

Dmitri S Kudryashov

List of Publications by Year in descending order

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53
papers

1,988
citations

236925

25
h-index

265206

42
g-index

55
all docs

55
docs citations

55
times ranked

2537
citing authors

#	ARTICLE	IF	CITATIONS
1	Remodeling of actin filaments by ADF/cofilin proteins. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20568-20572.	7.1	194
2	Trim32 is a Ubiquitin Ligase Mutated in Limb Girdle Muscular Dystrophy Type 2H that Binds to Skeletal Muscle Myosin and Ubiquitinates Actin. Journal of Molecular Biology, 2005, 354, 413-424.	4.2	178
3	Opposing activities of IFITM proteins in SARS-CoV-2 infection. EMBO Journal, 2021, 40, e106501.	7.8	172
4	The Actin Cross-linking Domain of the Vibrio cholerae RTX Toxin Directly Catalyzes the Covalent Cross-linking of Actin. Journal of Biological Chemistry, 2006, 281, 32366-32374.	3.4	77
5	Actin-destabilizing factors disrupt filaments by means of a time reversal of polymerization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17664-17668.	7.1	72
6	Human Defensins Facilitate Local Unfolding of Thermodynamically Unstable Regions of Bacterial Protein Toxins. Immunity, 2014, 41, 709-721.	14.3	71
7	Connecting actin monomers by iso-peptide bond is a toxicity mechanism of the <i>Vibrio cholerae</i> MARTX toxin. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18537-18542.	7.1	68
8	Persistent nuclear actin filaments inhibit transcription by RNA polymerase II. Journal of Cell Science, 2016, 129, 3412-25.	2.0	60
9	The crystal structure of a cross-linked actin dimer suggests a detailed molecular interface in F-actin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13105-13110.	7.1	54
10	DeActs: genetically encoded tools for perturbing the actin cytoskeleton in single cells. Nature Methods, 2017, 14, 479-482.	19.0	49
11	Cofilin Induced Conformational Changes in F-actin Expose Subdomain 2 to Proteolysis. Journal of Molecular Biology, 2004, 342, 1559-1567.	4.2	48
12	Mapping of Drebrin Binding Site on F-Actin. Journal of Molecular Biology, 2010, 398, 542-554.	4.2	48
13	ATP and ADP actin states. Biopolymers, 2013, 99, 245-256.	2.4	46
14	Calcium binding is essential for plastin 3 function in Smn-deficient motoneurons. Human Molecular Genetics, 2014, 23, 1990-2004.	2.9	46
15	ACD toxin produced actin oligomers poison formin-controlled actin polymerization. Science, 2015, 349, 535-539.	12.6	46
16	Cryo-EM reveals different coronin binding modes for ADP and ADP-BeFx actin filaments. Nature Structural and Molecular Biology, 2014, 21, 1075-1081.	8.2	45
17	F-Actin Structure Destabilization and DNase I Binding Loop Fluctuations. Journal of Molecular Biology, 2010, 395, 544-557.	4.2	42
18	Structural States and Dynamics of the D-Loop in Actin. Biophysical Journal, 2012, 103, 930-939.	0.5	42

