

Tetsuya Kitaguchi

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,396
citations

218677

26
h-index

223800

46
g-index

64
all docs

64
docs citations

64
times ranked

3783
citing authors

#	ARTICLE	IF	CITATIONS
1	IP3 Receptor Types 2 and 3 Mediate Exocrine Secretion Underlying Energy Metabolism. <i>Science</i> , 2005, 309, 2232-2234.	12.6	285
2	Illuminating cell-cycle progression in the developing zebrafish embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20812-20817.	7.1	205
3	Visualization of an endogenous retinoic acid gradient across embryonic development. <i>Nature</i> , 2013, 496, 363-366.	27.8	190
4	The G Protein-coupled Receptor Family C Group 6 Subtype A (GPC6A) Receptor Is Involved in Amino Acid-induced Glucagon-like Peptide-1 Secretion from GLUTag Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 4513-4521.	3.4	125
5	Red fluorescent protein-based cAMP indicator applicable to optogenetics and in vivo imaging. <i>Scientific Reports</i> , 2017, 7, 7351.	3.3	117
6	Distinct temporal integration of noradrenaline signaling by astrocytic second messengers during vigilance. <i>Nature Communications</i> , 2020, 11, 471.	12.8	102
7	Genetically-Encoded Yellow Fluorescent cAMP Indicator with an Expanded Dynamic Range for Dual-Color Imaging. <i>PLoS ONE</i> , 2014, 9, e100252.	2.5	98
8	RGB Color Intensiometric Indicators to Visualize Spatiotemporal Dynamics of ATP in Single Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10873-10878.	13.8	78
9	Optical visualisation of thermogenesis in stimulated single-cell brown adipocytes. <i>Scientific Reports</i> , 2017, 7, 1383.	3.3	77
10	Extracellular calcium influx activates adenylate cyclase 1 and potentiates insulin secretion in MIN6 cells. <i>Biochemical Journal</i> , 2013, 450, 365-373.	3.7	72
11	An Inhibitor of TRPV1 Channels Isolated from Funnel Web Spider Venom. <i>Biochemistry</i> , 2005, 44, 15544-15549.	2.5	67
12	Stabilizing the Closed S6 Gate in the Shaker K v Channel Through Modification of a Hydrophobic Seal. <i>Journal of General Physiology</i> , 2004, 124, 319-332.	1.9	63
13	Graphene Field Effect Transistor-Based Immunosensor for Ultrasensitive Noncompetitive Detection of Small Antigens. <i>ACS Sensors</i> , 2020, 5, 24-28.	7.8	58
14	Vesicular nucleotide transporter is involved in ATP storage of secretory lysosomes in astrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 145-151.	2.1	54
15	Duration of fusion pore opening and the amount of hormone released are regulated by myosin II during kiss-and-run exocytosis. <i>Biochemical Journal</i> , 2010, 429, 497-504.	3.7	50
16	Green Fluorescent Protein-Based Glucose Indicators Report Glucose Dynamics in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 4821-4830.	6.5	47
17	Transcriptional regulation of a myeloid-lineage specific gene lysozyme C during zebrafish myelopoiesis. <i>Mechanisms of Development</i> , 2009, 126, 314-323.	1.7	45
18	Flashbody: A Next Generation Fluobody with Fluorescence Intensity Enhanced by Antigen Binding. <i>Analytical Chemistry</i> , 2017, 89, 6719-6725.	6.5	44

