

Abhijit Chakrabarti

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

1,617
citations

279798

23
h-index

414414

32
g-index

108
all docs

108
docs citations

108
times ranked

1549
citing authors

#	ARTICLE	IF	CITATIONS
1	Blockchain insisted resilience enhancement of power electricity markets using distributed energy trading. <i>International Journal of Emerging Electric Power Systems</i> , 2022, 23, 663-671.	0.8	2
2	Erythroid spectrin binding modulates peroxidase and catalase activity of heme proteins. <i>IUBMB Life</i> , 2022, 74, 474-487.	3.4	1
3	Effects of free soluble iron on thermal aggregation of hemoglobin. <i>Biophysical Chemistry</i> , 2021, 269, 106527.	2.8	4
4	Phospholipid Asymmetry in Biological Membranes: Is the Role of Phosphatidylethanolamine Underappreciated?. <i>Journal of Membrane Biology</i> , 2021, 254, 127-132.	2.1	15
5	Thermodynamics of adsorption of alcohol dehydrogenase on the gold nanoparticle surface: a model based analysis <i>versus</i> direct measurement. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24365-24376.	2.8	6
6	Comparative Analysis of Tryptophan Dynamics in Spectrin and Its Constituent Domains: Insights from Fluorescence. <i>Journal of Physical Chemistry B</i> , 2021, , .	2.6	2
7	Spectrin interactome under normal and HbE-disease conditions. <i>Journal of Proteins and Proteomics</i> , 2020, 11, 233-240.	1.5	3
8	Multiple Functions of Spectrin: Convergent Effects. <i>Journal of Membrane Biology</i> , 2020, 253, 499-508.	2.1	8
9	Vulnerability assessment of a power transmission network employing complex network theory in a resilience framework. <i>Microsystem Technologies</i> , 2020, 26, 2443-2451.	2.0	22
10	Effects of GM1 on brain spectrin-aminophospholipid interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 298-305.	2.6	8
11	Localizing the chaperone activity of erythroid spectrin. <i>Cytoskeleton</i> , 2019, 76, 383-397.	2.0	8
12	Chaperone potential of erythroid spectrin: Effects of hemoglobin interaction, macromolecular crowders, phosphorylation and glycation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 140267.	2.3	6
13	Status of Membrane Asymmetry in Erythrocytes: Role of Spectrin. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1112, 3-11.	1.6	8
14	Structure-activity relationship of heme and its analogues in membrane damage and inhibition of fusion. <i>FEBS Letters</i> , 2018, 592, 2458-2465.	2.8	7
15	Flow Cytometric Analysis of Protein Aggregates. <i>Protein and Peptide Letters</i> , 2018, 24, 969-973.	0.9	2
16	Enzyme Adsorption on Nanoparticle Surface Probed by Highly Sensitive Second Harmonic Light Scattering. <i>Methods in Enzymology</i> , 2017, 590, 33-58.	1.0	2
17	Cholesterol-Induced Structural Changes in Saturated Phospholipid Model Membranes Revealed through X-ray Scattering Technique. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4081-4090.	2.6	35
18	Effect of pH on stability, conformation, and chaperone activity of erythroid & non-erythroid spectrin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 694-702.	2.3	18

