Rintu Banerjee

List of Publications by Year in Descending Order

93 papers	2,697 citations	31 h-index	48 g-index
95 ext. papers	3,064 ext. citations	5 avg, IF	5.78 L-index

#	Paper	IF	Citations
93	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	7.1	0
92	Simultaneous debittering and clarification of enzyme mediated mixed citrus juice production. *Applied Food Research*, **2022**, 2, 100031		0
91	A new insight on improved biomethanation using graphene oxide from fermented Assam lemon waste. *Fuel*, **2022**, 309, 122195	7.1	2
90	Wastes to Wealth for Bioenergy Generation **2022**, 211-231		
89	An integrated biorefinery approach for bioethanol production from sugarcane tops. *Journal of Cleaner Production*, **2022**, 352, 131451	10.3	2
88	Exploring indigenously produced celite-immobilized Rhizopus oryzae NRRL 3562-lipase for biodiesel production. *Energy*, **2021**, 222, 119950	7.9	2
87	Technologies for oil extraction from oilseeds and oleaginous microbes **2021**, 243-266		0
86	Valorization of citrus lemon wastes through biorefinery approach: An industrial symbiosis. *Bioresource Technology Reports*, **2021**, 15, 100717	4.1	9
85	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	4.1	1
84	Statistical optimization of bacterial cellulose production by Leifsonia soli and its physico-chemical characterization. *Process Biochemistry*, **2020**, 91, 297-302	4.8	12
83	An innovative approach of mixed enzymatic venture for 2G ethanol production from lignocellulosic feedstock. *Energy Conversion and Management*, **2020**, 207, 112504	10.6	12
82	Citrus fruits **2020**, 145-166		4
81	Laccase mediated delignification of pineapple leaf waste: an ecofriendly sustainable attempt towards valorization. *BMC Chemistry*, **2019**, 13, 58	3.7	17
80	Production and characterization of cellulose from Leifsonia sp.. *Process Biochemistry*, **2019**, 85, 35-42	4.8	9
79	In silico optimization of enzyme mediated debittering of Assam lemon: biochemical and sensory evaluation studies. *Journal of Food Science and Technology*, **2019**, 56, 2233-2243	3.3	10
78	Production of biodiesel utilizing laccase pretreated lignocellulosic waste liquor: An attempt towards cleaner production process. *Energy Conversion and Management*, **2019**, 196, 979-987	10.6	8
77	Enhanced lipid extraction from oleaginous yeast biomass using ultrasound assisted extraction: A greener and scalable process. *Ultrasonics Sonochemistry*, **2019**, 52, 25-32	8.9	29

