

Krishan Kumar

List of Publications by Year in descending order

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11
papers

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1307594

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106
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#	ARTICLE	IF	CITATIONS
1	Highly efficient, processive and multifunctional recombinant endoglucanase RfGH5_4 from <i>Ruminococcus flavefaciens</i> FD-1 v3 for recycling lignocellulosic plant biomasses. <i>International Journal of Biological Macromolecules</i> , 2022, 209, 801-813.	7.5	7
2	Computational modeling and small-angle X-ray scattering based structure analysis and identifying ligand cleavage mechanism by processive endocellulase of family 9 glycoside hydrolase (HtGH9) from <i>Hungateiclostridium thermocellum</i> ATCC 27405. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 103, 107808.	2.4	7
3	Computational and SAXS-based structure insights of pectin acetyl esterase (CtPae12B) of family 12 carbohydrate esterase from <i>Clostridium thermocellum</i> ATCC 27405. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, , 1-18.	3.5	3
4	Small-angle X-ray scattering based structure, modeling and molecular dynamics analyses of a family 5 glycoside hydrolase first endo-mannanase named as <i>RfGH5_7</i> from <i>Ruminococcus flavefaciens</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 4371-4384.	3.5	3
5	In vitro prebiotic potential, digestibility and biocompatibility properties of laminari-oligosaccharides produced from curdlan by β -1,3-endoglucanase from <i>Clostridium thermocellum</i> . <i>3 Biotech</i> , 2020, 10, 241.	2.2	8
6	Role of glycine 256 residue in improving the catalytic efficiency of mutant endoglucanase of family 5 glycoside hydrolase from <i>Bacillus amyloliquefaciens</i> SS35. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2668-2682.	3.3	8
7	Combined SAXS and computational approaches for structure determination and binding characteristics of Chimera (CtGH1-L1-CtGH5-F194A) generated by assembling β -glucosidase (CtGH1) and a mutant endoglucanase (CtGH5-F194A) from <i>Clostridium thermocellum</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 148, 364-377.	7.5	15
8	Molecular Cloning, Expression and Biochemical Characterization of a Family 5 Glycoside Hydrolase First Endo-Mannanase (RfGH5_7) from <i>Ruminococcus flavefaciens</i> FD-1 v3. <i>Molecular Biotechnology</i> , 2019, 61, 826-835.	2.4	10
9	Role of carbohydrate binding module (CBM3c) of GH9 β -1,4 endoglucanase (Cel9W) from <i>Hungateiclostridium thermocellum</i> ATCC 27405 in catalysis. <i>Carbohydrate Research</i> , 2019, 484, 107782.	2.3	14
10	Development of bi-functional chimeric enzyme (CtGH1-L1-CtGH5-F194A) from endoglucanase (CtGH5) mutant F194A and β -1,4-glucosidase (CtGH1) from <i>Clostridium thermocellum</i> with enhanced activity and structural integrity. <i>Bioresource Technology</i> , 2019, 282, 494-501.	9.6	25
11	Novel insights into the degradation of β -1,3-glucans by the cellulosome of <i>Clostridium thermocellum</i> revealed by structure and function studies of a family 81 glycoside hydrolase. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 890-901.	7.5	26