Xin Zhang

List of Publications by Year in descending order

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70 papers	2,408 citations	236925 25 h-index	223800 46 g-index
74 all docs	74 docs citations	74 times ranked	3444 citing authors

#	Article	IF	Citations
1	Aurora B Phosphorylates Centromeric MCAK and Regulates Its Localization and Microtubule Depolymerization Activity. Current Biology, 2004, 14, 273-286.	3.9	429
2	Characterization of Torin2, an ATP-Competitive Inhibitor of mTOR, ATM, and ATR. Cancer Research, 2013, 73, 2574-2586.	0.9	170
3	Magnetic Fields and Reactive Oxygen Species. International Journal of Molecular Sciences, 2017, 18, 2175.	4.1	144
4	Aurora A Phosphorylates MCAK to Control Ran-dependent Spindle Bipolarity. Molecular Biology of the Cell, 2008, 19, 2752-2765.	2.1	113
5	Aurora B Phosphorylates Multiple Sites on Mitotic Centromere-associated Kinesin to Spatially and Temporally Regulate Its Function. Molecular Biology of the Cell, 2007, 18, 3264-3276.	2.1	111
6	Semiconductor quantum computation. National Science Review, 2019, 6, 32-54.	9.5	102
7	G proteinâ€coupled receptors participate in cytokinesis. Cytoskeleton, 2012, 69, 810-818.	2.0	69
8	Biological Effects of Static Magnetic Fields. , 2017, , .		52
9	27 T ultra-high static magnetic field changes orientation and morphology of mitotic spindles in human cells. ELife, 2017, 6, .	6.0	48
10	Cell type- and density-dependent effect of 1 T static magnetic field on cell proliferation. Oncotarget, 2017, 8, 13126-13141.	1.8	48
11	Effects of X-irradiation on mitochondrial DNA damage and its supercoiling formation change. Mitochondrion, 2011, 11, 886-892.	3.4	47
12	Moderate and strong static magnetic fields directly affect EGFR kinase domain orientation to inhibit cancer cell proliferation. Oncotarget, 0, 7, 41527-41539.	1.8	45
13	CaMKIIÎ³-mediated inactivation of the Kin I kinesin MCAK is essential for bipolar spindle formation. EMBO Journal, 2005, 24, 1256-1266.	7.8	44
14	ULK1-ATG13 and their mitotic phospho-regulation by CDK1 connect autophagy to cell cycle. PLoS Biology, 2020, 18, e3000288.	5.6	43
15	Magnetic field direction differentially impacts the growth of different cell types. Electromagnetic Biology and Medicine, 2018, 37, 114-125.	1.4	41
16	The Interplay of the N- and C-Terminal Domains of MCAK Control Microtubule Depolymerization Activity and Spindle Assembly. Molecular Biology of the Cell, 2007, 18, 282-294.	2.1	40
17	Discovery of a Selective Irreversible BMX Inhibitor for Prostate Cancer. ACS Chemical Biology, 2013, 8, 1423-1428.	3.4	40
18	Moderate intensity static magnetic fields affect mitotic spindles and increase the antitumor efficacy of 5-FU and Taxol. Bioelectrochemistry, 2016, 109, 31-40.	4.6	38

