

Roland A Fleck

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,851
citations

147801

31
h-index

128289

60
g-index

68
all docs

68
docs citations

68
times ranked

7203
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of human embryonic stem cell lines by the International Stem Cell Initiative. <i>Nature Biotechnology</i> , 2007, 25, 803-816.	17.5	983
2	Reactive oxygen species regulate axonal regeneration through the release of exosomal NADPH oxidase 2 complexes into injured axons. <i>Nature Cell Biology</i> , 2018, 20, 307-319.	10.3	233
3	Small Extracellular Vesicles Are Key Regulators of Non-cell Autonomous Intercellular Communication in Senescence via the Interferon Protein IFITM3. <i>Cell Reports</i> , 2019, 27, 3956-3971.e6.	6.4	187
4	Use of Opsonophagocytosis for Serological Evaluation of Pneumococcal Vaccines. <i>Vaccine Journal</i> , 2006, 13, 165-169.	3.1	186
5	3D microfluidic liver cultures as a physiological preclinical tool for hepatitis B virus infection. <i>Nature Communications</i> , 2018, 9, 682.	12.8	169
6	DNA binding polarity, dimerization, and ATPase ring remodeling in the CMG helicase of the eukaryotic replisome. <i>ELife</i> , 2014, 3, e03273.	6.0	103
7	A protease cascade regulates release of the human malaria parasite <i>Plasmodium falciparum</i> from host red blood cells. <i>Nature Microbiology</i> , 2018, 3, 447-455.	13.3	96
8	Protein Analysis of Purified Respiratory Syncytial Virus Particles Reveals an Important Role for Heat Shock Protein 90 in Virus Particle Assembly. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1829-1848.	3.8	94
9	A Moving Source of Matrix Components Is Essential for De Novo Basement Membrane Formation. <i>Current Biology</i> , 2017, 27, 3526-3534.e4.	3.9	94
10	Impact of antifreeze proteins and antifreeze glycoproteins on bovine sperm during freeze-thaw. <i>Theriogenology</i> , 2006, 66, 1894-1900.	2.1	89
11	Use of HL-60 Cell Line To Measure Opsonic Capacity of Pneumococcal Antibodies. <i>Vaccine Journal</i> , 2005, 12, 19-27.	3.1	88
12	Parasitophorous vacuole perforation precedes its rupture and rapid host erythrocyte cytoskeleton collapse in <i>Plasmodium falciparum</i> egress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3439-3444.	7.1	84
13	Mitochondria form contact sites with the nucleus to couple prosurvival retrograde response. <i>Science Advances</i> , 2020, 6, .	10.3	79
14	A generic mechanism in <i>Neisseria meningitidis</i> for enhanced resistance against bactericidal antibodies. <i>Journal of Experimental Medicine</i> , 2008, 205, 1423-1434.	8.5	78
15	Cryopreservation-recalcitrance in microalgae: novel approaches to identify and avoid cryo-injury. <i>Journal of Applied Phycology</i> , 2000, 12, 369-377.	2.8	67
16	<i>De novo</i> phosphatidylcholine synthesis is required for autophagosome membrane formation and maintenance during autophagy. <i>Autophagy</i> , 2020, 16, 1044-1060.	9.1	67
17	Gap junction protein expression and cellularity: comparison of immature and adult equine digital tendons. <i>Journal of Anatomy</i> , 2007, 211, 325-334.	1.5	65
18	Bach1 differentially regulates distinct Nrf2-dependent genes in human venous and coronary artery endothelial cells adapted to physiological oxygen levels. <i>Free Radical Biology and Medicine</i> , 2016, 92, 152-162.	2.9	63

