

Sudhir K Rai

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,149
citations

471509

17
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

1368
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of alkaline protease by a thermophilic <i>Bacillus subtilis</i> under solid-state fermentation (SSF) condition using <i>Imperata cylindrica</i> grass and potato peel as low-cost medium: Characterization and application of enzyme in detergent formulation. <i>Biochemical Engineering Journal</i> , 2008, 39, 353-361.	3.6	158
2	Polymer-assisted iron oxide magnetic nanoparticle immobilized keratinase. <i>Nanotechnology</i> , 2009, 20, 225107.	2.6	110
3	Purification, characterization and biotechnological application of an alkaline \hat{I}^2 -keratinase produced by <i>Bacillus subtilis</i> RM-01 in solid-state fermentation using chicken-feather as substrate. <i>Biochemical Engineering Journal</i> , 2009, 45, 218-225.	3.6	88
4	Statistical optimization of production, purification and industrial application of a laundry detergent and organic solvent-stable subtilisin-like serine protease (Alzwiprase) from <i>Bacillus subtilis</i> DM-04. <i>Biochemical Engineering Journal</i> , 2010, 48, 173-180.	3.6	88
5	To study the influence of different components of fermentable substrates on induction of extracellular \hat{I}^{\pm} -amylase synthesis by <i>Bacillus subtilis</i> DM-03 in solid-state fermentation and exploration of feasibility for inclusion of \hat{I}^{\pm} -amylase in laundry detergent formulations. <i>Biochemical Engineering Journal</i> , 2009, 43, 149-156.	3.6	83
6	Deep-desulfurization of dibenzothiophene and its derivatives present in diesel oil by a newly isolated bacterium <i>Achromobacter</i> sp. to reduce the environmental pollution from fossil fuel combustion. <i>Fuel Processing Technology</i> , 2014, 119, 236-244.	7.2	69
7	Optimization of production of an oxidant and detergent-stable alkaline \hat{I}^2 -keratinase from <i>Brevibacillus</i> sp. strain AS-S10-II: Application of enzyme in laundry detergent formulations and in leather industry. <i>Biochemical Engineering Journal</i> , 2011, 54, 47-56.	3.6	68
8	Characterisation of a detergent-stable alkaline protease from a novel thermophilic strain <i>Paenibacillus tezpurensis</i> sp. nov. AS-S24-II. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1437-1450.	3.6	66
9	Characterization and application of a detergent-stable alkaline \hat{I}^{\pm} -amylase from <i>Bacillus subtilis</i> strain AS-S01a. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 219-229.	7.5	59
10	A statistical approach for the enhanced production of alkaline protease showing fibrinolytic activity from a newly isolated Gram-negative <i>Bacillus</i> sp. strain AS-S20-I. <i>New Biotechnology</i> , 2011, 28, 182-189.	4.4	58
11	Bafibrinase: A non-toxic, non-hemorrhagic, direct-acting fibrinolytic serine protease from <i>Bacillus</i> sp. strain AS-S20-I exhibits inAvivo anticoagulant activity and thrombolytic potency. <i>Biochimie</i> , 2012, 94, 1300-1308.	2.6	58
12	Ecological significance and some biotechnological application of an organic solvent stable alkaline serine protease from <i>Bacillus subtilis</i> strain DM-04. <i>Bioresource Technology</i> , 2009, 100, 2642-2645.	9.6	53
13	Biodegradable and biocompatible epoxidized vegetable oil modified thermostable poly(vinyl chloride): Thermal and performance characteristics post biodegradation with <i>Pseudomonas aeruginosa</i> and <i>Achromobacter</i> sp.. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 434-442.	12.4	38
14	Statistical optimization of <i>Bacillus alcalophilus</i> \hat{I}^{\pm} -amylase immobilization on iron-oxide magnetic nanoparticles. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 984-992.	2.6	37
15	Loss of the SWI/SNF ATPase subunits BRM and BRG1 drives lung cancer development. <i>Oncoscience</i> , 2016, 3, 322-336.	2.2	25
16	Biodegradation of waste chicken-feathers by an alkaline \hat{I}^2 -keratinase (Mukartinase) purified from a mutant <i>Brevibacillus</i> sp. strain AS-S10-II. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 1229-1237.	3.9	22
17	Optimization for production of liquid nitrogen fertilizer from the degradation of chicken feather by iron-oxide (Fe_3O_4) magnetic nanoparticles coupled \hat{I}^2 -keratinase. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015, 4, 632-644.	3.1	21
18	High-Frequency Lithium Acetate Transformation of <i>Schizosaccharomyces pombe</i> . <i>Methods in Molecular Biology</i> , 2018, 1721, 167-177.	0.9	11

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19	Application of poly(vinyl alcohol)-assisted silver nanoparticles immobilized \hat{I}^2 -keratinase composite as topical antibacterial and dehairing agent. <i>Journal of Proteins and Proteomics</i> , 2020, 11, 119-134.	1.5	9
20	BRG1 and BRM loss selectively impacts RB and P53, respectively: BRG1 and BRM have differential functions in vivo. <i>Oncoscience</i> , 2016, 3, 337-350.	2.2	9
21	Host factors that promote retrotransposon integration are similar in distantly related eukaryotes. <i>PLoS Genetics</i> , 2017, 13, e1006775.	3.5	7
22	Qualitative and Quantitative Assays of Transposition and Homologous Recombination of the Retrotransposon Tf1 in <i>Schizosaccharomyces pombe</i> . <i>Methods in Molecular Biology</i> , 2016, 1400, 117-130.	0.9	6
23	Statistical optimization for improved production of fibrin(Ogen)olytic enzyme by <i>Bacillus cereus</i> strain FF01 and assessment of in vitro thrombolytic potential of protease enzyme. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015, 4, 191-198.	3.1	4
24	Duplication and Transformation of the <i>Schizosaccharomyces pombe</i> Collection of Deletion Strains. <i>Methods in Molecular Biology</i> , 2018, 1721, 197-215.	0.9	2