76	Intervention of microfluidics in biofuel and bioenergy sectors: Technological considerations and future prospects. *Renewable and Sustainable Energy Reviews*, **2019**, 101, 548-558	16.2	40
75	Separate and simultaneous saccharification and fermentation of a pretreated mixture of lignocellulosic biomass for ethanol production. *Biofuels*, **2019**, 10, 61-72	2	15
74	Biodiesel from oleaginous microbes: opportunities and challenges. *Biofuels*, **2019**, 10, 45-59	2	30
73	Optimization of saccharification of enzymatically pretreated sugarcane tops by response surface methodology for ethanol production. *Biofuels*, **2019**, 10, 73-80	2	13
72	An eco-friendly process integration for second generation bioethanol production from laccase delignified Kans grass. *Energy Conversion and Management*, **2018**, 157, 364-371	10.6	21
71	A green and sustainable approach on statistical optimization of laccase mediated delignification of sugarcane tops for enhanced saccharification. *Journal of Environmental Management*, **2018**, 217, 700-709	7.9	28
70	Biotechnological Exploitation of Poly-Lactide Produced from Cost Effective Lactic Acid **2018**, 401-416		1
69	Simultaneous Saccharification and Fermentation of Lignocellulosic Biomass. *Biofuel and Biorefinery Technologies*, **2018**, 265-285	1	9
68	Enzymatic delignification and saccharification of Bambusa bambos for biobutanol production. *Industrial Crops and Products*, **2018**, 125, 386-394	5.9	13
67	Green solvents and technologies for oil extraction from oilseeds. *Chemistry Central Journal*, **2017**, 11, 9		93
66	A cleaner and eco-friendly bioprocess for enhancing reducing sugar production from pineapple leaf waste. *Journal of Cleaner Production*, **2017**, 149, 387-395	10.3	37
65	Biodiesel Production from Lignocellulosic Biomass Using Oleaginous Microbes **2017**, 65-92		5
64	Microbial Enzymes and Lignocellulosic Fuel Production **2017**, 135-170		2
63	Simultaneous pretreatment and saccharification of bamboo for biobutanol production. *Industrial Crops and Products*, **2017**, 101, 21-28	5.9	37
62	An integrated bioprocess for bioethanol and biomanure production from pineapple leaf waste. *Journal of Cleaner Production*, **2017**, 165, 1508-1516	10.3	50
61	Bioconversion of hemicelluloses of lignocellulosic biomass to ethanol: an attempt to utilize pentose sugars. *Biofuels*, **2017**, 8, 431-444	2	34
60	Sustainable green solvents and techniques for lipid extraction from microalgae: A review. *Algal Research*, **2017**, 21, 138-147	5	153
59	Nutrient Enrichment of Organic Manure Through Biotechnological Means. *Waste and Biomass Valorization*, **2017**, 8, 645-657	3.2	5

58	Partially consolidated bioprocessing of mixed lignocellulosic feedstocks for ethanol production. *Bioresource Technology*, **2017**, 245, 530-539	11	32
57	Integrated bioethanol and biomanure production from potato waste. *Waste Management*, **2016**, 49, 320-325	5.6	57
56	Sensory Preference Modeling of Probiotic Shrikhand Employing Soft Computing. *Agricultural Research*, **2016**, 5, 362-372	1.4	2
55	A strategic laccase mediated lignin degradation of lignocellulosic feedstocks for ethanol production. *Industrial Crops and Products*, **2016**, 92, 174-185	5.9	43
54	Enzyme mediated biomass pretreatment and hydrolysis: a biotechnological venture towards bioethanol production. *RSC Advances*, **2016**, 6, 61301-61311	3.7	36
53	A green approach for starch modification: Esterification by lipase and novel imidazolium surfactant. *Carbohydrate Polymers*, **2016**, 150, 359-68	10.3	67
52	Kinetic modelling of laccase mediated delignification of Lantana camara. *Bioresource Technology*, **2016**, 212, 47-54	11	21
51	Imidazolium based ionic liquid type surfactant improves activity and thermal stability of lipase of Rhizopus oryzae. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 119, 12-17		22
50	Role of spacer length in interaction between novel gemini imidazolium surfactants and Rhizopus oryzae lipase. *International Journal of Biological Macromolecules*, **2015**, 81, 560-7	7.9	16
49	Enzymatic delignification: an attempt for lignin degradation from lignocellulosic feedstock. *RSC Advances*, **2015**, 5, 75281-75291	3.7	45
48	Seed birth to death: dual functions of reactive oxygen species in seed physiology. *Annals of Botany*, **2015**, 116, 663-8	4.1	159
47	Yellow Laccase-Mediated Lignin Degradation of Ricinus communis: A Future Agricultural Biomass for Biofuel Production. *Agricultural Research*, **2015**, 4, 309-318	1.4	9
46	Enzymatic polishing of cereal grains for improved nutrient retainment. *Journal of Food Science and Technology*, **2015**, 52, 3147-57	3.3	11
45	Simultaneous saccharification and fermentation of enzyme pretreated Lantana camara using S. cerevisiae. *Bioprocess and Biosystems Engineering*, **2014**, 37, 1963-9	3.7	10
44	A comprehensive study on enhanced characteristics of modified polylactic acid based versatile biopolymer. *European Polymer Journal*, **2014**, 54, 52-61	5.2	30
43	Application of decolourized and partially purified polygalacturonase and α-amylase in apple juice clarification. *Brazilian Journal of Microbiology*, **2014**, 45, 97-104	2.2	31
42	Growth characteristics modeling of Lactobacillus acidophilus using RSM and ANN. *Brazilian Archives of Biology and Technology*, **2014**, 57, 15-22	1.8	7
41	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	1.8	3

