

# Yasuo Mori

## List of Publications by Year in descending order

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109  
papers

3,627  
citations

148557

31  
h-index

150287

56  
g-index

113  
all docs

113  
docs citations

113  
times ranked

5114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium channel $\beta$ -subunit binds to a conserved motif in the $\alpha$ II cytoplasmic linker of the $\alpha$ 1-subunit. <i>Nature</i> , 1994, 368, 67-70.	28.1	626
2	Cancer Cells Co-opt the Neuronal Redox-Sensing Channel TRPA1 to Promote Oxidative-Stress Tolerance. <i>Cancer Cell</i> , 2018, 33, 985-1003.e7.	16.9	184
3	Cell surface flip-flop of phosphatidylserine is critical for PIEZO1-mediated myotube formation. <i>Nature Communications</i> , 2018, 9, 2049.	13.0	127
4	TRPM2 Mediates Neutrophil Killing of Disseminated Tumor Cells. <i>Cancer Research</i> , 2018, 78, 2680-2690.	0.9	120
5	The Transient Receptor Potential Melastatin 2 (TRPM2) Channel Contributes to $\beta$ -Amyloid Oligomer-Related Neurotoxicity and Memory Impairment. <i>Journal of Neuroscience</i> , 2015, 35, 15157-15169.	3.7	110
6	TRPM2 Channel Aggravates CNS Inflammation and Cognitive Impairment via Activation of Microglia in Chronic Cerebral Hypoperfusion. <i>Journal of Neuroscience</i> , 2018, 38, 3520-3533.	3.7	102
7	TRPV4 channel activity is modulated by direct interaction of the ankyrin domain to PI(4,5)P2. <i>Nature Communications</i> , 2014, 5, 4994.	13.0	97
8	Thermosensitive Ion Channel Activation in Single Neuronal Cells by Using Surface-Engineered Plasmonic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11725-11729.	14.2	96
9	Decreased Brain pH as a Shared Endophenotype of Psychiatric Disorders. <i>Neuropsychopharmacology</i> , 2018, 43, 459-468.	5.5	94
10	Cold sensitivity of TRPA1 is unveiled by the prolyl hydroxylation blockade-induced sensitization to ROS. <i>Nature Communications</i> , 2016, 7, 12840.	13.0	83
11	Sensing of redox status by TRP channels. <i>Cell Calcium</i> , 2016, 60, 115-122.	2.4	83
12	Hypoxia-induced interaction of filamin with Drp1 causes mitochondrial hyperfission-associated myocardial senescence. <i>Science Signaling</i> , 2018, 11, .	3.6	83
13	TRPC3 positively regulates reactive oxygen species driving maladaptive cardiac remodeling. <i>Scientific Reports</i> , 2016, 6, 37001.	3.4	80
14	Tetrameric Orai1 Is a Teardrop-shaped Molecule with a Long, Tapered Cytoplasmic Domain. <i>Journal of Biological Chemistry</i> , 2009, 284, 13676-13685.	3.5	77
15	Variants That Affect Function of Calcium Channel TRPV6 Are Associated With Early-Onset Chronic Pancreatitis. <i>Gastroenterology</i> , 2020, 158, 1626-1641.e8.	1.4	77
16	Validating subcellular thermal changes revealed by fluorescent thermosensors. <i>Nature Methods</i> , 2015, 12, 801-802.	19.2	76
17	TRPC3-GEF-H1 axis mediates pressure overload-induced cardiac fibrosis. <i>Scientific Reports</i> , 2016, 6, 39383.	3.4	60
18	TRPM2 contributes to LPS/IFN $\beta$ -induced production of nitric oxide via the p38/JNK pathway in microglia. <i>Biochemical and Biophysical Research Communications</i> , 2014, 444, 212-217.	2.2	58

