Harald Herrmann

List of Publications by Year
in descending order

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56 papers	5,049 citations	147801 31 h-index	149698 56 g-index
95 all docs	95 docs citations	95 times ranked	4694 citing authors

#	Article	IF	Citations
1	New roles for desmin in the maintenance of muscle homeostasis. FEBS Journal, 2022, 289, 2755-2770.	4.7	50
2	A general mathematical model for the inÂvitro assembly dynamics of intermediate filament proteins. Biophysical Journal, 2022, 121, 1094-1104.	0.5	5
3	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of InÂVitro Multicomponent Interpenetrating Cytoskeletal Networks. Physical Review Letters, 2021, 127, 108101.	7.8	15
4	Molecular Interactions Driving Intermediate Filament Assembly. Cells, 2021, 10, 2457.	4.1	22
5	Dual Functional States of R406W-Desmin Assembly Complexes Cause Cardiomyopathy With Severe Intercalated Disc Derangement in Humans and in Knock-In Mice. Circulation, 2020, 142, 2155-2171.	1.6	27
6	Effect of Divalent Cations on the Structure and Mechanics of Vimentin Intermediate Filaments. Biophysical Journal, 2020, 119, 55-64.	0.5	19
7	Oxygen and Conformation Dependent Protein Oxidation and Aggregation by Porphyrins in Hepatocytes and Light-Exposed Cells. Cellular and Molecular Gastroenterology and Hepatology, 2019, 8, 659-682.e1.	4.5	19
8	Vimentin on the move:Ânew developments in cell migration. F1000Research, 2018, 7, 1796.	1.6	192
9	Glassy dynamics in composite biopolymer networks. Soft Matter, 2018, 14, 7970-7978.	2.7	23
10	Assembly Kinetics of Vimentin Tetramers to Unit-Length Filaments: A Stopped-Flow Study. Biophysical Journal, 2018, 114, 2408-2418.	0.5	29
11	Altered nuclear envelope structure and proteasome function of micronuclei. Experimental Cell Research, 2018, 371, 353-363.	2.6	25
12	An imageâ€based smallâ€molecule screen identifies vimentin as a pharmacologically relevant target of simvastatin in cancer cells. FASEB Journal, 2018, 32, 2841-2854.	0.5	37
13	Î±B-crystallin is a sensor for assembly intermediates and for the subunit topology of desmin intermediate filaments. Cell Stress and Chaperones, 2017, 22, 613-626.	2.9	20
14	Keratin gene mutations influence the keratinocyte response to DNA damage and cytokine induced apoptosis. Archives of Dermatological Research, 2017, 309, 587-593.	1.9	2
15	New insights into interactions between the nucleotideâ€binding domain of CFTR and keratin 8. Protein Science, 2017, 26, 343-354.	7.6	10
16	In Vitro Assembly Kinetics of Cytoplasmic Intermediate Filaments: A Correlative Monte Carlo Simulation Study. PLoS ONE, 2016, 11, e0157451.	2.5	14
17	Competitive Counterion Binding Regulates the Aggregation Onset of Vimentin Intermediate Filaments. Israel Journal of Chemistry, 2016, 56, 614-621.	2.3	17
18	Nebulette is a powerful cytolinker organizing desmin and actin in mouse hearts. Molecular Biology of the Cell, 2016, 27, 3869-3882.	2.1	26

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19	Deleterious assembly of mutant p.S143P lamin A/C causes ER stress in familial dilated cardiomyopathy. Journal of Cell Science, 2016, 129, 2732-43.	2.0	25
20	Structural Dynamics of the Vimentin Coiled-coil Contact Regions Involved in Filament Assembly as Revealed by Hydrogen-Deuterium Exchange. Journal of Biological Chemistry, 2016, 291, 24931-24950.	3.4	40
21	Intermediate Filaments: Structure and Assembly. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018242.	5.5	266
22	Rattlesnake Phospholipase A2 Increases CFTR-Chloride Channel Current and Corrects âˆ† F508CFTR Dysfunction: Impact in Cystic Fibrosis. Journal of Molecular Biology, 2016, 428, 2898-2915.	4.2	22
23	Mutation of the nuclear lamin geneLMNB2in progressive myoclonus epilepsy with early ataxia. Human Molecular Genetics, 2015, 24, 4483-4490.	2.9	41
24	Intermediate Filaments Play a Pivotal Role in Regulating Cell Architecture and Function. Journal of Biological Chemistry, 2015, 290, 17145-17153.	3.4	207
25	Intermediate filament mechanics in vitro and in the cell: from coiled coils to filaments, fibers and networks. Current Opinion in Cell Biology, 2015, 32, 82-91.	5.4	134
26	LMNAMutation c.917T>G (p.L306R) Leads to Deleterious Hyper-Assembly of Lamin A/C and Associates with Severe Right Ventricular Cardiomyopathy and Premature Aging. Human Mutation, 2015, 36, 694-703.	2.5	14
27	Assembly of Simple Epithelial Keratin Filaments: Deciphering the Ion Dependence in Filament Organization. Biomacromolecules, 2015, 16, 3313-3321.	5.4	20
28	Analysis of distinct molecular assembly complexes of keratin K8 and K18 by hydrogenâ€“deuterium exchange. Journal of Structural Biology, 2015, 192, 426-440.	2.8	13
29	Altering lamina assembly identifies lamina-dependent and -independent functions for A-type lamins. Journal of Cell Science, 2015, 128, 3607-20.	2.0	46
30	Attractive Interactions among Intermediate Filaments Determine Network Mechanics In Vitro. PLoS ONE, 2014, 9, e93194.	2.5	51
31	Sequence-resolved free energy profiles of stress-bearing vimentin intermediate filaments. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11359-11364.	7.1	17
32	Direct Observation of Subunit Exchange along Mature Vimentin Intermediate Filaments. Biophysical Journal, 2014, 107, 2923-2931.	0.5	49
33	Microtubuleâ€dependent transport of vimentin filament precursors is regulated by actin and by the concerted action of Rhoâ€and p21â€activated kinases. FASEB Journal, 2014, 28, 2879-2890.	0.5	55
34	Nuclear Envelope Composition Determines the Ability of Neutrophil-type Cells to Passage through Micron-scale Constrictions. Journal of Biological Chemistry, 2013, 288, 8610-8618.	3.4	270
35	Complex formation and kinetics of filament assembly exhibited by the simple epithelial keratins K8 and K18. Journal of Structural Biology, 2012, 177, 54-62.	2.8	49
36	Assembly kinetics determine the structure of keratin networks. Soft Matter, 2012, 8, 8873.	2.7	47

