

Dayanand C Kalyani

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,773
citations

159358

30
h-index

214527

47
g-index

48
all docs

48
docs citations

48
times ranked

3812
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of a homotrimeric verrucomicrobial exo- β -1,4-mannosidase active in the hindgut of the wood-feeding termite <i>Reticulitermes flavipes</i> . <i>Journal of Structural Biology</i> : X, 2021, 5, 100048.	0.7	2
2	Editorial: Microbiotechnology Tools for Wastewater Cleanup and Organic Solids Reduction. <i>Frontiers in Microbiology</i> , 2021, 12, 631506.	1.5	4
3	A homodimeric bacterial exo- β -1,3-glucanase derived from moose rumen microbiome shows a structural framework similar to yeast exo- β -1,3-glucanases. <i>Enzyme and Microbial Technology</i> , 2021, 143, 109723.	1.6	7
4	A Transmembrane Crenarchaeal Mannosyltransferase Is Involved in N-Glycan Biosynthesis and Displays an Unexpected Minimal Cellulose-Synthase-like Fold. <i>Journal of Molecular Biology</i> , 2020, 432, 4658-4672.	2.0	7
5	Comparison of pyrolyzed lignin before and after milled wood lignin purification of Norway spruce with increasing steam explosion. <i>Wood Science and Technology</i> , 2019, 53, 601-618.	1.4	8
6	Structural and biochemical characterization of the <i>Cutibacterium acnes</i> exo- β -1,4-mannosidase that targets the N-glycan core of host glycoproteins. <i>PLoS ONE</i> , 2018, 13, e0204703.	1.1	13
7	Biotreatment of paper mill effluent using alkaliphilic <i>Rhizobium</i> sp. NCIM 5590 isolated from meteoric alkaline Lonar Lake, Buldhana District, Maharashtra, India. <i>Lakes and Reservoirs: Research and Management</i> , 2018, 23, 130-138.	0.6	5
8	Enhancing methane production from lignocellulosic biomass by combined steam-explosion pretreatment and bioaugmentation with cellulolytic bacterium <i>Caldicellulosiruptor bescii</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 19.	6.2	78
9	Biofuel production from birch wood by combining high solid loading simultaneous saccharification and fermentation and anaerobic digestion. <i>Applied Energy</i> , 2017, 193, 210-219.	5.1	45
10	Laccases: Blue Copper Oxidase in Lignocellulose Processing. , 2017, , 315-336.		0
11	Valorisation of woody biomass by combining enzymatic saccharification and pyrolysis. <i>Green Chemistry</i> , 2017, 19, 3302-3312.	4.6	22
12	LPMOs in cellulase mixtures affect fermentation strategies for lactic acid production from lignocellulosic biomass. <i>Biotechnology and Bioengineering</i> , 2017, 114, 552-559.	1.7	23
13	Molecular and biochemical characterization of a new thermostable bacterial laccase from <i>Meiothermus ruber</i> DSM 1279. <i>RSC Advances</i> , 2016, 6, 3910-3918.	1.7	26
14	A Highly Efficient Recombinant Laccase from the Yeast <i>Yarrowia lipolytica</i> and Its Application in the Hydrolysis of Biomass. <i>PLoS ONE</i> , 2015, 10, e0120156.	1.1	50
15	Can laccases catalyze bond cleavage in lignin?. <i>Biotechnology Advances</i> , 2015, 33, 13-24.	6.0	296
16	Simultaneous pretreatment and saccharification: Green technology for enhanced sugar yields from biomass using a fungal consortium. <i>Bioresource Technology</i> , 2015, 179, 50-57.	4.8	90
17	Functionalization of a Membrane Sublayer Using Reverse Filtration of Enzymes and Dopamine Coating. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22894-22904.	4.0	54
18	Important nutritional constituents, flavour components, antioxidant and antibacterial properties of <i>Pleurotus sajor-caju</i> . <i>Journal of Food Science and Technology</i> , 2014, 51, 1483-1491.	1.4	32