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19	Release of TNF α from macrophages is mediated by small GTPase Rab37. <i>European Journal of Immunology</i> , 2011, 41, 3230-3239.	2.9	43
20	Expression and Functional Characterization of an Abnormal Platelet Membrane Glycoprotein Ib α (Met239 \rightarrow Val) Reported in Patients With Platelet-Type von Willebrand Disease. <i>Blood</i> , 1997, 90, 698-705.	1.4	40
21	Age-dependent Preferential Dense-Core Vesicle Exocytosis in Neuroendocrine Cells Revealed by Newly Developed Monomeric Fluorescent Timer Protein. <i>Molecular Biology of the Cell</i> , 2010, 21, 87-94.	2.1	39
22	Wide and high resolution tension measurement using FRET in embryo. <i>Scientific Reports</i> , 2016, 6, 28535.	3.3	37
23	Xenopus Brachyury regulates mesodermal expression of Zic3, a gene controlling left-right asymmetry. <i>Development Growth and Differentiation</i> , 2002, 44, 55-61.	1.5	35
24	Generation of a cGMP Indicator with an Expanded Dynamic Range by Optimization of Amino Acid Linkers between a Fluorescent Protein and PDE5 α . <i>ACS Sensors</i> , 2017, 2, 46-51.	7.8	35
25	Lysophosphatidylinositol-induced activation of the cation channel TRPV2 triggers glucagon-like peptide-1 secretion in enteroendocrine L cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 10855-10864.	3.4	29
26	Characterization of Liposomes Carrying von Willebrand Factor-Binding Domain of Platelet Glycoprotein Ib α : A Potential Substitute for Platelet Transfusion. <i>Biochemical and Biophysical Research Communications</i> , 1999, 261, 784-789.	2.1	28
27	Creation of a Nanobody-Based Fluorescent Immunosensor Mini Q-body for Rapid Signal-On Detection of Small Hapten Methotrexate. <i>ACS Sensors</i> , 2020, 5, 3457-3464.	7.8	28
28	Green fluorescent protein-based lactate and pyruvate indicators suitable for biochemical assays and live cell imaging. <i>Scientific Reports</i> , 2020, 10, 19562.	3.3	27
29	Positive Allosteric Modulation of the Calcium-sensing Receptor by Physiological Concentrations of Glucose. <i>Journal of Biological Chemistry</i> , 2016, 291, 23126-23135.	3.4	25
30	Ca ²⁺ -associated triphasic pH changes in mitochondria during brown adipocyte activation. <i>Molecular Metabolism</i> , 2017, 6, 797-808.	6.5	19
31	Modulation of Local Cellular Activities using a Photothermal Dye-Based Subcellular-Sized Heat Spot. <i>ACS Nano</i> , 2022, 16, 9004-9018.	14.6	17
32	Xenopus Polycomblike 2 (XPcl2) controls anterior to posterior patterning of the neural tissue. <i>Development Genes and Evolution</i> , 2001, 211, 309-314.	0.9	16
33	PM Q-probe: A fluorescent binding protein that converts many antibodies to a fluorescent biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112425.	10.1	16
34	Glutamine-induced signaling pathways via amino acid receptors in enteroendocrine L cell lines. <i>Journal of Molecular Endocrinology</i> , 2020, 64, 133-143.	2.5	15
35	Development of red genetically encoded biosensor for visualization of intracellular glucose dynamics. <i>Cell Chemical Biology</i> , 2022, 29, 98-108.e4.	5.2	14
36	Integrative function of adrenaline receptors for glucagon-like peptide-1 exocytosis in enteroendocrine L cell line GLUTag. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 1053-1058.	2.1	13

