Sivaraj Sivaramakrishnan

List of Publications by Year
in descending order

66 papers	2,513 citations	201674 27 h-index	214800 47 g-index
72 all docs	72 docs citations	72 times ranked	3442 citing authors

#	Article	IF	Citations
1	Multimodal regulation of myosin VI ensemble transport by cargo adaptor protein GIPC. Journal of Biological Chemistry, 2022, 298, 101688.	3.4	7
2	Dissecting cardiac myosin-binding protein C interactions on a synthetic Î²-cardiac myosin DNA nanotube thick filament. Biophysical Journal, 2022, 121, 257a.	0.5	0
3	Cargo-motor interaction kinetics regulate myosin VI based transport. Biophysical Journal, 2022, 121, 402a.	0.5	0
4	Kinetic model of GPCR-G protein interactions reveals allokairic modulation of signaling. Nature Communications, 2022, 13, 1202.	12.8	8
5	Nanosurfer assay dissects Î²-cardiac myosin and cardiac myosin-binding protein C interactions. Biophysical Journal, 2022, 121, 2449-2460.	0.5	6
6	Effect of Ligands and Transducers on the Neurotensin Receptor 1 Conformational Ensemble. Journal of the American Chemical Society, 2022, 144, 10241-10250.	13.7	13
7	ER/K-linkâ€"Leveraging a native protein linker to probe dynamic cellular interactions. Methods in Enzymology, 2021, 647, 173-208.	1.0	6
8	Dynamic multimerization of Dab2â€"Myosin VI complexes regulates cargo processivity while minimizing cortical actin reorganization. Journal of Biological Chemistry, 2021, 296, 100232.	3.4	11
9	Kinase inhibitors allosterically disrupt a regulatory interaction to enhance PKCÎ± membrane translocation. Journal of Biological Chemistry, 2021, 296, 100339.	3.4	2
10	KIF13A motors are regulated by Rab22A to function as weak dimers inside the cell. Science Advances, 2021, 7, .	10.3	11
11	Î²2-adrenoceptor ligand efficacy is tuned by a two-stage interaction with the GÎ±s C terminus. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
12	Optical Mapping of cAMP Signaling at the Nanometer Scale. Cell, 2020, 182, 1519-1530.e17.	28.9	125
13	Allosteric modulation of adenosine A1 and cannabinoid 1 receptor signaling by Gâ€peptides. Pharmacology Research and Perspectives, 2020, 8, e00673.	2.4	2
14	Minute-scale persistence of a GPCR conformation state triggered by non-cognate G protein interactions primes signaling. Nature Communications, 2019, 10, 4836.	12.8	18
15	Stiffness of Cargoâ€"Motor Linkage Tunes Myosin VI Motility and Response to Load. Biochemistry, 2019, 58, 4721-4725.	2.5	5
16	Conformational plasticity of the intracellular cavity of GPCRâ^'G-protein complexes leads to G-protein promiscuity and selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11956-11965.	7.1	66
17	Bitopic Inhibition of ATP and Substrate Binding in Ser/Thr Kinases through a Conserved Allosteric Mechanism. Biochemistry, 2018, 57, 6387-6390.	2.5	11
18	Engineering Synthetic Myosin Filaments Using DNA Nanotubes. Methods in Molecular Biology, 2018, 1805, 93-101.	0.9	1

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19	Engaging myosin VI tunes motility, morphology and identity in endocytosis. Traffic, 2018, 19, 710-722.	2.7	1
20	Conserved saltâ€bridge competition triggered by phosphorylation regulates the protein interactome. FASEB Journal, 2018, 32, 533.100.	0.5	0
21	Molecular GPS: Receptor and Gâ€protein dynamics that drive selectivity in GPCRs. FASEB Journal, 2018, 32, 557.14.	0.5	0
22	The GCaMP-R Family of Genetically Encoded Ratiometric Calcium Indicators. ACS Chemical Biology, 2017, 12, 1066-1074.	3.4	56
23	The Role of Regulatory Domains in Maintaining Autoinhibition in the Multidomain Kinase PKCÎ±. Journal of Biological Chemistry, 2017, 292, 2873-2880.	3.4	14
24	Cargo-Mediated Regulation of Collective Myosin VI Motility. Biophysical Journal, 2017, 112, 238a.	0.5	0
25	A Phospho-Induced Theft of a Salt Bridge in RKIP Links Map Kinase and G Protein-Mediated Signaling. Biophysical Journal, 2017, 112, 63a-64a.	0.5	0
26	Priming GPCR signaling through the synergistic effect of two G proteins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3756-3761.	7.1	35
27	The DRY motif and the four corners of the cubic ternary complex model. Cellular Signalling, 2017, 35, 16-23.	3.6	14
28	Distinct structural mechanisms determine substrate affinity and kinase activity of protein kinase CÎ±. Journal of Biological Chemistry, 2017, 292, 16300-16309.	3.4	15
29	ER/K linked GPCR-G protein fusions systematically modulate second messenger response in cells. Scientific Reports, 2017, 7, 7749.	3.3	22
30	Conserved salt-bridge competition triggered by phosphorylation regulates the protein interactome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13453-13458.	7.1	35
31	Actin turnover maintains actin filament homeostasis during cytokinetic ring contraction. Journal of Cell Biology, 2017, 216, 2657-2667.	5.2	39
32	Engineering Circular Gliding of Actin Filaments Along Myosin-Patterned DNA Nanotube Rings To Study Long-Term Actinâ€"Myosin Behaviors. ACS Nano, 2016, 10, 8281-8288.	14.6	19
33	Patterning protein complexes on DNA nanostructures using a GFP nanobody. Protein Science, 2016, 25, 2089-2094.	7.6	15
34	Substrate Affinity Differentially Influences Protein Kinase C Regulation and Inhibitor Potency. Journal of Biological Chemistry, 2016, 291, 21963-21970.	3.4	11
35	G Protein-selective GPCR Conformations Measured Using FRET Sensors in a Live Cell Suspension Fluorometer Assay. Journal of Visualized Experiments, 2016, , .	0.3	4
36	Correlation between Activity and Domain Complementation in Adenylyl Cyclase Demonstrated with a Novel Fluorescence Resonance Energy Transfer Sensor. Molecular Pharmacology, 2016, 89, 407-412.	2.3	6

