

Table S1. Journals of the 100 most-cited Articles

Source Title	Records	Journal Impact Factor (2022)	Category Quartile (2022)
<i>Nature</i>	17	64.8	Q1
Science	12	56.9	Q1
<i>Nature Reviews Molecular Cell Biology</i>	8	112.7	Q1
Cell	6	64.5	Q1
Journal of Cell Biology	6	7.8	Q1
Proceedings of the National Academy of Sciences of the United States of America	4	11.1	Q1
Nature Reviews Neuroscience	4	34.7	Q1
Developmental Cell	2	11.8	Q1
Pharmacological Reviews	2	21.1	Q1
Nature Reviews Cancer	2	78.5	Q1
Nature Medicine	2	82.9	Q1
Annual Review of Biochemistry	2	16.6	Q1
Journal of Cell Science	2	4.0	Q3
Physiological Reviews	2	33.6	Q1
Toxicologic Pathology	1	1.5	Q4
Genome Biology	1	12.3	Q1
Acta Neuropathologica	1	12.7	Q1
Seminars in Immunology	1	7.8	Q1
Cancer Cell	1	50.3	Q1
Stem Cells	1	5.2	Q1
Trends in Immunology	1	16.8	Q1
Blood	1	20.3	Q1
Annual Review of Biomedical Engineering	1	9.7	Q1
Biomaterials	1	14.0	Q1
Annual Review of Cell and Developmental Biology	1	11.3	Q1
Cell Motility and The Cytoskeleton	1	-	-
Methods	1	4.8	Q1
Cell Stem Cell	1	23.9	Q1
Nature Nanotechnology	1	38.3	Q1
EMBO Journal	1	11.4	Q1
Current Biology	1	9.2	Q1
Molecular Biology of The Cell	1	3.3	Q3
Journal of Biological Chemistry	1	4.8	Q2
American Journal of Pathology	1	6.0	Q1
Neuropsychopharmacology	1	7.6	Q1
British Journal of Haematology	1	6.5	Q1
Nature Cell Biology	1	21.3	Q1
Nature Reviews Neurology	1	38.1	Q1
Circulation Research	1	20.1	Q1
FASEB Journal	1	4.8	Q2
Nature Biotechnology	1	46.9	Q1
Biophysical Journal	1	3.4	Q2
Nature Reviews Immunology	1	100.3	Q1

Table S2. Rough summary of topics and classification of the TOP 100 citations

Rank	Type	Basic Medical Research	Engineering Research	Specific Field	Cell Membrane/ Surface	Organelles	Biomacromolecule	Cytoskeleton/ Vesicles	Chromatin / Nucleus	Imaging Technology	Histopathology	Mechanism	Web Of Science Categories
T1	Article	√		microenvironment, stem cell	√								cell biology
T2	Review	√		cell apoptosis		√						√	multidisciplinary sciences
T3	Review	√		Rho GTPases, actin cytoskeleton			√	√				√	multidisciplinary sciences
T4	Article	√		human genome					√				multidisciplinary sciences
T5	Review	√		substrate stiffness, tissue cell	√								multidisciplinary sciences
T6	Article	√		chromatin structure					√				cell biology
T7	Article	√		genome topological domains					√				multidisciplinary sciences
T8	Review	√		cell migration								√	multidisciplinary sciences
T9	Article	√		human genome					√				cell biology
T10	Article	√		signaling pathway								√	multidisciplinary sciences
T11	Article	√		stem cell	√							√	cell biology
T12	Article		√	image analysis software						√			biotechnology
T13	Review	√		astrocyte pathology							√	√	clinical neurology, pathology
T14	Review	√		biomaterials	√								immunology
T15	Article	√		tumor cell, stroma microenvironment	√							√	cell biology
T16	Review	√		glutamate receptor	√		√					√	pharmacology
T17	Article	√	√	mesenchymal stem cells	√								cell biology, tissue engineering
T18	Article	√		cell adhesions	√							√	multidisciplinary sciences
T19	Article	√		hippocampus	√								multidisciplinary sciences
T20	Article	√		microRNA			√		√			√	multidisciplinary sciences
T21	Review	√		cell autophagy		√						√	multidisciplinary sciences
T22	Review	√		fibroblast	√								oncology
T23	Review	√		signaling pathway								√	multidisciplinary sciences
T24	Article	√		neutrophil, cell death					√			√	cell biology
T25	Review	√		natural killer-cell	√							√	immunology

