

Petr Kalab

List of Publications by Year in descending order

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32
papers

3,324
citations

279798

23
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

3537
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of a Ran-GTP Gradient in Interphase and Mitotic <i>Xenopus</i> Egg Extracts. <i>Science</i> , 2002, 295, 2452-2456.	12.6	496
2	Phosphoproteome Analysis of Capacitated Human Sperm. <i>Journal of Biological Chemistry</i> , 2003, 278, 11579-11589.	3.4	447
3	Analysis of a RanGTP-regulated gradient in mitotic somatic cells. <i>Nature</i> , 2006, 440, 697-701.	27.8	339
4	The Ran GTPase regulates mitotic spindle assembly. <i>Current Biology</i> , 1999, 9, 481-484.	3.9	330
5	The RanGTP gradient â€“ a GPS for the mitotic spindle. <i>Journal of Cell Science</i> , 2008, 121, 1577-1586.	2.0	259
6	A centriole- and RanGTP-independent spindle assembly pathway in meiosis I of vertebrate oocytes. <i>Journal of Cell Biology</i> , 2007, 176, 295-305.	5.2	219
7	Importazole, a Small Molecule Inhibitor of the Transport Receptor Importin-Î². <i>ACS Chemical Biology</i> , 2011, 6, 700-708.	3.4	211
8	Selectivity mechanism of the nuclear pore complex characterized by single cargo tracking. <i>Nature</i> , 2010, 467, 600-603.	27.8	140
9	C9orf72 arginine-rich dipeptide repeat proteins disrupt karyopherin-mediated nuclear import. <i>ELife</i> , 2020, 9, .	6.0	91
10	Relative contributions of chromatin and kinetochores to mitotic spindle assembly. <i>Journal of Cell Biology</i> , 2009, 187, 43-51.	5.2	81
11	Characterization of Polo-like Kinase 1 during Meiotic Maturation of the Mouse Oocyte. <i>Developmental Biology</i> , 2000, 220, 392-400.	2.0	76
12	Epidermal Growth Factor-Receptor Tyrosine Kinase Activity Regulates Expansion of Porcine Oocyte-Cumulus Cell Complexes In Vitro. <i>Biology of Reproduction</i> , 2003, 68, 797-803.	2.7	75
13	Confinement hinders motility by inducing RhoA-mediated nuclear influx, volume expansion, and blebbing. <i>Journal of Cell Biology</i> , 2019, 218, 4093-4111.	5.2	64
14	Dynamic organelle distribution initiates actin-based spindle migration in mouse oocytes. <i>Nature Communications</i> , 2020, 11, 277.	12.8	44
15	Mitotic Spindle Assembly around RCC1-Coated Beads in <i>Xenopus</i> Egg Extracts. <i>PLoS Biology</i> , 2011, 9, e1001225.	5.6	41
16	RCC1-dependent activation of Ran accelerates cell cycle and DNA repair, inhibiting DNA damageâ€“induced cell senescence. <i>Molecular Biology of the Cell</i> , 2016, 27, 1346-1357.	2.1	39
17	Dorsoventral polarity directs cell responses to migration track geometries. <i>Science Advances</i> , 2020, 6, eaba6505.	10.3	39
18	Modifications of the Mouse Zona Pellucida during Oocyte Maturation: Inhibitory Effects of Follicular Fluid, Fetuin, and Î±2HS-Glycoprotein. <i>Biology of Reproduction</i> , 1993, 49, 561-567.	2.7	38

#	ARTICLE	IF	CITATIONS
19	Chromosomal gain promotes formation of a steep RanGTP gradient that drives mitosis in aneuploid cells. <i>Journal of Cell Biology</i> , 2013, 200, 151-161.	5.2	35
20	Ran GTP and importin β^2 regulate meiosis I spindle assembly and function in mouse oocytes. <i>EMBO Journal</i> , 2020, 39, e101689.	7.8	31
21	Modifications of the Mouse Zona Pellucida during Oocyte Maturation and Egg Activation: Effects of Newborn Calf Serum and Fetuin1. <i>Biology of Reproduction</i> , 1991, 45, 783-787.	2.7	29
22	Symmetry breaking in hydrodynamic forces drives meiotic spindle rotation in mammalian oocytes. <i>Science Advances</i> , 2020, 6, eaaz5004.	10.3	29
23	Microtubule assembly by the Apc protein is regulated by importin- β^2 RanGTP. <i>Journal of Cell Science</i> , 2010, 123, 736-746.	2.0	27
24	The design of Förster (fluorescence) resonance energy transfer (FRET)-based molecular sensors for Ran GTPase. <i>Methods</i> , 2010, 51, 220-232.	3.8	27
25	Rapid, nonradioactive, and quantitative method to analyze zona pellucida modifications in single mouse eggs. <i>Molecular Reproduction and Development</i> , 1994, 38, 91-93.	2.0	23
26	Fertilisation competence of bovine normally matured or aged oocytes derived from different antral follicles: morphology, protein synthesis, H1 and MBP kinase activity. <i>Zygote</i> , 1997, 5, 235-246.	1.1	21
27	Spatial Distribution and Mobility of the Ran GTPase in Live Interphase Cells. <i>Biophysical Journal</i> , 2009, 97, 2164-2178.	0.5	20
28	The Role of RanGTP Gradient in Vertebrate Oocyte Maturation. <i>Results and Problems in Cell Differentiation</i> , 2011, 53, 235-267.	0.7	18
29	Emerging Therapies and Novel Targets for TDP-43 Proteinopathy in ALS/FTD. <i>Neurotherapeutics</i> , 2022, 19, 1061-1084.	4.4	17
30	LOX is a novel mitotic spindle-associated protein essential for mitosis. <i>Oncotarget</i> , 2016, 7, 29023-29035.	1.8	7
31	Chapter 21 Quantitative Fluorescence Lifetime Imaging in Cells as a Tool to Design Computational Models of Ran-Regulated Reaction Networks. <i>Methods in Cell Biology</i> , 2008, 89, 541-568.	1.1	4
32	Nuclear Transport Assays in Permeabilized Mouse Cortical Neurons. <i>Journal of Visualized Experiments</i> , 2021, . .	0.3	3