

Rintu Banerjee

List of Publications by Year in descending order

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91
papers

3,547
citations

109264

35
h-index

149623

56
g-index

95
all docs

95
docs citations

95
times ranked

4061
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic transesterification of Jatropha oil. <i>Biotechnology for Biofuels</i> , 2009, 2, 1.	6.2	292
2	Seed birth to death: dual functions of reactive oxygen species in seed physiology. <i>Annals of Botany</i> , 2015, 116, 663-668.	1.4	244
3	Sustainable green solvents and techniques for lipid extraction from microalgae: A review. <i>Algal Research</i> , 2017, 21, 138-147.	2.4	209
4	Green solvents and technologies for oil extraction from oilseeds. <i>Chemistry Central Journal</i> , 2017, 11, 9.	2.6	167
5	Enzymatic synthesis of fruit flavor esters by immobilized lipase from <i>Rhizopus oligosporus</i> optimized with response surface methodology. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 57-63.	1.8	92
6	A green approach for starch modification: Esterification by lipase and novel imidazolium surfactant. <i>Carbohydrate Polymers</i> , 2016, 150, 359-368.	5.1	91
7	Purification and characterization of a protease from solid state cultures of <i>Aspergillus parasiticus</i> . <i>Process Biochemistry</i> , 2003, 38, 1553-1558.	1.8	87
8	Utilization of Vegetable Wastes for Bioenergy Generation. <i>Agricultural Research</i> , 2012, 1, 213-222.	0.9	83
9	Integrated bioethanol and biomanure production from potato waste. <i>Waste Management</i> , 2016, 49, 320-325.	3.7	77
10	Microbial transformation of tannin-rich substrate to gallic acid through co-culture method. <i>Bioresource Technology</i> , 2005, 96, 949-953.	4.8	76
11	Production and characterization of tannase from <i>Bacillus cereus</i> KBR9.. <i>Journal of General and Applied Microbiology</i> , 2001, 47, 263-267.	0.4	74
12	Effects of temperature, pH and additives on the activity of tannase produced by a co-culture of <i>Rhizopus oryzae</i> and <i>Aspergillus foetidus</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2006, 22, 207-212.	1.7	68
13	An integrated bioprocess for bioethanol and biomanure production from pineapple leaf waste. <i>Journal of Cleaner Production</i> , 2017, 165, 1508-1516.	4.6	67
14	A strategic laccase mediated lignin degradation of lignocellulosic feedstocks for ethanol production. <i>Industrial Crops and Products</i> , 2016, 92, 174-185.	2.5	64
15	Intervention of microfluidics in biofuel and bioenergy sectors: Technological considerations and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 548-558.	8.2	59
16	Optimization of laccase production using response surface methodology coupled with differential evolution. <i>New Biotechnology</i> , 2011, 28, 31-39.	2.4	58
17	Enzymatic depolymerization of <i>Ricinus communis</i> , a potential lignocellulosic for improved saccharification. <i>Biomass and Bioenergy</i> , 2011, 35, 3584-3591.	2.9	56
18	Enhanced lipid extraction from oleaginous yeast biomass using ultrasound assisted extraction: A greener and scalable process. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 25-32.	3.8	55