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19	Transient receptor potential (TRP) channels: Biosensors for redox environmental stimuli and cellular status. <i>Free Radical Biology and Medicine</i> , 2020, 146, 36-44.	2.9	58
20	Functional and Structural Divergence in Human TRPV1 Channel Subunits by Oxidative Cysteine Modification. <i>Journal of Biological Chemistry</i> , 2016, 291, 4197-4210.	3.5	52
21	Structure-activity relations of leucine derivatives reveal critical moieties for cellular uptake and activation of mTORC1-mediated signaling. <i>Amino Acids</i> , 2016, 48, 1045-1058.	2.7	51
22	TRPC3-Nox2 complex mediates doxorubicin-induced myocardial atrophy. <i>JCI Insight</i> , 2017, 2, .	5.0	50
23	Transient receptor potential melastatin 2 channels (TRPM2) mediate neonatal hypoxic-ischemic brain injury in mice. <i>Experimental Neurology</i> , 2017, 296, 32-40.	4.1	46
24	Redox-sensitive transient receptor potential channels in oxygen sensing and adaptation. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 85-97.	2.8	45
25	Ryanodine receptor mutations (G4946E and I4790K) differentially responsible for diamide insecticide resistance in diamondback moth, <i>Plutella xylostella</i> L.. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 118, 103308.	2.7	41
26	Radiation inhibits salivary gland function by promoting STIM1 cleavage by caspase-3 and loss of SOCE through a TRPM2-dependent pathway. <i>Science Signaling</i> , 2017, 10, .	3.6	40
27	Fluorescent sensors reveal subcellular thermal changes. <i>Current Opinion in Biotechnology</i> , 2015, 31, 57-64.	6.7	35
28	Hypoxia-induced sensitisation of TRPA1 in painful dysesthesia evoked by transient hindlimb ischemia/reperfusion in mice. <i>Scientific Reports</i> , 2016, 6, 23261.	3.4	35
29	Functional coupling of TRPM2 and extrasynaptic NMDARs exacerbates excitotoxicity in ischemic brain injury. <i>Neuron</i> , 2022, 110, 1944-1958.e8.	8.2	35
30	Identification of MMP1 as a novel risk factor for intracranial aneurysms in ADPKD using iPSC models. <i>Scientific Reports</i> , 2016, 6, 30013.	3.4	34
31	DNA Origami Scaffolds as Templates for Functional Tetrameric Kir3 K <sup>+</sup> Channels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2586-2591.	14.2	33
32	Comprehensive behavioral analysis of voltage-gated calcium channel beta-anchoring and -regulatory protein knockout mice. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 141.	2.1	32
33	O <sub>2</sub> -Dependent Protein Internalization Underlies Astrocytic Sensing of Acute Hypoxia by Restricting Multimodal TRPA1 Channel Responses. <i>Current Biology</i> , 2020, 30, 3378-3396.e7.	4.0	32
34	Involvement of TRPM2 in a wide range of inflammatory and neuropathic pain mouse models. <i>Journal of Pharmacological Sciences</i> , 2015, 127, 237-243.	2.6	31
35	TRPM2 Exacerbates Central Nervous System Inflammation in Experimental Autoimmune Encephalomyelitis by Increasing Production of CXCL2 Chemokines. <i>Journal of Neuroscience</i> , 2018, 38, 8484-8495.	3.7	29
36	ELKS/Voltage-Dependent Ca <sup>2+</sup> Channel- $\beta$ Subunit Module Regulates Polarized Ca <sup>2+</sup> Influx in Pancreatic $\beta$ Cells. <i>Cell Reports</i> , 2019, 26, 1213-1226.e7.	6.4	29

