

# Rintu Banerjee

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enzymatic transesterification of Jatropha oil. <i>Biotechnology for Biofuels</i> , <b>2009</b> , 2, 1	7.8	227
92	Seed birth to death: dual functions of reactive oxygen species in seed physiology. <i>Annals of Botany</i> , <b>2015</b> , 116, 663-8	4.1	159
91	Sustainable green solvents and techniques for lipid extraction from microalgae: A review. <i>Algal Research</i> , <b>2017</b> , 21, 138-147	5	153
90	Green solvents and technologies for oil extraction from oilseeds. <i>Chemistry Central Journal</i> , <b>2017</b> , 11, 9		93
89	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> , <b>2009</b> , 60, 57-63		76
88	A green approach for starch modification: Esterification by lipase and novel imidazolium surfactant. <i>Carbohydrate Polymers</i> , <b>2016</b> , 150, 359-68	10.3	67
87	Utilization of Vegetable Wastes for Bioenergy Generation. <i>Agricultural Research</i> , <b>2012</b> , 1, 213-222	1.4	65
86	Purification and characterization of a protease from solid state cultures of <i>Aspergillus parasiticus</i> . <i>Process Biochemistry</i> , <b>2003</b> , 38, 1553-1558	4.8	65
85	Production and characterization of tannase from <i>Bacillus cereus</i> KBR9. <i>Journal of General and Applied Microbiology</i> , <b>2001</b> , 47, 263-267	1.5	61
84	Microbial transformation of tannin-rich substrate to gallic acid through co-culture method. <i>Bioresource Technology</i> , <b>2005</b> , 96, 949-53	11	60
83	Integrated bioethanol and biomanure production from potato waste. <i>Waste Management</i> , <b>2016</b> , 49, 3208-3215	8.5	57
82	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> , <b>2006</b> , 22, 207-212	4.4	53
81	An integrated bioprocess for bioethanol and biomanure production from pineapple leaf waste. <i>Journal of Cleaner Production</i> , <b>2017</b> , 165, 1508-1516	10.3	50
80	Optimization of laccase production using response surface methodology coupled with differential evolution. <i>New Biotechnology</i> , <b>2011</b> , 28, 31-9	6.4	50
79	Enzymatic depolymerization of <i>Ricinus communis</i> , a potential lignocellulosic for improved saccharification. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 3584-3591	5.3	49
78	Enzymatic delignification: an attempt for lignin degradation from lignocellulosic feedstock. <i>RSC Advances</i> , <b>2015</b> , 5, 75281-75291	3.7	45
77	Solvent-Free Synthesis of Flavour Esters through Immobilized Lipase Mediated Transesterification. <i>Enzyme Research</i> , <b>2013</b> , 2013, 367410	2.4	44

