

# Youichi Shinozaki

## List of Publications by Year in descending order

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62  
papers

2,561  
citations

304701

22  
h-index

197805

49  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3518  
citing authors

#	ARTICLE	IF	CITATIONS
1	UDP acting at P2Y6 receptors is a mediator of microglial phagocytosis. <i>Nature</i> , 2007, 446, 1091-1095.	27.8	698
2	Transformation of Astrocytes to a Neuroprotective Phenotype by Microglia via P2Y1 Receptor Downregulation. <i>Cell Reports</i> , 2017, 19, 1151-1164.	6.4	264
3	Microglia release ATP by exocytosis. <i>Glia</i> , 2013, 61, 1320-1330.	4.9	150
4	Cortical astrocytes rewire somatosensory cortical circuits for peripheral neuropathic pain. <i>Journal of Clinical Investigation</i> , 2016, 126, 1983-1997.	8.2	146
5	Direct Observation of ATP-Induced Conformational Changes in Single P2X4 Receptors. <i>PLoS Biology</i> , 2009, 7, e1000103.	5.6	98
6	Microglia trigger astrocyte-mediated neuroprotection via purinergic gliotransmission. <i>Scientific Reports</i> , 2014, 4, 4329.	3.3	88
7	Anti-Depressant Fluoxetine Reveals its Therapeutic Effect Via Astrocytes. <i>EBioMedicine</i> , 2018, 32, 72-83.	6.1	80
8	Polymorphic regulation of mitochondrial fission and fusion modifies phenotypes of microglia in neuroinflammation. <i>Scientific Reports</i> , 2017, 7, 4942.	3.3	76
9	The Astrocyte-Targeted Therapy by Bushi for the Neuropathic Pain in Mice. <i>PLoS ONE</i> , 2011, 6, e23510.	2.5	65
10	Cytoprotection against oxidative stress-induced damage of astrocytes by extracellular ATP via P2Y1 receptors. <i>Glia</i> , 2005, 49, 288-300.	4.9	63
11	Microglia mediate non-cell-autonomous cell death of retinal ganglion cells. <i>Glia</i> , 2018, 66, 2366-2384.	4.9	62
12	In Vitro Blood-Brain Barrier Models Using Brain Capillary Endothelial Cells Isolated from Neonatal and Adult Rats Retain Age-Related Barrier Properties. <i>PLoS ONE</i> , 2013, 8, e55166.	2.5	53
13	Reactive astrocyte-driven epileptogenesis is induced by microglia initially activated following status epilepticus. <i>JCI Insight</i> , 2021, 6, .	5.0	47
14	Astrocytes Protect Neurons against Methylmercury via ATP/P2Y1 Receptor-Mediated Pathways in Astrocytes. <i>PLoS ONE</i> , 2013, 8, e57898.	2.5	46
15	Potential roles of astrocytes and Müller cells in the pathogenesis of glaucoma. <i>Journal of Pharmacological Sciences</i> , 2021, 145, 262-267.	2.5	39
16	Ca <sup>2+</sup> ion transport through channels formed by $\beta$ -hemolysin analyzed using a microwell array on a Si substrate. <i>Biosensors and Bioelectronics</i> , 2012, 31, 445-450.	10.1	37
17	Extracellular ATP counteracts the ERK1/2-mediated death-promoting signaling cascades in astrocytes. <i>Glia</i> , 2006, 54, 606-618.	4.9	36
18	Urothelial ATP exocytosis: regulation of bladder compliance in the urine storage phase. <i>Scientific Reports</i> , 2016, 6, 29761.	3.3	35