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37	TRPC6 regulates phenotypic switching of vascular smooth muscle cells through plasma membrane potentialâ€dependent coupling with PTEN. <i>FASEB Journal</i> , 2019, 33, 9785-9796.	0.5	27
38	TRPM7 channels mediate spontaneous Ca <sup>2+</sup> fluctuations in growth plate chondrocytes that promote bone development. <i>Science Signaling</i> , 2019, 12, .	3.6	27
39	TRPM2 channels in alveolar epithelial cells mediate bleomycin-induced lung inflammation. <i>Free Radical Biology and Medicine</i> , 2016, 90, 101-113.	2.9	25
40	Optical control of neuronal firing via photoinduced electron transfer in donorâ€acceptor conjugates. <i>Chemical Science</i> , 2016, 7, 3331-3337.	7.6	25
41	Extreme deformability of insect cell membranes is governed by phospholipid scrambling. <i>Cell Reports</i> , 2021, 35, 109219.	6.4	25
42	Mast cell hyperactivity underpins the development of oxygen-induced retinopathy. <i>Journal of Clinical Investigation</i> , 2017, 127, 3987-4000.	8.3	24
43	Role of transient receptor potential melastatin 2 (TRPM2) channels in visceral nociception and hypersensitivity. <i>Experimental Neurology</i> , 2016, 285, 41-50.	4.1	23
44	Dynamics of receptor-operated Ca <sup>2+</sup> currents through TRPC channels controlled via the PI(4,5)P <sub>2</sub> -PLC signaling pathway. <i>Frontiers in Pharmacology</i> , 2015, 6, 22.	3.6	22
45	Distinct Mechanism of Cysteine Oxidation-Dependent Activation and Cold Sensitization of Human Transient Receptor Potential Ankyrin 1 Channel by High and Low Oxaliplatin. <i>Frontiers in Physiology</i> , 2017, 8, 878.	2.8	21
46	Inhibitory effects of AG490 on H <sub>2</sub> O <sub>2</sub> -induced TRPM2-mediated Ca <sup>2+</sup> entry. <i>European Journal of Pharmacology</i> , 2014, 742, 22-30.	3.6	20
47	TRP channels in oxygen physiology: distinctive functional properties and roles of TRPA1 in O <sub>2</sub> sensing. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2017, 93, 464-482.	3.8	20
48	TRPM2 deficiency in mice protects against atherosclerosis by inhibiting TRPM2â€CD36 inflammatory axis in macrophages. , 2022, 1, 344-360.		19
49	Identification of a prostaglandin D <sub>2</sub> metabolite as a neuritogenesis enhancer targeting the TRPV1 ion channel. <i>Scientific Reports</i> , 2016, 6, 21261.	3.4	18
50	Inhibitory effects of Tyrphostin AG-related compounds on oxidative stress-sensitive transient receptor potential channel activation. <i>European Journal of Pharmacology</i> , 2016, 786, 19-28.	3.6	18
51	Role of transient receptor potential melastatin 2 in surgical inflammation and dysmotility in a mouse model of postoperative ileus. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G104-G116.	3.5	16
52	Sensitization of H <sub>2</sub> O <sub>2</sub> -induced TRPM2 activation and subsequent interleukin-8 (CXCL8) production by intracellular Fe <sup>2+</sup> in human monocytic U937 cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 68, 119-127.	2.8	15
53	Down-regulation of the Wnt/Î²-catenin signaling pathway by Cacnb4. <i>Molecular Biology of the Cell</i> , 2017, 28, 3699-3708.	2.2	15
54	C-type natriuretic peptide facilitates autonomic Ca <sup>2+</sup> entry in growth plate chondrocytes for stimulating bone growth. <i>ELife</i> , 2022, 11, .	6.1	15