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19	Qubits based on semiconductor quantum dots. Chinese Physics B, 2018, 27, 020305.	1.4	37
20	p53-dependent elimination of aneuploid mitotic offspring by entosis. Cell Death and Differentiation, 2021, 28, 799-813.	11.2	37
21	Dopamine Receptor Subtypes Differentially Regulate Autophagy. International Journal of Molecular Sciences, 2018, 19, 1540.	4.1	36
22	Effects of 3.5â€“23.0â€¯T static magnetic fields on mice: A safety study. NeuroImage, 2019, 199, 273-280.	4.2	34
23	Kinases Involved in Both Autophagy and Mitosis. International Journal of Molecular Sciences, 2017, 18, 1884.	4.1	33
24	Autophagic flux is highly active in early mitosis and differentially regulated throughout the cell cycle. Oncotarget, 2016, 7, 39705-39718.	1.8	32
25	G protein Î³ subunit 7 induces autophagy and inhibits cell division. Oncotarget, 2016, 7, 24832-24847.	1.8	32
26	Enhancer-Like Activity of a Brome Mosaic Virus RNA Promoter. Journal of Virology, 2003, 77, 1830-1839.	3.4	30
27	Cellular ATP levels are affected by moderate and strong static magnetic fields. Bioelectromagnetics, 2018, 39, 352-360.	1.6	30
28	Effect of static magnetic field on DNA synthesis: The interplay between DNA chirality and magnetic field leftâ€right asymmetry. FASEB BioAdvances, 2020, 2, 254-263.	2.4	27
29	An upward 9.4 T static magnetic field inhibits DNA synthesis and increases ROS-P53 to suppress lung cancer growth. Translational Oncology, 2021, 14, 101103.	3.7	26
30	Dopamine receptor D ₃ regulates endocytic sorting by a Prazosin-sensitive interaction with the coatomer COPI. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12485-12490.	7.1	25
31	Ammonia Induces Autophagy through Dopamine Receptor D3 and MTOR. PLoS ONE, 2016, 11, e0153526.	2.5	24
32	Assessment of the Effect of Trichostatin A on HeLa Cells through FT-IR Spectroscopy. Analytical Chemistry, 2015, 87, 2511-2517.	6.5	23
33	1 T moderate intensity static magnetic field affects Akt/mTOR pathway and increases the antitumor efficacy of mTOR inhibitors in CNE-2Z cells. Science Bulletin, 2015, 60, 2120-2128.	9.0	22
34	Non-traditional roles of G protein-coupled receptors in basic cell biology. Molecular BioSystems, 2013, 9, 586-595.	2.9	21
35	Simultaneous inhibition of Vps34 kinase would enhance PI3KÎ´ inhibitor cytotoxicity in the B-cell malignancies. Oncotarget, 2016, 7, 53515-53525.	1.8	19
36	Safety evaluation of mice exposed to 7.0â€“33.0â€‰T highâ€static magnetic fields. Journal of Magnetic Resonance Imaging, 2021, 53, 1872-1884.	3.4	19

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37	Static Magnetic Fields Reduce Oxidative Stress to Improve Wound Healing and Alleviate Diabetic Complications. Cells, 2022, 11, 443.	4.1	18
38	A Static Magnetic Field Improves Iron Metabolism and Prevents High-Fat-Diet/Streptozocin-Induced Diabetes. Innovation(China), 2021, 2, 100077.	9.1	17
39	The Antiâ€Depressive Effects of Ultraâ€High Static Magnetic Field. Journal of Magnetic Resonance Imaging, 2022, 56, 354-365.	3.4	16
40	Discovery of a Highly Selective STK16 Kinase Inhibitor. ACS Chemical Biology, 2016, 11, 1537-1543.	3.4	15
41	STK16 regulates actin dynamics to control Golgi organization and cell cycle. Scientific Reports, 2017, 7, 44607.	3.3	14
42	Sub-molecular features of single proteins in solution resolved with scanning tunneling microscopy. Nano Research, 2016, 9, 2551-2560.	10.4	12
43	ROS Reduction Does Not Decrease the Anticancer Efficacy of X-Ray in Two Breast Cancer Cell Lines. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-12.	4.0	12
44	The Analgesic Effects of Static Magnetic Fields. Bioelectromagnetics, 2021, 42, 115-127.	1.6	12
45	Impact of Static Magnetic Fields (SMFs) on Cells. , 2017, , 81-131.		11
46	Alternating Magnetic Field-Responsive Nanoplatforms for Controlled Imidacloprid Release and Sustainable Pest Control. ACS Sustainable Chemistry and Engineering, 2021, 9, 10491-10502.	6.7	11
47	Short- and long-term effects of 3.5â€“23.0 Tesla ultra-high magnetic fields on mice behaviour. European Radiology, 2022, 32, 5596-5605.	4.5	10
48	Effects of 3.7 Tâ€“24.5 T high magnetic fields on tumor-bearing mice. Chinese Physics B, 2018, 27, 118703.	1.4	9
49	Serine/Threonine Protein Kinase STK16. International Journal of Molecular Sciences, 2019, 20, 1760.	4.1	9
50	Magnetic Susceptibility Difference-Induced Nucleus Positioning in Gradient Ultrahigh Magnetic Field. Biophysical Journal, 2019, 118, 578-585.	0.5	9
51	Moderate Static Magnet Fields Suppress Ovarian Cancer Metastasis via ROS-Mediated Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-18.	4.0	9
52	Stable RNA structures can repress RNA synthesis in vitro by the brome mosaic virus replicase. Rna, 2003, 9, 555-565.	3.5	8
53	Using L-STM to directly visualize enzymatic self-assembly/disassembly of nanofibers. Nanoscale, 2016, 8, 15142-15146.	5.6	8
54	Moderate intensity low frequency rotating magnetic field inhibits breast cancer growth in mice. Electromagnetic Biology and Medicine, 2018, 37, 192-201.	1.4	8

