

Nobuhiro Morone

List of Publications by Year in descending order

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49
papers

4,098
citations

172457

29
h-index

233421

45
g-index

50
all docs

50
docs citations

50
times ranked

7115
citing authors

#	ARTICLE	IF	CITATIONS
1	Cells Respond to Mechanical Stress by Rapid Disassembly of Caveolae. <i>Cell</i> , 2011, 144, 402-413.	28.9	791
2	Akt/PKB Regulates Actin Organization and Cell Motility via Girdin/APE. <i>Developmental Cell</i> , 2005, 9, 389-402.	7.0	381
3	Three-dimensional reconstruction of the membrane skeleton at the plasma membrane interface by electron tomography. <i>Journal of Cell Biology</i> , 2006, 174, 851-862.	5.2	343
4	Phosphorylation by Rho Kinase Regulates CRMP-2 Activity in Growth Cones. <i>Molecular and Cellular Biology</i> , 2005, 25, 9973-9984.	2.3	234
5	A Small Molecule that Promotes Cardiac Differentiation of Human Pluripotent Stem Cells under Defined, Cytokine- and Xeno-free Conditions. <i>Cell Reports</i> , 2012, 2, 1448-1460.	6.4	234
6	Loss of α -tubulin polyglutamylation in ROSA22 mice is associated with abnormal targeting of KIF1A and modulated synaptic function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3213-3218.	7.1	202
7	SCRAPPER-Dependent Ubiquitination of Active Zone Protein RIM1 Regulates Synaptic Vesicle Release. <i>Cell</i> , 2007, 130, 943-957.	28.9	191
8	Confined diffusion of transmembrane proteins and lipids induced by the same actin meshwork lining the plasma membrane. <i>Molecular Biology of the Cell</i> , 2016, 27, 1101-1119.	2.1	165
9	Capturing human trophoblast development with naive pluripotent stem cells in vitro. <i>Cell Stem Cell</i> , 2021, 28, 1023-1039.e13.	11.1	164
10	Membrane mechanisms for signal transduction: The coupling of the meso-scale raft domains to membrane-skeleton-induced compartments and dynamic protein complexes. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 126-144.	5.0	127
11	Human Pluripotent Stem Cell-Derived Cardiac Tissue-like Constructs for Repairing the Infarcted Myocardium. <i>Stem Cell Reports</i> , 2017, 9, 1546-1559.	4.8	107
12	Thermosensitive Ion Channel Activation in Single Neuronal Cells by Using Surface-Engineered Plasmonic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11725-11729.	13.8	96
13	Mechanism of Crosstalk between the LSD1 Demethylase and HDAC1 Deacetylase in the CoREST Complex. <i>Cell Reports</i> , 2020, 30, 2699-2711.e8.	6.4	74
14	Development of a reentrant arrhythmia model in human pluripotent stem cell-derived cardiac cell sheets. <i>European Heart Journal</i> , 2013, 34, 1147-1156.	2.2	72
15	Hybrid Cellular Metabolism Coordinated by Zic3 and Esrrb Synergistically Enhances Induction of Naive Pluripotency. <i>Cell Metabolism</i> , 2017, 25, 1103-1117.e6.	16.2	67
16	Submembranous septins as relatively stable components of actin-based membrane skeleton. <i>Cytoskeleton</i> , 2011, 68, 512-525.	2.0	64
17	Induced pluripotent stem cells from CINCA syndrome patients as a model for dissecting somatic mosaicism and drug discovery. <i>Blood</i> , 2012, 120, 1299-1308.	1.4	61
18	Diffusion-Coupled Molecular Assembly: Structuring of Coordination Polymers Across Multiple Length Scales. <i>Journal of the American Chemical Society</i> , 2014, 136, 14966-14973.	13.7	50

