

Emil Reisler

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76
papers

2,818
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33
h-index

51
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78
ext. papers

3,095
ext. citations

5
avg, IF

4.74
L-index

#	Paper	IF	Citations
76	Quantitative evaluation of the lengths of homobifunctional protein cross-linking reagents used as molecular rulers. <i>Protein Science</i> , 2001 , 10, 1293-304	6.3	177
75	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, 20568-72	11.5	158
74	Actin filament severing by cofilin. <i>Journal of Molecular Biology</i> , 2007 , 365, 1350-8	6.5	141
73	Spatial proximity of the two essential sulfhydryl groups of myosin. <i>Biochemistry</i> , 1974 , 13, 3837-40	3.2	103
72	Subtilisin-cleaved actin: polymerization and interaction with myosin subfragment 1. <i>Biochemistry</i> , 1989 , 28, 5889-95	3.2	95
71	ADF/cofilin use an intrinsic mode of F-actin instability to disrupt actin filaments. <i>Journal of Cell Biology</i> , 2003 , 163, 1057-66	7.3	93
70	Actin structure and function: what we still do not understand. <i>Journal of Biological Chemistry</i> , 2007 , 282, 36133-7	5.4	76
69	Fluorescence probing of yeast actin subdomain 3/4 hydrophobic loop 262-274. Actin-actin and actin-myosin interactions in actin filaments. <i>Journal of Biological Chemistry</i> , 1997 , 272, 16829-37	5.4	74
68	Cooperative effects of cofilin (ADF) on actin structure suggest allosteric mechanism of cofilin function. <i>Journal of Molecular Biology</i> , 2006 , 356, 325-34	6.5	72
67	Inhibition of myosin ATPase by beryllium fluoride. <i>Biochemistry</i> , 1992 , 31, 4787-93	3.2	69
66	Mutational analysis of the role of the N terminus of actin in actomyosin interactions. Comparison with other mutant actins and implications for the cross-bridge cycle. <i>Biochemistry</i> , 1996 , 35, 16557-65	3.2	66
65	F-actin dismantling through a redox-driven synergy between Mical and cofilin. <i>Nature Cell Biology</i> , 2016 , 18, 876-85	23.4	64
64	Structural effects of cofilin on longitudinal contacts in F-actin. <i>Journal of Molecular Biology</i> , 2002 , 323, 739-50	6.5	63
63	Connecting actin monomers by iso-peptide bond is a toxicity mechanism of the <i>Vibrio cholerae</i> MARTX toxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18537-42	11.5	57
62	Cross-linking constraints on F-actin structure. <i>Journal of Molecular Biology</i> , 2000 , 299, 421-9	6.5	55
61	Role of charged amino acid pairs in subdomain-1 of actin in interactions with myosin. <i>Biochemistry</i> , 1995 , 34, 2694-700	3.2	55
60	Structure and dynamics of the actin filament. <i>Biochemistry</i> , 2005 , 44, 3166-75	3.2	52

