

Yasuhiko Kato

List of Publications by Year in descending order

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61
papers

1,945
citations

279798

23
h-index

276875

41
g-index

63
all docs

63
docs citations

63
times ranked

1484
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental Sex Determination in the Branchiopod Crustacean <i>Daphnia magna</i> : Deep Conservation of a Doublesex Gene in the Sex-Determining Pathway. <i>PLoS Genetics</i> , 2011, 7, e1001345.	3.5	265
2	CRISPR/Cas-Mediated Targeted Mutagenesis in <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2014, 9, e98363.	2.5	101
3	Sequence divergence and expression of a transformer gene in the branchiopod crustacean, <i>Daphnia magna</i> . <i>Genomics</i> , 2010, 95, 160-165.	2.9	100
4	Development of an RNA interference method in the cladoceran crustacean <i>Daphnia magna</i> . <i>Development Genes and Evolution</i> , 2011, 220, 337-345.	0.9	93
5	Cloning and characterization of the ecdysone receptor and ultraspiracle protein from the water flea <i>Daphnia magna</i> . <i>Journal of Endocrinology</i> , 2007, 193, 183-194.	2.6	87
6	Molecular cloning and sexually dimorphic expression of DM-domain genes in <i>Daphnia magna</i> . <i>Genomics</i> , 2008, 91, 94-101.	2.9	82
7	Organization and repression by juvenile hormone of a vitellogenin gene cluster in the crustacean, <i>Daphnia magna</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 362-370.	2.1	78
8	A vitellogenin chain containing a superoxide dismutase-like domain is the major component of yolk proteins in cladoceran crustacean <i>Daphnia magna</i> . <i>Gene</i> , 2004, 334, 157-165.	2.2	77
9	Microbiota inoculum composition affects holobiont assembly and host growth in <i>Daphnia</i> . <i>Microbiome</i> , 2018, 6, 56.	11.1	74
10	<i>In Vitro</i> Membrane Protein Synthesis Inside Cell-Sized Vesicles Reveals the Dependence of Membrane Protein Integration on Vesicle Volume. <i>ACS Synthetic Biology</i> , 2014, 3, 372-379.	3.8	70
11	Betaproteobacteria <i>L</i> strains increase fecundity in the crustacean <i>Daphnia magna</i> : symbiotic relationship between major bacterioplankton and zooplankton in freshwater ecosystem. <i>Environmental Microbiology</i> , 2016, 18, 2366-2374.	3.8	57
12	Molecular cloning of doublesex genes of four cladocera (water flea) species. <i>BMC Genomics</i> , 2013, 14, 239.	2.8	53
13	Genomic Integration and Germline Transmission of Plasmid Injected into Crustacean <i>Daphnia magna</i> Eggs. <i>PLoS ONE</i> , 2012, 7, e45318.	2.5	46
14	Transcriptome profiling in crustaceans as a tool for ecotoxicogenomics. <i>Cell Biology and Toxicology</i> , 2008, 24, 641-647.	5.3	40
15	Symbiotic bacteria contribute to increasing the population size of a freshwater crustacean, <i>Daphnia magna</i> . <i>Environmental Microbiology Reports</i> , 2015, 7, 364-372.	2.4	40
16	CRISPR/Cas-mediated knock-in via non-homologous end-joining in the crustacean <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2017, 12, e0186112.	2.5	40
17	A 5â€² UTR-Overlapping lncRNA Activates the Male-Determining Gene <i>doublesex1</i> in the Crustacean <i>Daphnia magna</i> . <i>Current Biology</i> , 2018, 28, 1811-1817.e4.	3.9	39
18	Morphological changes in <i>Daphnia galeata</i> induced by a crustacean terpenoid hormone and its analog. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 232-238.	4.3	35