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19	Biosynthesis of tannase and gallic acid from tannin rich substrates by <i>Rhizopus oryzae</i> and <i>Aspergillus foetidus</i> . <i>Journal of Basic Microbiology</i> , 2004, 44, 42-48.	1.8	52
20	Characterization of amylase and protease produced by <i>Aspergillus awamori</i> in a single bioreactor. <i>Food Research International</i> , 2009, 42, 443-448.	2.9	52
21	Solvent-Free Synthesis of Flavour Esters through Immobilized Lipase Mediated Transesterification. <i>Enzyme Research</i> , 2013, 2013, 1-6.	1.8	51
22	Enzymatic delignification: an attempt for lignin degradation from lignocellulosic feedstock. <i>RSC Advances</i> , 2015, 5, 75281-75291.	1.7	51
23	Partially consolidated bioprocessing of mixed lignocellulosic feedstocks for ethanol production. <i>Bioresource Technology</i> , 2017, 245, 530-539.	4.8	51
24	A cleaner and eco-friendly bioprocess for enhancing reducing sugar production from pineapple leaf waste. <i>Journal of Cleaner Production</i> , 2017, 149, 387-395.	4.6	50
25	Simultaneous pretreatment and saccharification of bamboo for biobutanol production. <i>Industrial Crops and Products</i> , 2017, 101, 21-28.	2.5	46
26	Accessibility of Enzymatically Delignified <i>Bambusa bambos</i> for Efficient Hydrolysis at Minimum Cellulase Loading: An Optimization Study. <i>Enzyme Research</i> , 2011, 2011, 1-8.	1.8	44
27	Optimization of physicochemical parameters for gallic acid production by evolutionary operation-factorial design technique. <i>Process Biochemistry</i> , 2002, 37, 1395-1401.	1.8	43
28	Enzyme mediated biomass pretreatment and hydrolysis: a biotechnological venture towards bioethanol production. <i>RSC Advances</i> , 2016, 6, 61301-61311.	1.7	41
29	Bioconversion of hemicelluloses of lignocellulosic biomass to ethanol: an attempt to utilize pentose sugars. <i>Biofuels</i> , 2017, 8, 431-444.	1.4	41
30	A green and sustainable approach on statistical optimization of laccase mediated delignification of sugarcane tops for enhanced saccharification. <i>Journal of Environmental Management</i> , 2018, 217, 700-709.	3.8	41
31	Application of decolourized and partially purified polygalacturonase and α -amylase in apple juice clarification. <i>Brazilian Journal of Microbiology</i> , 2014, 45, 97-104.	0.8	40
32	Lipase mediated transesterification of <i>Simarouba glauca</i> oil: a new feedstock for biodiesel production. <i>Sustainable Chemical Processes</i> , 2013, 1, .	2.3	38
33	Biodiesel from oleaginous microbes: opportunities and challenges. <i>Biofuels</i> , 2019, 10, 45-59.	1.4	38
34	Evolutionary operation (EVOP) to optimize three-dimensional biological experiments. <i>Biotechnology and Bioengineering</i> , 1993, 41, 67-71.	1.7	35
35	Optimization of n variable biological experiments by evolutionary operation-factorial design technique. <i>Journal of Bioscience and Bioengineering</i> , 1999, 87, 224-230.	1.1	35
36	Evaluation of Lipase Production by Genetic Algorithm and Particle Swarm Optimization and Their Comparative Study. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1350-1361.	1.4	35

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37	A comprehensive study on enhanced characteristics of modified polylactic acid based versatile biopolymer. <i>European Polymer Journal</i> , 2014, 54, 52-61.	2.6	35
38	Optimization of extraction and purification of glucoamylase produced by <i>Aspergillus awamori</i> in solid-state fermentation. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 60-66.	1.4	34
39	Production of ethanol from lignocellulosics: an enzymatic venture. <i>EXCLI Journal</i> , 2011, 10, 85-96.	0.5	34
40	Laccase mediated delignification of pineapple leaf waste: an ecofriendly sustainable attempt towards valorization. <i>BMC Chemistry</i> , 2019, 13, 58.	1.6	31
41	Comparative study of thermostability and ester synthesis ability of free and immobilized lipases on cross linked silica gel. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 291-298.	1.7	30
42	Comparative profiles of α -amylase production in conventional tray reactor and GROWTEK bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2007, 30, 369-376.	1.7	29
43	Multivariable parameter optimization for the endoglucanase production by <i>Trichoderma reesei</i> Rut C30 from <i>Ocimum gratissimum</i> seed. <i>Brazilian Archives of Biology and Technology</i> , 2008, 51, 35-41.	0.5	28
44	Statistical optimization of culture conditions by response surface methodology for synthesis of lipase with <i>Enterobacter aerogenes</i> . <i>Brazilian Archives of Biology and Technology</i> , 2009, 52, 1349-1356.	0.5	27
45	Purification of alkaline protease of <i>Rhizopus oryzae</i> by foam fractionation. <i>Bioprocess and Biosystems Engineering</i> , 1993, 9, 245-248.	0.5	26
46	Evolutionary and swarm intelligence based approaches for optimization of lipase extraction from fermented broth. <i>Engineering in Life Sciences</i> , 2010, 10, 265-273.	2.0	26
47	An eco-friendly process integration for second generation bioethanol production from laccase delignified Kans grass. <i>Energy Conversion and Management</i> , 2018, 157, 364-371.	4.4	25
48	Imidazolium based ionic liquid type surfactant improves activity and thermal stability of lipase of <i>Rhizopus oryzae</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 119, 12-17.	1.8	24
49	Kinetics of solvent-free geranyl acetate synthesis by <i>Rhizopus oligosporus</i> NRRL 5905 lipase immobilized on to cross-linked silica. <i>Biocatalysis and Biotransformation</i> , 2009, 27, 124-130.	1.1	23
50	Kinetic modelling of laccase mediated delignification of <i>Lantana camara</i> . <i>Bioresource Technology</i> , 2016, 212, 47-54.	4.8	23
51	Statistical optimization of bacterial cellulose production by <i>Leifsonia soli</i> and its physico-chemical characterization. <i>Process Biochemistry</i> , 2020, 91, 297-302.	1.8	22
52	Optimization of extraction parameters for recovery of alpha-amylase from the fermented bran of <i>Bacillus circulans</i> GRS313. <i>Brazilian Archives of Biology and Technology</i> , 2001, 44, 107-111.	0.5	21
53	Evolutionary operation as a tool of optimization for solid state fermentation. <i>Biochemical Engineering Journal</i> , 2003, 13, 149-155.	1.8	21
54	Modeling and optimization of protease production by a newly isolated <i>Pseudomonas</i> sp. using a genetic algorithm. <i>Process Biochemistry</i> , 2005, 40, 879-884.	1.8	20

