

# 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	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
2	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
3	Allosteric regulation controls actin-bundling properties of human plastins. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 519-528.	8.2	11
4	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
5	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
6	Opposing activities of IFITM proteins in SARS-CoV-2 infection. <i>EMBO Journal</i> , 2021, 40, e106501.	7.8	172
7	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
8	Plastin 3 in X-Linked Osteoporosis: Imbalance of Ca <sup>2+</sup> -Dependent Regulation Is Equivalent to Protein Loss. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 635783.	3.7	7
9	Osteogenesis imperfecta mutations in plastin 3 lead to impaired calcium regulation of actin bundling. <i>Bone Research</i> , 2020, 8, 21.	11.4	32
10	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
11	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
12	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
13	DeActs: genetically encoded tools for perturbing the actin cytoskeleton in single cells. <i>Nature Methods</i> , 2017, 14, 479-482.	19.0	49
14	Targeting and inactivation of bacterial toxins by human defensins. <i>Biological Chemistry</i> , 2017, 398, 1069-1085.	2.5	22
15	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
16	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
17	Persistent nuclear actin filaments inhibit transcription by RNA polymerase II. <i>Journal of Cell Science</i> , 2016, 129, 3412-25.	2.0	60
18	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

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19	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
20	Nuclear Actin Dynamics Regulate Nuclear Organization and Transcription. <i>Biophysical Journal</i> , 2015, 108, 536a.	0.5	0
21	ACD toxin produced actin oligomers poison formin-controlled actin polymerization. <i>Science</i> , 2015, 349, 535-539.	12.6	46
22	Retrocyclins neutralize bacterial toxins by potentiating their unfolding. <i>Biochemical Journal</i> , 2015, 467, 311-320.	3.7	14
23	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
24	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
25	Defensins versus pathogens: an unfolding story. <i>Oncotarget</i> , 2015, 6, 28533-28534.	1.8	7
26	Thermodynamic properties of the effector domains of <sc>MARTX</sc> toxins suggest their unfolding for translocation across the host membrane. <i>Molecular Microbiology</i> , 2014, 92, 1056-1071.	2.5	27
27	Cryo-EM reveals different coronin binding modes for ADP and ADP-BeFx actin filaments. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 1075-1081.	8.2	45
28	Calcium binding is essential for plastin 3 function in Smn-deficient motoneurons. <i>Human Molecular Genetics</i> , 2014, 23, 1990-2004.	2.9	46
29	Human Defensins Facilitate Local Unfolding of Thermodynamically Unstable Regions of Bacterial Protein Toxins. <i>Immunity</i> , 2014, 41, 709-721.	14.3	71
30	ATP and ADP actin states. <i>Biopolymers</i> , 2013, 99, 245-256.	2.4	46
31	Remodeling of Actin Filaments by Cofilin. <i>Biophysical Journal</i> , 2012, 102, 238a.	0.5	0
32	Structural States and Dynamics of the D-Loop in Actin. <i>Biophysical Journal</i> , 2012, 103, 930-939.	0.5	42
33	Glutaryl Phosphate Is an Activated Intermediate in Actin Crosslinking by Actin Crosslinking Domain (ACD) Toxin. <i>PLoS ONE</i> , 2012, 7, e45721.	2.5	14
34	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
35	Remodeling of actin filaments by ADF/cofilin proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20568-20572.	7.1	194
36	A Nucleotide State-sensing Region on Actin. <i>Journal of Biological Chemistry</i> , 2010, 285, 25591-25601.	3.4	28

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37	F-Actin Structure Destabilization and DNase I Binding Loop Fluctuations. Journal of Molecular Biology, 2010, 395, 544-557.	4.2	42
38	Mapping of Drebrin Binding Site on F-Actin. Journal of Molecular Biology, 2010, 398, 542-554.	4.2	48
39	Multiple crystal structures of actin dimers and their implications for interactions in the actin filament. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 454-465.	2.5	18
40	Characterization of the Enzymatic Activity of the Actin Cross-linking Domain from the <i>Vibrio cholerae</i> MARTX Toxin. Journal of Biological Chemistry, 2008, 283, 445-452.	3.4	38
41	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
42	Cofilin Cross-bridges Adjacent Actin Protomers and Replaces part of the Longitudinal F-actin Interface. Journal of Molecular Biology, 2006, 358, 785-797.	4.2	37
43	The Actin Cross-linking Domain of the <i>Vibrio cholerae</i> RTX Toxin Directly Catalyzes the Covalent Cross-linking of Actin. Journal of Biological Chemistry, 2006, 281, 32366-32374.	3.4	77
44	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
45	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
46	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
47	Formation and Destabilization of Actin Filaments with Tetramethylrhodamine-Modified Actin. Biophysical Journal, 2004, 87, 1136-1145.	0.5	31
48	Myosin light chain kinase (210 kDa) is a potential cytoskeleton integrator through its unique N-terminal domain. Experimental Cell Research, 2004, 298, 407-417.	2.6	32
49	Cofilin Induced Conformational Changes in F-actin Expose Subdomain 2 to Proteolysis. Journal of Molecular Biology, 2004, 342, 1559-1567.	4.2	48
50	Solution Properties of Tetramethylrhodamine-Modified G-Actin. Biophysical Journal, 2003, 85, 2466-2475.	0.5	33
51	Smooth muscle myosin filament assembly under control of a kinase-related protein (KRP) and caldesmon. Journal of Muscle Research and Cell Motility, 2002, 23, 341-351.	2.0	14
52	Phosphorylation of kinase-related protein (telokin) in tonic and phasic smooth muscles. Journal of Muscle Research and Cell Motility, 2001, 22, 425-437.	2.0	20
53	Unique sequence of a high molecular weight myosin light chain kinase is involved in interaction with actin cytoskeleton. FEBS Letters, 1999, 463, 67-71.	2.8	35