Tai Kubo

List of Publications by Year in descending order

70 papers	3,787 citations	236833 25 h-index	155592 55 g-index
73 all docs	73 docs citations	73 times ranked	1921 citing authors

#	Article	IF	Citations
1	Living-Cell Diffracted X-ray Tracking Analysis Confirmed Internal Salt Bridge Is Critical for Ligand-Induced Twisting Motion of Serotonin Receptors. International Journal of Molecular Sciences, 2021, 22, 5285.	1.8	9
2	X-ray-based living-cell motion analysis of individual serotonin receptors. Biochemical and Biophysical Research Communications, 2020, 529, 306-313.	1.0	17
3	Agonist and Antagonist-Diverted Twisting Motions of a Single TRPV1 Channel. Journal of Physical Chemistry B, 2020, 124, 11617-11624.	1.2	13
4	cDNA Display of Disulfide-Containing Peptide Library and In Vitro Evolution. Methods in Molecular Biology, 2020, 2070, 57-77.	0.4	0
5	Toward understanding of internal motion measurement with quantum probe and cryo-EM. Japanese Journal of Pesticide Science, 2019, 44, 210-215.	0.0	0
6	Rotational Brownian Motion of TRPV1 Channel Observed by Synchrotron Diffracted X-Ray Tracking and Laboratory X-Ray Blinking Analysis. Biophysical Journal, 2018, 114, 481a.	0.2	0
7	Diffracted X-ray Blinking Tracks Single Protein Motions. Scientific Reports, 2018, 8, 17090.	1.6	23
8	3D Motion Maps of TRPV1 Cation Channel Depicted by Diffracted X-ray Tracking Method. Biophysical Journal, 2017, 112, 201a.	0.2	0
9	Modulated Dynamics of Pam-Î±7 nAChR From X-Ray Single Molecular Observations. Biophysical Journal, 2017, 112, 327a.	0.2	1
10	Random Peptide Library for Ligand and Drug Discovery. Toxinology, 2017, , 207-230.	0.2	3
11	Peptidome and Transcriptome Analysis of the Toxin-Like Peptides in the Venom Glands of Tarantula Grammostola rosea. , 2016, , 251-270.		0
12	Realtime Single Molecular Motion Analysis of Nicotinic Acetylcholine Receptor Alpha 7 by Diffracted X-Ray Tracking Method. Biophysical Journal, 2016, 110, 222a.	0.2	1
13	A High Performance Platform Based on cDNA Display for Efficient Synthesis of Protein Fusions and Accelerated Directed Evolution. ACS Combinatorial Science, 2016, 18, 117-129.	3.8	9
14	Pr-SNTX, a short-chain three-finger toxin from Papuan pigmy mulga snake, is an antagonist of muscle-type nicotinic acetylcholine receptor (Î±2Î²2Î³Î´). Bioscience, Biotechnology and Biochemistry, 2016, 80, 158-161.	0.6	2
15	Random Peptide Library for Ligand and Drug Discovery. , 2016, , 1-24.		2
16	Peptidome and Transcriptome Analysis of the Toxin-Like Peptides in the Venom Glands of Tarantula Grammostola rosea. , 2015, , 1-16.		0
17	Versatile C-Terminal Specific Biotinylation of Proteins Using Both a Puromycin-Linker and a Cell-Free Translation System for Studying High-Throughput Proteinâ€“Molecule Interactions. Analytical Chemistry, 2014, 86, 8535-8540.	3.2	10
18	Directed evolution of three-finger toxin to produce serine protease inhibitors. Journal of Receptor and Signal Transduction Research, 2014, 34, 154-161.	1.3	10

