

Anil Kumar Dasanna

List of Publications by Year in descending order

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25
papers

299
citations

933447

10
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docs citations

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times ranked

308
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential time-dependent volumetric and surface area changes and delayed induction of new permeation pathways in <i>P. falciparum</i> -infected hemoglobinopathic erythrocytes. <i>Cellular Microbiology</i> , 2017, 19, e12650.	2.1	38
2	Modeling cytoadhesion of <i>Plasmodium falciparum</i> -infected erythrocytes and leukocytes—common principles and distinctive features. <i>FEBS Letters</i> , 2016, 590, 1955-1971.	2.8	33
3	The sickle cell trait affects contact dynamics and endothelial cell activation in <i>Plasmodium falciparum</i> -infected erythrocytes. <i>Communications Biology</i> , 2018, 1, 211.	4.4	23
4	Rolling Adhesion of Schizont Stage Malaria-Infected Red Blood Cells in Shear Flow. <i>Biophysical Journal</i> , 2017, 112, 1908-1919.	0.5	22
5	Importance of Erythrocyte Deformability for the Alignment of Malaria Parasite upon Invasion. <i>Biophysical Journal</i> , 2019, 117, 1202-1214.	0.5	21
6	The Erythrocyte Sedimentation Rate and Its Relation to Cell Shape and Rigidity of Red Blood Cells from Chorea-Acanthocytosis Patients in an Off-Label Treatment with Dasatinib. <i>Biomolecules</i> , 2021, 11, 727.	4.0	21
7	Slow closure of denaturation bubbles in DNA: Twist matters. <i>Physical Review E</i> , 2013, 87, 052703.	2.1	18
8	Acanthocyte Sedimentation Rate as a Diagnostic Biomarker for Neuroacanthocytosis Syndromes: Experimental Evidence and Physical Justification. <i>Cells</i> , 2021, 10, 788.	4.1	18
9	Multifractal analysis of HIV-1 genomes. <i>Molecular Phylogenetics and Evolution</i> , 2012, 62, 756-763.	2.7	15
10	Strand diffusion-limited closure of denaturation bubbles in DNA. <i>Europhysics Letters</i> , 2012, 98, 38002.	2.0	13
11	Erythrocyte Sedimentation: Collapse of a High-Volume-Fraction Soft-Particle Gel. <i>Physical Review Letters</i> , 2022, 128, 088101.	7.8	12
12	Importance of Viscosity Contrast for the Motion of Erythrocytes in Microcapillaries. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	11
13	Erythrocyte sedimentation: Effect of aggregation energy on gel structure during collapse. <i>Physical Review E</i> , 2022, 105, 024610.	2.1	11
14	Functionalized supported membranes for quantifying adhesion of <i>P. falciparum</i> -infected erythrocytes. <i>Biophysical Journal</i> , 2021, 120, 3315-3328.	0.5	9
15	State diagram for wall adhesion of red blood cells in shear flow: from crawling to flipping. <i>Soft Matter</i> , 2019, 15, 5511-5520.	2.7	8
16	Stochastic bond dynamics facilitates alignment of malaria parasite at erythrocyte membrane upon invasion. <i>ELife</i> , 2020, 9, .	6.0	7
17	Adhesion-based sorting of blood cells: an adhesive dynamics simulation study. <i>Soft Matter</i> , 2018, 14, 9061-9070.	2.7	6
18	Effect of malaria parasite shape on its alignment at erythrocyte membrane. <i>ELife</i> , 2021, 10, .	6.0	3

#	ARTICLE	IF	CITATIONS
19	Stability of heterogeneous parallel-bond adhesion clusters under load. <i>Physical Review Research</i> , 2020, 2, .	3.6	3
20	Multiscale Modeling of Malaria-Infected Red Blood Cells. , 2018, , 1-24.		2
21	Rolling Adhesion of Malaria-Infected Red Blood Cells. <i>Biophysical Journal</i> , 2017, 112, 126a.	0.5	1
22	Multiscale Modeling of Malaria-Infected Red Blood Cells. , 2020, , 2625-2648.		1
23	The Role of Cell Adhesion in the Malaria Life Cycle: From Gliding Sporozoites to Rolling Adhesion of Infected Red Blood Cells. <i>Biophysical Journal</i> , 2017, 112, 330a.	0.5	0
24	Towards Simulating Large-Scale Self-Assembly of Proteins under Flow. <i>Biophysical Journal</i> , 2017, 112, 592a-593a.	0.5	0
25	Flow-Induced Self-Assembly of Spider Silk from Multi-Scale Simulations. <i>Biophysical Journal</i> , 2020, 118, 479a.	0.5	0