76	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> , <b>2004</b> , 44, 42-8	2.7	44
75	A strategic laccase mediated lignin degradation of lignocellulosic feedstocks for ethanol production. <i>Industrial Crops and Products</i> , <b>2016</b> , 92, 174-185	5.9	43
74	Characterization of amylase and protease produced by <i>Aspergillus awamori</i> in a single bioreactor. <i>Food Research International</i> , <b>2009</b> , 42, 443-448	7	40
73	Intervention of microfluidics in biofuel and bioenergy sectors: Technological considerations and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 101, 548-558	16.2	40
72	Accessibility of Enzymatically Delignified <i>Bambusa bambos</i> for Efficient Hydrolysis at Minimum Cellulase Loading: An Optimization Study. <i>Enzyme Research</i> , <b>2011</b> , 2011, 805795	2.4	38
71	A cleaner and eco-friendly bioprocess for enhancing reducing sugar production from pineapple leaf waste. <i>Journal of Cleaner Production</i> , <b>2017</b> , 149, 387-395	10.3	37
70	Simultaneous pretreatment and saccharification of bamboo for biobutanol production. <i>Industrial Crops and Products</i> , <b>2017</b> , 101, 21-28	5.9	37
69	Enzyme mediated biomass pretreatment and hydrolysis: a biotechnological venture towards bioethanol production. <i>RSC Advances</i> , <b>2016</b> , 6, 61301-61311	3.7	36
68	Optimization of physicochemical parameters for gallic acid production by evolutionary operation-factorial design technique. <i>Process Biochemistry</i> , <b>2002</b> , 37, 1395-1401	4.8	36
67	Bioconversion of hemicelluloses of lignocellulosic biomass to ethanol: an attempt to utilize pentose sugars. <i>Biofuels</i> , <b>2017</b> , 8, 431-444	2	34
66	Evolutionary operation (EVOP) to optimize three-dimensional biological experiments. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 41, 67-71	4.9	33
65	Production of ethanol from lignocellulosics: an enzymatic venture. <i>EXCLI Journal</i> , <b>2011</b> , 10, 85-96	2.4	33
64	Lipase mediated transesterification of <i>Simarouba glauca</i> oil: a new feedstock for biodiesel production. <i>Sustainable Chemical Processes</i> , <b>2013</b> , 1, 11		32
63	Partially consolidated bioprocessing of mixed lignocellulosic feedstocks for ethanol production. <i>Bioresource Technology</i> , <b>2017</b> , 245, 530-539	11	32
62	Application of decolourized and partially purified polygalacturonase and $\alpha$ -amylase in apple juice clarification. <i>Brazilian Journal of Microbiology</i> , <b>2014</b> , 45, 97-104	2.2	31
61	A comprehensive study on enhanced characteristics of modified polylactic acid based versatile biopolymer. <i>European Polymer Journal</i> , <b>2014</b> , 54, 52-61	5.2	30
60	Optimization of extraction and purification of glucoamylase produced by <i>Aspergillus awamori</i> in solid-state fermentation. <i>Biotechnology and Bioprocess Engineering</i> , <b>2009</b> , 14, 60-66	3.1	30
59	Biodiesel from oleaginous microbes: opportunities and challenges. <i>Biofuels</i> , <b>2019</b> , 10, 45-59	2	30

58	Enhanced lipid extraction from oleaginous yeast biomass using ultrasound assisted extraction: A greener and scalable process. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 52, 25-32	8.9	29
57	A green and sustainable approach on statistical optimization of laccase mediated delignification of sugarcane tops for enhanced saccharification. <i>Journal of Environmental Management</i> , <b>2018</b> , 217, 700-709	7.9	28
56	Comparative study of thermostability and ester synthesis ability of free and immobilized lipases on cross linked silica gel. <i>Bioprocess and Biosystems Engineering</i> , <b>2008</b> , 31, 291-8	3.7	28
55	Evaluation of lipase production by genetic algorithm and particle swarm optimization and their comparative study. <i>Applied Biochemistry and Biotechnology</i> , <b>2010</b> , 162, 1350-61	3.2	27
54	Comparative profiles of alpha-amylase production in conventional tray reactor and GROWTEK bioreactor. <i>Bioprocess and Biosystems Engineering</i> , <b>2007</b> , 30, 369-76	3.7	27
53	Optimization of n variable biological experiments by evolutionary operation-factorial design technique. <i>Journal of Bioscience and Bioengineering</i> , <b>1999</b> , 87, 224-30	3.3	27
52	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> , <b>2009</b> , 52, 1349-1356	1.8	24
51	Purification of alkaline protease of <i>Rhizopus oryzae</i> by foam fractionation. <i>Bioprocess and Biosystems Engineering</i> , <b>1993</b> , 9, 245-248		23
50	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> , <b>2008</b> , 51, 35-41	1.8	23
49	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> , <b>2015</b> , 119, 12-17		22
48	An eco-friendly process integration for second generation bioethanol production from laccase delignified Kans grass. <i>Energy Conversion and Management</i> , <b>2018</b> , 157, 364-371	10.6	21
47	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> , <b>2009</b> , 27, 124-130	2.5	21
46	Kinetic modelling of laccase mediated delignification of <i>Lantana camara</i> . <i>Bioresource Technology</i> , <b>2016</b> , 212, 47-54	11	21
45	Evolutionary and swarm intelligence-based approaches for optimization of lipase extraction from fermented broth. <i>Engineering in Life Sciences</i> , <b>2010</b> , 10, 265-273	3.4	20
44	Modeling and optimization of protease production by a newly isolated <i>Pseudomonas</i> sp. using a genetic algorithm. <i>Process Biochemistry</i> , <b>2005</b> , 40, 879-884	4.8	19
43	Laccase mediated delignification of pineapple leaf waste: an ecofriendly sustainable attempt towards valorization. <i>BMC Chemistry</i> , <b>2019</b> , 13, 58	3.7	17
42	Evolutionary operation as a tool of optimization for solid state fermentation. <i>Biochemical Engineering Journal</i> , <b>2003</b> , 13, 149-155	4.2	17
41	Role of spacer length in interaction between novel gemini imidazolium surfactants and <i>Rhizopus oryzae</i> lipase. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 81, 560-7	7.9	16

