Anne Houdusse-JuillÃ©

List of Publications by Year
in descending order

92	7,183	50276 46	60623 81
papers	citations	h-index	g-index

105	105	105	6561
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Myosin VIIa, harmonin and cadherin 23, three Usher I gene products that cooperate to shape the sensory hair cell bundle. EMBO Journal, 2002, 21, 6689-6699.	7.8	392
2	Structural and Functional Insights into the Myosin Motor Mechanism. Annual Review of Biophysics, 2010, 39, 539-557.	10.0	352
3	Atomic Structure of Scallop Myosin Subfragment S1 Complexed with MgADP. Cell, 1999, 97, 459-470.	28.9	345
4	A structural state of the myosin V motor without bound nucleotide. Nature, 2003, 425, 419-423.	27.8	288
5	Three myosin V structures delineate essential features of chemo-mechanical transduction. EMBO Journal, 2004, 23, 4527-4537.	7.8	273
6	Griscelli syndrome restricted to hypopigmentation results from a melanophilin defect (GS3) or a MYO5A F-exon deletion (GS1). Journal of Clinical Investigation, 2003, 112, 450-456.	8.2	251
7	Mechanism of Microtubule Stabilization by Doublecortin. Molecular Cell, 2004, 14, 833-839.	9.7	220
8	Structure of the regulatory domain of scallop myosin at 2 Ã¥ resolution: implications for regulation. Structure, 1996, 4, 21-32.	3.3	214
9	The structure of the myosin VI motor reveals the mechanism of directionality reversal. Nature, 2005, 435, 779-785.	27.8	206
10	Structures of four Ca2+-bound troponin C at 2.0 Ã… resolution: further insights into the Ca2+-switch in the calmodulin superfamily. Structure, 1997, 5, 1695-1711.	3.3	165
11	Mechanistic and structural basis for activation of cardiac myosin force production by omecamtiv mecarbil. Nature Communications, 2017, 8, 190.	12.8	153
12	Myosin motors: missing structures and hidden springs. Current Opinion in Structural Biology, 2001, 11, 182-194.	5.7	147
13	The structure of the rigor complex and its implications for the power stroke. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 1819-1828.	4.0	137
14	How Myosin Generates Force on Actin Filaments. Trends in Biochemical Sciences, 2016, 41, 989-997.	7.5	135
15	Oxidation of F-actin controls the terminal steps of cytokinesis. Nature Communications, 2017, 8, 14528.	12.8	130
16	Distinct roles of doublecortin modulating the microtubule cytoskeleton. EMBO Journal, 2006, 25, 4448-4457.	7.8	126
17	Crystal structure of apo-calmodulin bound to the first two IQ motifs of myosin V reveals essential recognition features. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19326-19331.	7.1	125
18	Rab GTPases and their interacting protein partners: Structural insights into Rab functional diversity. Small GTPases, 2018, 9, 22-48.	1.6	122

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19	How Actin Initiates the Motor Activity of Myosin. Developmental Cell, 2015, 33, 401-412.	7.0	118
20	Template-free 13-protofilament microtubuleâ€"MAP assembly visualized at 8 Ã… resolution. Journal of Cell Biology, 2010, 191, 463-470.	5.2	116
21	Molecular Basis for Specific Regulation of Neuronal Kinesin-3 Motors by Doublecortin Family Proteins. Molecular Cell, 2012, 47, 707-721.	9.7	116
22	Myosin VI Rewrites the Rules for Myosin Motors. Cell, 2010, 141, 573-582.	28.9	110
23	What can myosin VI do in cells?. Current Opinion in Cell Biology, 2007, 19, 57-66.	5.4	108
24	A model of Ca2+-free calmodulin binding to unconventional myosins reveals how calmodulin acts as a regulatory switch. Structure, 1996, 4, 1475-1490.	3.3	101
25	Conserved mechanisms of microtubule-stimulated ADP release, ATP binding, and force generation in transport kinesins. ELife, 2014, 3, e03680.	6.0	100
26	New insights into genotypeâ€"phenotype correlations for the doublecortin-related lissencephaly spectrum. Brain, 2013, 136, 223-244.	7.6	99
27	Rab35 GTPase couples cell division with initiation of epithelial apico-basal polarity and lumen opening. Nature Communications, 2016, 7, 11166.	12.8	97
28	Cadherin-23, myosin VIIa and harmonin, encoded by Usher syndrome type I genes, form a ternary complex and interact with membrane phospholipids. Human Molecular Genetics, 2010, 19, 3557-3565.	2.9	94
29	Hypertrophic cardiomyopathy disease results from disparate impairments of cardiac myosin function and auto-inhibition. Nature Communications, 2018, 9, 4019.	12.8	91
30	Force Generation by Myosin Motors: A Structural Perspective. Chemical Reviews, 2020, 120, 5-35.	47.7	91
31	Myosin VI Dimerization Triggers an Unfolding of a Three-Helix Bundle in Order to Extend Its Reach. Molecular Cell, 2009, 35, 305-315.	9.7	89
32	Biochemical and functional characterization of Rab27a mutations occurring in Griscelli syndrome patients. Blood, 2003, 101, 2736-2742.	1.4	87
33	Structural basis for ARF1-mediated recruitment of ARHGAP21 to Golgi membranes. EMBO Journal, 2007, 26, 1953-1962.	7.8	86
34	The unique insert at the end of the myosin VI motor is the sole determinant of directionality. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 778-783.	7.1	76
35	Force-producing ADP state of myosin bound to actin. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1844-52.	7.1	76
36	The Structural Basis for the Large Powerstroke of Myosin VI. Cell, 2007, 131, 300-308.	28.9	75