59	Cofilin (ADF) affects lateral contacts in F-actin. <i>Journal of Molecular Biology</i> , 2004 , 337, 93-104	6.5	52
58	Probing the structure of F-actin: cross-links constrain atomic models and modify actin dynamics. <i>Journal of Molecular Biology</i> , 2001 , 312, 95-106	6.5	51
57	Intrastrand cross-linked actin between Gln-41 and Cys-374. III. Inhibition of motion and force generation with myosin. <i>Biochemistry</i> , 1998 , 37, 17801-9	3.2	49
56	Intrastrand cross-linked actin between Gln-41 and Cys-374. I. Mapping of sites cross-linked in F-actin by N-(4-azido-2-nitrophenyl) putrescine. <i>Biochemistry</i> , 1998 , 37, 17784-92	3.2	48
55	Polymerization and in vitro motility properties of yeast actin: a comparison with rabbit skeletal alpha-actin. <i>Biochemistry</i> , 1996 , 35, 16566-72	3.2	47
54	Cofilin induced conformational changes in F-actin expose subdomain 2 to proteolysis. <i>Journal of Molecular Biology</i> , 2004 , 342, 1559-67	6.5	45
53	Coronin Enhances Actin Filament Severing by Recruiting Cofilin to Filament Sides and Altering F-Actin Conformation. <i>Journal of Molecular Biology</i> , 2015 , 427, 3137-47	6.5	43
52	Structural reorganization of proteins revealed by radiolysis and mass spectrometry: G-actin solution structure is divalent cation dependent. <i>Biochemistry</i> , 2003 , 42, 11992-2000	3.2	42
51	Catastrophic disassembly of actin filaments via Mical-mediated oxidation. <i>Nature Communications</i> , 2017 , 8, 2183	17.4	41
50	Drebrin inhibits cofilin-induced severing of F-actin. <i>Cytoskeleton</i> , 2014 , 71, 472-83	2.4	39
49	Mutational analysis of the role of hydrophobic residues in the 338-348 helix on actin in actomyosin interactions. <i>Biochemistry</i> , 1996 , 35, 3670-6	3.2	39
48	Actin cross-linking and inhibition of the actomyosin motor. <i>Biochemistry</i> , 2002 , 41, 86-93	3.2	37
47	INF2-mediated severing through actin filament encirclement and disruption. <i>Current Biology</i> , 2014 , 24, 156-164	6.3	36
46	Locking the hydrophobic loop 262-274 to G-actin surface by a disulfide bridge prevents filament formation. <i>Biochemistry</i> , 2002 , 41, 10787-93	3.2	36
45	Characterization of the enzymatic activity of the actin cross-linking domain from the <i>Vibrio cholerae</i> MARTX Vc toxin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 445-452	5.4	35
44	Three-dimensional structure of cofilin bound to monomeric actin derived by structural mass spectrometry data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7910-5	11.5	33
43	Cryo-EM reveals different coronin binding modes for ADP- and ADP-BeFx actin filaments. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 1075-81	17.6	32
42	Structural states and dynamics of the D-loop in actin. <i>Biophysical Journal</i> , 2012 , 103, 930-9	2.9	32

41	F-actin structure destabilization and DNase I binding loop: fluctuations mutational cross-linking and electron microscopy analysis of loop states and effects on F-actin. <i>Journal of Molecular Biology</i> , 2010 , 395, 544-57	6.5	32
40	Solution properties of tetramethylrhodamine-modified G-actin. <i>Biophysical Journal</i> , 2003 , 85, 2466-75	2.9	31
39	Tryptophan fluorescence of yeast actin resolved via conserved mutations. <i>Biophysical Journal</i> , 2001 , 80, 427-34	2.9	29
38	Intrastrand cross-linked actin between Gln-41 and Cys-374. II. Properties of cross-linked oligomers. <i>Biochemistry</i> , 1998 , 37, 17793-800	3.2	26
37	A nucleotide state-sensing region on actin. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25591-601	5.4	22
36	Nucleotide and actin binding properties of the isolated motor domain from Dictyostelium discoideum myosin. <i>Journal of Muscle Research and Cell Motility</i> , 1997 , 18, 563-71	3.5	22
35	Complexes of myosin subfragment-1 with adenosine diphosphate and phosphate analogs: probes of active site and protein conformation. <i>Biophysical Chemistry</i> , 1996 , 59, 341-9	3.5	22
34	Conformational dynamics of loop 262-274 in G- and F-actin. <i>Biochemistry</i> , 2006 , 45, 6541-9	3.2	21
33	Intermolecular dynamics and function in actin filaments. <i>Biophysical Chemistry</i> , 2000 , 86, 191-201	3.5	21
32	Probing the conformational states of the SH1-SH2 helix in myosin: a cross-linking approach. <i>Biochemistry</i> , 1998 , 37, 16704-10	3.2	21
31	Multiple forms of Spire-actin complexes and their functional consequences. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10684-10692	5.4	20
30	Hydrophobic loop dynamics and actin filament stability. <i>Biochemistry</i> , 2006 , 45, 13576-84	3.2	19
29	Inorganic phosphate regulates the binding of cofilin to actin filaments. <i>FEBS Journal</i> , 2006 , 273, 1488-96	5.7	19
28	Sequence 18-29 on actin: antibody and spectroscopic probing of conformational changes. <i>Biochemistry</i> , 1994 , 33, 14426-33	3.2	19
27	Interaction of caldesmon and myosin subfragment 1 with the C-terminus of actin. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 184, 239-45	3.4	19
26	Polycation induced actin bundles. <i>Biophysical Chemistry</i> , 2011 , 155, 45-51	3.5	18
25	Effect of complexes of ADP and phosphate analogs on the conformation of the Cys707-Cys697 region of myosin subfragment 1. <i>FEBS Journal</i> , 1997 , 243, 636-42		18
24	Role of residues 311/312 in actin-tropomyosin interaction. In vitro motility study using yeast actin mutant e311a/r312a. <i>Journal of Biological Chemistry</i> , 1999 , 274, 17545-50	5.4	18