40	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	4.3	5
39	Copolymerization of lactic acid for cost-effective PLA synthesis and studies on its improved characteristics. *Food Science and Biotechnology*, **2013**, 22, 73-77	3	15
38	Lipase mediated transesterification of Simarouba glauca oil: a new feedstock for biodiesel production. *Sustainable Chemical Processes*, **2013**, 1, 11		32
37	Peptide enriched functional food adjunct from soy whey: A statistical optimization study. *Food Science and Biotechnology*, **2013**, 22, 65-71	3	14
36	Zizyphus oenophlia: a potent substrate for lactic acid production. *Bioresource Technology*, **2013**, 133, 627-9	11	6
35	Solvent-Free Synthesis of Flavour Esters through Immobilized Lipase Mediated Transesterification. *Enzyme Research*, **2013**, 2013, 367410	2.4	44
34	Modeling, Simulation, and Kinetic Studies of Solvent-Free Biosynthesis of Benzyl Acetate. *Journal of Chemistry*, **2013**, 2013, 1-9	2.3	7
33	Enhanced lipase recovery through RSM integrated differential evolutionary approach from the fermented biomass. *Brazilian Archives of Biology and Technology*, **2013**, 56, 699-709	1.8	1
32	Biochemical Characterisation of a Newly Isolated Low Molecular Weight Lipase from Rhizopus oryzae NRRL 3562. *Enzyme Engineering*, **2013**, 02,		5
31	Utilization of Vegetable Wastes for Bioenergy Generation. *Agricultural Research*, **2012**, 1, 213-222	1.4	65
30	Optimization of laccase production using response surface methodology coupled with differential evolution. *New Biotechnology*, **2011**, 28, 31-9	6.4	50
29	Enzymatic depolymerization of Ricinus communis, a potential lignocellulosic for improved saccharification. *Biomass and Bioenergy*, **2011**, 35, 3584-3591	5.3	49
28	Accessibility of Enzymatically Delignified Bambusa bambos for Efficient Hydrolysis at Minimum Cellulase Loading: An Optimization Study. *Enzyme Research*, **2011**, 2011, 805795	2.4	38
27	Production of ethanol from lignocellulosics: an enzymatic venture. *EXCLI Journal*, **2011**, 10, 85-96	2.4	33
26	Evolutionary and swarm intelligence-based approaches for optimization of lipase extraction from fermented broth. *Engineering in Life Sciences*, **2010**, 10, 265-273	3.4	20
25	Evaluation of lipase production by genetic algorithm and particle swarm optimization and their comparative study. *Applied Biochemistry and Biotechnology*, **2010**, 162, 1350-61	3.2	27
24	Optimization of Process Variables for Lipase Biosynthesis from Rhizopus oligosporus NRRL 5905 Using Evolutionary Operation Factorial Design Technique. *Indian Journal of Microbiology*, **2010**, 50, 396-403	2.7	11
23	Study of conformational changes in glucoamylase of Aspergillus awamori nakazawa in presence of denaturants through CD-spectroscopy. *Bioresource Technology*, **2010**, 101, 7577-80	11	11

