Yuichi Oba

List of Publications by Year
in descending order

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89	2,943	185998 28	189595 50
papers	citations	h-index	g-index

94	94	94	2593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Accumulation of anchored proteins forms membrane diffusion barriers during neuronal polarization. Nature Cell Biology, 2003, 5, 626-632.	4.6	324
2	Genetically encodable bioluminescent system from fungi. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12728-12732.	3.3	130
3	The Duality of Fish Gonadotropin Receptors: Cloning and Functional Characterization of a Second Gonadotropin Receptor cDNA Expressed in the Ovary and Testis of Amago Salmon (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	119
4	Synergistic Expression of Ad4BP/SF-1 and Cytochrome P-450 Aromatase (Ovarian Type) in the Ovary of Nile Tilapia, Oreochromis niloticus, During Vitellogenesis Suggests Transcriptional Interaction1. Biology of Reproduction, 2003, 68, 1545-1553.	1.2	114
5	Firefly luciferase is a bifunctional enzyme: ATP-dependent monooxygenase and a long chain fatty acyl-CoA synthetase. FEBS Letters, 2003, 540, 251-254.	1.3	109
6	Firefly genomes illuminate parallel origins of bioluminescence in beetles. ELife, 2018, 7, .	2.8	108
7	Medaka (Oryzias latipes) FTZ-F1 potentially regulates the transcription of P-450 aromatase in ovarian follicles: cDNA cloning and functional characterization. Molecular and Cellular Endocrinology, 1999, 149, 221-228.	1.6	99
8	Cloning, Functional Characterization, and Expression of a Gonadotropin Receptor cDNA in the Ovary and Testis of Amago Salmon (Oncorhynchus rhodurus). Biochemical and Biophysical Research Communications, 1999, 263, 584-590.	1.0	98
9	The Chemical Basis of Fungal Bioluminescence. Angewandte Chemie - International Edition, 2015, 54, 8124-8128.	7.2	89
10	The role of doublesex in the evolution of exaggerated horns in the Japanese rhinoceros beetle. EMBO Reports, 2013, 14, 561-567.	2.0	83
11	Mechanism and color modulation of fungal bioluminescence. Science Advances, 2017, 3, e1602847.	4.7	74
12	Blarina toxin, a mammalian lethal venom from the short-tailed shrew Blarina brevicauda: Isolation and characterization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7542-7547.	3.3	73
13	Ovarian Carbonyl Reductase-Like 20Î²-Hydroxysteroid Dehydrogenase Shows Distinct Surge in Messenger RNA Expression During Natural and Gonadotropin-Induced Meiotic Maturation in Nile Tilapia1. Biology of Reproduction, 2002, 67, 1080-1086.	1.2	66
14	Phylogenetic relationships of click beetles (Coleoptera: Elateridae) inferred from 28S ribosomal DNA: Insights into the evolution of bioluminescence in Elateridae. Molecular Phylogenetics and Evolution, 2007, 42, 410-421.	1.2	56
15	Identification and cDNA Cloning of Alveolin, an Extracellular Metalloproteinase, Which Induces Chorion Hardening of Medaka (Oryzias latipes) Eggs upon Fertilization. Journal of Biological Chemistry, 2000, 275, 8349-8354.	1.6	50
16	Biosynthesis of coelenterazine in the deep-sea copepod, Metridia pacifica. Biochemical and Biophysical Research Communications, 2009, 390, 684-688.	1.0	47
17	The evolutionary process of bioluminescence and aposematism in cantharoid beetles (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	46
18	Enzymatic and Genetic Characterization of Firefly Luciferase andDrosophilaCG6178 as a Fatty Acyl-CoA Synthetase. Bioscience, Biotechnology and Biochemistry, 2005, 69, 819-828.	0.6	44