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37	The myosin X motor is optimized for movement on actin bundles. Nature Communications, 2016, 7, 12456.	12.8	75
38	The unique insert in myosin VI is a structural calcium-calmodulin binding site. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4787-4792.	7.1	73
39	Structural Basis for Recruitment of Rab6-Interacting Protein 1 to Golgi via a RUN Domain. Structure, 2009, 17, 21-30.	3.3	73
40	Magnesium Regulates ADP Dissociation from Myosin V. Journal of Biological Chemistry, 2005, 280, 6072-6079.	3.4	69
41	The structural basis of Arf effector specificity: the crystal structure of ARF6 in a complex with JIP4. EMBO Journal, 2009, 28, 2835-2845.	7.8	68
42	The motor mechanism of myosin V: insights for muscle contraction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 1829-1842.	4.0	66
43	Emerging roles of MICAL family proteins â€“ from actin oxidation to membrane trafficking during cytokinesis. Journal of Cell Science, 2017, 130, 1509-1517.	2.0	63
44	Free Brick1 Is a Trimeric Precursor in the Assembly of a Functional Wave Complex. PLoS ONE, 2008, 3, e2462.	2.5	63
45	An Overview and Online Registry of Microvillus Inclusion Disease Patients and their<i>MYO5B</i>Mutations. Human Mutation, 2013, 34, 1597-1605.	2.5	62
46	Coupling fission and exit of RAB6 vesicles at Golgi hotspots through kinesin-myosin interactions. Nature Communications, 2017, 8, 1254.	12.8	55
47	Coordinated recruitment of Spir actin nucleators and myosin V motors to Rab11 vesicle membranes. ELife, 2016, 5, .	6.0	53
48	Myosin 7 and its adaptors link cadherins to actin. Nature Communications, 2017, 8, 15864.	12.8	49
49	Plasmodium myosin A drives parasite invasion by an atypical force generating mechanism. Nature Communications, 2019, 10, 3286.	12.8	49
50	MAPping out distribution routes for kinesin couriers. Biology of the Cell, 2013, 105, 465-487.	2.0	48
51	<i>MYO5B</i>,<i>STX3</i>, and<i>STXBP2</i>mutations reveal a common disease mechanism that unifies a subset of congenital diarrheal disorders: A mutation update. Human Mutation, 2018, 39, 333-344.	2.5	48
52	Biochemical and Structural Characterization of the Gem GTPase. Journal of Biological Chemistry, 2007, 282, 1905-1915.	3.4	46
53	Myosin VI and branched actin filaments mediate membrane constriction and fission of melanosomal tubule carriers. Journal of Cell Biology, 2018, 217, 2709-2726.	5.2	46
54	Novel myosin mutations for hereditary hearing loss revealed by targeted genomic capture and massively parallel sequencing. European Journal of Human Genetics, 2014, 22, 768-775.	2.8	44

