

Ipsita Roy

List of Publications by Year in descending order

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106
papers

3,582
citations

172207

29
h-index

143772

57
g-index

106
all docs

106
docs citations

106
times ranked

4550
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycerol 3-phosphate dehydrogenase regulates heat shock response in <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2022, 1869, 119238.	1.9	1
2	Nucleic acid therapeutics: a focus on the development of aptamers. <i>Expert Opinion on Drug Discovery</i> , 2021, 16, 255-274.	2.5	18
3	Drugs, host proteins and viral proteins: how their promiscuities shape antiviral design. <i>Biological Reviews</i> , 2021, 96, 205-222.	4.7	7
4	Applications of three phase partitioning and macro-(affinity ligand) facilitated three phase partitioning in protein refolding. , 2021, , 197-222.		0
5	Macro-(affinity ligand) facilitated three phase partitioning Converting TPP into an affinity based process. , 2021, , 175-196.		2
6	Molecular crowding accelerates aggregation of α -synuclein by altering its folding pathway. <i>European Biophysics Journal</i> , 2021, 50, 59-67.	1.2	6
7	Lysine245 plays a crucial role in stability and function of glycerol 3-phosphate dehydrogenase (Gpd1) in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cellular Biochemistry</i> , 2021, 122, 1726-1736.	1.2	3
8	<i>Saccharomyces cerevisiae</i> Fpr1 functions as a chaperone to inhibit protein aggregation. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 40-50.	3.6	5
9	Analytical and biosensing platforms for insulin: A review. <i>Sensors and Actuators Reports</i> , 2021, 3, 100028.	2.3	21
10	Oligomers, fibrils and aggregates formed by alpha-synuclein: role of solution conditions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, , 1-10.	2.0	2
11	Harmin Acts as an Indirect Inhibitor of Intracellular Protein Aggregation. <i>ACS Omega</i> , 2020, 5, 5620-5628.	1.6	8
12	How Corona Formation Impacts Nanomaterials as Drug Carriers. <i>Molecular Pharmaceutics</i> , 2020, 17, 725-737.	2.3	36
13	Stabilization of elongated polyglutamine tracts by a helical peptide derived from N-terminal huntingtin. <i>IUBMB Life</i> , 2020, 72, 1528-1536.	1.5	2
14	Discovery of Arginine Ethyl Ester as Polyglutamine Aggregation Inhibitor: Conformational Transitioning of Huntingtin N-Terminus Augments Aggregation Suppression. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3969-3985.	1.7	14
15	Nucleic Acid Therapeutics in Huntington's Disease. <i>Recent Patents on Biotechnology</i> , 2019, 13, 187-206.	0.4	5
16	Does N-terminal huntingtin function as a chaperone for inhibiting cellular protein aggregation?. <i>FEBS Journal</i> , 2018, 285, 1791-1811.	2.2	6
17	Designing aptamers which respond to intracellular oxidative stress and inhibit aggregation of mutant huntingtin. <i>Free Radical Biology and Medicine</i> , 2018, 120, 311-316.	1.3	8
18	RNA Aptamers Rescue Mitochondrial Dysfunction in a Yeast Model of Huntington's Disease. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 12, 45-56.	2.3	12

