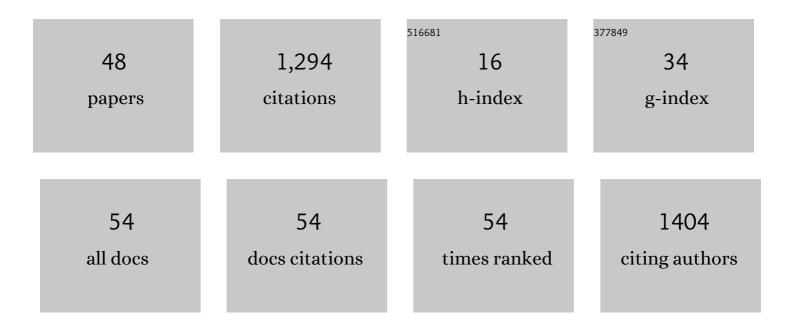
Satoshi Sawai

List of Publications by Year in descending order

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SATOSHI SAMAI

#	Article	IF	CITATIONS
1	Two-Round Ca ²⁺ transient in papillae by mechanical stimulation induces metamorphosis in the ascidian <i>Ciona intestinalis</i> type A. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203207.	2.6	14
2	Rap1 Is Essential for B-Cell Locomotion, Germinal Center Formation and Normal B-1a Cell Population. Frontiers in Immunology, 2021, 12, 624419.	4.8	2
3	Comparative mapping of crawling-cell morphodynamics inÂdeep learning-based feature space. PLoS Computational Biology, 2021, 17, e1009237.	3.2	15
4	Three-dimensional morphodynamic simulations of macropinocytic cups. IScience, 2021, 24, 103087.	4.1	17
5	Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis. Nature Communications, 2021, 12, 7145.	12.8	30
6	Microtopographical guidance of macropinocytic signaling patches. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
7	Phosphatidic acid-dependent localization and basal de-phosphorylation of RA-GEFs regulate lymphocyte trafficking. BMC Biology, 2020, 18, 75.	3.8	6
8	Phosphorylated Rho–GDP directly activates mTORC2 kinase towards AKT through dimerization with Ras–GTP to regulate cell migration. Nature Cell Biology, 2019, 21, 867-878.	10.3	58
9	Tissue self-organization based on collective cell migration by contact activation of locomotion and chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4291-4296.	7.1	48
10	Fold-change detection and scale invariance of cell–cell signaling in social amoeba. Proceedings of the United States of America, 2017, 114, E4149-E4157.	7.1	36
11	The microfluidic lighthouse: an omnidirectional gradient generator. Lab on A Chip, 2016, 16, 4382-4394.	6.0	29
12	A novel, lineage-primed prestalk cell subtype involved in the morphogenesis of D. discoideum. Developmental Biology, 2016, 416, 286-299.	2.0	2
13	RNA decay systems enhance reciprocal switching of sense and antisense transcripts in response to glucose starvation. Genes To Cells, 2016, 21, 1276-1289.	1.2	8
14	Cellular Sensing of Time and Space: Chemotactic Wave Paradox and Rectification of the Leading Edge Response. Seibutsu Butsuri, 2016, 56, 098-101.	0.1	0
15	Dissecting Spatial and Temporal Sensing in Dictyostelium Chemotaxis Using a Wave Gradient Generator. Methods in Molecular Biology, 2016, 1407, 107-122.	0.9	6
16	Self-organization of chemoattractant waves in <i>Dictyostelium</i> depends on F-actin and cell–substrate adhesion. Journal of the Royal Society Interface, 2016, 13, 20160233.	3.4	16
17	Rectified directional sensing in long-range cell migration. Nature Communications, 2014, 5, 5367.	12.8	89
18	Robustness of Self-Organizing Chemoattractant Field Arising from Precise Pulse Induction of Its Breakdown Enzyme: A Single-Cell Level Analysis of PDE Expression in Dictyostelium. Biophysical Journal, 2013, 104, 1191-1202.	0.5	19