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19	Retinoic acids acting through retinoid receptors protect hippocampal neurons from oxygen-glucose deprivation-mediated cell death by inhibition of c-jun-N-terminal kinase and p38 mitogen-activated protein kinase. <i>Neuroscience</i> , 2007, 147, 153-163.	2.3	34
20	Clock Genes Regulate the Circadian Expression of Piezo1, TRPV4, Connexin26, and VNUT in an Ex Vivo Mouse Bladder Mucosa. <i>PLoS ONE</i> , 2017, 12, e0168234.	2.5	34
21	The Novel Compounds That Activate Farnesoid X Receptor: the Diversity of Their Effects on Gene Expression. <i>Journal of Pharmacological Sciences</i> , 2008, 107, 285-294.	2.5	33
22	Confinement of Fluorescent Probes in Microwells on Si Substrates by Sealing with Lipid Bilayers. <i>Applied Physics Express</i> , 2010, 3, 107001.	2.4	23
23	The oscillation of intracellular Ca <sup>2+</sup> influx associated with the circadian expression of Piezo1 and TRPV4 in the bladder urothelium. <i>Scientific Reports</i> , 2018, 8, 5699.	3.3	23
24	Differential modulation of PI3-kinase/Akt pathway during all-trans retinoic acid- and Am80-induced HL-60 cell differentiation revealed by DNA microarray analysis. <i>Biochemical Pharmacology</i> , 2004, 68, 2177-2186.	4.4	22
25	The <i>Clock</i> mutant mouse is a novel experimental model for nocturia and nocturnal polyuria. <i>Neurourology and Urodynamics</i> , 2017, 36, 1034-1038.	1.5	20
26	Purinergic dysregulation causes hypertensive glaucoma-like optic neuropathy. <i>JCI Insight</i> , 2017, 2, .	5.0	20
27	Müller cell-mediated neurite outgrowth of the retinal ganglion cells via P2Y <sub>6</sub> receptor signals. <i>Journal of Neurochemistry</i> , 2016, 136, 741-751.	3.9	18
28	Intermittent restraint stress induces circadian misalignment in the mouse bladder, leading to nocturia. <i>Scientific Reports</i> , 2019, 9, 10069.	3.3	18
29	Microglial ROCK is essential for chronic methylmercury-induced neurodegeneration. <i>Journal of Neurochemistry</i> , 2019, 151, 64-78.	3.9	18
30	The Circadian expression of <i>Piezo1</i> , <i>TRPV4</i> , <i>Connexin26</i> , and <i>VNUT</i> , associated with the expression levels of the clock genes in mouse primary cultured urothelial cells. <i>Neurourology and Urodynamics</i> , 2018, 37, 942-951.	1.5	16
31	Screening of novel nuclear receptor agonists by a convenient reporter gene assay system using green fluorescent protein derivatives. <i>Phytomedicine</i> , 2006, 13, 401-411.	5.3	15
32	Evaluation of M1-microglial activation by neurotoxic metals using optimized organotypic cerebral slice cultures. <i>Journal of Toxicological Sciences</i> , 2019, 44, 471-479.	1.5	14
33	Transnasal transplantation of human induced pluripotent stem cell-derived microglia to the brain of immunocompetent mice. <i>Glia</i> , 2021, 69, 2332-2348.	4.9	14
34	Visualization of Single Membrane Protein Structure in Stretched Lipid Bilayer Suspended over Nanowells. <i>Applied Physics Express</i> , 2010, 3, 027002.	2.4	14
35	Transient astrocytic mGluR5 expression drives synaptic plasticity and subsequent chronic pain in mice. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	14
36	Multidrug Resistant Cancer Cells Susceptibility to Cytotoxic Taxane Diterpenes from <i>Taxus yunnanensis</i> and <i>Taxus chinensis</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 2785-2788.	2.2	12