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19	Molecular impact of juvenile hormone agonists on neonatal <i>Daphnia magna</i> . <i>Journal of Applied Toxicology</i> , 2014, 34, 537-544.	2.8	35
20	Tryptophan hydroxylase (TRH) loss of function mutations induce growth and behavioral defects in <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2018, 8, 1518.	3.3	32
21	Heterodimeric TALENs induce targeted heritable mutations in the crustacean <i>Daphnia magna</i> . <i>Biology Open</i> , 2015, 4, 364-369.	1.2	31
22	Mapping the expression of the sex determining factor Doublesex1 in <i>Daphnia magna</i> using a knock-in reporter. <i>Scientific Reports</i> , 2017, 7, 13521.	3.3	27
23	Construction of an <i>in Vitro</i> Gene Screening System of the <i>E. coli</i> EmrE Transporter Using Liposome Display. <i>Analytical Chemistry</i> , 2016, 88, 12028-12035.	6.5	26
24	Co-option of the bZIP transcription factor Vrille as the activator of Doublesex1 in environmental sex determination of the crustacean <i>Daphnia magna</i> . <i>PLoS Genetics</i> , 2017, 13, e1006953.	3.5	26
25	<i>In vitro</i> membrane protein synthesis inside Sec translocon-reconstituted cell-sized liposomes. <i>Scientific Reports</i> , 2016, 6, 36466.	3.3	23
26	Class III Polyphosphate Kinase 2 Enzymes Catalyze the Pyrophosphorylation of Adenosine 5' Monophosphate. <i>ChemBioChem</i> , 2019, 20, 2961-2967.	2.6	23
27	TALEN-mediated knock-in via non-homologous end joining in the crustacean <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2016, 6, 36252.	3.3	22
28	TALEN-mediated homologous recombination in <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2016, 5, 18312.	3.3	21
29	Early Embryonic Expression of a Putative Ecdysteroid-Phosphate Phosphatase in the Water Flea, <i>Daphnia magna</i> (Cladocera: Daphniidae). <i>Journal of Insect Science</i> , 2014, 14, 181.	1.5	19
30	Liposome-Based <i>In Vitro</i> Evolution of Aminoacyl-tRNA Synthetase for Enhanced Pyrrolysine Derivative Incorporation. <i>ChemBioChem</i> , 2015, 16, 1797-1802.	2.6	19
31	Visualization of ecdysteroid activity using a reporter gene in the crustacean, <i>Daphnia</i> . <i>Marine Environmental Research</i> , 2014, 93, 118-122.	2.5	18
32	Sense-overlapping lncRNA as a decoy of translational repressor protein for dimorphic gene expression. <i>PLoS Genetics</i> , 2021, 17, e1009683.	3.5	18
33	Mutation of the Cytochrome P450 <i>CYP360A8</i> Gene Increases Sensitivity to Paraquat in <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1279-1288.	4.3	17
34	Parasite-mediated selection in a natural metapopulation of <i>Daphnia magna</i> . <i>Molecular Ecology</i> , 2019, 28, 4770-4785.	3.9	16
35	Optimization of mRNA design for protein expression in the crustacean <i>Daphnia magna</i> . <i>Molecular Genetics and Genomics</i> , 2014, 289, 707-715.	2.1	14
36	Generation of white-eyed <i>Daphnia magna</i> mutants lacking scarlet function. <i>PLoS ONE</i> , 2018, 13, e0205609.	2.5	14

