

# Emil Reisler

## List of Publications by Year in descending order

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78  
papers

3,278  
citations

109321

35  
h-index

168389

53  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative evaluation of the lengths of homobifunctional protein cross-linking reagents used as molecular rulers. <i>Protein Science</i> , 2008, 10, 1293-1304.	7.6	200
2	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
3	Actin Filament Severing by Cofilin. <i>Journal of Molecular Biology</i> , 2007, 365, 1350-1358.	4.2	164
4	Spatial proximity of the two essential sulfhydryl groups of myosin. <i>Biochemistry</i> , 1974, 13, 3837-3840.	2.5	113
5	Subtilisin-cleaved actin: polymerization and interaction with myosin subfragment 1. <i>Biochemistry</i> , 1989, 28, 5889-5895.	2.5	98
6	ADF/cofilin use an intrinsic mode of F-actin instability to disrupt actin filaments. <i>Journal of Cell Biology</i> , 2003, 163, 1057-1066.	5.2	97
7	Actin Structure and Function: What We Still Do Not Understand. <i>Journal of Biological Chemistry</i> , 2007, 282, 36133-36137.	3.4	94
8	F-actin dismantling through a redox-driven synergy between Mical and cofilin. <i>Nature Cell Biology</i> , 2016, 18, 876-885.	10.3	92
9	Cooperative Effects of Cofilin (ADF) on Actin Structure Suggest Allosteric Mechanism of Cofilin Function. <i>Journal of Molecular Biology</i> , 2006, 356, 325-334.	4.2	79
10	Fluorescence Probing of Yeast Actin Subdomain 3/4 Hydrophobic Loop 262-274. <i>Journal of Biological Chemistry</i> , 1997, 272, 16829-16837.	3.4	75
11	Catastrophic disassembly of actin filaments via Mical-mediated oxidation. <i>Nature Communications</i> , 2017, 8, 2183.	12.8	74
12	Inhibition of myosin ATPase by beryllium fluoride. <i>Biochemistry</i> , 1992, 31, 4787-4793.	2.5	73
13	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, 16557-16565.	2.5	70
14	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, 18537-18542.	7.1	68
15	Structural Effects of Cofilin on Longitudinal Contacts in F-actin. <i>Journal of Molecular Biology</i> , 2002, 323, 739-750.	4.2	65
16	Cross-linking constraints on F-actin structure 1 Edited by M. F. Moody. <i>Journal of Molecular Biology</i> , 2000, 299, 421-429.	4.2	60
17	Probing the structure of F-actin: cross-links constrain atomic models and modify actin dynamics 1 Edited by M. F. Moody. <i>Journal of Molecular Biology</i> , 2001, 312, 95-106.	4.2	60
18	Cofilin (ADF) Affects Lateral Contacts in F-actin. <i>Journal of Molecular Biology</i> , 2004, 337, 93-104.	4.2	59