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37	Structural Elements in the GÎ±s and GÎ±q C Termini That Mediate Selective G Protein-coupled Receptor (GPCR) Signaling. Journal of Biological Chemistry, 2016, 291, 17929-17940.	3.4	38
38	Dynamic Coupling and Allosteric Networks in the Î± Subunit of Heterotrimeric G Proteins. Journal of Biological Chemistry, 2016, 291, 4742-4753.	3.4	66
39	Calcium Stimulates Self-Assembly of Protein Kinase C Î± In Vitro. PLoS ONE, 2016, 11, e0162331.	2.5	9
40	Cellular chirality arising from the self-organization of the actin cytoskeleton. Nature Cell Biology, 2015, 17, 445-457.	10.3	350
41	The C2 Domain and Altered ATP-Binding Loop Phosphorylation at Ser³⁵⁹ Mediate the Redox-Dependent Increase in Protein Kinase C-Î´ Activity. Molecular and Cellular Biology, 2015, 35, 1727-1740.	2.3	18
42	Using Protein Dimers to Maximize the Protein Hybridization Efficiency with Multisite DNA Origami Scaffolds. PLoS ONE, 2015, 10, e0137125.	2.5	9
43	Tuning myosin-driven sorting on cellular actin networks. ELife, 2015, 4, .	6.0	19
44	Conserved Modular Domains Team up to Latch-open Active Protein Kinase CÎ±. Journal of Biological Chemistry, 2014, 289, 17812-17829.	3.4	22
45	A method for multiprotein assembly in cells reveals independent action of kinesins in complex. Journal of Cell Biology, 2014, 207, 393-406.	5.2	60
46	Optofluidic lasers with a single molecular layer of gain. Lab on A Chip, 2014, 14, 4590-4595.	6.0	70
47	Myosin lever arm directs collective motion on cellular actin network. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4091-4096.	7.1	43
48	Natural Killer Cells Eradicate Galectin-1â€"Deficient Glioma in the Absence of Adaptive Immunity. Cancer Research, 2014, 74, 5079-5090.	0.9	62
49	Harnessing the Unique Structural Properties of Isolated Î±-Helices. Journal of Biological Chemistry, 2014, 289, 25460-25467.	3.4	59
50	Highly sensitive fluorescent protein FRET detection using optofluidic lasers. Lab on A Chip, 2013, 13, 2679.	6.0	98
51	Detection of G Protein-selective G Protein-coupled Receptor (GPCR) Conformations in Live Cells. Journal of Biological Chemistry, 2013, 288, 17167-17178.	3.4	60
52	Visualizing and Manipulating Focal Adhesion Kinase Regulation in Live Cells. Journal of Biological Chemistry, 2013, 288, 8875-8886.	3.4	34
53	Analyses of Conformational States of the Transporter Associated with Antigen Processing (TAP) Protein in a Native Cellular Membrane Environment. Journal of Biological Chemistry, 2013, 288, 37039-37047.	3.4	18
54	Tracking GPCR promiscuity at the source: How receptor conformation is translated to differential function. FASEB Journal, 2013, 27, 559.5.	0.5	0

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55	Cell-Intrinsic Functional Effects of the Î±-Cardiac Myosin Arg-403-Gln Mutation in Familial Hypertrophic Cardiomyopathy. Biophysical Journal, 2012, 102, 2782-2790.	0.5	18
56	Principles of Unconventional Myosin Function and Targeting. Annual Review of Cell and Developmental Biology, 2011, 27, 133-155.	9.4	147
57	Systematic control of protein interaction using a modular ER/K Î±-helix linker. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20467-20472.	7.1	67
58	Helicity of short Eâ€R/K peptides. Protein Science, 2010, 19, 2001-2005.	7.6	32
59	Myosin VI: an innovative motor that challenged the swinging lever arm hypothesis. Nature Reviews Molecular Cell Biology, 2010, 11, 128-137.	37.0	100
60	Single-Molecule Dual-Beam Optical Trap Analysis of Protein Structure and Function. Methods in Enzymology, 2010, 475, 321-375.	1.0	32
61	Coupled myosin VI motors facilitate unidirectional movement on an F-actin network. Journal of Cell Biology, 2009, 187, 53-60.	5.2	52
62	Insights into Human Î²-Cardiac Myosin Function from Single Molecule and Single Cell Studies. Journal of Cardiovascular Translational Research, 2009, 2, 426-440.	2.4	24
63	Micromechanical properties of keratin intermediate filament networks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 889-894.	7.1	93
64	Long single Î±-helical tail domains bridge the gap between structure and function of myosin VI. Nature Structural and Molecular Biology, 2008, 15, 591-597.	8.2	109
65	Dynamic charge interactions create surprising rigidity in the ER/K Î±-helical protein motif. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13356-13361.	7.1	94
66	Mathematical Modeling of Iron and Steel Making Processes. Comparison of Four Methods to Evaluate Fluid Velocities in a Continuous Slab Casting Mold.. ISIJ International, 2001, 41, 1262-1271.	1.4	106