23	Severing of F-actin by yeast cofilin is pH-independent. <i>Cytoskeleton</i> , 2006 , 63, 533-42		16
22	Functional studies of yeast actin mutants corresponding to human cardiomyopathy mutations. <i>Journal of Muscle Research and Cell Motility</i> , 2001 , 22, 665-74	3.5	16
21	Effect of intramolecular cross-linking between glutamine-41 and lysine-50 on actin structure and function. <i>Journal of Muscle Research and Cell Motility</i> , 2000 , 21, 405-14	3.5	16
20	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	4.9	15
19	On the alkali light chains of vertebrate skeletal myosin. Nucleotide binding and salt-induced conformational changes. <i>FEBS Journal</i> , 1981 , 115, 565-70		15
18	Myosin binding surface on actin probed by hydroxyl radical footprinting and site-directed labels. <i>Journal of Molecular Biology</i> , 2011 , 414, 204-16	6.5	14
17	Antiparallel dimer and actin assembly. <i>Biochemistry</i> , 2010 , 49, 3919-27	3.2	14
16	Effects of binding factors on structural elements in F-actin. <i>Biochemistry</i> , 2009 , 48, 370-8	3.2	14
15	Metavinculin Tunes the Flexibility and the Architecture of Vinculin-Induced Bundles of Actin Filaments. <i>Journal of Molecular Biology</i> , 2015 , 427, 2782-98	6.5	11
14	The accessibility of etheno-nucleotides to collisional quenchers and the nucleotide cleft in G- and F-actin. <i>Protein Science</i> , 1992 , 1, 1014-22	6.3	11
13	Allosteric Regulation of Enzymatic Reactions in a Transparent Inorganic Sol-Gel Material. <i>Journal of Sol-Gel Science and Technology</i> , 1999 , 15, 57-62	2.3	10
12	Tropomyosin-troponin regulation of actin does not involve subdomain 2 motions. <i>Journal of Biological Chemistry</i> , 2001 , 276, 18442-9	5.4	9
11	A novel 27/16 kDa form of subtilisin cleaved actin: structural and functional consequences of cleavage between Ser234 and Ser235. <i>FEBS Letters</i> , 1995 , 365, 149-51	3.8	9
10	D-loop Dynamics and Near-Atomic-Resolution Cryo-EM Structure of Phalloidin-Bound F-Actin. <i>Structure</i> , 2020 , 28, 586-593.e3	5.2	7
9	Tropomyosin isoforms regulate cofilin 1 activity by modulating actin filament conformation. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 682, 108280	4.1	6
8	Solution properties of full length and truncated forms of myosin subfragment 1 from Dictyostelium discoideum. <i>Journal of Muscle Research and Cell Motility</i> , 2001 , 22, 657-64	3.5	6
7	The regulation of subtilisin-cleaved actin by tropomyosin/troponin. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5517-22	5.4	5
6	Circular dichroism of complexes of NADH with self-associating bovine liver glutamate dehydrogenase. <i>Biopolymers</i> , 1979 , 18, 2289-301	2.2	5

5	Neuronal drebrin A directly interacts with mDia2 formin to inhibit actin assembly. <i>Molecular Biology of the Cell</i> , 2019 , 30, 646-657	3.5	5
4	Cofilin-induced changes in F-actin detected via cross-linking with benzophenone-4-maleimide. <i>Biochemistry</i> , 2013 , 52, 5503-9	3.2	4
3	Profilin and Mical combine to impair F-actin assembly and promote disassembly and remodeling. <i>Nature Communications</i> , 2021 , 12, 5542	17.4	3
2	Cytoskeleton Dynamics and Binding Factors. <i>Neuromethods</i> , 2013 , 63-83	0.4	2
1	Parallel actin monomers in the 8S complex of actin-INC2.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022 , 1-10	3.6	0