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19	Real Time Ligand-Induced Motion Mappings of AChBP and nAChR Using X-ray Single Molecule Tracking. Scientific Reports, 2014, 4, 6384.	1.6	39
20	Three-Dimensional Micro Seconds X-Ray Single Molecule Tracking of Nicotinic Acetylcholine Receptor with Picometer Accuracy. Biophysical Journal, 2013, 104, 543a.	0.2	0
21	Molecular Cloning and Sequence Analysis of the cDNAs Encoding Toxin-Like Peptides from the Venom Glands of Tarantula Grammostola rosea. International Journal of Peptides, 2012, 2012, 1-10.	0.7	25
22	High-Speed 2-Dimentional Observation of Stepwise Motions in Single nAChR and AChBP using Diffracted X-Ray Tracking (DXT). Biophysical Journal, 2012, 102, 116a.	0.2	0
23	Development of the Periss Method to Generate GPCR Ligands/Binders from a Random Peptide Library with a Spider Neurotoxin Scaffold. Biophysical Journal, 2012, 102, 657a.	0.2	0
24	Functional characterization of Kunitz-type protease inhibitor Pr-mulgins identified from New Guinean Pseudechis australis. Toxicon, 2012, 59, 74-80.	0.8	23
25	36. Random Peptide Library Based on a Spider Neurotoxin, and Utilization of the Library in in vitro Evolution Directed to GPCR Ligands. Toxicon, 2012, 60, 113.	0.8	3
26	Ligand-Induced Internal Molecular Dynamics of Nicotinic Acetylcholine Receptor Analysis by Diffracted X-Ray Tracking. Biophysical Journal, 2011, 100, 273a.	0.2	0
27	Characterization of voltage-dependent calcium channel blocking peptides from the venom of the tarantula Grammostola rosea. Toxicon, 2011, 58, 265-276.	0.8	33
28	Display of disulfide-rich proteins by complementary DNA display and disulfide shuffling assisted by protein disulfide isomerase. Analytical Biochemistry, 2011, 419, 33-39.	1.1	5
29	Directed evolution of a three-finger neurotoxin by using cDNA display yields antagonists as well as agonists of interleukin-6 receptor signaling. Molecular Brain, 2011, 4, 2.	1.3	35
30	Design of Bio-Inspired Multi-Stage Regulations for Diagnostic Molecular Automata. Journal of Computational and Theoretical Nanoscience, 2010, 7, 831-839.	0.4	2
31	Regional divergence of phospholipase A2-like protein cDNAs between New Guinean and Australian Pseudechis australis. Toxicon, 2010, 56, 637-639.	0.8	6
32	Enhanced activation of the transient receptor potential channel TRPA1 by ajoene, an allicin derivative. Neuroscience Research, 2010, 66, 99-105.	1.0	21
33	cDNA display: a novel screening method for functional disulfide-rich peptides by solid-phase synthesis and stabilization of mRNA-protein fusions. Nucleic Acids Research, 2009, 37, e108-e108.	6.5	95
34	Expression cloning of Xenopus zygote arrest 2 (Xzar2) as a novel epidermalizationâ€promoting factor in early embryos of Xenopus laevis. Genes To Cells, 2009, 14, 583-595.	0.5	6
35	Regulation Effects by Programmed Molecules for Transcription-Based Diagnostic Automata towards Therapeutic Use. Proceedings in Information and Communications Technology, 2009, , 81-89.	0.2	1
36	Experimental analysis of the basic idea on the transcription-based diagnostic automata controlled by programmed molecules. Natural Computing, 2008, 7, 403-421.	1.8	2

