromAspergillus Terreusin Deacetylation Reactions. Biocatalysis and Biotransformation, 1998, 16, 17-25.	2.0	13
36	Microwave Assisted Stereoselective Synthesis and Antibacterial Activity of New Fluoroquinolinyl-Î²-lactam Derivatives. Monatshefte FÃ¼r Chemie, 2000, 131, 85-90.	1.8	13

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37	Green Enzymatic Synthesis of L-Ascorbyl Fatty Acid Ester: An Antioxidant. Synthetic Communications, 2009, 39, 1143-1151.	2.1	13
38	Rational design of drug-like compounds targeting Mycobacterium marinum MelF protein. PLoS ONE, 2017, 12, e0183060.	2.5	13
39	Extracellular expression of YlLip11 with a native signal peptide from Yarrowia lipolytica MSR80 in three different yeast hosts. Protein Expression and Purification, 2015, 110, 138-144.	1.3	12
40	Novel S -enantioselective lipase TALipB from Trichosporon asahii MSR54: Heterologous expression, characterization, conformational stability and homology modeling. Enzyme and Microbial Technology, 2016, 83, 29-39.	3.2	11
41	Evolving transpeptidase and hydrolytic variants of Î³-glutamyl transpeptidase from Bacillus licheniformis by targeted mutations of conserved residue Arg109 and their biotechnological relevance. Journal of Biotechnology, 2017, 249, 82-90.	3.8	11
42	Cloning, Expression, and Biochemical Characterization of an Enantioselective Lipase, YLIP9, from Yarrowia lipolytica MSR80. Applied Biochemistry and Biotechnology, 2015, 176, 110-124.	2.9	10
43	Functional Characterisation of Novel Enantioselective Lipase TALipA from Trichosporon asahii MSR54: Sequence Comparison Revealed New Signature Sequence AXSXG Among Yeast Lipases. Applied Biochemistry and Biotechnology, 2015, 175, 360-371.	2.9	9
44	Heterologous expression of lipases YLIP4, YLIP5, YLIP7, YLIP13, and YLIP15 from Yarrowia lipolytica MSR80 in Escherichia coli: Substrate specificity, kinetic comparison, and enantioselectivity. Biotechnology and Applied Biochemistry, 2017, 64, 851-861.	3.1	9
45	Hyperproduction of Î³-glutamyl transpeptidase from Bacillus licheniformis ER15 in the presence of high salt concentration. Preparative Biochemistry and Biotechnology, 2017, 47, 163-172.	1.9	8
46	Functional characterization of hormone sensitive-like lipase from Bacillus halodurans: synthesis and recovery of pNP-laurate with high yields. Extremophiles, 2017, 21, 871-889.	2.3	8
47	Microwave Assisted Synthesis and Antibacterial Activity of New Quinolone Derivatives. Monatshefte FÃ¼r Chemie, 1998, 129, 961-965.	1.8	7
48	Novel Strategy of Using Methyl Esters as Slow Release Methanol Source during Lipase Expression by mut+ Pichia pastoris X33. PLoS ONE, 2014, 9, e104272.	2.5	7
49	High level extracellular production of recombinant Î³-glutamyl transpeptidase from Bacillus licheniformis in Escherichia coli fed-batch culture. Enzyme and Microbial Technology, 2018, 116, 23-32.	3.2	7
50	Gamma cyclodextrin glycosyltransferase from evansella caseinilytica: production, characterization and product specificity. 3 Biotech, 2022, 12, 16.	2.2	7
51	Selective disruption of disulphide bonds lowered activation energy and improved catalytic efficiency in TALipB from Trichosporon asahii MSR54: MD simulations revealed flexible lid and extended substrate binding area in the mutant. Biochemical and Biophysical Research Communications, 2016, 472, 223-230.	2.1	6
52	Disrupting putative N-glycosylation site N17 in lipase Lip11 of Yarrowia lipolytica yielded a catalytically efficient and thermostable variant accompanying conformational changes. Enzyme and Microbial Technology, 2021, 151, 109922.	3.2	6
53	High Resolution X-ray Diffraction Dataset for Bacillus licheniformis Gamma Glutamyl Transpeptidase-acivicin complex: SUMO-Tag Renders High Expression and Solubility. Protein Journal, 2017, 36, 7-16.	1.6	5
54	Cell surface expression of Î³-CGTase from Evansella caseinilytica on E. coli: Application in the enzymatic conversion of starch to Î³-cyclodextrin. Enzyme and Microbial Technology, 2022, 159, 110066.	3.2	3

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55	Development of a novel Pichia pastoris expression platform via genomic integration of lipase gene for sustained release of methanol from methyloleate. Preparative Biochemistry and Biotechnology, 2022, , 1-12.	1.9	1
56	N-truncation in lipase Lip11 from Yarrowia lipolytica alleviates substrate inhibition with improved stability and efficiency ensuing distinct structural modifications. Process Biochemistry, 2022, 116, 185-196.	3.7	1
57	Long period fiber grating for the detection of triacylglycerides: Analytical and experimental study. , 2015, , .		0
58	Characterization of a novel thiol activated phospholipase TAPLB1 from Trichosporon asahii MSR 54. International Journal of Biological Macromolecules, 2018, 120, 537-546.	7.5	0
59	Functional characterization of the extra sequence in the large subunit of Î³-glutamyl transpeptidase from Bacillus atrophaeus: Role in autoprocessing and activity. Process Biochemistry, 2021, 106, 199-212.	3.7	0
60	Draft Genome Sequence of a Poly-Î³-Glutamic Acid-Producing Isolate, Bacillus paralicheniformis Strain bcasdu2018/01. Microbiology Resource Announcements, 2021, 10, e0101321.	0.6	0
61	In-Situ and Cell-Free Goat Hair Hydrolysis by a Consortium of Proteases from Bacillus licheniformis Strain ER-15: Hair Hydrolysate Valorization by Melanin Extraction. Waste and Biomass Valorization, 0, , 1.	3.4	0