40	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> , <b>2001</b> , 44, 107-111	1.8	16
39	Copolymerization of lactic acid for cost-effective PLA synthesis and studies on its improved characteristics. <i>Food Science and Biotechnology</i> , <b>2013</b> , 22, 73-77	3	15
38	Separate and simultaneous saccharification and fermentation of a pretreated mixture of lignocellulosic biomass for ethanol production. <i>Biofuels</i> , <b>2019</b> , 10, 61-72	2	15
37	Peptide enriched functional food adjunct from soy whey: A statistical optimization study. <i>Food Science and Biotechnology</i> , <b>2013</b> , 22, 65-71	3	14
36	Optimization of saccharification of enzymatically pretreated sugarcane tops by response surface methodology for ethanol production. <i>Biofuels</i> , <b>2019</b> , 10, 73-80	2	13
35	Enzymatic delignification and saccharification of <i>Bambusa bambos</i> for biobutanol production. <i>Industrial Crops and Products</i> , <b>2018</b> , 125, 386-394	5.9	13
34	Statistical optimization of bacterial cellulose production by <i>Leifsonia soli</i> and its physico-chemical characterization. <i>Process Biochemistry</i> , <b>2020</b> , 91, 297-302	4.8	12
33	An innovative approach of mixed enzymatic venture for 2G ethanol production from lignocellulosic feedstock. <i>Energy Conversion and Management</i> , <b>2020</b> , 207, 112504	10.6	12
32	Enzymatic polishing of cereal grains for improved nutrient retainment. <i>Journal of Food Science and Technology</i> , <b>2015</b> , 52, 3147-57	3.3	11
31	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> , <b>2010</b> , 50, 396-403	3.7	11
30	Study of conformational changes in glucoamylase of <i>Aspergillus awamori</i> nakazawa in presence of denaturants through CD-spectroscopy. <i>Bioresource Technology</i> , <b>2010</b> , 101, 7577-80	11	11
29	In silico optimization of enzyme mediated debittering of Assam lemon: biochemical and sensory evaluation studies. <i>Journal of Food Science and Technology</i> , <b>2019</b> , 56, 2233-2243	3.3	10
28	Simultaneous saccharification and fermentation of enzyme pretreated <i>Lantana camara</i> using <i>S. cerevisiae</i> . <i>Bioprocess and Biosystems Engineering</i> , <b>2014</b> , 37, 1963-9	3.7	10
27	Yellow Laccase-Mediated Lignin Degradation of <i>Ricinus communis</i> : A Future Agricultural Biomass for Biofuel Production. <i>Agricultural Research</i> , <b>2015</b> , 4, 309-318	1.4	9
26	Production and characterization of cellulose from <i>Leifsonia</i> sp.. <i>Process Biochemistry</i> , <b>2019</b> , 85, 35-42	4.8	9
25	Evolutionary operation-factorial design technique for optimization of conversion of mixed agroproducts into gallic acid. <i>Applied Biochemistry and Biotechnology</i> , <b>2004</b> , 118, 33-46	3.2	9
24	Simultaneous Saccharification and Fermentation of Lignocellulosic Biomass. <i>Biofuel and Biorefinery Technologies</i> , <b>2018</b> , 265-285	1	9
23	Valorization of citrus lemon wastes through biorefinery approach: An industrial symbiosis. <i>Bioresource Technology Reports</i> , <b>2021</b> , 15, 100717	4.1	9

