

Kabir Hassan Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,241
citations

535685

17
h-index

536525

29
g-index

46
all docs

46
docs citations

46
times ranked

1799
citing authors

#	ARTICLE	IF	CITATIONS
1	Gulf Cooperation Council Clinical Trials in the Pursuit of Medications for COVID-19. <i>Studies in Health Technology and Informatics</i> , 2022, 289, 9-13.	0.2	1
2	Competition for shared downstream signaling molecules establishes indirect negative feedback between EGFR and EphA2. <i>Biophysical Journal</i> , 2022, 121, 1897-1908.	0.2	3
3	Understanding the Mechanism of Dysglycemia in a Fanconi-Bickel Syndrome Patient. <i>Frontiers in Endocrinology</i> , 2022, 13, .	1.5	3
4	Phosphodiesterase 5 (PDE5): Structure-function regulation and therapeutic applications of inhibitors. <i>Biomedicine and Pharmacotherapy</i> , 2021, 134, 111128.	2.5	59
5	Intracellular Ionic Strength Sensing Using NanoLuc. <i>International Journal of Molecular Sciences</i> , 2021, 22, 677.	1.8	25
6	Probing the effect of clustering on EphA2 receptor signaling efficiency by subcellular control of ligand-receptor mobility. <i>ELife</i> , 2021, 10, .	2.8	22
7	Role of Actin Cytoskeleton in E-cadherin-Based Cell-Cell Adhesion Assembly and Maintenance. <i>Journal of the Indian Institute of Science</i> , 2021, 101, 51-62.	0.9	6
8	Molecular Mobility-Mediated Regulation of E-Cadherin Adhesion. <i>Trends in Biochemical Sciences</i> , 2020, 45, 163-173.	3.7	34
9	A molecular assembly phase transition and kinetic proofreading modulate Ras activation by SOS. <i>Science</i> , 2019, 363, 1098-1103.	6.0	268
10	Hybrid Live Cell-Supported Membrane Interfaces for Signaling Studies. <i>Annual Review of Biophysics</i> , 2019, 48, 537-562.	4.5	27
11	Total Reconstitution of Receptor-Mediated Ras Activation by SOS in Vitro Reveals Kinetic and Conformational Layers of Regulation in MAPK Signaling. <i>Biophysical Journal</i> , 2019, 116, 531a-532a.	0.2	0
12	Multicomponent Supported Membrane Microarray for Monitoring Spatially Resolved Cellular Signaling Reactions. <i>Advanced Biology</i> , 2018, 2, 1800015.	3.0	14
13	Interfacial Forces Dictate the Pathway of Phospholipid Vesicle Adsorption onto Silicon Dioxide Surfaces. <i>Langmuir</i> , 2018, 34, 1775-1782.	1.6	49
14	Regulation of β -catenin conformation at cadherin adhesions. <i>Journal of Biomechanical Science and Engineering</i> , 2018, 13, 17-00699-17-00699.	0.1	2
15	Spatial and Mechanical Aspects of Signal Transduction in the Cell Membrane. , 2018, , 537-560.		1
16	Membrane Reconstitution of Monoamine Oxidase Enzymes on Supported Lipid Bilayers. <i>Langmuir</i> , 2018, 34, 10764-10773.	1.6	4
17	Fabrication of Multicomponent, Spatially Segregated DNA and Protein-Functionalized Supported Membrane Microarray. <i>Langmuir</i> , 2018, 34, 9781-9788.	1.6	10
18	Spatially modulated ephrinA1:EphA2 signaling increases local contractility and global focal adhesion dynamics to promote cell motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5696-E5705.	3.3	40

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19	Early events in the assembly of E-cadherin adhesions. <i>Experimental Cell Research</i> , 2017, 358, 14-19.	1.2	29
20	Receptor Nucleation and Clustering in Cellular Adhesion and Mechanical Signal Transduction. <i>Biophysical Journal</i> , 2017, 112, 29a.	0.2	0
21	Allosteric regulation of proteins. <i>Resonance</i> , 2017, 22, 37-50.	0.2	7
22	Cell Adhesion: Dynamic Cellular Interactions with Extracellular Matrix Triggered by Biomechanical Tuning of Low-Rigidity, Supported Lipid Membranes (<i>Adv. Healthcare Mater.</i> 10/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	3.9	1
23	Dynamic Cellular Interactions with Extracellular Matrix Triggered by Biomechanical Tuning of Low-Rigidity, Supported Lipid Membranes. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700243.	3.9	21
24	Sustained β -catenin Activation at E-cadherin Junctions in the Absence of Mechanical Force. <i>Biophysical Journal</i> , 2016, 111, 1044-1052.	0.2	37
25	A Microbead Supported Membrane-Based Fluorescence Imaging Assay Reveals Intermembrane Receptor-Ligand Complex Dimension with Nanometer Precision. <i>Langmuir</i> , 2016, 32, 6775-6780.	1.6	14
26	E-cadherin junction formation involves an active kinetic nucleation process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10932-10937.	3.3	84
27	Integrin-beta3 clusters recruit clathrin-mediated endocytic machinery in the absence of traction force. <i>Nature Communications</i> , 2015, 6, 8672.	5.8	75
28	Cyclic nucleotide binding and structural changes in the isolated GAF domain of <i>Anabaena</i> adenylyl cyclase, <i>CyaB2</i> . <i>PeerJ</i> , 2015, 3, e882.	0.9	26
29	Probing EphA2 Signalling in the Context of Integrin Adhesion using a Hybrid of Fluid Lipid Bilayers and Immobilized RGD Patterns. <i>Biophysical Journal</i> , 2014, 106, 520a.	0.2	0
30	Reconstitution of the ENVZ/OMPR Bacterial Signaling System using Supported Lipid Bilayers. <i>Biophysical Journal</i> , 2014, 106, 594a.	0.2	0
31	Familial Diarrhea Syndrome Caused by an Activating <i>GUCY2C</i> Mutation. <i>New England Journal of Medicine</i> , 2012, 366, 1586-1595.	13.9	175
32	Distinct Allostery Induced in the Cyclic GMP-binding, Cyclic GMP-specific Phosphodiesterase (PDE5) by Cyclic GMP, Sildenafil, and Metal Ions. <i>Journal of Biological Chemistry</i> , 2011, 286, 8545-8554.	1.6	30
33	The Linker Region in Receptor Guanylyl Cyclases Is a Key Regulatory Module. <i>Journal of Biological Chemistry</i> , 2009, 284, 27135-27145.	1.6	46
34	The Evolution of Guanylyl Cyclases as Multidomain Proteins: Conserved Features of Kinase-Cyclase Domain Fusions. <i>Journal of Molecular Evolution</i> , 2009, 68, 587-602.	0.8	37
35	The GAF Domain of the cGMP-Binding, cGMP-Specific Phosphodiesterase (PDE5) Is a Sensor and a Sink for cGMP. <i>Biochemistry</i> , 2008, 47, 3534-3543.	1.2	49
36	Buffer NaCl concentration regulates Renilla luciferase activity and ligand-induced conformational changes in the BRET-based PDE5 sensor. <i>Matters</i> , 0, , .	1.0	9