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37	Pilosulin 5, a novel histamine-releasing peptide of the Australian ant, Myrmecia pilosula (Jack Jumper) Tj ETQq1 1 0.784314 rgBT /Over	1.4	32
38	Effect of bio-inspired multi-stage regulations for diagnostic molecular automata. , 2008, , .		0
39	Transcriptome analysis and identification of regulators for long-term plasticity inAplysia kurodai. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18602-18607.	3.3	25
40	Experimental Validation of the Transcription-Based Diagnostic Automata with Quantitative Control by Programmed Molecules. , 2008, , 89-98.		1
41	1P322 A Sensitive Biosensor for Specific Ligands of 5-Hydroxytriptamine type-3 receptor(Bioengineering,) Tj ETQq1 1 0.784314 rgBT O S104.	0.0	0
42	Genetic engineering of a Ca2+dependent chemical switch into the linear biomotor kinesin. FEBS Letters, 2006, 580, 3589-3594.	1.3	18
43	Malachite green-conjugated microtubules as mobile bioprobes selective for malachite green aptamers with capturing/releasing ability. Biotechnology and Bioengineering, 2006, 94, 473-480.	1.7	44
44	Selective detection and transport of fully matched DNA by DNA-loaded microtubule and kinesin motor protein. Biotechnology and Bioengineering, 2006, 95, 533-538.	1.7	51
45	Modulation of a Feeding Neural Circuit by Microinjection of K+Channel Expression Genes into a Single Identified Neuron in Aplysia kurodai. Zoological Science, 2004, 21, 369-373.	0.3	2
46	Identification of crotasin, a crotamine-related gene of Crotalus durissus terrificus. Toxicon, 2004, 43, 751-759.	0.8	31
47	Molecular cloning and biological characterization of novel antimicrobial peptides, pilosulin 3 and pilosulin 4, from a species of the Australian ant genus Myrmecia. Archives of Biochemistry and Biophysics, 2004, 428, 170-178.	1.4	61
48	Structure and chromosomal localization of the gene for crotamine, a toxin from the South American rattlesnake, Crotalus durissus terrificus. Toxicon, 2003, 42, 747-752.	0.8	29
49	Cloning and functional characterization of squid voltage-dependent Ca2+ channel Î² subunits: involvement of N-terminal sequences in differential modulation of the current. Neuroscience Research, 2003, 46, 105-117.	1.0	13
50	Functional identification of a cloned squid presynaptic voltage-dependent calcium channel. NeuroReport, 2002, 13, 2389-2393.	0.6	4
51	Cumulative inactivation and the pore domain in the Kv1 channels. Pflugers Archiv European Journal of Physiology, 2002, 443, 720-730.	1.3	2
52	Spontaneous muscle action potentials fail to develop without fetalâ€type acetylcholine receptors. EMBO Reports, 2002, 3, 674-681.	2.0	48
53	Overexpression of and RNA Interference with the CCAAT Enhancer-Binding Protein on Long-Term Facilitation of Aplysia Sensory to Motor Synapses. Learning and Memory, 2001, 8, 220-226.	0.5	71
54	Up- and Down-Modulation of a Cloned Aplysia K⁺Channel (AKv1.1a) by the Activators of Protein Kinase C. Zoological Science, 1995, 12, 35-44.	0.3	9

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55	A new class of noninactivating K+ channels from aplysia capable of contributing to the resting potential and firing patterns of neurons. Neuron, 1994, 13, 1205-1213.	3.8	55
56	Molecular Basis of the Muscarinic Acetylcholine Receptor. Annals of the New York Academy of Sciences, 1993, 707, 210-224.	1.8	1
57	Muscarinic acetylcholine receptor subtypes: molecular distinction and selective effector coupling. European Journal of Pharmacology, 1990, 183, 105.	1.7	0
58	Selective coupling with K+ currents of muscarinic acetylcholine receptor subtypes in NG108-15 cells. Nature, 1988, 335, 355-358.	13.7	218
59	Intracellular calcium release mediated by two muscarinic receptor subtypes. FEBS Letters, 1988, 240, 88-94.	1.3	80
60	Different sensitivities to agonist of muscarinic acetylcholine receptor subtypes. FEBS Letters, 1988, 240, 95-100.	1.3	41
61	Tissue distribution of mRNAs encoding muscarinic acetylcholine receptor subtypes. FEBS Letters, 1988, 239, 339-342.	1.3	217
62	Location of a region of the muscarinic acetylcholine receptor involved in selective effector coupling. FEBS Letters, 1988, 241, 119-125.	1.3	168
63	Primary structure of porcine muscarinic acetylcholine receptor III and antagonist binding studies. FEBS Letters, 1988, 235, 257-261.	1.3	90
64	Molecular distinction between muscarinic acetylcholine receptor subtypes. Nature, 1987, 327, 623-625.	13.7	157
65	Primary structure of porcine cardiac muscarinic acetylcholine receptor deduced from the cDNA sequence. FEBS Letters, 1986, 209, 367-372.	1.3	335
66	Cloning, sequencing and expression of complementary DNA encoding the muscarinic acetylcholine receptor. Nature, 1986, 323, 411-416.	13.7	922
67	Cloning, sequencing and expression of cDNA for a novel subunit of acetylcholine receptor from calf muscle. Nature, 1985, 315, 761-764.	13.7	173
68	Cloning and sequence analysis of human genomic DNA encoding gamma subunit precursor of muscle acetylcholine receptor. FEBS Journal, 1985, 146, 15-22.	0.2	114
69	Primary structure of delta subunit precursor of calf muscle acetylcholine receptor deduced from cDNA sequence. FEBS Journal, 1985, 149, 5-13.	0.2	108
70	Isolation and structural organization of the human preproenkephalin B gene. Nature, 1983, 306, 611-614.	13.7	271