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19	Discrete roles of trehalose and Hsp104 in inhibition of protein aggregation in yeast cells. <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	6
20	Inhibition of Aggregation of Mutant Huntingtin by Nucleic Acid Aptamers In Vitro and in a Yeast Model of Huntingtin's Disease. , 2018, , 207-228.		0
21	Challenges with osmolytes as inhibitors of protein aggregation: Can nucleic acid aptamers provide an answer?. <i>International Journal of Biological Macromolecules</i> , 2017, 100, 75-88.	3.6	7
22	Nicotine slows down oligomerisation of α -synuclein and ameliorates cytotoxicity in a yeast model of Parkinson's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1454-1463.	1.8	32
23	Crosstalk Between Osmolytes and Cellular Chaperones: Examples in <i>Saccharomyces cerevisiae</i> . , 2017, , 55-75.		1
24	Protein aggregation. <i>International Journal of Biological Macromolecules</i> , 2017, 100, 1-2.	3.6	1
25	Obtaining a high activity subtilisin preparation by controlled thermal stress in n-octane. <i>Analytical Biochemistry</i> , 2017, 534, 86-90.	1.1	1
26	Cross-Linked Enzyme Aggregates for Applications in Aqueous and Nonaqueous Media. <i>Methods in Molecular Biology</i> , 2017, 1504, 109-123.	0.4	12
27	Converting Enzymes into Tools of Industrial Importance. <i>Recent Patents on Biotechnology</i> , 2017, 12, 33-56.	0.4	47
28	A Sensitive, Rapid, and Specific Technique for the Detection of Collagenase Using Zymography. <i>Methods in Molecular Biology</i> , 2017, 1626, 115-121.	0.4	1
29	Trehalose-Induced Structural Transition Accelerates Aggregation of α -Synuclein. <i>Molecular Biotechnology</i> , 2016, 58, 251-255.	1.3	15
30	Design, synthesis and biological evaluation of 5-benzylidene-2-iminothiazolidin-4-ones as selective GSK-3 β inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 727-736.	2.6	34
31	Differential effect of a chemical denaturant on activity and stability of a serine protease in nonaqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 32-36.	1.8	3
32	Specific detection of tetanus toxoid using an aptamer-based matrix. <i>Journal of Biotechnology</i> , 2016, 238, 15-21.	1.9	7
33	Protein aggregation activates erratic stress response in dietary restricted yeast cells. <i>Scientific Reports</i> , 2016, 6, 33433.	1.6	8
34	Cellular toxicity of yeast prion protein Rnq1 can be modulated by N-terminal wild type huntingtin. <i>Archives of Biochemistry and Biophysics</i> , 2016, 590, 82-89.	1.4	3
35	Gpd1 Regulates the Activity of Tcp-1 and Heat Shock Response in Yeast Cells: Effect on Aggregation of Mutant Huntingtin. <i>Molecular Neurobiology</i> , 2016, 53, 3900-3913.	1.9	2
36	Understanding Caffeine's Role in Attenuating the Toxicity of α -Synuclein Aggregates: Implications for Risk of Parkinson's Disease. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1613-1625.	1.7	32

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37	Inhibition of Aggregation of Mutant Huntingtin by Nucleic Acid Aptamers In Vitro and in a Yeast Model of Huntington's Disease. <i>Molecular Therapy</i> , 2015, 23, 1912-1926.	3.7	34
38	Nucleic Acid Aptamers Stabilize Proteins Against Different Types of Stress Conditions. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 100-106.	1.6	11
39	Simultaneous Purification and Refolding of Proteins by Affinity Precipitation and Macro (Affinity) Tj ETQq1 1 0.784314 rgBT /Overlock 0.4	0.4	3
40	Deciphering the Roles of Trehalose and Hsp104 in the Inhibition of Aggregation of Mutant Huntingtin in a Yeast Model of Huntington's Disease. <i>NeuroMolecular Medicine</i> , 2014, 16, 280-291.	1.8	27
41	Roles of Hsp104 and trehalose in solubilisation of mutant huntingtin in heat shocked <i>Saccharomyces cerevisiae</i> cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 746-757.	1.9	14
42	Activation of salt shock response leads to solubilisation of mutant huntingtin in <i>Saccharomyces cerevisiae</i> . <i>Cell Stress and Chaperones</i> , 2014, 19, 667-673.	1.2	5
43	Cytotoxicity of Mutant Huntingtin Fragment in Yeast Can Be Modulated by the Expression Level of Wild Type Huntingtin Fragment. <i>ACS Chemical Neuroscience</i> , 2014, 5, 205-215.	1.7	13
44	Effect of endogenous Hsp104 chaperone in yeast models of sporadic and familial Parkinson's disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 55, 87-92.	1.2	6
45	Effect of osmolytes on the fibrillation of HypF-N. <i>Biochimie</i> , 2013, 95, 2190-2193.	1.3	6
46	Nucleic Acid Aptamers as Stabilizers of Proteins: The Stability of Tetanus Toxoid. <i>Pharmaceutical Research</i> , 2013, 30, 1871-1882.	1.7	15
47	Stabilization of bovine insulin against agitation-induced aggregation using RNA aptamers. <i>International Journal of Pharmaceutics</i> , 2013, 452, 257-265.	2.6	10
48	Hsp104 as a key modulator of prion-mediated oxidative stress in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , 2013, 454, 217-225.	1.7	15
49	Correlation between Al ³⁺ -induced thermal stability and inhibition of fibrillation of N-terminal domain of the hydrogenase maturation factor. <i>BioFactors</i> , 2013, 39, 597-607.	2.6	1
50	High Activity Preparations of Lipases and Proteases for Catalysis in Low Water Containing Organic Solvents and Ionic Liquids. <i>Methods in Molecular Biology</i> , 2013, 1051, 275-284.	0.4	2
51	Length of polyglutamine tract affects secondary and tertiary structures of huntingtin protein. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 920-925.	3.6	6
52	Effect of Pesticides on the Aggregation of Mutant Huntingtin Protein. <i>Molecular Neurobiology</i> , 2012, 45, 405-414.	1.9	17
53	Stabilization of tetanus toxoid formulation containing aluminium hydroxide adjuvant against agitation. <i>International Journal of Pharmaceutics</i> , 2012, 423, 297-302.	2.6	7
54	Effect of Chemical Chaperones in Improving the Solubility of Recombinant Proteins in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 4603-4609.	1.4	72

