Zenon Rajfur

List of Publications by Year
in descending order

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74 papers	3,090 citations	172457 29 h-index	168389 53 g-index
77 all docs	77 docs citations	77 times ranked	5201 citing authors

#	Article	IF	Citations
1	JNK phosphorylates paxillin and regulates cell migration. Nature, 2003, 424, 219-223.	27.8	442
2	Talin phosphorylation by Cdk5 regulates Smurf1-mediated talin head ubiquitylation and cell migration. Nature Cell Biology, 2009, 11, 624-630.	10.3	182
3	Simultaneous Stretching and Contraction of Stress Fibers In Vivo. Molecular Biology of the Cell, 2004, 15, 3497-3508.	2.1	176
4	Dissecting the link between stress fibres and focal adhesions by CALI with EGFP fusion proteins. Nature Cell Biology, 2002, 4, 286-293.	10.3	174
5	Entry of Human Coronavirus NL63 into the Cell. Journal of Virology, 2018, 92, .	3.4	162
6	Spatial and Temporal Regulation of Focal Adhesion Kinase Activity in Living Cells. Molecular and Cellular Biology, 2008, 28, 201-214.	2.3	157
7	Chromophore-assisted laser inactivation in cell biology. Trends in Cell Biology, 2008, 18, 443-450.	7.9	116
8	APOBEC3-mediated restriction of RNA virus replication. Scientific Reports, 2018, 8, 5960.	3.3	103
9	Early events during human coronavirus OC43 entry to the cell. Scientific Reports, 2018, 8, 7124.	3.3	101
10	Multiple paxillin binding sites regulate FAK function. Journal of Molecular Signaling, 2008, 3, 1.	0.5	79
11	Local Photorelease of Caged Thymosin Î²4 in Locomoting Keratocytes Causes Cell Turning. Journal of Cell Biology, 2001, 153, 1035-1048.	5.2	75
12	Induction of cortical oscillations in spreading cells by depolymerization of microtubules. Cytoskeleton, 2001, 48, 235-244.	4.4	74
13	Defects in lysosomal maturation facilitate the activation of innate sensors in systemic lupus erythematosus. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2142-51.	7.1	70
14	Microscope-based techniques to study cell adhesion and migration. Nature Cell Biology, 2002, 4, E91-E96.	10.3	67
15	Immobilization of the Type XIV Myosin Complex in Toxoplasma gondii. Molecular Biology of the Cell, 2007, 18, 3039-3046.	2.1	65
16	Canine Respiratory Coronavirus, Bovine Coronavirus, and Human Coronavirus OC43: Receptors and Attachment Factors. Viruses, 2019, 11, 328.	3.3	63
17	Influence of the presence of atrazine in water on the in-vivo delayed luminescence of Acetabularia acetabulum. Journal of Photochemistry and Photobiology B: Biology, 1996, 32, 11-17.	3.8	60
18	PTP-PEST Couples Membrane Protrusion and Tail Retraction via VAV2 and p190RhoGAP. Journal of Biological Chemistry, 2006, 281, 11627-11636.	3.4	56

