Rudolf E Leube

List of Publications by Year
in descending order

92 papers	4,159 citations	94269 37 h-index	123241 61 g-index
95 all docs	95 docs citations	95 times ranked	3892 citing authors

#	Article	IF	Citations
1	Desmoplakin Maintains Transcellular Keratin Scaffolding and Protects From Intestinal Injury. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 1181-1200.	2.3	7
2	Quantitative mapping of keratin networks in 3D. ELife, 2022, 11, .	2.8	5
3	Keratin filaments mediate the expansion of extraâ€embryonic membranes in the postâ€gastrulation mouse embryo. EMBO Journal, 2022, 41, e108747.	3.5	6
4	Autophagy and Endoplasmic Reticulum Stress during Onset and Progression of Arrhythmogenic Cardiomyopathy. Cells, 2022, 11, 96.	1.8	6
5	Combining Image Restoration and Traction Force Microscopy to Study Extracellular Matrix-Dependent Keratin Filament Network Plasticity. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	4
6	Growth, lifetime, directional movement and myosin-dependent motility of mutant keratin granules in cultured cells. Scientific Reports, 2021, 11, 2379.	1.6	3
7	Hemidesmosome-Related Keratin Filament Bundling and Nucleation. International Journal of Molecular Sciences, 2021, 22, 2130.	1.8	15
8	Dual proteotoxic stress accelerates liver injury via activation of <scp>p62â€Nrf2</scp>. Journal of Pathology, 2021, 254, 80-91.	2.1	1
9	BBLN-1 is essential for intermediate filament organization and apical membrane morphology. Current Biology, 2021, 31, 2334-2346.e9.	1.8	13
10	How Mechanical Forces Change the Human Endometrium during the Menstrual Cycle in Preparation for Embryo Implantation. Cells, 2021, 10, 2008.	1.8	14
11	Scratch-induced partial skin wounds re-epithelialize by sheets of independently migrating keratinocytes. Life Science Alliance, 2021, 4, e202000765.	1.3	14
12	Desmoglein 2 regulates cardiogenesis by restricting hematopoiesis in the developing murine heart. Scientific Reports, 2021, 11, 21687.	1.6	4
13	The keratinâ€"desmosome scaffold: pivotal role of desmosomes for keratin network morphogenesis. Cellular and Molecular Life Sciences, 2020, 77, 543-558.	2.4	32
14	Current mysteries of pachyonychia congenita. British Journal of Dermatology, 2020, 182, 525-526.	1.4	2
15	Model for Bundling of Keratin Intermediate Filaments. Biophysical Journal, 2020, 119, 65-74.	0.2	9
16	Identification of a Novel Link between the Intermediate Filament Organizer IFO-1 and Cholesterol Metabolism in the Caenorhabditis elegans Intestine. International Journal of Molecular Sciences, 2020, 21, 8219.	1.8	5
17	Regulation of keratin network dynamics by the mechanical properties of the environment in migrating cells. Scientific Reports, 2020, 10, 4574.	1.6	18
18	Inflammation shapes pathogenesis of murine arrhythmogenic cardiomyopathy. Basic Research in Cardiology, 2020, 115, 42.	2.5	39

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19	Intestinal intermediate filament polypeptides in C. elegans: Common and isotype-specific contributions to intestinal ultrastructure and function. Scientific Reports, 2020, 10, 3142.	1.6	23
20	Stabilization of desmoglein-2 binding rescues arrhythmia in arrhythmogenic cardiomyopathy. JCI Insight, 2020, 5, .	2.3	16
21	Hemidesmosomes and Focal Adhesions Treadmill as Separate but Linked Entities during Keratinocyte Migration. Journal of Investigative Dermatology, 2019, 139, 1876-1888.e4.	0.3	24
22	Desmoglein 2 mutation provokes skeletal muscle actin expression and accumulation at intercalated discs in murine hearts. Journal of Cell Science, 2019, 132, .	1.2	9
23	The intestinal intermediate filament network responds to and protects against microbial insults and toxins. Development (Cambridge), 2019, 146, .	1.2	23
24	Keratin intermediate filaments: intermediaries of epithelial cell migration. Essays in Biochemistry, 2019, 63, 521-533.	2.1	34
25	An Algorithm for Individual Intermediate Filament Tracking. Lecture Notes in Computer Science, 2019, , 66-74.	1.0	0
26	Periodic microstructures on bioactive glass surfaces enhance osteogenic differentiation of human mesenchymal stromal cells and promote osteoclastogenesis <i>in vitro</i>. Journal of Biomedical Materials Research - Part A, 2018, 106, 1965-1978.	2.1	6
27	Threonine 150 Phosphorylation of Keratin 5 Is Linked to Epidermolysis Bullosa Simplex and Regulates Filament Assembly and Cell Viability. Journal of Investigative Dermatology, 2018, 138, 627-636.	0.3	23
28	Sex Matters: Interfering with the Oxidative Stress Response in Pachyonychia Congenita. Journal of Investigative Dermatology, 2018, 138, 1019-1022.	0.3	2
29	Ultrastructural changes in endometrial desmosomes of desmoglein 2 mutant mice. Cell and Tissue Research, 2018, 374, 317-327.	1.5	7
30	Desmoglein 2, but not desmocollin 2, protects intestinal epithelia from injury. Mucosal Immunology, 2018, 11, 1630-1639.	2.7	45
31	Cardiomyocyte Hypertrophy in Arrhythmogenic Cardiomyopathy. American Journal of Pathology, 2017, 187, 752-766.	1.9	18
32	Intracellular Motility of Intermediate Filaments. Cold Spring Harbor Perspectives in Biology, 2017, 9, a021980.	2.3	22
33	A rim-and-spoke hypothesis to explain the biomechanical roles for cytoplasmic intermediate filament networks. Journal of Cell Science, 2017, 130, 3437-3445.	1.2	43
34	Mechanical Probing of the Intermediate Filament-Rich Caenorhabditis Elegans Intestine. Methods in Enzymology, 2016, 568, 681-706.	0.4	12
35	Multidimensional Monitoring of Keratin Intermediate Filaments in Cultured Cells and Tissues. Methods in Enzymology, 2016, 568, 59-83.	0.4	2
36	Epithelial Intermediate Filaments: Guardians against Microbial Infection?. Cells, 2016, 5, 29.	1.8	44