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19	Proteomics of HCV virions reveals an essential role for the nucleoporin Nup98 in virus morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2484-2489.	7.1	63
20	Long-term viability of preserved eukaryotic algae. <i>Journal of Applied Phycology</i> , 1997, 9, 121-127.	2.8	61
21	Studies of free radical-mediated cryoinjury in the unicellular green alga <i>Euglena gracilis</i> using a non-destructive hydroxyl radical assay: A novel approach for developing protistan cryopreservation strategies. <i>Free Radical Research</i> , 2000, 32, 157-170.	3.3	52
22	A spiral scaffold underlies cytoadherent knobs in <i>Plasmodium falciparum</i> -infected erythrocytes. <i>Blood</i> , 2016, 127, 343-351.	1.4	50
23	Stall in Canonical Autophagy-Lysosome Pathways Prompts Nucleophagy-Based Nuclear Breakdown in Neurodegeneration. <i>Current Biology</i> , 2017, 27, 3626-3642.e6.	3.9	47
24	In vitro culture and conservation of microalgae: Applications for aquaculture, biotechnology and environmental research. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1999, 35, 127-136.	2.1	44
25	In vivo uptake of an experimental microencapsulated diphtheria vaccine following sub-cutaneous immunisation. <i>Vaccine</i> , 2004, 22, 2430-2437.	3.8	44
26	Lentiviral Engineered Fibroblasts Expressing Codon-Optimized COL7A1 Restore Anchoring Fibrils in RDEB. <i>Journal of Investigative Dermatology</i> , 2016, 136, 284-292.	0.7	42
27	Current approaches and future role of high content imaging in safety sciences and drug discovery. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2014, 31, 479-493.	1.5	42
28	Wbp2 is required for normal glutamatergic synapses in the cochlea and is crucial for hearing. <i>EMBO Molecular Medicine</i> , 2016, 8, 191-207.	6.9	41
29	Glycocalyx sialic acids regulate Nrf2-mediated signaling by fluid shear stress in human endothelial cells. <i>Redox Biology</i> , 2021, 38, 101816.	9.0	38
30	The effect of sterilization methods on electronspun poly(lactide-co-glycolide) and subsequent adhesion efficiency of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 700-708.	3.4	35
31	A Distance-Dependent Distribution of Presynaptic Boutons Tunes Frequency-Dependent Dendritic Integration. <i>Neuron</i> , 2018, 99, 275-282.e3.	8.1	34
32	Maturation alterations in gap junction expression and associated collagen synthesis in response to tendon function. <i>Matrix Biology</i> , 2009, 28, 311-323.	3.6	33
33	Organic cation transporter 1 (OCT1) is involved in pentamidine transport at the human and mouse blood-brain barrier (BBB). <i>PLoS ONE</i> , 2017, 12, e0173474.	2.5	31
34	Cellular dissection of malaria parasite invasion of human erythrocytes using viable <i>Plasmodium knowlesi</i> merozoites. <i>Scientific Reports</i> , 2018, 8, 10165.	3.3	26
35	OPTIMIZATION OF NB-4 AND HL-60 DIFFERENTIATION FOR USE IN OPSONOPHAGOCYTOSIS ASSAYS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2003, 39, 235.	1.5	25
36	Application of PLGA/FGF-2 coaxial microfibers in spinal cord tissue engineering: an <i>in vitro</i> and <i>in vivo</i> investigation. <i>Regenerative Medicine</i> , 2018, 13, 785-801.	1.7	25