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37	The freshwater water flea <i>Daphnia magna</i> NIES strain genome as a resource for CRISPR/Cas9 gene targeting: The glutathione S-transferase omega 2 gene. <i>Aquatic Toxicology</i> , 2022, 242, 106021.	4.0	14
38	Introduction of foreign DNA into the water flea, <i>Daphnia magna</i> , by electroporation. <i>Ecotoxicology</i> , 2010, 19, 589-592.	2.4	13
39	Quantitative analysis of cell-free synthesized membrane proteins at the stabilized droplet interface bilayer. <i>Chemical Communications</i> , 2018, 54, 12226-12229.	4.1	13
40	Effects of symbiotic bacteria on chemical sensitivity of <i>Daphnia magna</i> . <i>Marine Environmental Research</i> , 2017, 128, 70-75.	2.5	12
41	Roles of and cross-talk between ecdysteroid and sesquiterpenoid pathways in embryogenesis of branchiopod crustacean <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2020, 15, e0239893.	2.5	11
42	Atrazine exposed phytoplankton causes the production of non-viable offspring on <i>Daphnia magna</i> . <i>Marine Environmental Research</i> , 2019, 145, 177-183.	2.5	9
43	Two Doublesex1 mutants revealed a tunable gene network underlying intersexuality in <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2020, 15, e0238256.	2.5	9
44	Oligosaccharides derived from dragon fruit modulate gut microbiota, reduce oxidative stress and stimulate toll-pathway related gene expression in freshwater crustacean <i>Daphnia magna</i> . <i>Fish and Shellfish Immunology</i> , 2020, 103, 126-134.	3.6	9
45	Complete mitochondrial genome of the freshwater water flea <i>Daphnia magna</i> NIES strain (Cladocera, Daphniidae): Rearrangement of two ribosomal RNA genes. <i>Mitochondrial DNA Part B: Resources</i> , 2020, 5, 1822-1823.	0.4	8
46	Sequence Conservation and Sexually Dimorphic Expression of the Ftz-F1 Gene in the Crustacean <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2016, 11, e0154636.	2.5	8
47	Production of genome-edited <i>Daphnia</i> for heavy metal detection by fluorescence. <i>Scientific Reports</i> , 2020, 10, 21490.	3.3	7
48	DNMT3.1 controls trade-offs between growth, reproduction, and life span under starved conditions in <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2021, 11, 7326.	3.3	7
49	Cell-Free Synthesis of Human Endothelin Receptors and Its Application to Ribosome Display. <i>Analytical Chemistry</i> , 2022, 94, 3831-3839.	6.5	6
50	Genomic integration and ligand-dependent activation of the human estrogen receptor β in the crustacean <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2018, 13, e0198023.	2.5	5
51	Monitoring ecdysteroid activities using genetically encoded reporter gene in <i>Daphnia magna</i> . <i>Marine Environmental Research</i> , 2018, 140, 375-381.	2.5	5
52	In vitro synthesis of the human calcium transporter Letm1 within cell-sized liposomes and investigation of its lipid dependency. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 544-548.	2.2	5
53	Caloric restriction upregulates the expression of DNMT3.1, lacking the conserved catalytic domain, in <i>Daphnia magna</i> . <i>Genesis</i> , 2020, 58, e23396.	1.6	5
54	Variations in effects of ectosymbiotic microbes on the growth rates among different species and genotypes of <i>Daphnia</i> fed different algal diets. <i>Ecological Research</i> , 2021, 36, 303-312.	1.5	4

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55	Growth evaluation method by live imaging of <i>Daphnia magna</i> and its application to the estimation of an insect growth regulator. <i>Journal of Applied Toxicology</i> , 2015, 35, 68-74.	2.8	3
56	Reduction of histamine and enhanced spinning behavior of <i>Daphnia magna</i> caused by <i>scarlet</i> mutant. <i>Genesis</i> , 2021, 59, e23403.	1.6	3
57	Development of a bicistronic expression system in the branchiopod crustacean <i>Daphnia magna</i> . <i>Genesis</i> , 2017, 55, e23083.	1.6	2
58	Development of transgenic <i>Daphnia magna</i> for visualizing homology-directed repair of DNA. <i>Scientific Reports</i> , 2022, 12, 2497.	3.3	1
59	Regulation of Doublesex1 Expression for Environmental Sex Determination in the Cladoceran Crustacean <i>Daphnia</i> . <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 881255.	3.7	1
60	Genome Editing in the Crustacean <i>Daphnia magna</i> using CRISPR/Cas and TALEN Systems. , 0, , 71-83.		0
61	Biogenesis and Function of the Noncoding Isoform-Type LncRNAs. <i>RNA Technologies</i> , 2020, , 85-102.	0.3	0