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55	The many roles of myosins in filopodia, microvilli andÂstereocilia. Current Biology, 2021, 31, R586-R602.	3.9	41
56	The divergent mitotic kinesin MKLP2 exhibits atypical structure and mechanochemistry. ELife, 2017, 6, .	6.0	39
57	Highly selective inhibition of myosin motors provides the basis of potential therapeutic application. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7448-E7455.	7.1	34
58	The post-rigor structure of myosin VI and implications for the recovery stroke. EMBO Journal, 2008, 27, 244-252.	7.8	31
59	Drosophila melanogaster Myosin-18 Represents a Highly Divergent Motor with Actin Tethering Properties. Journal of Biological Chemistry, 2011, 286, 21755-21766.	3.4	28
60	Circularly Permuted Fluorogenic Proteins for the Design of Modular Biosensors. ACS Chemical Biology, 2018, 13, 2392-2397.	3.4	27
61	High-resolution structures of the actomyosin-V complex in three nucleotide states provide insights into the force generation mechanism. ELife, 2021, 10, .	6.0	27
62	Myosin VI Must Dimerize and Deploy Its Unusual Lever Arm in Order to Perform Its Cellular Roles. Cell Reports, 2014, 8, 1522-1532.	6.4	26
63	Eml1 loss impairs apical progenitor spindle length and soma shape in the developing cerebral cortex. Scientific Reports, 2017, 7, 17308.	3.3	26
64	Myosin Structures. Advances in Experimental Medicine and Biology, 2020, 1239, 7-19.	1.6	26
65	MyTH4-FERM myosins have an ancient and conserved role in filopod formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8059-E8068.	7.1	24
66	The actomyosin interface contains an evolutionary conserved core and an ancillary interface involved in specificity. Nature Communications, 2021, 12, 1892.	12.8	23
67	An intermediate along the recovery stroke of myosin VI revealed by X-ray crystallography and molecular dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6213-6218.	7.1	22
68	Structural aspects of Rab6â€"effector complexes. Biochemical Society Transactions, 2009, 37, 1037-1041.	3.4	21
69	Single Residue Variation in Skeletal Muscle Myosin Enables Direct and Selective Drug Targeting for Spasticity and Muscle Stiffness. Cell, 2020, 183, 335-346.e13.	28.9	21
70	Structural Studies of the Doublecortin Family of MAPs. Methods in Cell Biology, 2013, 115, 27-48.	1.1	20
71	Myosin MyTH4-FERM structures highlight important principles of convergent evolution. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2906-15.	7.1	20
72	Role of Insert-1 of Myosin VI in Modulating Nucleotide Affinity. Journal of Biological Chemistry, 2011, 286, 11716-11723.	3.4	19

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73	Metastasis-suppressor NME1 controls the invasive switch of breast cancer by regulating MT1-MMP surface clearance. Oncogene, 2021, 40, 4019-4032.	5.9	19
74	Full-length Plasmodium falciparum myosin A and essential light chain PfELC structures provide new anti-malarial targets. ELife, 2020, 9, .	6.0	19
75	Electrospray ionization mass spectrometry studies of noncovalent myosin VI complexes reveal a new specific calmodulin binding site. Journal of the American Society for Mass Spectrometry, 2005, 16, 1367-1376.	2.8	18
76	Optimized filopodia formation requires myosin tail domain cooperation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22196-22204.	7.1	13
77	Dynein Swings into Action. Cell, 2009, 136, 395-396.	28.9	12
78	VASP-mediated actin dynamics activate and recruit a filopodia myosin. ELife, 2021, 10, .	6.0	11
79	Isolation and Characterization of an Aggresome Determinant in theNF2 Tumor Suppressor. Journal of Biological Chemistry, 2003, 278, 6235-6242.	3.4	10
80	Crystallization and Preliminary X-ray Diffraction Study of an Idiotope-Anti-Idiotope Fv-Fv Complex. Journal of Molecular Biology, 1994, 241, 739-743.	4.2	9
81	Kinesin-6 Klp9 orchestrates spindle elongation by regulating microtubule sliding and growth. ELife, 2021, 10, .	6.0	9
82	A double-take on MAPs. Nature Structural and Molecular Biology, 2003, 10, 314-316.	8.2	6
83	Improving Diffraction from 3 to 2 Ã… for a Complex between a Small GTPase and Its Effector by Analysis of Crystal Contacts and Use of Reverse Screening. Crystal Growth and Design, 2007, 7, 2140-2146.	3.0	5
84	Griscelli syndrome restricted to hypopigmentation results from a melanophilin defect (GS3) or a MYO5A F-exon deletion (GS1). Journal of Clinical Investigation, 2005, 115, 1100-1100.	8.2	5
85	Cloning, bacterial expression and crystallization of Fv antibody fragments. Journal of Crystal Growth, 1992, 122, 337-343.	1.5	3
86	Biological nanomotors, driving forces of life. Comptes Rendus - Biologies, 2020, 343, 53-78.	0.2	2
87	Myosin VI Dimerizes And Walks Processively Along Actin. Biophysical Journal, 2009, 96, 142a.	0.5	0
88	Dimerization is Essential for the Large Step Size of Myosin VI. Biophysical Journal, 2010, 98, 724a.	0.5	0
89	Steered Molecular Dynamics Simulation of Unfolding of Myosin VI Proximal Tail Domain. Biophysical Journal, 2010, 98, 724a.	0.5	0
90	How Actin Initiates the Motor Activity of Myosin. Biophysical Journal, 2015, 108, 25a.	0.5	0

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91	The Force Producing ADP State of Myosin Bound to Actin. Biophysical Journal, 2016, 110, 13a.	0.5	0
92	A Structural Model of the Mitotic Kinesin-6 Mechanochemical Cycle. Biophysical Journal, 2016, 110, 192a-193a.	0.5	0