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37	Distance-dependent gradient in NMDAR-driven spine calcium signals along tapering dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1986-E1995.	7.1	24
38	Protein coated microcrystals formulated with model antigens and modified with calcium phosphate exhibit enhanced phagocytosis and immunogenicity. <i>Vaccine</i> , 2014, 32, 4234-4242.	3.8	23
39	Effects of Germline VHL Deficiency on Growth, Metabolism, and Mitochondria. <i>New England Journal of Medicine</i> , 2020, 382, 835-844.	27.0	23
40	Inner ear tissue preservation by rapid freezing: Improving fixation by high-pressure freezing and hybrid methods. <i>Hearing Research</i> , 2014, 315, 49-60.	2.0	21
41	Association of intracellular and synaptic organization in cochlear inner hair cells revealed by 3D electron microscopy. <i>Journal of Cell Science</i> , 2015, 128, 2529-40.	2.0	21
42	Characterisation of cryoinjury in <i>Euglena gracilis</i> using flow-cytometry and cryomicroscopy. <i>Cryobiology</i> , 2006, 52, 261-268.	0.7	19
43	Cryo-injury in algae and the implications this has to the conservation of micro-algae. <i>Microalgae Biotechnology</i> , 2015, 1, .	1.0	18
44	Malaria Parasite Schizont Egress Antigen-1 Plays an Essential Role in Nuclear Segregation during Schizogony. <i>MBio</i> , 2021, 12, .	4.1	17
45	Tunable Ultra-high Aspect Ratio Nanorod Architectures grown on Porous Substrate via Electromigration. <i>Scientific Reports</i> , 2016, 6, 22272.	3.3	15
46	Human Mesenchymal Stromal Cells Engineered to Express Collagen VII Can Restore Anchoring Fibrils in Recessive Dystrophic Epidermolysis Bullosa Skin Graft Chimeras. <i>Journal of Investigative Dermatology</i> , 2020, 140, 121-131.e6.	0.7	13
47	Enhanced sensitivity to Botulinum type A neurotoxin of human neuroblastoma SH-SY5Y cells after differentiation into mature neuronal cells. <i>Botulinum Journal</i> , 2011, 2, 30.	0.2	11
48	Maternal Larp6 controls oocyte development, chorion formation and elevation. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	11
49	<i>Pseudomonas aeruginosa</i> adapts to octenidine via a combination of efflux and membrane remodelling. <i>Communications Biology</i> , 2021, 4, 1058.	4.4	8
50	Hair Follicle Miniaturization in a Woolly Hair Nevus. <i>American Journal of Dermatopathology</i> , 2016, 38, 239-243.	0.6	7
51	Mutations in EPHB4 cause human venous valve aplasia. <i>JCI Insight</i> , 2021, 6, .	5.0	7
52	The Biosynthesis of Infrared-Emitting Quantum Dots in <i>Allium Fistulosum</i> . <i>Scientific Reports</i> , 2016, 6, 20480.	3.3	6
53	Low-Temperature Electron Microscopy: Techniques and Protocols. <i>Methods in Molecular Biology</i> , 2015, 1257, 243-274.	0.9	6
54	Evaluation of adenyl cyclase toxin constructs from <i>Bordetella pertussis</i> as candidate vaccine components in an in vitro model of complement-dependent intraphagocytic killing. <i>Vaccine</i> , 2006, 24, 4794-4803.	3.8	5

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55	Confocal microscopy study of pertussis toxin and toxoids on CHO-cells. Human Vaccines and Immunotherapeutics, 2013, 9, 332-338.	3.3	5
56	TatA complexes exhibit a marked change in organisation in response to expression of the TatBC complex. Biochemical Journal, 2017, 474, 1495-1508.	3.7	3
57	Observation of metal nanoparticles at atomic resolution in Pt-based cancer therapeutics. Journal of Microscopy, 2018, 270, 92-97.	1.8	3
58	Detailed hair shaft analysis in a man with delayed-onset Chediak-Higashi syndrome. British Journal of Dermatology, 2020, 182, 223-225.	1.5	2
59	Development of functional cell-based assays as replacement assays for botulinum toxins and antitoxins. Toxicon, 2013, 68, 96.	1.6	0
60	Microscopy on Drugs: Characterization and Quantification of Pt-based Pharmaceuticals using the STEM.. Microscopy and Microanalysis, 2019, 25, 716-717.	0.4	0
61	Abstract 2897: Phosphatidylcholine synthesis is required for autophagosome membrane formation and maintenance during autophagy. , 2015, , .		0