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55	Making sense of therapeutics using antisense technology. <i>Expert Opinion on Drug Discovery</i> , 2011, 6, 507-526.	2.5	25
56	Modulation of α -synuclein aggregation by dopamine in the presence of MPTP and its metabolite. <i>FEBS Journal</i> , 2011, 278, 1688-1698.	2.2	33
57	Accelerated Stability Studies for Moisture-Induced Aggregation of Tetanus Toxoid. <i>Pharmaceutical Research</i> , 2011, 28, 626-639.	1.7	8
58	Probing the mechanism of insulin aggregation during agitation. <i>International Journal of Pharmaceutics</i> , 2011, 413, 73-80.	2.6	40
59	Stabilization of tetanus toxoid formulation containing aluminium hydroxide adjuvant against freeze-thawing. <i>International Journal of Pharmaceutics</i> , 2011, 414, 140-147.	2.6	19
60	Effect of disaccharides on the stabilization of bovine trypsin against detergent and autolysis. <i>Biotechnology Progress</i> , 2010, 26, 627-635.	1.3	17
61	Trehalose and Protein Stability. <i>Current Protocols in Protein Science</i> , 2010, 59, Unit 4.9.	2.8	71
62	Effect of trehalose on protein structure. <i>Protein Science</i> , 2009, 18, 24-36.	3.1	640
63	A sensitive, rapid and specific technique for the detection of collagenase using zymography. <i>Electrophoresis</i> , 2008, 29, 1585-1588.	1.3	7
64	Role of trehalose in moisture-induced aggregation of bovine serum albumin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 824-834.	2.0	48
65	Design and development of antisense drugs. <i>Expert Opinion on Drug Discovery</i> , 2008, 3, 1189-1207.	2.5	16
66	Therapeutic applications of aptamers. <i>Expert Opinion on Investigational Drugs</i> , 2008, 17, 43-60.	1.9	79
67	Leveraging protein purification strategies in proteomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 849, 32-42.	1.2	32
68	Design of Smart Biocatalysts. <i>Methods in Biotechnology</i> , 2006, , 87-95.	0.2	8
69	Affinity-Based Strategies for Protein Purification. <i>Analytical Chemistry</i> , 2006, 78, 3499-3504.	3.2	40
70	Enhancing reaction rate for transesterification reaction catalyzed by <i>Chromobacterium</i> lipase. <i>Enzyme and Microbial Technology</i> , 2005, 36, 896-899.	1.6	14
71	Recovery of biological activity in reversibly inactivated proteins by three phase partitioning. <i>Enzyme and Microbial Technology</i> , 2005, 37, 113-120.	1.6	25
72	Purification and characterization of a solvent stable protease from <i>Pseudomonas aeruginosa</i> PseA. <i>Journal of Chromatography A</i> , 2005, 1069, 155-161.	1.8	108