22	Statistical optimization of culture conditions by response surface methodology for synthesis of lipase with Enterobacter aerogenes. *Brazilian Archives of Biology and Technology*, **2009**, 52, 1349-1356	1.8	24
21	Kinetics of solvent-free geranyl acetate synthesis by Rhizopus oligosporus NRRL 5905 lipase immobilized on to cross-linked silica. *Biocatalysis and Biotransformation*, **2009**, 27, 124-130	2.5	21
20	Enzymatic synthesis of fruit flavor esters by immobilized lipase from Rhizopus oligosporus optimized with response surface methodology. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 60, 57-63		76
19	Optimization of extraction and purification of glucoamylase produced by Aspergillus awamori in solid-state fermentation. *Biotechnology and Bioprocess Engineering*, **2009**, 14, 60-66	3.1	30
18	Enzymatic transesterification of Jatropha oil. *Biotechnology for Biofuels*, **2009**, 2, 1	7.8	227
17	Characterization of amylase and protease produced by Aspergillus awamori in a single bioreactor. *Food Research International*, **2009**, 42, 443-448	7	40
16	Comparative study of thermostability and ester synthesis ability of free and immobilized lipases on cross linked silica gel. *Bioprocess and Biosystems Engineering*, **2008**, 31, 291-8	3.7	28
15	Multivariable parameter optimization for the endoglucanase production by Trichoderma reesei Rut C30 from Ocimum gratissimum seed. *Brazilian Archives of Biology and Technology*, **2008**, 51, 35-41	1.8	23
14	Comparative profiles of alpha-amylase production in conventional tray reactor and GROWTEK bioreactor. *Bioprocess and Biosystems Engineering*, **2007**, 30, 369-76	3.7	27
13	Effects of temperature, pH and additives on the activity of tannase produced by a co-culture of Rhizopus oryzae and Aspergillus foetidus. *World Journal of Microbiology and Biotechnology*, **2006**, 22, 207-212	4.4	53
12	Microbial transformation of tannin-rich substrate to gallic acid through co-culture method. *Bioresource Technology*, **2005**, 96, 949-53	11	60
11	Modeling and optimization of protease production by a newly isolated Pseudomonas sp. using a genetic algorithm. *Process Biochemistry*, **2005**, 40, 879-884	4.8	19
10	Evolutionary operation-factorial design technique for optimization of conversion of mixed agroproducts into gallic acid. *Applied Biochemistry and Biotechnology*, **2004**, 118, 33-46	3.2	9
9	Biosynthesis of tannase and gallic acid from tannin rich substrates by Rhizopus oryzae and Aspergillus foetidus. *Journal of Basic Microbiology*, **2004**, 44, 42-8	2.7	44
8	Purification and characterization of a protease from solid state cultures of Aspergillus parasiticus. *Process Biochemistry*, **2003**, 38, 1553-1558	4.8	65
7	Evolutionary operation as a tool of optimization for solid state fermentation. *Biochemical Engineering Journal*, **2003**, 13, 149-155	4.2	17
6	Optimization of physicochemical parameters for gallic acid production by evolutionary operation-factorial design technique. *Process Biochemistry*, **2002**, 37, 1395-1401	4.8	36
5	Optimization of extraction parameters for recovery of alpha-amylase from the fermented bran of Bacillus circulans GRS313. *Brazilian Archives of Biology and Technology*, **2001**, 44, 107-111	1.8	16

4	Production and characterization of tannase from Bacillus cereus KBR9. *Journal of General and Applied Microbiology*, **2001**, 47, 263-267	1.5	61
3	Optimization of n variable biological experiments by evolutionary operation-factorial design technique. *Journal of Bioscience and Bioengineering*, **1999**, 87, 224-30	3.3	27
2	Evolutionary operation (EVOP) to optimize three-dimensional biological experiments. *Biotechnology and Bioengineering*, **1993**, 41, 67-71	4.9	33
1	Purification of alkaline protease of Rhizopus oryzae by foam fractionation. *Bioprocess and Biosystems Engineering*, **1993**, 9, 245-248		23