

Naoko Imamoto

List of Publications by Year in descending order

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96
papers

8,303
citations

65103

42
h-index

50605

87
g-index

110
all docs

110
docs citations

110
times ranked

11844
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly inclined thin illumination enables clear single-molecule imaging in cells. <i>Nature Methods</i> , 2008, 5, 159-161.	19.6	1,155
2	Cohesin mediates transcriptional insulation by CCCTC-binding factor. <i>Nature</i> , 2008, 451, 796-801.	36.2	1,065
3	The transcriptional network that controls growth arrest and differentiation in a human myeloid leukemia cell line. <i>Nature Genetics</i> , 2009, 41, 553-562.	20.4	408
4	Acinus is a caspase-3-activated protein required for apoptotic chromatin condensation. <i>Nature</i> , 1999, 401, 168-173.	36.2	402
5	Human mitotic chromosomes consist predominantly of irregularly folded nucleosome fibres without a 30-nm chromatin structure. <i>EMBO Journal</i> , 2012, 31, 1644-1653.	8.2	273
6	Three-Dimensional Visualization of a Human Chromosome Using Coherent X-Ray Diffraction. <i>Physical Review Letters</i> , 2009, 102, 018101.	8.0	270
7	Î²-Catenin Can Be Transported into the Nucleus in a Ran-unassisted Manner. <i>Molecular Biology of the Cell</i> , 1999, 10, 1119-1131.	2.5	232
8	Local Nucleosome Dynamics Facilitate Chromatin Accessibility in Living Mammalian Cells. <i>Cell Reports</i> , 2012, 2, 1645-1656.	6.3	183
9	Ki-67 is a PP1-interacting protein that organises the mitotic chromosome periphery. <i>ELife</i> , 2014, 3, e01641.	5.9	176
10	Ran-unassisted Nuclear Migration of a 97-kD Component of Nuclear Poreâ€‘targeting Complex. <i>Journal of Cell Biology</i> , 1997, 139, 841-849.	5.2	153
11	Differential Modes of Nuclear Localization Signal (NLS) Recognition by Three Distinct Classes of NLS Receptors. <i>Journal of Biological Chemistry</i> , 1997, 272, 26375-26381.	3.5	153
12	Phosphoproteomics reveals new ERK MAP kinase targets and links ERK to nucleoporin-mediated nuclear transport. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1026-1035.	8.1	149
13	Hikeshi, a Nuclear Import Carrier for Hsp70s, Protects Cells from Heat Shock-Induced Nuclear Damage. <i>Cell</i> , 2012, 149, 578-589.	27.8	139
14	The Role of Hk1p2 in the Stabilization and Maintenance of Spindle Bipolarity. <i>Current Biology</i> , 2009, 19, 1712-1717.	4.0	138
15	A Karyophilic Protein Forms a Stable Complex with Cytoplasmic Components Prior to Nuclear Pore Binding. <i>Journal of Biological Chemistry</i> , 1995, 270, 8559-8565.	3.5	137
16	Cell-cycle-dependent dynamics of nuclear pores: pore-free islands and lamins. <i>Journal of Cell Science</i> , 2006, 119, 4442-4451.	2.1	130
17	Biological Significance of the Importinâ€‘Î² Familyâ€‘Dependent Nucleocytoplasmic Transport Pathways. <i>Traffic</i> , 2014, 15, 727-748.	3.0	128
18	Nuclear Import of Sterol Regulatory Elementâ€‘binding Protein-2, a Basic Helix-Loop-Helixâ€‘Leucine Zipper (bHLH-Zip)â€‘containing Transcription Factor, Occurs through the Direct Interaction of Importin Î² with HLH-Zip. <i>Molecular Biology of the Cell</i> , 1999, 10, 2221-2233.	2.5	115