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19	Characterization of a novel xylanase from <i>Armillaria gemina</i> and its immobilization onto SiO ₂ nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1081-1091.	1.7	30
20	Microbial degradation of imidacloprid and toxicological analysis of its biodegradation metabolites in silkworm (<i>Bombyx mori</i>). <i>Chemical Engineering Journal</i> , 2013, 230, 27-35.	6.6	102
21	Microbial consortia for saccharification of woody biomass and ethanol fermentation. <i>Fuel</i> , 2013, 107, 815-822.	3.4	90
22	Decolorization of Dyehouse Effluent and Biodegradation of Congo Red by <i>Bacillus thuringiensis</i> RUN1. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 843-849.	0.9	33
23	Effectual decolorization and detoxification of triphenylmethane dye malachite green (MG) by <i>Pseudomonas aeruginosa</i> NCIM 2074 and its enzyme system. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 989-1001.	2.1	36
24	Enhanced enzymatic hydrolysis of rice straw by removal of phenolic compounds using a novel laccase from yeast <i>Yarrowia lipolytica</i> . <i>Bioresource Technology</i> , 2012, 123, 636-645.	4.8	95
25	Role of Glu445 in the substrate binding of Î ² -glucosidase. <i>Process Biochemistry</i> , 2012, 47, 2365-2372.	1.8	7
26	Biodecolorization of Azo Dye Remazol Orange by <i>Pseudomonas aeruginosa</i> BCH and Toxicity (Oxidative) Tj ETQq0 0 0 rgBT /Overlock 10 1319-1334.	1.4	24
27	Bioremediation Perspective of Navy Blue R ^x â€“Containing Textile Effluent by Bacterial Isolate. <i>Bioremediation Journal</i> , 2012, 16, 185-194.	1.0	5
28	Characterization of a recombinant aryl Î ² -glucosidase from <i>Neosartorya fischeri</i> NRRL181. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 413-423.	1.7	16
29	Saccharification of woody biomass using glycoside hydrolases from <i>Stereum hirsutum</i> . <i>Bioresource Technology</i> , 2012, 117, 310-316.	4.8	13
30	Characterization of a novel laccase from the isolated <i>Coltricia perennis</i> and its application to detoxification of biomass. <i>Process Biochemistry</i> , 2012, 47, 671-678.	1.8	60
31	Industrial dye decolorizing lignin peroxidase from <i>Kocuria rosea</i> MTCC 1532. <i>Annals of Microbiology</i> , 2012, 62, 217-223.	1.1	40
32	Ecofriendly degradation, decolorization and detoxification of textile effluent by a developed bacterial consortium. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 1288-1296.	2.9	130
33	Textile dye degradation by bacterial consortium and subsequent toxicological analysis of dye and dye metabolites using cytotoxicity, genotoxicity and oxidative stress studies. <i>Journal of Hazardous Materials</i> , 2011, 186, 713-723.	6.5	198
34	Biodegradation of Crystal Violet by <i>Agrobacterium radiobacter</i> . <i>Journal of Environmental Sciences</i> , 2011, 23, 1384-1393.	3.2	84
35	Purification and characterization of a bacterial peroxidase from the isolated strain <i>Pseudomonas</i> sp. SUK1 and its application for textile dye decolorization. <i>Annals of Microbiology</i> , 2011, 61, 483-491.	1.1	45
36	Biochemical characteristics of a textile dye degrading extracellular laccase from a <i>Bacillus</i> sp. ADR. <i>Bioresource Technology</i> , 2011, 102, 1752-1756.	4.8	108

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37	Characterization of Cellobiohydrolase from a Newly Isolated Strain of <i>Agaricus arvensis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 711-718.	0.9	16
38	Decolorization and detoxification of sulfonated azo dye methyl orange by <i>Kocuria rosea</i> MTCC 1532. <i>Journal of Hazardous Materials</i> , 2010, 176, 503-509.	6.5	240
39	Decolorization and biodegradation of Reactive Blue 13 by <i>Proteus mirabilis</i> LAG. <i>Journal of Hazardous Materials</i> , 2010, 184, 290-298.	6.5	98
40	Evaluation of the efficacy of a bacterial consortium for the removal of color, reduction of heavy metals, and toxicity from textile dye effluent. <i>Bioresource Technology</i> , 2010, 101, 165-173.	4.8	257
41	Purification and characterization of an extracellular laccase from a <i>Pseudomonas</i> sp. LBC1 and its application for the removal of bisphenol A. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 252-260.	1.8	79
42	Coordinate action of exiguobacterial oxidoreductive enzymes in biodegradation of reactive yellow 84A dye. <i>Biodegradation</i> , 2009, 20, 245-255.	1.5	58
43	Enhanced decolorization and biodegradation of textile azo dye Scarlet R by using developed microbial consortium-GR. <i>Bioresource Technology</i> , 2009, 100, 2493-2500.	4.8	305
44	Ecofriendly biodegradation and detoxification of Reactive Red 2 textile dye by newly isolated <i>Pseudomonas</i> sp. SUK1. <i>Journal of Hazardous Materials</i> , 2009, 163, 735-742.	6.5	325
45	Influence of organic and inorganic compounds on oxidoreductive decolorization of sulfonated azo dye C.I. Reactive Orange 16. <i>Journal of Hazardous Materials</i> , 2009, 172, 298-309.	6.5	103
46	Biodegradation and Detoxification of Reactive Textile Dye by Isolated <i>Pseudomonas</i> sp. SUK1. <i>Water Environment Research</i> , 2009, 81, 298-307.	1.3	68
47	Biodegradation of Reactive Blue 59 by isolated bacterial consortium PMB11. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 1181-1190.	1.4	68
48	Biodegradation of reactive textile dye Red BLI by an isolated bacterium <i>Pseudomonas</i> sp. SUK1. <i>Bioresource Technology</i> , 2008, 99, 4635-4641.	4.8	278