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55	Rab3 interacting molecule 3 mutations associated with autism alter regulation of voltage-dependent Ca <sup>2+</sup> channels. <i>Cell Calcium</i> , 2015, 58, 296-306.	2.4	14
56	In vitro and in vivo characterization of modulation of the vacuolar cation channel TRPY 1 from <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 2018, 285, 1146-1161.	4.8	14
57	Cnm4 deficiency suppresses Ca <sup>2+</sup> signaling and promotes cell proliferation in the colon epithelia. <i>Oncogene</i> , 2019, 38, 3962-3969.	5.9	13
58	Osteoclasts adapt to physioxia perturbation through DNA demethylation. <i>EMBO Reports</i> , 2021, 22, e53035.	4.5	13
59	Strategy to Attain Remarkably High Photoinduced Charge-Separation Yield of Donor-Acceptor Linked Molecules in Biological Environment via Modulating Their Cationic Moieties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17457-17465.	3.2	12
60	Pathophysiological Role of TRPM2 in Age-Related Cognitive Impairment in Mice. <i>Neuroscience</i> , 2019, 408, 204-213.	2.4	12
61	Protective Effects of Duloxetine against Cerebral Ischemia-Reperfusion Injury via Transient Receptor Potential Melastatin 2 Inhibition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 368, 246-254.	2.5	12
62	Possible involvement of TRPM2 activation in 5-fluorouracil-induced myelosuppression in mice. <i>European Journal of Pharmacology</i> , 2021, 891, 173671.	3.6	12
63	Deep-Red/Near-Infrared Turn-On Fluorescence Probes for Aldehyde Dehydrogenase 1A1 in Cancer Stem Cells. <i>ACS Sensors</i> , 2021, 6, 3320-3329.	8.0	12
64	TRPV1 is a component of the atrial natriuretic signaling complex, and using orally delivered antagonists, presents a valid therapeutic target in the longitudinal reversal and treatment of cardiac hypertrophy and heart failure. <i>Channels</i> , 2019, 13, 1-16.	2.8	11
65	Transient receptor potential channel M2 contributes to neointimal hyperplasia in vascular walls. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1360-1371.	3.8	10
66	Striatal TRPV1 activation by acetaminophen ameliorates dopamine D2 receptor antagonist-induced orofacial dyskinesia. <i>JCI Insight</i> , 2021, 6, .	5.0	10
67	Receptor Signaling Integration by TRP Channelsomes. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 373-389.	1.6	9
68	The $\beta$ 4 subunit of the voltage-gated calcium channel ( <i>Cacnb4</i> ) regulates the rate of cell proliferation in Chinese Hamster Ovary cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 89, 57-70.	2.8	9
69	TRPM7 is an essential regulator for volume-sensitive outwardly rectifying anion channel. <i>Communications Biology</i> , 2021, 4, 599.	4.5	9
70	Deciphering Subtype-Selective Modulations in TRPA1 Biosensor Channels. <i>Current Neuropharmacology</i> , 2015, 13, 266-278.	3.0	8
71	Cell-autonomous control of intracellular temperature by unsaturation of phospholipid acyl chains. <i>Cell Reports</i> , 2022, 38, 110487.	6.4	8
72	Integrative Approach with Electrophysiological and Theoretical Methods Reveals a New Role of S4 Positively Charged Residues in PKD2L1 Channel Voltage-Sensing. <i>Scientific Reports</i> , 2017, 7, 9760.	3.4	7

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73	Involvement of TRPM2 and TRPM8 in temperature-dependent masking behavior. <i>Scientific Reports</i> , 2019, 9, 3706.	3.4	7
74	TRPM2 confers susceptibility to social stress but is essential for behavioral flexibility. <i>Brain Research</i> , 2019, 1704, 68-77.	2.2	7
75	Blockade of astrocytic activation delays the occurrence of severe hypoxia-induced seizure and respiratory arrest in mice. <i>Journal of Comparative Neurology</i> , 2020, 528, 1257-1264.	1.6	7
76	Transient Receptor Potential Ankyrin 1 Mediates Hypoxic Responses in Mice. <i>Frontiers in Physiology</i> , 2020, 11, 576209.	2.8	7
77	A Rapid Shift from Chronic Hyperoxia to Normoxia Induces Systemic Anaphylaxis via Transient Receptor Potential Ankyrin 1 Channels on Mast Cells. <i>Journal of Immunology</i> , 2020, 205, 2959-2967.	0.8	7
78	Deletion of TRPC3 or TRPC6 Fails to Attenuate the Formation of Inflammation and Fibrosis in Non-alcoholic Steatohepatitis. <i>Biological and Pharmaceutical Bulletin</i> , 2021, 44, 431-436.	1.4	7
79	Structure determination of the human TRPV1 ankyrin-repeat domain under nonreducing conditions. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 130-137.	0.8	7
80	Determination of the physiological range of oxygen tension in bone marrow monocytes using two-photon phosphorescence lifetime imaging microscopy. <i>Scientific Reports</i> , 2022, 12, 3497.	3.4	7
81	Functionally deficient <i>TRPV6</i> variants contribute to hereditary and familial chronic pancreatitis. <i>Human Mutation</i> , 2022, 43, 228-239.	2.5	7
82	Transportsomes and channelsomes: Are they functional units for physiological responses?. <i>Channels</i> , 2011, 5, 387-390.	2.8	6
83	TRPC3 amplifies B-cell receptor-induced ERK signalling via protein kinase D-dependent Rap1 activation. <i>Biochemical Journal</i> , 2016, 473, 201-210.	3.8	6
84	Ion channelopathies to bridge molecular lesions, channel function, and clinical therapies. <i>Pflügers Archiv European Journal of Physiology</i> , 2020, 472, 733-738.	2.8	6
85	MrgprB4 in trigeminal neurons expressing TRPA1 modulates unpleasant sensations. <i>Journal of Pharmacological Sciences</i> , 2021, 146, 200-205.	2.6	5
86	Sensors and regulatory mechanisms of thermal physiology. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 703-704.	2.8	4
87	Deficiency of the $R\hat{I}^2$ subunit of protein kinase A causes body tremor and impaired fear conditioning memory in rats. <i>Scientific Reports</i> , 2021, 11, 2039.	3.4	4
88	Activation of Astrocytes in the Persistence of Post-hypoxic Respiratory Augmentation. <i>Frontiers in Physiology</i> , 2021, 12, 757731.	2.8	4
89	TRPM2 links oxidative stress to the NLRP3 inflammasome activation (P1268). <i>Journal of Immunology</i> , 2013, 190, .	0.8	3
90	Oxygen physiology: sensors and ion channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1-2.	2.8	2