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19	RAP55, a Cytoplasmic mRNP Component, Represses Translation in <i>Xenopus</i> Oocytes. <i>Journal of Biological Chemistry</i> , 2006, 281, 40096-40106.	3.5	102
20	Deficiency in Chromosome Congression by the Inhibition of Plk1 Polo Box Domain-dependent Recognition. <i>Journal of Biological Chemistry</i> , 2009, 284, 2344-2353.	3.5	102
21	Biallelic Mutations in Nuclear Pore Complex Subunit NUP107 Cause Early-Childhood-Onset Steroid-Resistant Nephrotic Syndrome. <i>American Journal of Human Genetics</i> , 2015, 97, 555-566.	6.1	97
22	Nuclear pore formation but not nuclear growth is governed by cyclin-dependent kinases (Cdks) during interphase. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1065-1071.	8.1	96
23	Essential role of active nuclear transport in apoptosis. <i>Genes To Cells</i> , 1997, 2, 55-64.	1.3	88
24	Localization of Pom121 to the inner nuclear membrane is required for an early step of interphase nuclear pore complex assembly. <i>Molecular Biology of the Cell</i> , 2011, 22, 1058-1069.	2.5	82
25	70-kDa Heat-Shock Cognate Protein Colocalizes with Karyophilic Proteins into the Nucleus during Their Transport in Vitro. <i>Experimental Cell Research</i> , 1993, 206, 134-142.	2.6	80
26	Extensive cargo identification reveals distinct biological roles of the 12 importin pathways. <i>ELife</i> , 2017, 6, .	5.9	80
27	Ion irradiation in liquid of $\hat{1}/4m3$ region for cell surgery. <i>Applied Physics Letters</i> , 2008, 92, .	3.2	78
28	Structural Basis for Substrate Recognition and Dissociation by Human Transportin 1. <i>Molecular Cell</i> , 2007, 28, 57-67.	9.6	76
29	Heat-shock induced nuclear retention and recycling inhibition of importin alpha. <i>Genes To Cells</i> , 2004, 9, 429-441.	1.3	67
30	The adoption of a twisted structure of importin- $\hat{1}^2$ is essential for the protein-protein interaction required for nuclear transport 1 Edited by K. Nagai. <i>Journal of Molecular Biology</i> , 2000, 302, 251-264.	4.3	66
31	A long synthetic peptide containing a nuclear localization signal and its flanking sequences of SV40 T-antigen directs the transport of IgM into the nucleus efficiently. <i>Experimental Cell Research</i> , 1992, 201, 313-320.	2.6	62
32	A Monoclonal Antibody to the COOH-terminal Acidic Portion of Ran Inhibits Both the Recycling of Ran and Nuclear Protein Import in Living Cells. <i>Journal of Cell Biology</i> , 1999, 144, 645-655.	5.2	57
33	$\hat{1}^2$ -Subunit of Nuclear Pore-targeting Complex (Importin- $\hat{1}^2$) Can Be Exported from the Nucleus in a Ran-independent Manner. <i>Journal of Biological Chemistry</i> , 1999, 274, 3946-3952.	3.5	54
34	Functional and structural basis of the nuclear localization signal in the ZIC3 zinc finger domain. <i>Human Molecular Genetics</i> , 2008, 17, 3459-3473.	3.0	54
35	Molecular Cloning of a Novel Importin $\hat{1}\pm$ Homologue from Rice, by Which Constitutive Photomorphogenic 1 (COP1) Nuclear Localization Signal (NLS)-Protein Is Preferentially Nuclear Imported. <i>Journal of Biological Chemistry</i> , 2001, 276, 9322-9329.	3.5	53
36	Importin- $\hat{1}^2$ and the small guanosine triphosphatase Ran mediate chromosome loading of the human chromokinesin Kid. <i>Journal of Cell Biology</i> , 2008, 180, 493-506.	5.2	53

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37	The nucleoporin ELYS/Mel28 regulates nuclear envelope subdomain formation in HeLa cells. <i>Nucleus</i> , 2012, 3, 187-199.	2.2	52
38	The Crystal Structure of Mouse Nup35 Reveals Atypical RNP Motifs and Novel Homodimerization of the RRM Domain. <i>Journal of Molecular Biology</i> , 2006, 363, 114-124.	4.3	48
39	Perichromosomal protein Ki67 supports mitotic chromosome architecture. <i>Genes To Cells</i> , 2016, 21, 1113-1124.	1.3	48
40	The chromosomal association of condensin II is regulated by a noncatalytic function of PP2A. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1302-1308.	8.1	46
41	Ki67 Antigen Contributes to the Timely Accumulation of Protein Phosphatase 1 ^β on Anaphase Chromosomes. <i>Journal of Biological Chemistry</i> , 2014, 289, 22877-22887.	3.5	44
42	Nuclear size, nuclear pore number and cell cycle. <i>Nucleus</i> , 2011, 2, 113-118.	2.2	42
43	The 70-kD heat shock cognate protein (hsc70) facilitates the nuclear export of the import receptors. <i>Journal of Cell Biology</i> , 2005, 171, 19-25.	5.2	40
44	Ki-67 and condensins support the integrity of mitotic chromosomes through distinct mechanisms. <i>Journal of Cell Science</i> , 2018, 131, .	2.1	40
45	Identification of Cargo Proteins Specific for the Nucleocytoplasmic Transport Carrier Transportin by Combination of an in Vitro Transport System and Stable Isotope Labeling by Amino Acids in Cell Culture (SILAC)-based Quantitative Proteomics. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 145-157.	3.9	39
46	Mutations in fission yeast Cut15, an importin 1 [±] homolog, lead to mitotic progression without chromosome condensation. <i>Current Biology</i> , 1998, 8, 1031-1036.	4.0	38
47	cHS4 Insulator-mediated Alleviation of Promoter Interference during Cell-based Expression of Tandemly Associated Transgenes. <i>Journal of Molecular Biology</i> , 2007, 374, 580-590.	4.3	36
48	Nuclear transport factor p10/NTF2 functions as a Ran-GDP dissociation inhibitor (Ran-GDI). <i>Current Biology</i> , 1998, 8, 1339-S2.	4.0	33
49	Glass capillary optics for producing nanometer sized beams and its applications. <i>Surface and Coatings Technology</i> , 2011, 206, 859-863.	4.9	33
50	Functional Characterization of a Plant Importin 1 [±] Homologue. <i>Journal of Biological Chemistry</i> , 1998, 273, 24083-24087.	3.5	32
51	Nuclear pore dynamics during the cell cycle. <i>Current Opinion in Cell Biology</i> , 2012, 24, 453-459.	5.6	32
52	Diversity in Nucleocytoplasmic Transport Pathways.. <i>Cell Structure and Function</i> , 2000, 25, 207-216.	1.2	32
53	Nucleocytoplasmic transport under stress conditions and its role in HSP70 chaperone systems. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2953-2960.	2.5	29
54	Identification of Cargo Proteins Specific for Importin-1 ² with Importin-1 [±] Applying a Stable Isotope Labeling by Amino Acids in Cell Culture (SILAC)-based in Vitro Transport System*. <i>Journal of Biological Chemistry</i> , 2013, 288, 24540-24549.	3.5	28