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37	Intermediate Filaments as Organizers of Cellular Space: How They Affect Mitochondrial Structure and Function. Cells, 2016, 5, 30.	1.8	57
38	Intermediate Filaments and Polarization in the Intestinal Epithelium. Cells, 2016, 5, 32.	1.8	43
39	Inkjet printed periodical micropatterns made of inert alumina ceramics induce contact guidance and stimulate osteogenic differentiation of mesenchymal stromal cells. Acta Biomaterialia, 2016, 44, 85-96.	4.1	38
40	A novel function for the MAP kinase SMA-5 in intestinal tube stability. Molecular Biology of the Cell, 2016, 27, 3855-3868.	0.9	17
41	Loss of plakoglobin immunoreactivity in intercalated discs in arrhythmogenic right ventricular cardiomyopathy: protein mislocalization versus epitope masking. Cardiovascular Research, 2016, 109, 260-271.	1.8	14
42	Effects of Plectin Depletion on Keratin Network Dynamics and Organization. PLoS ONE, 2016, 11, e0149106.	1.1	29
43	Detection and Quantification of Cytoskeletal Granules. Informatik Aktuell, 2016, , 260-265.	0.4	0
44	Dissection of keratin network formation, turnover and reorganization in living murine embryos. Scientific Reports, 2015, 5, 9007.	1.6	49
45	Keratin Dynamics: Modeling the Interplay between Turnover and Transport. PLoS ONE, 2015, 10, e0121090.	1.1	16
46	A keratin scaffold regulates epidermal barrier formation, mitochondrial lipid composition, and activity. Journal of Cell Biology, 2015, 211, 1057-1075.	2.3	85
47	Desmoglein 2â€"Dependent Arrhythmogenic Cardiomyopathy Is Caused by a Loss of Adhesive Function. Circulation: Cardiovascular Genetics, 2015, 8, 553-563.	5.1	57
48	Distinct Impact of Two Keratin Mutations Causing Epidermolysis Bullosa Simplex on Keratinocyte Adhesion and Stiffness. Journal of Investigative Dermatology, 2015, 135, 2437-2445.	0.3	43
49	Intermediate filaments and the regulation of focal adhesion. Current Opinion in Cell Biology, 2015, 32, 13-20.	2.6	67
50	Skin Fragility and Impaired Desmosomal Adhesion in Mice Lacking All Keratins. Journal of Investigative Dermatology, 2014, 134, 1012-1022.	0.3	48
51	Keratins as the main component for the mechanical integrity of keratinocytes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18513-18518.	3.3	183
52	Keratins control intercellular adhesion involving PKC-Î±â€"mediated desmoplakin phosphorylation. Journal of Cell Biology, 2013, 201, 681-692.	2.3	147
53	Measuring the regulation of keratin filament network dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10664-10669.	3.3	46
54	The novel intestinal filament organizer IFO-1 contributes to epithelial integrity in concert with ERM-1 and DLG-1. Development (Cambridge), 2012, 139, 1851-1862.	1.2	34