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19	Biocompatible fluorescent silicon nanocrystals for single-molecule tracking and fluorescence imaging. <i>Journal of Cell Biology</i> , 2013, 202, 967-983.	5.2	48
20	Utilization of Photoinduced Charge-Separated State of Donor-acceptor-Linked Molecules for Regulation of Cell Membrane Potential and Ion Transport. <i>Journal of the American Chemical Society</i> , 2012, 134, 6092-6095.	13.7	45
21	Engineering a Novel Multifunctional Green Fluorescent Protein Tag for a Wide Variety of Protein Research. <i>PLoS ONE</i> , 2008, 3, e3822.	2.5	44
22	Nitric Oxide Release in Human Aortic Endothelial Cells Mediated by Delivery of Amphiphilic Polysiloxane Nanoparticles to Caveolae. <i>Biomacromolecules</i> , 2009, 10, 2074-2085.	5.4	39
23	Label-Free Single-Particle Imaging of the Influenza Virus by Objective-Type Total Internal Reflection Dark-Field Microscopy. <i>PLoS ONE</i> , 2012, 7, e49208.	2.5	38
24	Cryo-EM structural analysis of FADD:Caspase-8 complexes defines the catalytic dimer architecture for co-ordinated control of cell fate. <i>Nature Communications</i> , 2021, 12, 819.	12.8	38
25	Extended morphological processing: a practical method for automatic spot detection of biological markers from microscopic images. <i>BMC Bioinformatics</i> , 2010, 11, 373.	2.6	37
26	Membrane re-modelling by BAR domain superfamily proteins via molecular and non-molecular factors. <i>Biochemical Society Transactions</i> , 2018, 46, 379-389.	3.4	37
27	Interaction of Rho-kinase with myosin II at stress fibres. <i>Genes To Cells</i> , 2004, 9, 653-660.	1.2	35
28	Regulation of cargo-selective endocytosis by dynamin 2 GTP-activating protein girdin. <i>EMBO Journal</i> , 2014, 33, 2098-2112.	7.8	34
29	Exclusive Photothermal Heat Generation by a Gadolinium Bis(naphthalocyanine) Complex and Inclusion into Modified High-Density Lipoprotein Nanocarriers for Therapeutic Applications. <i>ACS Nano</i> , 2013, 7, 8908-8916.	14.6	32
30	Nitric oxide-mediated posttranslational modifications control neurotransmitter release by modulating complexin farnesylation and enhancing its clamping ability. <i>PLoS Biology</i> , 2018, 16, e2003611.	5.6	28
31	Measurement of caveolin-1 densities in the cell membrane for quantification of caveolar deformation after exposure to hypotonic membrane tension. <i>Scientific Reports</i> , 2017, 7, 7794.	3.3	26
32	Mesoscopic Metal Nanoparticles Doubly Functionalized with Natural and Engineered Lipidic Dispersants for Therapeutics. <i>ACS Nano</i> , 2014, 8, 7370-7376.	14.6	23
33	Helical DNA Origami Tubular Structures with Various Sizes and Arrangements. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7484-7490.	13.8	22
34	The pathogenesis of mesothelioma is driven by a dysregulated transcriptome. <i>Nature Communications</i> , 2021, 12, 4920.	12.8	20
35	The C terminus of p73 is essential for hippocampal development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15694-15701.	7.1	19
36	Chapter 12 Three-Dimensional Molecular Architecture of the Plasma-Membrane-Associated Cytoskeleton as Reconstructed by Freeze-Etch Electron Tomography. <i>Methods in Cell Biology</i> , 2008, 88, 207-236.	1.1	17

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37	Constitutive activation of neuronal Src causes aberrant dendritic morphogenesis in mouse cerebellar Purkinje cells. <i>Neuroscience Research</i> , 2007, 57, 210-219.	1.9	16
38	Fractal dimension analysis and mathematical morphology of structural changes in actin filaments imaged by electron microscopy. <i>Journal of Structural Biology</i> , 2011, 176, 1-8.	2.8	15
39	The modeling of Alzheimer's disease by the overexpression of mutant Presenilin 1 in human embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 469, 587-592.	2.1	14
40	Polymer-coated pH-responsive high-density lipoproteins. <i>Journal of Controlled Release</i> , 2016, 228, 132-140.	9.9	10
41	Freeze-Etch Electron Tomography for the Plasma Membrane Interface. <i>Methods in Molecular Biology</i> , 2010, 657, 275-286.	0.9	10
42	Paradigm Shift of the Molecular Dynamics Concept in the Cell Membrane: High-Speed Single-Molecule Tracking Revealed the Partitioning of the Cell Membrane. , 0, , 545-574.		7
43	Single-Molecule Fluorescence Polarization Study of Conformational Change in Archaeal Group II Chaperonin. <i>PLoS ONE</i> , 2011, 6, e22253.	2.5	6
44	Membrane fusogenic high-density lipoprotein nanoparticles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183008.	2.6	4
45	Improved unroofing protocols for cryo-electron microscopy, atomic force microscopy and freeze-etching electron microscopy and the associated mechanisms. <i>Microscopy (Oxford, England)</i> , 2020, 69, 350-359.	1.5	4
46	3P282 Engineering of a novel module for high-resolution labeling of the protein components useful for electron and fluorescent microscopy(Bioimaging. The genesis of life, and biological) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 Td (ev		
47	3P-189 High-density caveolar formation just beneath the plasma membrane during adipogenesis, as revealed by freeze-etch electron microscopy(The 46th Annual Meeting of the Biophysical Society of) Tj ETQq1 1 0.784314 rgBT /Overbo		
48	2S2-2 Three dimensional interplay of the membrane skeleton with the plasma membrane as visualized by freeze-etch electron tomography(2S2 Interactions between the cell membrane and the actin) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Seibutsu Butsuri, 2008, 48, S8.		
49	Biocompatible fluorescent silicon nanocrystals for single-molecule tracking and fluorescence imaging. <i>Journal of General Physiology</i> , 2013, 142, 1424OIA31.	1.9	0