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19	Differential adsorption of a membrane skeletal protein, spectrin, in phospholipid membranes. Europhysics Letters, 2017, 118, 58002.	2.0	23
20	Protein-Protein Interaction Probed by Label-free Second Harmonic Light Scattering: Hemoglobin Adsorption on Spectrin Surface as a Case Study. Journal of Physical Chemistry B, 2017, 121, 7797-7802.	2.6	12
21	Substrate specificity in the context of molecular chaperones. IUBMB Life, 2017, 69, 647-659.	3.4	24
22	Localization and dynamics of the anticarcinogenic curcumin with GM1 and other micellar assemblies. Glycoconjugate Journal, 2017, 34, 171-179.	2.7	1
23	Resiliency improvement for a part of south Indian power transmission network. , 2017, , .		2
24	A Possible Role of the Full-Length Nascent Protein in Post-Translational Ribosome Recycling. PLoS ONE, 2017, 12, e0170333.	2.5	3
25	A FACS Based Case Study on Two HbE- β^2 Thalassaemia Members of a Family, Having Similar Mutational Background. Scientifica, 2016, 2016, 1-6.	1.7	0
26	Platelet proteomics in thalassemia: Factors responsible for hypercoagulation. Proteomics - Clinical Applications, 2016, 10, 239-247.	1.6	12
27	OPF governed determination of location and size of distribution generators using gravitational search algorithm. , 2016, , .		0
28	Erythrocyte and platelet proteomics in hematological disorders. Proteomics - Clinical Applications, 2016, 10, 403-414.	1.6	15
29	Differential interactions of imatinib mesylate with the membrane skeletal protein spectrin and hemoglobin. RSC Advances, 2016, 6, 55203-55210.	3.6	4
30	Analysis of Vulnerability indices of power grid integrated DG units based on Complex Network theory. , 2015, , .		7
31	Probing Conformational Stability and Dynamics of Erythroid and Nonerythroid Spectrin: Effects of Urea and Guanidine Hydrochloride. PLoS ONE, 2015, 10, e0116991.	2.5	36
32	Malachite green interacts with the membrane skeletal protein, spectrin. RSC Advances, 2015, 5, 91166-91176.	3.6	5
33	Differential interactions of two local anesthetics with phospholipid membrane and nonerythroid spectrin: Localization in presence of cholesterol and ganglioside, GM1. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 821-832.	2.6	11
34	Peanut protein sensitivity towards trace iron: A novel mode to ebb allergic response. Food Chemistry, 2015, 176, 308-313.	8.2	4
35	Differential proteomics study of platelets in asymptomatic constitutional macrothrombocytopenia: altered levels of cytoskeletal proteins. European Journal of Haematology, 2015, 94, 43-50.	2.2	14
36	Suppression of protein aggregation by gold nanoparticles: a new way to store and transport proteins. RSC Advances, 2015, 5, 38558-38570.	3.6	14

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37	Defects in Erythrocyte Membrane Skeletal Architecture. <i>Advances in Experimental Medicine and Biology</i> , 2015, 842, 41-59.	1.6	6
38	Organization and Dynamics of Tryptophan Residues in Brain Spectrin: Novel Insight into Conformational Flexibility. <i>Journal of Fluorescence</i> , 2015, 25, 707-717.	2.5	11
39	Binding of hemin, hematoporphyrin, and protoporphyrin with erythroid spectrin: fluorescence and molecular docking studies. <i>European Biophysics Journal</i> , 2015, 44, 171-182.	2.2	14
40	Fluorescence study of the effect of cholesterol on spectrin-aminophospholipid interactions. <i>European Biophysics Journal</i> , 2015, 44, 635-645.	2.2	6
41	Proteome analysis of the triton-insoluble erythrocyte membrane skeleton. <i>Journal of Proteomics</i> , 2015, 128, 298-305.	2.4	18
42	Hemoglobin interacting proteins and implications of spectrin hemoglobin interaction. <i>Journal of Proteomics</i> , 2015, 128, 469-475.	2.4	30
43	Differential regulation of urine proteins in urothelial neoplasm. <i>Journal of Proteomics</i> , 2015, 127, 185-192.	2.4	9
44	Comparative proteomics and glycoproteomics of plasma proteins in Indian visceral leishmaniasis. <i>Proteome Science</i> , 2014, 12, 48.	1.7	31
45	Reactive power tracing of a multibus power system in presence of SVC. , 2014, , .		1
46	Binding of polarity-sensitive hydrophobic ligands to erythroid and nonerythroid spectrin: fluorescence and molecular modeling studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 852-865.	3.5	15
47	Differential Regulation of Plasma Proteins between Members of a Family with Homozygous HbE and HbE ² -thalassemia. <i>Thalassemia Reports</i> , 2014, 4, 1837.	0.5	0
48	2DGE and DIGE based proteomic study of malignant B-cells in B-cell acute lymphoblastic leukemia. <i>EuPA Open Proteomics</i> , 2014, 3, 13-26.	2.5	10
49	Modified shuffled frog leaping algorithm with genetic algorithm crossover for solving economic load dispatch problem with valve-point effect. <i>Applied Soft Computing Journal</i> , 2013, 13, 4244-4252.	7.2	84
50	Experience with transformer interaction with low amplitude high oscillatory switching transients in a power utility network. , 2013, , .		0
51	2D DIGE based proteomics study of erythrocyte cytosol in sickle cell disease: Altered proteostasis and oxidative stress. <i>Proteomics</i> , 2013, 13, 3233-3242.	2.2	26
52	Differential Thermal Stability and Oxidative Vulnerability of the Hemoglobin Variants, HbA2 and HbE. <i>PLoS ONE</i> , 2013, 8, e81820.	2.5	18
53	Self organizing feature map and radial basis function based voltage stability state classification of power system. <i>European Journal of Electrical Engineering</i> , 2013, 16, 7-25.	0.3	2
54	Response of EHV Grid Transformers to System-Originated Oscillatory Switching Transients. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 224-235.	4.3	7