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19	Role of Charged Amino Acid Pairs in Subdomain-1 of Actin in Interactions with Myosin. <i>Biochemistry</i> , 1995, 34, 2694-2700.	2.5	57
20	Structure and Dynamics of the Actin Filament. <i>Biochemistry</i> , 2005, 44, 3166-3175.	2.5	54
21	Coronin Enhances Actin Filament Severing by Recruiting Cofilin to Filament Sides and Altering F-Actin Conformation. <i>Journal of Molecular Biology</i> , 2015, 427, 3137-3147.	4.2	53
22	Structural Reorganization of Proteins Revealed by Radiolysis and Mass Spectrometry: G-Actin Solution Structure Is Divalent Cation Dependent. <i>Biochemistry</i> , 2003, 42, 11992-12000.	2.5	51
23	Polymerization and <i>In Vitro</i> Motility Properties of Yeast Actin: A Comparison with Rabbit Skeletal F-Actin. <i>Biochemistry</i> , 1996, 35, 16566-16572.	2.5	50
24	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, 17784-17792.	2.5	50
25	Intrastrand Cross-Linked Actin between Gln-41 and Cys-374. III. Inhibition of Motion and Force Generation with Myosin. <i>Biochemistry</i> , 1998, 37, 17801-17809.	2.5	50
26	Cofilin Induced Conformational Changes in F-actin Expose Subdomain 2 to Proteolysis. <i>Journal of Molecular Biology</i> , 2004, 342, 1559-1567.	4.2	48
27	INF2-Mediated Severing through Actin Filament Encirclement and Disruption. <i>Current Biology</i> , 2014, 24, 156-164.	3.9	48
28	Drebrin inhibits cofilin-induced severing of actin. <i>Cytoskeleton</i> , 2014, 71, 472-483.	2.0	46
29	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
30	F-Actin Structure Destabilization and DNase I Binding Loop Fluctuations. <i>Journal of Molecular Biology</i> , 2010, 395, 544-557.	4.2	42
31	Structural States and Dynamics of the D-Loop in Actin. <i>Biophysical Journal</i> , 2012, 103, 930-939.	0.5	42
32	Mutational Analysis of the Role of Hydrophobic Residues in the 338~348 Helix on Actin in Actomyosin Interactions. <i>Biochemistry</i> , 1996, 35, 3670-3676.	2.5	40
33	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, 7910-7915.	7.1	40
34	Actin Cross-Linking and Inhibition of the Actomyosin Motor. <i>Biochemistry</i> , 2002, 41, 86-93.	2.5	39
35	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
36	Locking the Hydrophobic Loop 262~274 to G-Actin Surface by a Disulfide Bridge Prevents Filament Formation. <i>Biochemistry</i> , 2002, 41, 10787-10793.	2.5	37

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37	Tryptophan Fluorescence of Yeast Actin Resolved via Conserved Mutations. <i>Biophysical Journal</i> , 2001, 80, 427-434.	0.5	33
38	Solution Properties of Tetramethylrhodamine-Modified G-Actin. <i>Biophysical Journal</i> , 2003, 85, 2466-2475.	0.5	33
39	Inorganic phosphate regulates the binding of cofilin to actin filaments. <i>FEBS Journal</i> , 2006, 273, 1488-1496.	4.7	30
40	A Nucleotide State-sensing Region on Actin. <i>Journal of Biological Chemistry</i> , 2010, 285, 25591-25601.	3.4	28
41	Intrastrand Cross-Linked Actin between Gln-41 and Cys-374. II. Properties of Cross-Linked Oligomers. <i>Biochemistry</i> , 1998, 37, 17793-17800.	2.5	26
42	D-loop Dynamics and Near-Atomic-Resolution Cryo-EM Structure of Phalloidin-Bound F-Actin. <i>Structure</i> , 2020, 28, 586-593.e3.	3.3	26
43	Probing the Conformational States of the SH1~SH2 Helix in Myosin: A Cross-Linking Approach. <i>Biochemistry</i> , 1998, 37, 16704-16710.	2.5	25
44	Intermolecular dynamics and function in actin filaments. <i>Biophysical Chemistry</i> , 2000, 86, 191-201.	2.8	24
45	Conformational Dynamics of Loop 262~274 in G- and F-actin. <i>Biochemistry</i> , 2006, 45, 6541-6549.	2.5	24
46	Complexes of myosin subfragment-1 with adenosine diphosphate and phosphate analogs: probes of active site and protein conformation. <i>Biophysical Chemistry</i> , 1996, 59, 341-349.	2.8	23
47	Nucleotide and actin binding properties of the isolated motor domain from <i>Dictyostelium discoideum</i> myosin. <i>Journal of Muscle Research and Cell Motility</i> , 1997, 18, 563-571.	2.0	23
48	Sequence 18-29 on Actin: Antibody and Spectroscopic Probing of Conformational Changes. <i>Biochemistry</i> , 1994, 33, 14426-14433.	2.5	22
49	Multiple Forms of Spire-Actin Complexes and their Functional Consequences. <i>Journal of Biological Chemistry</i> , 2012, 287, 10684-10692.	3.4	22
50	Interaction of caldesmon and myosin subfragment 1 with the C-terminus of actin. <i>Biochemical and Biophysical Research Communications</i> , 1992, 184, 239-245.	2.1	21
51	Functional studies of yeast actin mutants corresponding to human cardiomyopathy mutations. <i>Journal of Muscle Research and Cell Motility</i> , 2001, 22, 665-674.	2.0	21
52	Hydrophobic Loop Dynamics and Actin Filament Stability. <i>Biochemistry</i> , 2006, 45, 13576-13584.	2.5	21
53	Profilin and Mical combine to impair F-actin assembly and promote disassembly and remodeling. <i>Nature Communications</i> , 2021, 12, 5542.	12.8	21
54	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, 636-642.	0.2	20