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37	The danger of "multi-tasking". Nucleus, 2010, 1, 319-324.	2.2	3
38	Dominant cataract formation in association with a vimentin assembly disrupting mutation. Human Molecular Genetics, 2009, 18, 1052-1057.	2.9	88
39	Near-UV Circular Dichroism Reveals Structural Transitions of Vimentin Subunits during Intermediate Filament Assembly. Journal of Molecular Biology, 2009, 386, 544-553.	4.2	22
40	Vimentin Intermediate Filament Formation: In Vitro Measurement and Mathematical Modeling of the Filament Length Distribution during Assembly. Langmuir, 2009, 25, 8817-8823.	3.5	51
41	Intermediate filaments: primary determinants of cell architecture and plasticity. Journal of Clinical Investigation, 2009, 119, 1772-1783.	8.2	268
42	A dominant vimentin mutant upregulates Hsp70 and the activity of the ubiquitin-proteasome system, and causes posterior cataracts in transgenic mice. Journal of Cell Science, 2008, 121, 3737-3746.	2.0	48
43	A Quantitative Kinetic Model for the in Vitro Assembly of Intermediate Filaments from Tetrameric Vimentin. Journal of Biological Chemistry, 2007, 282, 18563-18572.	3.4	84
44	Intermediate filaments: from cell architecture to nanomechanics. Nature Reviews Molecular Cell Biology, 2007, 8, 562-573.	37.0	563
45	Mutations in vimentin disrupt the cytoskeleton in fibroblasts and delay execution of apoptosis. European Journal of Cell Biology, 2006, 85, 1-10.	3.6	50
46	Isolation, Characterization, and In Vitro Assembly of Intermediate Filaments. Methods in Cell Biology, 2004, 78, 3-24.	1.1	126
47	Molecular and Biophysical Characterization of Assembly-Starter Units of Human Vimentin. Journal of Molecular Biology, 2004, 340, 97-114.	4.2	148
48	Intermediate Filaments: Molecular Structure, Assembly Mechanism, and Integration Into Functionally Distinct Intracellular Scaffolds. Annual Review of Biochemistry, 2004, 73, 749-789.	11.1	617
49	Characterization of Early Assembly Intermediates of Recombinant Human Keratins. Journal of Structural Biology, 2002, 137, 82-96.	2.8	104
50	Functional complexity of intermediate filament cytoskeletons: From structure to assembly to gene ablation. International Review of Cytology, 2002, 223, 83-175.	6.2	169
51	Association of Plectin with Z-Discs Is a Prerequisite for the Formation of the Intermyofibrillar Desmin Cytoskeleton. Laboratory Investigation, 2000, 80, 455-464.	3.7	42
52	Disruption of Nuclear Lamin Organization Blocks the Elongation Phase of DNA Replication. Journal of Cell Biology, 2000, 149, 1179-1192.	5.2	208
53	New ways to look at the interchromosomal-domain compartment. Protoplasma, 1999, 209, 157-165.	2.1	10
54	Structure and Assembly Properties of the Intermediate Filament Protein Vimentin: The Role of its Head, Rod and Tail Domains. Journal of Molecular Biology, 1996, 264, 933-953.	4.2	312

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55	Temperature-sensitive Intermediate Filament Assembly. Journal of Molecular Biology, 1993, 234, 99-113.	4.2	59
56	Identification of a nonapeptide motif in the vimentin head domain involved in intermediate filament assembly. Journal of Molecular Biology, 1992, 223, 637-650.	4.2	159