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37	The small GTPase Cdc42 modulates the number of exocytosis-competent dense-core vesicles in PC12 cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 417-421.	2.1	12
38	Noncompetitive homogeneous immunodetection of small molecules based on beta-glucuronidase complementation. <i>Analyst, The</i> , 2018, 143, 2096-2101.	3.5	12
39	Sonic hedgehog enhances calcium oscillations in hippocampal astrocytes. <i>Journal of Biological Chemistry</i> , 2019, 294, 16034-16048.	3.4	11
40	High Shear Stress Attenuates Agonist-Induced, Glycoprotein IIb/IIIa-Mediated Platelet Aggregation When von Willebrand Factor Binding to Glycoprotein Ib/IX Is Blocked. <i>Biochemical and Biophysical Research Communications</i> , 1997, 233, 796-800.	2.1	10
41	Low glucose-induced ghrelin secretion is mediated by an ATP-sensitive potassium channel. <i>Journal of Endocrinology</i> , 2015, 226, 25-34.	2.6	10
42	Creation of stable and strictly regulated enzyme switch for signal-on immunodetection of various small antigens. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 677-682.	2.2	9
43	Transmembrane signaling on a protocell: Creation of receptor-enzyme chimeras for immunodetection of specific antibodies and antigens. <i>Scientific Reports</i> , 2019, 9, 18189.	3.3	9
44	Rapid construction of fluorescence quenching-based immunosensor Q-bodies using α -helical coiled-coil peptides. <i>Chemical Communications</i> , 2021, 57, 8206-8209.	4.1	8
45	CHARACTERIZATION OF THE GENE ENCODING MOUSE PLATELET GLYCOPROTEIN Ib β 1 The nucleotide sequence data reported in this paper will appear in the DDBJ, EMBL and GenBank nucleotide sequence databases with the accession number AB001419.. <i>Thrombosis Research</i> , 1997, 87, 235-244.	1.7	7
46	RGB α Color Intensiometric Indicators to Visualize Spatiotemporal Dynamics of ATP in Single Cells. <i>Angewandte Chemie</i> , 2018, 130, 11039-11044.	2.0	6
47	Molecular basis of ubiquitin-specific protease 8 autoinhibition by the WW-like domain. <i>Communications Biology</i> , 2021, 4, 1272.	4.4	6
48	Intracellular bottom-up generation of targeted nanosensors for single-molecule imaging. <i>Nanoscale</i> , 2016, 8, 3218-3225.	5.6	5
49	Characterization of cDNA encoding full-length mouse platelet glycoprotein IX. <i>Blood Coagulation and Fibrinolysis</i> , 1998, 9, 381-386.	1.0	4
50	Construction of Fluorescent Immunosensor Quenchbody to Detect His-Tagged Recombinant Proteins Produced in Bioprocess. <i>Sensors</i> , 2021, 21, 4993.	3.8	4
51	Evaluation and selection of potent fluorescent immunosensors by combining fluorescent peptide and nanobodies displayed on yeast surface. <i>Scientific Reports</i> , 2021, 11, 22590.	3.3	4
52	Observations of intracellular tension dynamics of MC3T3-E1 cells during substrate adhesion using a FRET-based actinin tension sensor. <i>Journal of Biomechanical Science and Engineering</i> , 2016, 11, 16-00504-16-00504.	0.3	3
53	Simple Fluorogenic Cellular Assay for Histone Deacetylase Inhibitors Based on Split-Yellow Fluorescent Protein and Intrabodies. <i>ACS Omega</i> , 2021, 6, 10039-10046.	3.5	3
54	Establishment and Characterization of Transgenic Mice Expressing Human Platelet Glycoprotein Ib β . <i>Biochemical and Biophysical Research Communications</i> , 1996, 220, 418-424.	2.1	2

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55	Development of a Single Fluorescent Protein-Based Green Glucose Indicator by Semirational Molecular Design and Molecular Evolution. <i>Methods in Molecular Biology</i> , 2021, 2274, 89-100.	0.9	2
56	A novel FRET analysis method for tension dynamics in a single actin stress fiber: Application to MC3T3-E1 cells during movement on a substrate. <i>Journal of Biorheology</i> , 2019, 33, 21-26.	0.5	1
57	Polymorphic Region-Specific Antibody for Evaluation of Affinity-Associated Profile of Chimeric Antigen Receptor. <i>Molecular Therapy - Oncolytics</i> , 2020, 17, 293-305.	4.4	1
58	Expression and Functional Characterization of an Abnormal Platelet Membrane Glycoprotein Ib β (Met239 \rightarrow Val) Reported in Patients With Platelet-Type von Willebrand Disease. <i>Blood</i> , 1997, 90, 698-705.	1.4	1
59	Myosin II modulates a size of exocytotic fusion pore in neuroendocrine cells. <i>Neuroscience Research</i> , 2009, 65, S220-S221.	1.9	0