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55	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, 405-414.	2.0	20
56	Severing of F-actin by yeast cofilin is pH-independent. <i>Cytoskeleton</i> , 2006, 63, 533-542.	4.4	20
57	Polycation induced actin bundles. <i>Biophysical Chemistry</i> , 2011, 155, 45-51.	2.8	20
58	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
59	Role of Residues 311/312 in Actin-Tropomyosin Interaction. <i>Journal of Biological Chemistry</i> , 1999, 274, 17545-17550.	3.4	18
60	Myosin Binding Surface on Actin Probed by Hydroxyl Radical Footprinting and Site-Directed Labels. <i>Journal of Molecular Biology</i> , 2011, 414, 204-216.	4.2	17
61	On the Alkali Light Chains of Vertebrate Skeletal Myosin. <i>FEBS Journal</i> , 2005, 115, 565-570.	0.2	16
62	Antiparallel Dimer and Actin Assembly. <i>Biochemistry</i> , 2010, 49, 3919-3927.	2.5	16
63	Effects of Binding Factors on Structural Elements in F-Actin. <i>Biochemistry</i> , 2009, 48, 370-378.	2.5	15
64	The accessibility of etheno- $\alpha$ -nucleotides to collisional quenchers and the nucleotide cleft in G- and F-actin. <i>Protein Science</i> , 1992, 1, 1014-1022.	7.6	13
65	Metavinculin Tunes the Flexibility and the Architecture of Vinculin-Induced Bundles of Actin Filaments. <i>Journal of Molecular Biology</i> , 2015, 427, 2782-2798.	4.2	13
66	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.	2.4	12
67	A novel kDa form of subtilisin cleaved actin: structural and functional consequences of cleavage between Ser234 and Ser235. <i>FEBS Letters</i> , 1995, 365, 149-151.	2.8	10
68	Neuronal drebrin A directly interacts with mDia2 formin to inhibit actin assembly. <i>Molecular Biology of the Cell</i> , 2019, 30, 646-657.	2.1	10
69	Tropomyosin isoforms regulate cofilin 1 activity by modulating actin filament conformation. <i>Archives of Biochemistry and Biophysics</i> , 2020, 682, 108280.	3.0	10
70	Tropomyosin-Troponin Regulation of Actin Does Not Involve Subdomain 2 Motions. <i>Journal of Biological Chemistry</i> , 2001, 276, 18442-18449.	3.4	9
71	Solution properties of full length and truncated forms of myosin subfragment 1 from <i>Dictyostelium discoideum</i> . <i>Journal of Muscle Research and Cell Motility</i> , 2001, 22, 657-664.	2.0	7
72	Circular dichroism of complexes of NADH with self-associating bovine liver glutamate dehydrogenase. <i>Biopolymers</i> , 1979, 18, 2289-2301.	2.4	6

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73	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
74	The Regulation of Subtilisin-cleaved Actin by Tropomyosin/Troponin. <i>Journal of Biological Chemistry</i> , 2003, 278, 5517-5522.	3.4	5
75	Cofilin-Induced Changes in F-Actin Detected via Cross-Linking with Benzophenone-4-maleimide. <i>Biochemistry</i> , 2013, 52, 5503-5509.	2.5	4
76	Cytoskeleton Dynamics and Binding Factors. <i>Neuromethods</i> , 2013, , 63-83.	0.3	2
77	Parallel actin monomers in the 8S complex of actinâ€“INF2. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, , 1-10.	3.5	2
78	Disassembly of fascin bundled actin filaments via their Mical associated oxidation. <i>FASEB Journal</i> , 2022, 36, .	0.5	0