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19	Replication of Severe Acute Respiratory Syndrome Coronavirus 2 in Human Respiratory Epithelium. Journal of Virology, 2020, 94, .	3.4	51
20	AFM-based detection of glycocalyx degradation and endothelial stiffening in the db/db mouse model of diabetes. Scientific Reports, 2017, 7, 15951.	3.3	44
21	Adhesive protein-mediated cross-talk between Candida albicans and Porphyromonas gingivalis in dual species biofilm protects the anaerobic bacterium in unfavorable oxic environment. Scientific Reports, 2019, 9, 4376.	3.3	44
22	Stress-induced photon emission from perturbed organisms. Experientia, 1992, 48, 1041-1058.	1.2	41
23	Tenascin C interacts with Ecto-5â€²-nucleotidase (eN) and regulates adenosine generation in cancer cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2008, 1782, 35-40.	3.8	37
24	Novel coronavirus-like particles targeting cells lining the respiratory tract. PLoS ONE, 2018, 13, e0203489.	2.5	36
25	Excitatory orexinergic innervation of rat nucleus incertus â€“ Implications for ascending arousal, motivation and feeding control. Neuropharmacology, 2015, 99, 432-447.	4.1	35
26	The activity of bacterial peptidylarginine deiminase is important during formation of dual-species biofilm by periodontal pathogen Porphyromonas gingivalis and opportunistic fungus Candida albicans. Pathogens and Disease, 2018, 76, .	2.0	34
27	Inhibition of oxytocin and vasopressin neuron activity in rat hypothalamic paraventricular nucleus by relaxinâ€3â€“RXFP3 signalling. Journal of Physiology, 2017, 595, 3425-3447.	2.9	33
28	Mechanism of Chromophore Assisted Laser Inactivation Employing Fluorescent Proteins. Analytical Chemistry, 2009, 81, 1755-1761.	6.5	31
29	Canine respiratory coronavirus employs caveolin-1-mediated pathway for internalization to HRT-18G cells. Veterinary Research, 2018, 49, 55.	3.0	31
30	In Situ Photoactivation of a Caged Phosphotyrosine Peptide Derived from Focal Adhesion Kinase Temporarily Halts Lamellar Extension of Single Migrating Tumor Cells. Journal of Biological Chemistry, 2005, 280, 22091-22101.	3.4	29
31	The Impact of the Ketogenic Diet on Glial Cells Morphology. A Quantitative Morphological Analysis. Neuroscience, 2019, 413, 239-251.	2.3	28
32	Zika virus: mapping and reprogramming the entry. Cell Communication and Signaling, 2019, 17, 41.	6.5	22
33	Metformin attenuates adhesion between cancer and endothelial cells in chronic hyperglycemia by recovery of the endothelial glycocalyx barrier. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129533.	2.4	21
34	Cyanidinâ€3â€glucoside binds to talin and modulates colon cancer cell adhesions and 3D growth. FASEB Journal, 2020, 34, 2227-2237.	0.5	21
35	Mechanical and Biochemical Modeling of Cortical Oscillations in Spreading Cells. Biophysical Journal, 2008, 94, 4605-4620.	0.5	18
36	Berberine Hampers Influenza A Replication through Inhibition of MAPK/ERK Pathway. Viruses, 2020, 12, 344.	3.3	18

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37	Precise mass determination of single cell with cantilever-based microbiosensor system. PLoS ONE, 2017, 12, e0188388.	2.5	17
38	Glutaraldehyde fixation preserves the trend of elasticity alterations for endothelial cells exposed to <scp>TNF</scp>â€Î±. Cytoskeleton, 2015, 72, 124-130.	2.0	16
39	Atp7a and Atp7b regulate copper homeostasis in developing male germ cells in mice. Metallomics, 2017, 9, 1288-1303.	2.4	14
40	mTORC2 Activity Disrupts Lysosome Acidification in Systemic Lupus Erythematosus by Impairing Caspase-1 Cleavage of Rab39a. Journal of Immunology, 2018, 201, 371-382.	0.8	14
41	Cdk5â€mediated phosphorylation regulates phosphatidylinositol 4â€phosphate 5â€kinase type I Î³ 90 activity and cell invasion. FASEB Journal, 2019, 33, 631-642.	0.5	14
42	RhoA Regulates Calcium-Independent Periodic Contractions of the Cell Cortex. Biophysical Journal, 2010, 99, 1053-1063.	0.5	13
43	Studies of unicellular microorganisms Saccharomyces cerevisiae by means of positron annihilation lifetime spectroscopy. Nukleonika, 2015, 60, 749-753.	0.8	13
44	Cat flu: Broad spectrum polymeric antivirals. Antiviral Research, 2019, 170, 104563.	4.1	12
45	Cellular architecture and migration behavior of fibroblast cells on polyhydroxyoctanoate (PHO): A natural polymer of bacterial origin. Biopolymers, 2019, 110, e23324.	2.4	12
46	Effects of brief inhibition of the ventral tegmental area dopamine neurons on the cocaine seeking during abstinence. Addiction Biology, 2020, 25, e12826.	2.6	12
47	RHOA-mediated mechanical force generation through Dectin-1. Journal of Cell Science, 2020, 133, .	2.0	12
48	Copper therapy reduces intravascular hemolysis and derepresses ferroportin in mice with mosaic mutation (Atp7a mo-ms): An implication for copper-mediated regulation of the Slc40a1 gene expression. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1410-1421.	3.8	11
49	Electrophysiology and distribution of oxytocin and vasopressin neurons in the hypothalamic paraventricular nucleus: a study in male and female rats. Brain Structure and Function, 2020, 225, 285-304.	2.3	11
50	Raman Research on Bleomycin-Induced DNA Strand Breaks and Repair Processes in Living Cells. International Journal of Molecular Sciences, 2022, 23, 3524.	4.1	10
51	Identification of perivascular and stromal mesenchymal stem/progenitor cells in porcine endometrium. Reproduction in Domestic Animals, 2018, 53, 333-343.	1.4	9
52	Role of the kidneys in the redistribution of heme-derived iron during neonatal hemolysis in mice. Scientific Reports, 2019, 9, 11102.	3.3	9
53	Alpha1-adrenergic receptor blockade in the ventral tegmental area modulates conditional stimulus-induced cocaine seeking. Neuropharmacology, 2019, 158, 107680.	4.1	9
54	Insights into In Vitro Wound Closure on Two Biopolyestersâ€"Polylactide and Polyhydroxyoctanoate. Materials, 2020, 13, 2793.	2.9	8