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55	Analysis of harmonics in switching transients of an integrated steel plant — A case study. , 2012, , .		0
56	Oxidative Interaction between OxyHb and ATP: A Spectroscopic Study. Journal of Physical Chemistry B, 2012, 116, 6150-6157.	2.6	10
57	Studies on the impact of capacitor bank switching on grid connected transformers. International Journal of Electrical Power and Energy Systems, 2012, 43, 126-130.	5.5	6
58	Voltage stability assessment in power network using self organizing feature map and radial basis function. Computers and Electrical Engineering, 2012, 38, 819-826.	4.8	21
59	Classification of power system voltage stability conditions using Kohonen's self-organising feature map and learning vector quantisation. European Transactions on Electrical Power, 2012, 22, 412-420.	1.0	13
60	An evolutionary algorithm for consumer welfare optimisation of a contingent power network. , 2011, , .		0
61	A comparative study in improvement of voltage security in a multi-bus power system using STATCOM and SVC. , 2011, , .		1
62	F-cell levels are altered with erythrocyte density in sickle cell disease. Blood Cells, Molecules, and Diseases, 2011, 47, 117-119.	1.4	4
63	Elevated levels of redox regulators, membrane-bound globin chains, and cytoskeletal protein fragments in hereditary spherocytosis erythrocyte proteome. European Journal of Haematology, 2011, 87, 259-266.	2.2	17
64	Resonant behavior of EHV transformer windings under system originated oscillatory transient over voltages. International Journal of Electrical Power and Energy Systems, 2011, 33, 1760-1766.	5.5	9
65	Faster heme loss from hemoglobin E than HbS, in acidic pH: Effect of aminophospholipids. Journal of Biosciences, 2011, 36, 809-816.	1.1	15
66	Differential expression of red cell proteins in hemoglobinopathy. Proteomics - Clinical Applications, 2011, 5, 98-108.	1.6	16
67	Generator Contribution Based Congestion Management using Multiobjective Genetic Algorithm. Telkomnika (Telecommunication Computing Electronics and Control), 2011, 9, 1.	0.8	17
68	Assessment of Voltage Stability Using Network Equivalent. Telkomnika (Telecommunication Computing) Tj ETQq0 0.0 rgBT /Qverlock 10		
69	Structure and conformational studies on dityrosine formation in the DNA binding domain of RFX5. Biophysical Chemistry, 2010, 149, 92-101.	2.8	6
70	Eryptosis in hereditary spherocytosis and thalassemia: role of glycoconjugates. Glycoconjugate Journal, 2010, 27, 717-722.	2.7	30
71	DNA binding domain of RFX5: Interactions with X-box DNA and RFXANK. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 2016-2024.	2.3	8
72	Differential regulation of redox proteins and chaperones in HbE ² thalassemia erythrocyte proteome. Proteomics - Clinical Applications, 2010, 4, 480-488.	1.6	39