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91	Fluorescence detection of the nitric oxide-induced structural change at the putative nitric oxide sensing segment of TRPC5. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115430.	3.0	2
92	DNA Origami Scaffolds as Templates for Functional Tetrameric Kir3 K <sup>+</sup> Channels. <i>Angewandte Chemie</i> , 2018, 130, 2616-2621.	2.0	1
93	Hippocampus-related cognitive disorders develop in the absence of epilepsy and ataxia in the heterozygous <i>Cacna1a</i> mutant mice <i>tottering</i> . <i>Channels</i> , 2022, 16, 113-126.	2.8	1
94	A two-step screening to optimize the signal response of an auto-fluorescent protein-based biosensor. <i>RSC Advances</i> , 2022, 12, 15407-15419.	3.7	1
95	Mapping of Non-methylated and Methylated Restriction Sites in the Promoter Region of the Maize Gene for Phosphoenolpyruvate Carboxylase Involved in C4Photosynthesis. <i>Agricultural and Biological Chemistry</i> , 1991, 55, 2877-2879.	0.3	0
96	3P-005 3D structure of tetrameric Orai1 channel; a teardrop-shaped structure with a long, tapered cytoplasmic domain(Protein:Structure,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009, 49, S151.	0.1	0
97	Visualization of Intracellular Temperature Distribution Using A Thermoresponsive Fluorescent Protein. <i>Seibutsu Butsuri</i> , 2014, 54, 253-256.	0.1	0
98	TRPV4 Channel Activity Is Modulated by Direct Interaction of the Ankyrin Domain to PI(4,5)P <sub>2</sub> . <i>Seibutsu Butsuri</i> , 2015, 55, 262-265.	0.1	0
99	Astrocytes mediate the post-hypoxic persistent respiratory augmentation. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
100	V for versatility: TRPV4 Ca <sup>2+</sup> entry channel plays multiple roles in invadosome regulation. <i>Cell Calcium</i> , 2021, 96, 102387.	2.4	0
101	Molecular basis for species-selective insecticidal activity of flubendiamide. <i>Journal of Pesticide Sciences</i> , 2011, 36, 102-105.	1.4	0
102	Current studies and possibilities of cation/Ca <sup>2+</sup> channels as a target of pesticides. <i>Japanese Journal of Pesticide Science</i> , 2015, 40, 68-74.	0.0	0
103	Unveiled cold sensitivity of TRPA1 by the prolyl hydroxylation inhibition-induced sensitization to ROS in oxaliplatin-induced acute peripheral neuropathy. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO2-2-42.	0.0	0
104	Role of transient receptor potential melastatin 2 in surgical inflammation and dysmotility in a mouse model of post-operative ileus. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, OR21-1.	0.0	0
105	Fluorescent imaging of in vivo H <sub>2</sub> O <sub>2</sub> levels reveals contribution of oxidative microenvironment to tumor malignancy. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO2-10-36.	0.0	0
106	Spontaneous Ca <sup>2+</sup> fluctuations mediated by TRPM7 channels in growth plate chondrocytes. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO1-4-31.	0.0	0
107	Protective effect of duloxetine against cerebral ischemia-reperfusion injury through TRPM2 inhibition. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO2-1-14.	0.0	0
108	TRPM2 confers susceptibility to social stress but is essential for behavioral flexibility. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2019, 92, 2-P-021.	0.0	0

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109	Pathophysiological role of mitochondria-actin interactions in mouse hearts after myocardial infarction. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 2-YIA-21.	0.0	0