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73	Simultaneous refolding/purification of xylanase with a microwave treated smart polymer. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1747, 179-187.	1.1	17
74	Î±-Chymotrypsin shows higher activity in water as well as organic solvents after three phase partitioning. <i>Biocatalysis and Biotransformation</i> , 2004, 22, 261-268.	1.1	19
75	Enhancement of Catalytic Efficiencies of Xylanase, Pectinase and Cellulase by Microwave Pretreatment of their Substrates. <i>Biocatalysis and Biotransformation</i> , 2004, 22, 9-16.	1.1	9
76	Enzymes in organic media. <i>FEBS Journal</i> , 2004, 271, 2575-2583.	0.2	208
77	Evaluation of Microbeads of Calcium Alginate as a Fluidized Bed Medium for Affinity Chromatography of <i>Aspergillus niger</i> Pectinase. <i>Biotechnology Progress</i> , 2004, 20, 1490-1495.	1.3	14
78	Obtaining higher transesterification rates with subtilisin Carlsberg in nonaqueous media. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 887-889.	1.0	27
79	Hydrolysis of starch by a mixture of glucoamylase and pullulanase entrapped individually in calcium alginate beads. <i>Enzyme and Microbial Technology</i> , 2004, 34, 26-32.	1.6	129
80	Preparation of highly active Î±-chymotrypsin for catalysis in organic media. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 2191-2193.	1.0	43
81	Three-phase partitioning for simultaneous renaturation and partial purification of <i>Aspergillus niger</i> xylanase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1698, 107-110.	1.1	37
82	Smart Biocatalysts: Design and Applications. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2004, 86, 159-189.	0.6	27
83	Freeze-drying of proteins: some emerging concerns. <i>Biotechnology and Applied Biochemistry</i> , 2004, 39, 165.	1.4	217
84	A Smart Bioconjugate of Trypsin with Alginate. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2004, 32, 325-337.	0.9	7
85	An Integrated Process for Purification of Lysozyme, Ovalbumin, and Ovomuroid From Hen Egg White. <i>Applied Biochemistry and Biotechnology</i> , 2003, 111, 55-64.	1.4	17
86	Purification of lysozyme from other hen's-egg-white proteins using metal-affinity precipitation. <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 9.	1.4	29
87	Î²-Carrageenan as a new smart macroaffinity ligand for the purification of pullulanase. <i>Journal of Chromatography A</i> , 2003, 998, 103-108.	1.8	22
88	Smart Polymeric Materials. <i>Chemistry and Biology</i> , 2003, 10, 1161-1171.	6.2	324
89	Non-thermal effects of microwaves on protease-catalyzed esterification and transesterification. <i>Tetrahedron</i> , 2003, 59, 5431-5436.	1.0	55
90	Lactose hydrolysis by Lactozymâ„¢ immobilized on cellulose beads in batch and fluidized bed modes. <i>Process Biochemistry</i> , 2003, 39, 325-332.	1.8	115

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91	Evaluation of a smart bioconjugate of pectinase for chitin hydrolysis. <i>Biochemical Engineering Journal</i> , 2003, 16, 329-335.	1.8	35
92	A Smart Bioconjugate of Alginate and Pectinase with Unusual Biological Activity toward Chitosan. <i>Biotechnology Progress</i> , 2003, 19, 1654-1658.	1.3	26
93	Accelerating Enzymatic Hydrolysis of Chitin by Microwave Pretreatment. <i>Biotechnology Progress</i> , 2003, 19, 1648-1653.	1.3	34
94	Repeated Enzymatic Hydrolysis of Polygalacturonic Acid, Chitosan and Chitin Using a Novel Reversibly-soluble Pectinase with the Aid of I ⁺ -carrageenan. <i>Biocatalysis and Biotransformation</i> , 2003, 21, 297-304.	1.1	13
95	Separation of an Isoenzyme of Polyphenol Oxidase from <i>Duranta plumieri</i> by Expanded Bed Chromatography. <i>Protein Expression and Purification</i> , 2002, 24, 181-187.	0.6	10
96	Unexpected affinity of polysaccharides and its application in separation of enzymes on fluidized beds. <i>Separation Science and Technology</i> , 2002, 37, 1591-1610.	1.3	5
97	Three-Phase Affinity Partitioning of Proteins. <i>Analytical Biochemistry</i> , 2002, 300, 11-14.	1.1	62
98	Purification of a bacterial pullulanase on a fluidized bed of calcium alginate beads. <i>Journal of Chromatography A</i> , 2002, 950, 131-137.	1.8	17
99	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 2005-2009.	1.1	5
100	Macroaffinity Ligands in Bioseparation. , 2002, , 130-147.		5
101	Applied biocatalysis: an overview. <i>Indian Journal of Biochemistry and Biophysics</i> , 2002, 39, 220-8.	0.2	15
102	Exploiting unusual affinity of usual polysaccharides for separation of enzymes on fluidized beds. <i>Enzyme and Microbial Technology</i> , 2000, 27, 53-65.	1.6	34
103	Simultaneous purification and immobilization of <i>Aspergillus niger</i> xylanase on the reversibly soluble polymer Eudragit TM L-100. <i>Enzyme and Microbial Technology</i> , 2000, 27, 672-679.	1.6	93
104	Purification of a 'double-headed' inhibitor of alpha-amylase/proteinase K from wheat germ by expanded bed chromatography. , 2000, 9, 239-245.		12
105	Purification of alkaline phosphatase from chicken intestine by expanded-bed affinity chromatography on dye-linked cellulose. <i>Biotechnology and Applied Biochemistry</i> , 2000, 32, 81.	1.4	10
106	Title is missing!. <i>Bioseparation</i> , 1999, 8, 317-326.	0.7	28