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55	Flux-based 3D segmentation of keratin intermediate filaments in confocal laser scanning microscopy. , 2012, , .		4
56	Redistribution of adhering junctions in human endometrial epithelial cells during the implantation window of the menstrual cycle. Histochemistry and Cell Biology, 2012, 137, 777-790.	0.8	40
57	Histological and ultrastructural abnormalities in murine desmoglein 2-mutant hearts. Cell and Tissue Research, 2012, 348, 249-259.	1.5	40
58	Desmoglein 2 mutant mice develop cardiac fibrosis and dilation. Basic Research in Cardiology, 2011, 106, 617-633.	2.5	71
59	"Panta rhei". Bioarchitecture, 2011, 1, 39-44.	1.5	24
60	3D segmentation of keratin intermediate filaments in confocal laser scanning microscopy. , 2011, 2011, 7751-4.		13
61	Cytoskeleton in motion: the dynamics of keratin intermediate filaments in epithelia. Journal of Cell Biology, 2011, 194, 669-678.	2.3	169
62	The ubiquitin ligase CHIP/STUB1 targets mutant keratins for degradation. Human Mutation, 2010, 31, 466-476.	1.1	48
63	The keratin-filament cycle of assembly and disassembly. Journal of Cell Science, 2010, 123, 2266-2272.	1.2	71
64	Fluorescence microscopic imaging and image analysis of the cytoskeleton. , 2010, , .		5
65	3D motion analysis of keratin filaments in living cells. , 2010, , .		2
66	Desmoglein 2-mediated adhesion is required for intestinal epithelial barrier integrity. American Journal of Physiology - Renal Physiology, 2010, 298, G774-G783.	1.6	90
67	Keratins regulate protein biosynthesis through localization of GLUT1 and -3 upstream of AMP kinase and Raptor. Journal of Cell Biology, 2009, 187, 175-184.	2.3	124
68	Intermediate filaments in <i>Caenorhabditis elegans</i>. Cytoskeleton, 2009, 66, 852-864.	4.4	44
69	Actinâ€dependent dynamics of keratin filament precursors. Cytoskeleton, 2009, 66, 976-985.	4.4	63
70	Maintenance of the intestinal tube in Caenorhabditis elegans: the role of the intermediate filament protein IFC-2. Differentiation, 2008, 76, 881-s3.	1.0	44
71	p38 MAPK-dependent shaping of the keratin cytoskeleton in cultured cells. Journal of Cell Biology, 2007, 177, 795-807.	2.3	87
72	Structure and Function of Desmosomes. International Review of Cytology, 2007, 264, 65-163.	6.2	161

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73	Structural and regulatory functions of keratins. Experimental Cell Research, 2007, 313, 2021-2032.	1.2	256
74	Focal adhesions are hotspots for keratin filament precursor formation. Journal of Cell Biology, 2006, 173, 341-348.	2.3	91
75	Synaptic tetraspan vesicle membrane proteins are conserved but not needed for synaptogenesis and neuronal function in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8227-8232.	3.3	28
76	Dissection of keratin dynamics: different contributions of the actin and microtubule systems. European Journal of Cell Biology, 2005, 84, 311-328.	1.6	56
77	Identification of Novel Principles of Keratin Filament Network Turnover in Living Cells. Molecular Biology of the Cell, 2004, 15, 2436-2448.	0.9	86
78	Imaging of Keratin Dynamics during the Cell Cycle and in Response to Phosphatase Inhibition. Methods in Cell Biology, 2004, 78, 321-352.	0.5	17
79	Light-induced Resistance of the Keratin Network to the Filament-disrupting Tyrosine Phosphatase Inhibitor Orthovanadate. Journal of Investigative Dermatology, 2003, 120, 198-203.	0.3	14
80	Induction of rapid and reversible cytokeratin filament network remodeling by inhibition of tyrosine phosphatases. Journal of Cell Science, 2002, 115, 4133-4148.	1.2	79
81	Loss of desmoglein 2 suggests essential functions for early embryonic development and proliferation of embryonal stem cells. European Journal of Cell Biology, 2002, 81, 592-598.	1.6	152
82	Desmosomes: interconnected calcium-dependent structures of remarkable stability with significant integral membrane protein turnover. Journal of Cell Science, 2002, 115, 1717-1732.	1.2	78
83	Desmosomes: interconnected calcium-dependent structures of remarkable stability with significant integral membrane protein turnover. Journal of Cell Science, 2002, 115, 1717-32.	1.2	63
84	In vivo detection of cytokeratin filament network breakdown in cells treated with the phosphatase inhibitor okadaic acid. Cell and Tissue Research, 2001, 306, 277-293.	1.5	42
85	De novo formation of cytokeratin filament networks originates from the cell cortex in A-431 cells. Cytoskeleton, 2001, 50, 33-44.	4.4	32
86	Mice lacking synaptophysin reproduce and form typical synaptic vesicles. Cell and Tissue Research, 1995, 282, 423-433.	1.5	15
87	Activation of the Silent Human Cytokeratin 17 Pseudogene-Promoter Region by Cryptic Enhancer Elements of the Cytokeratin 17 Gene. FEBS Journal, 1994, 225, 61-69.	0.2	20
88	Contributions of cytoplasmic domains of desmosomal cadherins to desmosome assembly and intermediate filament anchorage. Cell, 1993, 72, 561-574.	13.5	175
89	Squamous cell metaplasia in the human lung: molecular characteristics of epithelial stratification. Vigiliae Christianae, 1992, 61, 227-253.	0.1	81
90	Synthesis of cytokeratin 13, a component characteristic of internal stratified epithelia, is not induced in human epidermal tumors. Differentiation, 1989, 42, 111-123.	1.0	51

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91	Topogenesis and sorting of synaptophysin: Synthesis of a synaptic vesicle protein from a gene transfected into nonneuroendocrine cells. Cell, 1989, 59, 433-446.	13.5	92
92	Cytokeratin expression in simple epithelia. Differentiation, 1986, 33, 69-85.	1.0	107