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55	Exogenously Triggered Nanozyme for Real-Time Magnetic Resonance Imaging-Guided Synergistic Cascade Tumor Therapy. ACS Applied Materials & Interfaces, 2022, 14, 29650-29658.	8.0	8
56	ULK1 inhibitor induces spindle microtubule disorganization and inhibits phosphorylation of Ser10 of histone H3. FEBS Open Bio, 2020, 10, 2452-2463.	2.3	7
57	Characterization of selective and potent PI3KÎ´ inhibitor (PI3KD-IN-015) for B-Cell malignances. Oncotarget, 2016, 7, 32641-32651.	1.8	7
58	An Operation Guide of Si-MOS Quantum Dots for Spin Qubits. Nanomaterials, 2021, 11, 2486.	4.1	5
59	A Rationally Designed Building Block of the Putative Magnetoreceptor MagR. Bioelectromagnetics, 2022, 43, 317-326.	1.6	5
60	Chromosome Segregation: Correcting Improperly Attached Chromosomes. Current Biology, 2006, 16, R677-R679.	3.9	4
61	Autophagy in mitotic animal cells. Science Bulletin, 2016, 61, 105-107.	9.0	4
62	6-mT 0â€“120-Hz magnetic fields differentially affect cellular ATP levels. Environmental Science and Pollution Research, 2018, 25, 28237-28247.	5.3	4
63	Tyr198 is the Essential Autophosphorylation Site for STK16 Localization and Kinase Activity. International Journal of Molecular Sciences, 2019, 20, 4852.	4.1	4
64	Phospho-regulation and function of ULK1-ATG13 during the cell cycle. Autophagy, 2021, 17, 1054-1056.	9.1	4
65	Effects of Moderate to High Static Magnetic Fields on Reproduction. Bioelectromagnetics, 2022, 43, 278-291.	1.6	4
66	Parameters of Magnetic Fields and Their Differential Biological Effects. , 2017, , 3-25.		3
67	Effects of static magnetic fields on eukaryotic cytoskeleton. Chinese Science Bulletin, 2019, 64, 748-760.	0.7	2
68	Using Gradient Magnetic Fields to Control the Size and Uniformity of Iron Oxide Nanoparticles for Magnetic Resonance Imaging. ACS Applied Nano Materials, 0, , .	5.0	2
69	Opportunities and challenges of the interdisciplinary research of high magnetic fields and life sciences & healthcare. Chinese Science Bulletin, 2019, 64, 741-747.	0.7	1
70	Potential Applications of Static Magnetic Fields (SMFs) in Cancer Treatment. , 2017, , 175-199.		0