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T26	Article	√		chronic lymphocytic leukemia cells					√				hematology
T27	Review	√		fibrosis							√	√	cell biology
T28	Article	√		cardiomyocyte		√					√	√	cell biology
T29	Review	√	√	deep learning						√			engineering, biomedical
T30	Review	√		cell motility								√	cell biology
T31	Article	√	√	cell viability, polymer structure	√				√				engineering, biomedical
T32	Article	√	√	microscopy						√			multidisciplinary sciences
T33	Review	√		cell apoptosis	√	√	√		√			√	cell biology
T34	Review	√		cell adhesion, microenvironment	√		√					√	cell biology
T35	Article	√		endoplasmic reticulum, mitochondria		√							multidisciplinary sciences
T36	Review	√		cytoskeleton	√		√	√				√	cell biology
T37	Review	√		voltage-gated channels	√							√	cell biology
T38	Article	√		voltage-dependent ion channels	√								multidisciplinary sciences
T39	Review	√		cytoskeleton			√					√	multidisciplinary sciences
T40	Article	√		cytoskeleton, cell adhesion	√		√	√					cell biology
T41	Article	√		mitochondria		√							multidisciplinary sciences
T42	Article	√		telomeric DNA					√				multidisciplinary sciences
T43	Review	√		cell functions	√							√	cell biology
T44	Review	√		caveolae membrane				√					biochemistry, molecular biology
T45	Article	√	√	cell adhesion	√							√	multidisciplinary sciences
T46	Article	√		mesenchymal stem cells	√								cell biology
T47	Article	√		voltage-dependent channel	√								multidisciplinary sciences
T48	Article	√		mammary epithelial cell	√							√	biochemistry, molecular biology
T49	Review	√		proteasome		√						√	biochemistry, molecular biology
T50	Article	√	√	macrophages internalize targets	√								multidisciplinary sciences

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T51	Review	√		stem cell	√								cell biology
T52	Article	√	√	tumor cell	√								multidisciplinary science
T53	Article	√		mesenchymal stem cells	√							√	multidisciplinary science
T54	Article	√		cell adhesion, cytoskeleton	√			√				√	cell biology
T55	Article	√		marrow stromal cell	√								multidisciplinary science
T56	Article	√		aquaporin-1	√								multidisciplinary science
T57	Article	√		cell apoptosis, mitochondria		√						√	cell biology
T58	Review	√		mitochondria		√						√	cell biology
T59	Review	√		mitochondria		√						√	cell biology
T60	Review	√		microenvironment, cytoskeleton	√			√				√	oncology
T61	Review	√		cell adhesion, cell migration			√	√				√	cell biology
T62	Article	√		mitochondria		√	√					√	cell biology
T63	Article	√		endoplasmic reticulum		√	√					√	cell biology
T64	Article	√		mammary epithelial cells					√			√	biochemistry, molecular biology
T65	Article	√		substrates stiffness	√		√					√	cell biology
T66	Article	√		endoplasmic reticulum, mitochondria		√						√	multidisciplinary science
T67	Article	√		structural domain			√					√	multidisciplinary science
T68	Article	√		chloride channel	√								multidisciplinary science
T69	Review	√		lipid raft	√								cell biology
T70	Review	√		astrocytes	√		√				√	√	neurosciences
T71	Review	√		central nervous system	√		√					√	physiology
T72	Review	√		structural synaptic	√							√	neurosciences
T73	Article	√		endothelial cell	√								pathology
T74	Article	√		exosomes				√				√	multidisciplinary science
T75	Review	√		central nervous system	√							√	neurosciences, psychiatry

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T76	Article	√		mesenchymal progenitor cell	√								hematology
T77	Article	√		mitochondria, cell autophagy		√						√	cell biology
T78	Review	√		filopodia			√					√	cell biology
T79	Review	√		microglia	√						√	√	clinical neurology
T80	Review	√		central nervous system	√								neurosciences
T81	Review	√		microenvironment, cell culture	√							√	cell biology
T82	Review	√		endothelium cell	√							√	cardiac systems, hematology
T83	Review	√		cellular mechanical transduction	√			√				√	cell biology
T84	Article	√		regulating cofilin			√					√	multidisciplinary science
T85	Article	√		ion channel	√		√						multidisciplinary science
T86	Article	√		cell migration	√							√	cell biology
T87	Article	√		focal contact	√			√				√	cell biology
T88	Review		√	imaging microscopy						√			biotechnology, applied microbiology
T89	Review	√		protein domains	√		√						cell biology
T90	Article	√		mitochondria		√						√	cell biology
T91	Review	√		neurons	√								neurosciences
T92	Article	√		cytoskeleton				√					biophysics
T93	Article	√		voltage-gated channel	√								multidisciplinary science
T94	Review	√		voltage-gated channels	√							√	pharmacology
T95	Article	√		acetylcholine receptor	√							√	multidisciplinary science
T96	Review	√		IL-17 receptor family	√							√	immunology
T97	Review	√		signaling pathway								√	physiology
T98	Article	√		signaling pathway								√	cell biology
T99	Article	√		lipid domain	√								cell biology
T100	Article	√		cell adhesion	√		√	√				√	multidisciplinary science

Table S3. Numbers of articles published in each 5-year interval

Publishing Year	Number of Articles	Total Citations	Mean Citations
1998–2002	24	40,684	1,695.2
2003–2007	38	84,455	2,222.5
2008–2012	32	55,608	1,737.8
2013–2017	6	10,738	1,789.7