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73	Erythrocyte membrane defects and asymmetry in paroxysmal nocturnal hemoglobinuria and myelodysplastic syndrome. <i>Hematology</i> , 2010, 15, 236-239.	1.5	18
74	Organization and dynamics of tryptophan residues in erythroid spectrin: Novel structural features of denatured spectrin revealed by the wavelength-selective fluorescence approach. <i>Protein Science</i> , 2009, 12, 2389-2403.	7.6	54
75	A Study on the Impact of Low-Amplitude Oscillatory Switching Transients on Grid Connected EHV Transformer Windings in a Longitudinal Power Supply System. <i>IEEE Transactions on Power Delivery</i> , 2009, 24, 679-686.	4.3	20
76	A Fluorescence Quenching Method to Study Interactions of Hemoglobin Derivatives with Erythroid Spectrin. <i>Reviews in Fluorescence</i> , 2009, , 363-377.	0.5	3
77	Loss of phospholipid membrane asymmetry and sialylated glycoconjugates from erythrocyte surface in haemoglobin E β^2 -thalassaemia. <i>British Journal of Haematology</i> , 2008, 141, 92-99.	2.5	26
78	Porous red cell ultrastructure and loss of membrane asymmetry in a novel case of hemolytic anemia. <i>European Journal of Haematology</i> , 2008, 81, 399-402.	2.2	13
79	Membrane interactions of hemoglobin variants, HbA, HbE, HbF and globin subunits of HbA: Effects of aminophospholipids and cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1-9.	2.6	13
80	Oxidative crosslinking, spectrin and membrane interactions of hemoglobin mixtures in HbE β^2 -thalassemia. <i>Hematology</i> , 2008, 13, 361-368.	1.5	9
81	Hemoglobin depletion from red blood cell cytosol reveals new proteins in 2-D gel-based proteomics study. <i>Proteomics - Clinical Applications</i> , 2007, 1, 561-564.	1.6	51
82	Spectrin interactions with globin chains in the presence of phosphate metabolites and hydrogen peroxide: implications for thalassaemia. <i>Journal of Biosciences</i> , 2007, 32, 1147-1151.	1.1	11
83	Specificity of Prodan for the Self-associating Domain of Spectrin: A Molecular Docking Study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2006, 24, 269-276.	3.5	3
84	Red cell morphology in leukemia, hypoplastic anemia and myelodysplastic syndrome. <i>Pathophysiology</i> , 2006, 13, 217-225.	2.2	17
85	Enhanced oxidative cross-linking of hemoglobin E with spectrin and loss of erythrocyte membrane asymmetry in hemoglobin E β^2 -thalassemia. <i>Blood Cells, Molecules, and Diseases</i> , 2006, 37, 77-81.	1.4	36
86	Spectrin Organization and Dynamics: New Insights. <i>Bioscience Reports</i> , 2006, 26, 369-386.	2.4	34
87	Effect of ionic strength on the organization and dynamics of tryptophan residues in erythroid spectrin: A fluorescence approach. <i>Biopolymers</i> , 2005, 77, 325-334.	2.4	22
88	Conformational Study of Spectrin in Presence of Submolar Concentrations of Denaturants. <i>Journal of Fluorescence</i> , 2005, 15, 61-70.	2.5	11
89	Chaperone Activity and Prodan Binding at the Self-associating Domain of Erythroid Spectrin. <i>Journal of Biological Chemistry</i> , 2004, 279, 55080-55088.	3.4	43
90	Effect of the glycosphingolipid, GM1 on localization of dibucaine in phospholipid vesicles: a fluorescence study. <i>Chemistry and Physics of Lipids</i> , 2004, 130, 175-187.	3.2	6

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91	Membrane interaction of erythroid spectrin: Surface-density-dependent high-affinity binding to phosphatidylethanolamine. <i>Molecular Membrane Biology</i> , 2004, 21, 93-100.	2.0	41
92	Crystal Structures of HbA2 and HbE and Modeling of Hemoglobin β : Interpretation of the Thermal Stability and the Antisickling Effect of HbA2 and Identification of the Ferrocyanide Binding Site in Hb β . <i>Biochemistry</i> , 2004, 43, 12477-12488.	2.5	46
93	Photophysical Study of Local Anesthetics in Reverse Micelles and Water-Ethanol Mixtures. <i>Journal of Fluorescence</i> , 2003, 13, 307-314.	2.5	6
94	Erythroid spectrin in micellar detergents. <i>Cytoskeleton</i> , 2003, 54, 16-28.	4.4	26
95	Crystallization and preliminary X-ray structural studies of hemoglobin A2 and hemoglobin E, isolated from the blood samples of β^2 -thalassemic patients. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 619-623.	2.1	13
96	Interaction of erythroid spectrin with hemoglobin variants: implications in β^2 -thalassemia. <i>Blood Cells, Molecules, and Diseases</i> , 2003, 30, 248-253.	1.4	26
97	The tertiary amine local anesthetic dibucaine binds to the membrane skeletal protein spectrin. <i>FEBS Letters</i> , 2002, 532, 396-400.	2.8	18
98	Binding of a Denatured Heme Protein and ATP to Erythroid Spectrin. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 1189-1193.	2.1	29
99	Effect of cholesterol on interaction of dibucaine with phospholipid vesicles: a fluorescence study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1511, 146-155.	2.6	7
100	Title is missing!. <i>Journal of Fluorescence</i> , 2000, 10, 1-6.	2.5	42
101	Structural changes of horseradish peroxidase in presence of low concentrations of urea. <i>FEBS Journal</i> , 1999, 259, 269-274.	0.2	27
102	Interaction of the DNA-binding antitumor antibiotics, chromomycin and mithramycin with erythroid spectrin. <i>FEBS Journal</i> , 1999, 260, 619.	0.2	34
103	Fluorescence of Spectrin-Bound Prodan. <i>Biochemical and Biophysical Research Communications</i> , 1996, 226, 495-497.	2.1	34
104	Structural Alterations of Horseradish Peroxidase in the Presence of low Concentrations of Guanidinium Chloride. <i>FEBS Journal</i> , 1996, 241, 462-467.	0.2	20
105	Complex carbohydrate-lectin interaction at the interface: a model for cellular adhesion. I. Effect of vesicle size on the kinetics of aggregation between a fatty acid conjugate of lectin and a liposomal asialoganglioside. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1024, 103-110.	2.6	11