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55	Spectra of the formaldehyde-induced ultraweak luminescence from yeast cells. Journal of Photochemistry and Photobiology B: Biology, 1993, 21, 29-35.	3.8	7
56	Electronic Cameras for Low-Light Microscopy. Methods in Cell Biology, 2003, 72, 103-132.	1.1	7
57	Increasing AFM colloidal probe accuracy by optical tweezers. Scientific Reports, 2021, 11, 509.	3.3	7
58	The influence of environmental factors on the ultraweak luminescence from yeast Saccharomyces cerevisiae. Bioelectrochemistry, 1992, 27, 57-61.	1.0	6
59	Temperature dependence of the ultraweak spontaneous photon emission from soya seeds. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1993, 15, 1361-1370.	0.4	6
60	Effect of substrate elasticity on macroscopic parameters of fish keratocyte migration. Physical Biology, 2016, 13, 054001.	1.8	5
61	Molecular machinery providing copper bioavailability for spermatozoa along the epididymial tubule in mouse. Biology of Reproduction, 2019, 100, 1505-1520.	2.7	5
62	Exacerbation of Neonatal Hemolysis and Impaired Renal Iron Handling in Heme Oxygenase 1-Deficient Mice. International Journal of Molecular Sciences, 2020, 21, 7754.	4.1	4
63	Substrate Stiffness Mediates Formation of Novel Cytoskeletal Structures in Fibroblasts during Cellâ€“Microspheres Interaction. International Journal of Molecular Sciences, 2021, 22, 960.	4.1	4
64	Photon emission from chemically perturbed yeast cells. Luminescence, 1994, 9, 59-63.	0.0	3
65	Talin2 mediates secretion and trafficking of matrix metallopeptidase 9 during invadopodium formation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118693.	4.1	3
66	Roles of Talin2 in Traction Force Generation, Tumor Metastasis and Cardiovascular Integrity. Current Protein and Peptide Science, 2018, 19, 1071-1078.	1.4	3
67	Changes in ATP level and iron-induced ultra-weak photon emission in bull spermatozoa, caused by membrane peroxidation during thermal stress. Acta Biochimica Polonica, 1997, 44, 131-8.	0.5	3
68	From fixed-dried to wet-fixed to liveÂâ€“ comparative super-resolution microscopy of liver sinusoidal endothelial cell fenestrations. Nanophotonics, 2022, .	6.0	3
69	Vimentin Cytoskeleton Architecture Analysis on Polylactide and Polyhydroxyoctanoate Substrates for Cell Culturing. International Journal of Molecular Sciences, 2021, 22, 6821.	4.1	2
70	BatchDeconvolution: a Fiji plugin for increasing deconvolution workflow. Bio-Algorithms and Med-Systems, 2020, 16, .	2.4	2
71	The influence of environmental factors on the ultraweak luminescence from yeast Saccharomyces cerevisiae. Journal of Electroanalytical Chemistry, 1992, 342, 57-61.	3.8	1
72	Migration-related Protein Activity in Cell Electrotaxis. Acta Physica Polonica B, 2017, 48, 1727.	0.8	1

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73	Mesencephalic Astrocyte-Derived Neurotrophic Factor Regulates Morphology of Pigment-Dispersing Factor-Positive Clock Neurons and Circadian Neuronal Plasticity in Drosophila melanogaster. Frontiers in Physiology, 2021, 12, 705183.	2.8	0
74	PTP-PEST couples membrane protrusion and tail retraction via VAV2 and p190RhoGAP. VOLUME 281 (2006) PAGES 11627-11636. Journal of Biological Chemistry, 2006, 281, 38967.	3.4	0