#	Article	IF	CITATIONS
19	A Design Principle of Group-level Decision Making in Cell Populations. PLoS Computational Biology, 2013, 9, e1003110.	3.2	21
20	Phosphorylation of chemoattractant receptors regulates chemotaxis, actin re-organization, and signal-relay. Journal of Cell Science, 2013, 126, 4614-26.	2.0	31
21	Phase geometries of two-dimensional excitable waves govern self-organized morphodynamics of amoeboid cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5016-5021.	7.1	128
22	1P189 Roles of actin polymerization in the collective cAMP oscillations(12.Cell biology,Poster,The 51st) Tj ETQqO	0.0 rgBT / 0.1	Overlock 10
23	1P273 A Design Principle of Group-level Decision Making in Cell Populations(24. Mathematical) Tj ETQq1 1 0.784	814 rgBT / 0.1	Overlock 10
24	3P229 Directional-sensing and rectified cell motion towards termporally changing gradient(14.) Tj ETQq0 0 0 rgB	۲ /Overloc 0.1	k 10 Tf 50 54
25	The Green Tea Catechin Epigallocatechin Gallate (EGCG) Blocks Cell Motility, Chemotaxis and Development in Dictyostelium discoideum. PLoS ONE, 2013, 8, e59275.	2.5	17
26	2PT239 Phase response of the collective cAMP oscillations in Dictyostelium discoideum and its implication to the adaptive properties(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S145.	0.1	0
27	2PS045 Live-cell imaging and analysis of cAMP-induced cAMP response in Dictyostelium using microfluidics chambers(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S118.	0.1	0
28	3K1012 Phase singularity dynamics in self-organizing phosphatidylinositiol waves(Cell biology 3,The) Tj ETQq0 0 C) rgBT /Ov 0.1	erlock 10 Tf
29	3C1322 Relation between collective cell migration and self-organization of chemoattractant waves(3C) Tj ETQq1 S114.	1 0.78431 0.1	l4 rgBT /Ove 0
30	Collective oscillations in developing cells: Insights from simple systems. Development Growth and Differentiation, 2011, 53, 503-517.	1.5	20
31	2P231 Mutational analyses of PIP3/F-actin wave nucleation and propagation(The 48th Annual Meeting) Tj ETQq1	1 0,78431 0.1	4 rgBT /Ove
32	2SA1350 Roles of de-adaptation during the collective cAMP oscillations in Dictyostelium(2SA) Tj ETQq0 0 0 rgBT Seibutsu Butsuri, 2010, 50, S7.	Overlock 0.1	10 Tf 50 227 0
33	3P193 Phase singularity analysis of self-organizing phosphatidylinositol waves in Dictyostelium discoideum cells(Cell biology,The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S179.	0.1	0
34	SunB, a novel Sad1 and UNCâ€84 domain ontaining protein required for development of <i>Dictyostelium discoideum</i> . Development Growth and Differentiation, 2010, 52, 577-590.	1.5	15
35	Comments to †Biophysics and "What is Life?â€â€™. Seibutsu Butsuri, 2010, 50, 266-267.	0.1	0
36	The Onset of Collective Behavior in Social Amoebae. Science, 2010, 328, 1021-1025.	12.6	283

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#	Article	IF	CITATIONS
37	2P-319 Intra- and inter-cellular feedback signaling drives collective dynamics of cell population(The) Tj ETQq1 1	0.784314	rgBT /Overloo
38	High-throughput analysis of spatio-temporal dynamics in Dictyostelium. Genome Biology, 2007, 8, R144.	9.6	45
39	Regulation of G protein-coupled cAMP receptor activation by a hydrophobic residue in transmembrane helix 3. Molecular Microbiology, 2007, 65, 508-520.	2.5	4
40	The histidine kinase homologue DhkK/Sombrero controls morphogenesis in Dictyostelium. Developmental Biology, 2006, 292, 358-370.	2.0	13
41	An autoregulatory circuit for long-range self-organization in Dictyostelium cell populations. Nature, 2005, 433, 323-326.	27.8	152
42	Population Fitness and the Regulation of Escherichia coli Genes by Bacterial Viruses. PLoS Biology, 2005, 3, e229.	5.6	90
43	Cell Movements and Mechanical Force Distribution During the Migration of Dictyostelium Slugs. Journal of Biological Physics, 2004, 30, 345-364.	1.5	11
44	Rapid patterning and zonal differentiation in a two-dimensional <i>Dictyostelium</i> cell mass: the role of pH and ammonia. Journal of Experimental Biology, 2002, 205, 2583-2590.	1.7	5
45	Rapid patterning and zonal differentiation in a two-dimensional Dictyostelium cell mass: the role of pH and ammonia. Journal of Experimental Biology, 2002, 205, 2583-90.	1.7	5
46	Rapid patterning in 2-D cultures of Dictyostelium cells and its relationship to zonal differentiation. Development Growth and Differentiation, 2000, 42, 551-560.	1.5	5
47	Spontaneous Symmetry Breaking Turing-Type Pattern Formation in a ConfinedDictyosteliumCell Mass. Physical Review Letters, 2000, 85, 2212-2215.	7.8	30
48	Coupled Oscillators with Chemotaxis. Journal of the Physical Society of Japan, 1998, 67, 2557-2560.	1.6	9