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55	ELYS regulates the localization of LBR by modulating its phosphorylation state. <i>Journal of Cell Science</i> , 2016, 129, 4200-4212.	2.1	28
56	Foreign protein can be carried into the nucleus of mammalian cell by conjugation with nucleoplasmin. <i>Experimental Cell Research</i> , 1985, 159, 419-429.	2.6	27
57	Analytic 3D Imaging of Mammalian Nucleus at Nanoscale Using Coherent X-Rays and Optical Fluorescence Microscopy. <i>Biophysical Journal</i> , 2014, 107, 1074-1081.	0.5	25
58	CRM1 Mediates Nuclear Export of Nonstructural Protein 2 from Parvovirus Minute Virus of Mice. <i>Biochemical and Biophysical Research Communications</i> , 1999, 264, 144-150.	2.2	24
59	Leukoencephalopathy and early death associated with an Ashkenazi-Jewish founder mutation in the Hikeshi gene. <i>Journal of Medical Genetics</i> , 2016, 53, 132-137.	3.6	24
60	Regulation and coordination of nuclear envelope and nuclear pore complex assembly. <i>Nucleus</i> , 2013, 4, 105-114.	2.2	22
61	Heat-shock stress activates a novel nuclear import pathway mediated by Hikeshi. <i>Nucleus</i> , 2012, 3, 422-428.	2.2	20
62	The Mcm2â€“7-interacting domain of human mini-chromosome maintenance 10 (Mcm10) protein is important for stable chromatin association and origin firing. <i>Journal of Biological Chemistry</i> , 2017, 292, 13008-13021.	3.5	20
63	Recycling of Importin .ALPHA. from the Nucleus Is Suppressed by Loss of RCC1 Function in Living Mammalian Cells.. <i>Cell Structure and Function</i> , 2000, 25, 115-123.	1.2	19
64	Glaziovianin A Prevents Endosome Maturation <i>via</i> Inhibiting Microtubule Dynamics. <i>ACS Chemical Biology</i> , 2013, 8, 884-889.	3.6	18
65	Phosphorylation of nucleoporins. <i>Nucleus</i> , 2010, 1, 309-313.	2.2	17
66	Y-box protein-associated acidic protein (YBAP1/C1QBP) affects the localization and cytoplasmic functions of YB-1. <i>Scientific Reports</i> , 2018, 8, 6198.	3.4	15
67	Nuclear transport adapts to varying heat stress in a multistep mechanism. <i>Journal of Cell Biology</i> , 2018, 217, 2341-2352.	5.2	14
68	Heat stress-induced nuclear transport mediated by Hikeshi confers nuclear function of Hsp70s. <i>Current Opinion in Cell Biology</i> , 2018, 52, 82-87.	5.6	13
69	Effect of Dehydroaltenusin-C12 Derivative, a Selective DNA Polymerase Î± Inhibitor, on DNA Replication in Cultured Cells. <i>Molecules</i> , 2008, 13, 2948-2961.	3.9	11
70	Structural and functional analysis of Hikeshi, a new nuclear transport receptor of Hsp70s. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 473-483.	2.4	10
71	Live imaging system for visualizing nuclear pore complex (NPC) formation during interphase in mammalian cells. <i>Genes To Cells</i> , 2010, 15, 647-660.	1.3	9
72	Novel Approaches for the Identification of Nuclear Transport Receptor Substrates. <i>Methods in Cell Biology</i> , 2014, 122, 353-378.	2.1	9