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55	Optimization of saccharification of enzymatically pretreated sugarcane tops by response surface methodology for ethanol production. <i>Biofuels</i> , 2019, 10, 73-80.	1.4	20
56	Role of spacer length in interaction between novel gemini imidazolium surfactants and <i>Rhizopus oryzae</i> lipase. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 560-567.	3.6	19
57	Separate and simultaneous saccharification and fermentation of a pretreated mixture of lignocellulosic biomass for ethanol production. <i>Biofuels</i> , 2019, 10, 61-72.	1.4	19
58	An innovative approach of mixed enzymatic venture for 2G ethanol production from lignocellulosic feedstock. <i>Energy Conversion and Management</i> , 2020, 207, 112504.	4.4	19
59	Peptide enriched functional food adjunct from soy whey: A statistical optimization study. <i>Food Science and Biotechnology</i> , 2013, 22, 65-71.	1.2	18
60	Copolymerization of lactic acid for cost-effective PLA synthesis and studies on its improved characteristics. <i>Food Science and Biotechnology</i> , 2013, 22, 73-77.	1.2	16
61	Enzymatic polishing of cereal grains for improved nutrient retainment. <i>Journal of Food Science and Technology</i> , 2014, 52, 3147-57.	1.4	15
62	Valorization of citrus lemon wastes through biorefinery approach: An industrial symbiosis. <i>Bioresource Technology Reports</i> , 2021, 15, 100717.	1.5	15
63	Enzymatic delignification and saccharification of <i>Bambusa bambos</i> for biobutanol production. <i>Industrial Crops and Products</i> , 2018, 125, 386-394.	2.5	14
64	Production and characterization of cellulose from <i>Leifsonia</i> sp.. <i>Process Biochemistry</i> , 2019, 85, 35-42.	1.8	14
65	Optimization of Process Variables for Lipase Biosynthesis from <i>Rhizopus oligosporus</i> NRRL 5905 Using Evolutionary Operation Factorial Design Technique. <i>Indian Journal of Microbiology</i> , 2010, 50, 396-403.	1.5	13
66	Simultaneous Saccharification and Fermentation of Lignocellulosic Biomass. <i>Biofuel and Biorefinery Technologies</i> , 2018, , 265-285.	0.1	13
67	In silico optimization of enzyme mediated debittering of Assam lemon: biochemical and sensory evaluation studies. <i>Journal of Food Science and Technology</i> , 2019, 56, 2233-2243.	1.4	12
68	Study of conformational changes in glucoamylase of <i>Aspergillus awamori nakazawa</i> in presence of denaturants through CD-spectroscopy. <i>Bioresource Technology</i> , 2010, 101, 7577-7580.	4.8	11
69	Evolutionary Operation Factorial Design Technique for Optimization of Conversion of Mixed Agroproducts Into Gallic Acid. <i>Applied Biochemistry and Biotechnology</i> , 2004, 118, 033-046.	1.4	10
70	Simultaneous saccharification and fermentation of enzyme pretreated <i>Lantana camara</i> using <i>S. cerevisiae</i> . <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1963-1969.	1.7	10
71	Yellow Laccase-Mediated Lignin Degradation of <i>Ricinus communis</i> : A Future Agricultural Biomass for Biofuel Production. <i>Agricultural Research</i> , 2015, 4, 309-318.	0.9	10
72	Exploring indigenously produced celite-immobilized <i>Rhizopus oryzae</i> NRRL 3562-lipase for biodiesel production. <i>Energy</i> , 2021, 222, 119950.	4.5	10