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37	Pattern Formation and Molecular Transport of Histidine-Tagged GFPs Using Supported Lipid Bilayers. <i>Langmuir</i> , 2010, 26, 12716-12721.	3.5	10
38	The time-dependent variation of ATP release in mouse primary cultured urothelial cells is regulated by the clock gene. <i>Neurourology and Urodynamics</i> , 2018, 37, 2535-2543.	1.5	10
39	Adenosine $A_{2B}$ receptor downregulates metabotropic glutamate receptor 5 in astrocytes during postnatal development. <i>Glia</i> , 2021, 69, 2546-2558.	4.9	10
40	Dantaxusins A and B, Two New Taxoids from <i>Taxus yunnanensis</i> . <i>Journal of Natural Products</i> , 2001, 64, 1073-1076.	3.0	9
41	Elastic modulus of suspended purple membrane measured by atomic force microscopy. <i>Applied Surface Science</i> , 2008, 254, 7877-7880.	6.1	9
42	Effect of $Ca^{2+}$ on Vesicle Fusion on Solid Surface: An In vitro Model of Protein-Accelerated Vesicle Fusion. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 6164.	1.5	9
43	Dantaxusins C and D, Two Novel Taxoids from <i>Taxus yunnanensis</i> . <i>Journal of Natural Products</i> , 2002, 65, 371-374.	3.0	7
44	Atomic Force Microscopy Observation of Membrane Proteins Suspended over Carbon Nanotube Network. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JB18.	1.5	7
45	Examination of Ion Channel Protein Orientation in Supported Lipid Bilayers. <i>Applied Physics Express</i> , 2011, 4, 107001.	2.4	7
46	Ligand-induced structural changes in a membrane-reconstituted ion channel observed with atomic force microscopy. <i>Applied Physics Express</i> , 2014, 7, 027001.	2.4	7
47	Development of a label-free ATP image sensor for analyzing spatiotemporal patterns of ATP release from biological tissues. <i>Sensors and Actuators B: Chemical</i> , 2021, 335, 129686.	7.8	7
48	Loss of $P2Y_1$ receptors triggers glaucoma-like pathology in mice. <i>British Journal of Pharmacology</i> , 2021, 178, 4552-4571.	5.4	7
49	The <i>Mlc1</i> Promoter Directs Müller Cell-specific Gene Expression in the Retina. <i>Translational Vision Science and Technology</i> , 2022, 11, 25.	2.2	4
50	Label-Free Real-Time Imaging of Extracellular Lactate From a Hippocampal Slice Based on Charge-Transfer-Type Potentiometric Redox Sensor Arrays. , 2019, , .		2
51	Cell analysis system using a filter-free fluorescence sensor. , 2017, , .		1
52	Label-free real-time imaging of extracellular $Ca^{2+}$ uptake in the hippocampal slice using Ca-PVC membrane based on charge-transfer-type potentiometric sensor arrays. , 2019, , .		1
53	Direct Observation of Bio-molecule Topology Using Atomic Force Microscopy. <i>Hyomen Kagaku</i> , 2011, 32, 104-109.	0.0	1
54	Analysis of ion Channel Activities in Lipid Bilayers Suspended Over Microwells on Si Substrates. <i>Biophysical Journal</i> , 2011, 100, 471a.	0.5	0

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55	The astrocyte-targeted therapy by Bushi for the neuropathic pain. Neuroscience Research, 2011, 71, e157-e158.	1.9	0
56	Hydrogen Ion Microscope Using 2 ÅµM Pitch pH Image Sensor for Analysis of Mouse Hippocampal Slice. , 2019, , .		0
57	Hydrogen Ion Image Sensor with Barrel Array Diffusion Suppressor and Hippocampal Slice Imaging. , 2019, , .		0
58	AFM Observation of Single Membrane Proteins and its Application to Nano Biodevices. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1735-1740.	0.2	0
59	Nano-imaging for glia-synapse fine structures with a homemade near-field optical microscope. , 2015, , .		0
60	Nano-imaging for glia-synapse fine structures with a homemade near-field optical microscope. , 2015, , .		0
61	An essential role of astrocytic mGluR5 in the somatosensory cortex in regulation of synaptogenesis and neuropathic pain. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO2-1-63.	0.0	0
62	Mechanisms underlying down-regulation of mGluR5 in astrocytes with ages. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO1-1-99.	0.0	0