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73	Hikeshi modulates the proteotoxic stress response in human cells: Implication for the importance of the nuclear function of <sc>HSP</sc>70s. <i>Genes To Cells</i> , 2017, 22, 968-976.	1.3	9
74	Methods to separate nuclear soluble fractions reflecting localizations in living cells. <i>IScience</i> , 2021, 24, 103503.	4.1	9
75	Coenzyme Q10 as a potent compound that inhibits Cdt1â€™geminin interaction. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 203-213.	2.5	8
76	Nuclear import of IER5 is mediated by a classical bipartite nuclear localization signal and is required for HSF1 full activation. <i>Experimental Cell Research</i> , 2020, 386, 111686.	2.6	7
77	Specific Monoclonal Antibody Against Nuclear Import Factor, Importin Î±1/Rch1. <i>Hybridoma</i> , 2004, 23, 301-304.	0.5	6
78	A statistical image analysis framework for pore-free islands derived from heterogeneity distribution of nuclear pore complexes. <i>Scientific Reports</i> , 2017, 7, 16315.	3.4	6
79	The intrinsically disordered Nâ€™terminal region of mouse DNA polymerase alpha mediates its interaction with POT1a/b at telomeres. <i>Genes To Cells</i> , 2021, 26, 360-380.	1.3	6
80	Aberrant DNA Polymerase Î± Is Excluded from the Nucleus by Defective Import and Degradation in the Nucleus. <i>Journal of Biological Chemistry</i> , 2009, 284, 30604-30614.	3.5	5
81	Distinct mutations in importin-Î² family nucleocytoplasmic transport receptors transportin-SR and importin-13 affect specific cargo binding. <i>Scientific Reports</i> , 2021, 11, 15649.	3.4	5
82	Reconstitution of Nucleocytoplasmic Transport Using Digitonin-Permeabilized Cells. <i>Methods in Molecular Biology</i> , 2015, 1262, 291-303.	0.0	5
83	Stochastic chromatin packing of 3D mitotic chromosomes revealed by coherent X-rays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	5
84	Control of Nuclear Size by NPC Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2014, 773, 571-591.	0.0	4
85	Lack of Hikeshi activates HSF1 activity under normal conditions and disturbs the heat-shock response. <i>Life Science Alliance</i> , 2022, 5, e202101241.	2.9	4
86	A cortical cytoskeleton associated with phagosomes disclosed by a monoclonal antibody against capped membrane of Dictyostelium. <i>Protoplasma</i> , 1985, 128, 173-183.	2.2	3
87	Analysis of Nucleocytoplasmic Transport in Digitonin-Permeabilized Cells Under Different Cellular Conditions. <i>Methods in Cell Biology</i> , 2014, 122, 331-352.	2.1	3
88	Cargo Recognition Explains Nuclear Transport Regulation Induced by Nuclear Pore Complex Reorganization. <i>Journal of Molecular Biology</i> , 2013, 425, 1849-1851.	4.3	1
89	RAP55, a cytoplasmic mRNP component, represses translation in Xenopus oocytes. <i>Journal of Biological Chemistry</i> , 2014, 289, 20490.	3.5	1
90	Cell-Fusion Method to Visualize Interphase Nuclear Pore Formation. <i>Methods in Cell Biology</i> , 2014, 122, 239-254.	2.1	1

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91	Effect of an Inhibitor of HSP70, YM-1, on Hkeshi Knockout Cells. <i>Thermal Medicine</i> , 2017, 33, 129-134.	0.1	1
92	Regulating β -Catenin Nuclear Import with the Small GTPase Rap. <i>Developmental Cell</i> , 2018, 44, 135-136.	7.0	1
93	Editorial overview: Cell nucleus. <i>Current Opinion in Cell Biology</i> , 2019, 58, iii-iv.	5.6	0
94	The interaction between the import carrier Hkeshi and β -HSP70 is modulated by heat, facilitating the nuclear import of β -HSP70 under heat stress conditions. <i>Genes To Cells</i> , 0, , .	1.3	0
95	Single-nucleosome imaging unveils that condensins and nucleosomes differentially constrain chromatin to organize mitotic chromosomes. <i>Nature Communications</i> , 2024, 15, .	13.2	0
96	Functional analysis of Hkeshi reveals physiological significance of nuclear Hsp70. <i>Current Opinion in Cell Biology</i> , 2024, 91, 102426.	5.6	0