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73	Modeling, Simulation, and Kinetic Studies of Solvent-Free Biosynthesis of Benzyl Acetate. Journal of Chemistry, 2013, 2013, 1-9.	0.9	9
74	Growth characteristics modeling of Lactobacillus acidophilus using RSM and ANN. Brazilian Archives of Biology and Technology, 2014, 57, 15-22.	0.5	9
75	Production of biodiesel utilizing laccase pretreated lignocellulosic waste liquor: An attempt towards cleaner production process. Energy Conversion and Management, 2019, 196, 979-987.	4.4	9
76	Zizyphus oenophlia: A potent substrate for lactic acid production. Bioresource Technology, 2013, 133, 627-629.	4.8	8
77	A new insight on improved biomethanation using graphene oxide from fermented Assam lemon waste. Fuel, 2022, 309, 122195.	3.4	8
78	Nutrient Enrichment of Organic Manure Through Biotechnological Means. Waste and Biomass Valorization, 2017, 8, 645-657.	1.8	6
79	Biochemical Characterisation of a Newly Isolated Low Molecular Weight Lipase from Rhizopus oryzae NRRL 3562. Enzyme Engineering, 2013, 02, .	0.3	6
80	An integrated biorefinery approach for bioethanol production from sugarcane tops. Journal of Cleaner Production, 2022, 352, 131451.	4.6	6
81	Comparative pretreatment method for efficient enzymatic hydrolysis of Salvinia cucullata and sewage treatment in ponds containing this biomass. Clean Technologies and Environmental Policy, 2014, 16, 1787-1794.	2.1	5
82	Sensory Preference Modeling of Probiotic Shrikhand Employing Soft Computing. Agricultural Research, 2016, 5, 362-372.	0.9	4
83	Citrus fruits. , 2020, , 145-166.		4
84	Simultaneous debittering and clarification of enzyme mediated mixed citrus juice production. Applied Food Research, 2022, 2, 100031.	1.4	4
85	Enzymatic biodiesel synthesis from Trichosporon shinodae yeast through circular economy: A greener approach. Fuel, 2022, 325, 124595.	3.4	4
86	Growth Characteristics Modeling of Mixed Culture of Bifidobacterium bifidum and Lactobacillus acidophilus using Response Surface Methodology and Artificial Neural Network. Brazilian Archives of Biology and Technology, 2014, 57, 962-970.	0.5	3
87	Enzyme pretreatment of yard waste to improve anaerobic biodegradability: Modeling the interactive effects of enzyme dose, treatment temperature and treatment duration on delignification. Fuel, 2022, 317, 123313.	3.4	3
88	Enhanced lipase recovery through RSM integrated differential evolutionary approach from the fermented biomass. Brazilian Archives of Biology and Technology, 2013, 56, 699-709.	0.5	2
89	Technologies for oil extraction from oilseeds and oleaginous microbes. , 2021, , 243-266.		2
90	Enrichment of N and bioavailability of P and K of lemon wastes through biotechnological intervention with special reference to Mung bean production. Bioresource Technology Reports, 2021, 15, 100794.	1.5	2

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91	An integrated study using ultrasonic-assisted enzymatic extraction of hydrolysates from rice based distillery byproduct and its characterization. <i>Process Biochemistry</i> , 2022, 119, 128-139.	1.8	2