22	Production of biodiesel utilizing laccase pretreated lignocellulosic waste liquor: An attempt towards cleaner production process. <i>Energy Conversion and Management</i> , <b>2019</b> , 196, 979-987	10.6	8
21	Growth characteristics modeling of <i>Lactobacillus acidophilus</i> using RSM and ANN. <i>Brazilian Archives of Biology and Technology</i> , <b>2014</b> , 57, 15-22	1.8	7
20	Modeling, Simulation, and Kinetic Studies of Solvent-Free Biosynthesis of Benzyl Acetate. <i>Journal of Chemistry</i> , <b>2013</b> , 2013, 1-9	2.3	7
19	<i>Zizyphus oenophlia</i> : a potent substrate for lactic acid production. <i>Bioresource Technology</i> , <b>2013</b> , 133, 627-9	11	6
18	Biodiesel Production from Lignocellulosic Biomass Using Oleaginous Microbes <b>2017</b> , 65-92		5
17	Nutrient Enrichment of Organic Manure Through Biotechnological Means. <i>Waste and Biomass Valorization</i> , <b>2017</b> , 8, 645-657	3.2	5
16	Comparative pretreatment method for efficient enzymatic hydrolysis of <i>Salvinia cucullata</i> and sewage treatment in ponds containing this biomass. <i>Clean Technologies and Environmental Policy</i> , <b>2014</b> , 16, 1787-1794	4.3	5
15	Biochemical Characterisation of a Newly Isolated Low Molecular Weight Lipase from <i>Rhizopus oryzae</i> NRRL 3562. <i>Enzyme Engineering</i> , <b>2013</b> , 02,		5
14	Citrus fruits <b>2020</b> , 145-166		4
13	Growth Characteristics Modeling of Mixed Culture of <i>Bifidobacterium bifidum</i> and <i>Lactobacillus acidophilus</i> using Response Surface Methodology and Artificial Neural Network. <i>Brazilian Archives of Biology and Technology</i> , <b>2014</b> , 57, 962-970	1.8	3
12	Microbial Enzymes and Lignocellulosic Fuel Production <b>2017</b> , 135-170		2
11	Sensory Preference Modeling of Probiotic Shrikhand Employing Soft Computing. <i>Agricultural Research</i> , <b>2016</b> , 5, 362-372	1.4	2
10	A new insight on improved biomethanation using graphene oxide from fermented Assam lemon waste. <i>Fuel</i> , <b>2022</b> , 309, 122195	7.1	2
9	Exploring indigenously produced celite-immobilized <i>Rhizopus oryzae</i> NRRL 3562-lipase for biodiesel production. <i>Energy</i> , <b>2021</b> , 222, 119950	7.9	2
8	An integrated biorefinery approach for bioethanol production from sugarcane tops. <i>Journal of Cleaner Production</i> , <b>2022</b> , 352, 131451	10.3	2
7	Biotechnological Exploitation of Poly-Lactide Produced from Cost Effective Lactic Acid <b>2018</b> , 401-416		1
6	Enhanced lipase recovery through RSM integrated differential evolutionary approach from the fermented biomass. <i>Brazilian Archives of Biology and Technology</i> , <b>2013</b> , 56, 699-709	1.8	1
5	Enrichment of N and bioavailability of P and K of lemon wastes through biotechnological intervention with special reference to Mung bean production. <i>Bioresource Technology Reports</i> , <b>2021</b> , 15, 100794	4.1	1

- 4 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 o
- 3 Simultaneous debittering and clarification of enzyme mediated mixed citrus juice production. *Applied Food Research*, **2022**, 2, 100031 o
- 2 Technologies for oil extraction from oilseeds and oleaginous microbes **2021**, 243-266 o
- 1 Wastes to Wealth for Bioenergy Generation **2022**, 211-231