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19	Characterization of the Enzymatic Activity of the Actin Cross-linking Domain from the <i>Vibrio cholerae</i> MARTX Toxin. <i>Journal of Biological Chemistry</i> , 2008, 283, 445-452.	3.4	38
20	Cofilin Cross-bridges Adjacent Actin Protomers and Replaces part of the Longitudinal F-actin Interface. <i>Journal of Molecular Biology</i> , 2006, 358, 785-797.	4.2	37
21	The Roles of Actin-Binding Domains 1 and 2 in the Calcium-Dependent Regulation of Actin Filament Bundling by Human Plastins. <i>Journal of Molecular Biology</i> , 2017, 429, 2490-2508.	4.2	37
22	Unique sequence of a high molecular weight myosin light chain kinase is involved in interaction with actin cytoskeleton. <i>FEBS Letters</i> , 1999, 463, 67-71.	2.8	35
23	Solution Properties of Tetramethylrhodamine-Modified G-Actin. <i>Biophysical Journal</i> , 2003, 85, 2466-2475.	0.5	33
24	Myosin light chain kinase (210 kDa) is a potential cytoskeleton integrator through its unique N-terminal domain. <i>Experimental Cell Research</i> , 2004, 298, 407-417.	2.6	32
25	Osteogenesis imperfecta mutations in plastin 3 lead to impaired calcium regulation of actin bundling. <i>Bone Research</i> , 2020, 8, 21.	11.4	32
26	Formation and Destabilization of Actin Filaments with Tetramethylrhodamine-Modified Actin. <i>Biophysical Journal</i> , 2004, 87, 1136-1145.	0.5	31
27	The Rho-GEF Gef3 interacts with the septin complex and activates the GTPase Rho4 during fission yeast cytokinesis. <i>Molecular Biology of the Cell</i> , 2015, 26, 238-255.	2.1	29
28	A Nucleotide State-sensing Region on Actin. <i>Journal of Biological Chemistry</i> , 2010, 285, 25591-25601.	3.4	28
29	Thermodynamic properties of the effector domains of <scp>MARTX</scp> toxins suggest their unfolding for translocation across the host membrane. <i>Molecular Microbiology</i> , 2014, 92, 1056-1071.	2.5	27
30	Oligomerization Affects the Ability of Human Cyclase-Associated Proteins 1 and 2 to Promote Actin Severing by Cofilins. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5647.	4.1	27
31	Targeting and inactivation of bacterial toxins by human defensins. <i>Biological Chemistry</i> , 2017, 398, 1069-1085.	2.5	22
32	Phosphorylation of kinase-related protein (telokin) in tonic and phasic smooth muscles. <i>Journal of Muscle Research and Cell Motility</i> , 2001, 22, 425-437.	2.0	20
33	Actin Cross-Linking Toxin Is a Universal Inhibitor of Tandem-Organized and Oligomeric G-Actin Binding Proteins. <i>Current Biology</i> , 2018, 28, 1536-1547.e9.	3.9	20
34	Structural Analysis of Human Cofilin 2/Filamentous Actin Assemblies: Atomic-Resolution Insights from Magic Angle Spinning NMR Spectroscopy. <i>Scientific Reports</i> , 2017, 7, 44506.	3.3	19
35	Inhibition of SARS-CoV-2 Infection by Human Defensin HNP1 and Retrocyclin RC-101. <i>Journal of Molecular Biology</i> , 2022, 434, 167225.	4.2	19
36	Multiple crystal structures of actin dimers and their implications for interactions in the actin filament. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 454-465.	2.5	18

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37	Smooth muscle myosin filament assembly under control of a kinase-related protein (KRP) and caldesmon. <i>Journal of Muscle Research and Cell Motility</i> , 2002, 23, 341-351.	2.0	14
38	Glutamyl Phosphate Is an Activated Intermediate in Actin Crosslinking by Actin Crosslinking Domain (ACD) Toxin. <i>PLoS ONE</i> , 2012, 7, e45721.	2.5	14
39	Retrocyclins neutralize bacterial toxins by potentiating their unfolding. <i>Biochemical Journal</i> , 2015, 467, 311-320.	3.7	14
40	Intein-mediated cytoplasmic reconstitution of a split toxin enables selective cell ablation in mixed populations and tumor xenografts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22090-22100.	7.1	11
41	Allosteric regulation controls actin-bundling properties of human plastins. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 519-528.	8.2	11
42	Pathogenic Mechanisms of Actin Cross-Linking Toxins: Peeling Away the Layers. <i>Current Topics in Microbiology and Immunology</i> , 2016, 399, 87-112.	1.1	10
43	Thermodynamic instability of viral proteins is a pathogen-associated molecular pattern targeted by human defensins. <i>Scientific Reports</i> , 2016, 6, 32499.	3.3	10
44	Magic angle spinning NMR structure of human cofilin-2 assembled on actin filaments reveals isoform-specific conformation and binding mode. <i>Nature Communications</i> , 2022, 13, 2114.	12.8	9
45	Plastin 3 in X-Linked Osteoporosis: Imbalance of Ca ²⁺ -Dependent Regulation Is Equivalent to Protein Loss. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 635783.	3.7	7
46	Defensins versus pathogens: an unfolding story. <i>Oncotarget</i> , 2015, 6, 28533-28534.	1.8	7
47	Rounding Out the Understanding of ACD Toxicity with the Discovery of Cyclic Forms of Actin Oligomers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 718.	4.1	6
48	Phosphorylation regulates interaction of 210-kDa myosin light chain kinase N-terminal domain with actin cytoskeleton. <i>Biochemistry (Moscow)</i> , 2015, 80, 1288-1297.	1.5	4
49	Photorhabdus luminescens TccC3 Toxin Targets the Dynamic Population of F-Actin and Impairs Cell Cortex Integrity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7026.	4.1	4
50	Fast Magic Angle Sample Spinning NMR Yields a View of the F-actin - Cofilin Complex with Atomic Resolution. <i>Biophysical Journal</i> , 2011, 100, 300a.	0.5	0
51	Remodeling of Actin Filaments by Cofilin. <i>Biophysical Journal</i> , 2012, 102, 238a.	0.5	0
52	Nuclear Actin Dynamics Regulate Nuclear Organization and Transcription. <i>Biophysical Journal</i> , 2015, 108, 536a.	0.5	0
53	Investigations into the Structure and Intermolecular Interface of Human Cofilin-2 Assembled on Actin Filaments by Magic Angle Spinning NMR. <i>Biophysical Journal</i> , 2019, 116, 456a.	0.5	0