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19	The Terrestrial Bioluminescent Animals of Japan. Zoological Science, 2011, 28, 771-789.	0.3	42
20	Zooxanthellamide Cs:Â Vasoconstrictive Polyhydroxylated Macrolides with the Largest Lactone Ring Size from a Marine Dinoflagellate ofSymbiodiniumsp.. Journal of the American Chemical Society, 2005, 127, 10406-10411.	6.6	40
21	Identification of proteins from venom of the paralytic spider wasp, Cyphononyx dorsalis. Insect Biochemistry and Molecular Biology, 2007, 37, 278-286.	1.2	39
22	Characterization of CG6178 gene product with high sequence similarity to firefly luciferase in Drosophila melanogaster. Gene, 2004, 329, 137-145.	1.0	38
23	DNA Barcoding of Japanese Click Beetles (Coleoptera, Elateridae). PLoS ONE, 2015, 10, e0116612.	1.1	38
24	Identification and Characterization of a Luciferase Isotype in the Japanese Firefly, Luciola cruciata, Involving in the Dim Glow of Firefly Eggs. Biochemistry, 2010, 49, 10788-10795.	1.2	36
25	Biosynthesis of Firefly Luciferin in Adult Lantern: Decarboxylation of ÊŸ-Cysteine is a Key Step for Benzothiazole Ring Formation in Firefly Luciferin Synthesis. PLoS ONE, 2013, 8, e84023.	1.1	35
26	Functional conversion of fatty acylâ€CoA synthetase to firefly luciferase by siteâ€directed mutagenesis: A key substitution responsible for luminescence activity. FEBS Letters, 2009, 583, 2004-2008.	1.3	33
27	Bioluminescence chemistry of fireworm Odontosyllis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18911-18916.	3.3	33
28	Biosynthesis of luciferin in the sea firefly, Cypridina hilgendorfii: l-tryptophan is a component in Cypridina luciferin. Tetrahedron Letters, 2002, 43, 2389-2392.	0.7	32
29	Cloning, Functional Characterization, and Expression of Thyrotropin Receptors in the Thyroid of Amago Salmon (Oncorhynchus rhodurus). Biochemical and Biophysical Research Communications, 2000, 276, 258-263.	1.0	31
30	Identification of the biosynthetic units of Cypridina luciferin in Cypridina (Vargula) hilgendorfii by LC/ESI-TOF-MS. Tetrahedron, 2004, 60, 11427-11434.	1.0	31
31	Selected Least Studied but not Forgotten Bioluminescent Systems. Photochemistry and Photobiology, 2017, 93, 405-415.	1.3	30
32	Construction of a Bacterial Artificial Chromosome Library for a Myxobacterium of the GenusCystobacterand Characterization of an Antibiotic Biosynthetic Gene Cluster. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1372-1380.	0.6	29
33	Germ cell specification and early embryonic patterning inBombyx morias revealed bynanosorthologues. Evolution & Development, 2008, 10, 546-554.	1.1	28
34	Identification of hispidin as a bioluminescent active compound and its recycling biosynthesis in the luminous fungal fruiting body. Photochemical and Photobiological Sciences, 2017, 16, 1435-1440.	1.6	28
35	Zooxanthellamide A, a novel polyhydroxy metabolite from a marine dinoflagellate of Symbiodinium sp.. Tetrahedron, 2003, 59, 1067-1071.	1.0	27
36	Identification of paralogous genes of firefly luciferase in the Japanese firefly, Luciola cruciata. Gene, 2006, 368, 53-60.	1.0	27

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37	Bioluminescence of a firefly pupa: involvement of a luciferase isotype in the dim glow of pupae and eggs in the Japanese firefly, Luciola lateralis. Photochemical and Photobiological Sciences, 2013, 12, 854-863.	1.6	27
38	Kleptoprotein bioluminescence: Parapriacanthus fish obtain luciferase from ostracod prey. Science Advances, 2020, 6, eaax4942.	4.7	27
39	One-pot non-enzymatic formation of firefly luciferin in a neutral buffer from p-benzoquinone and cysteine. Scientific Reports, 2016, 6, 24794.	1.6	25
40	Luciferase of the Japanese syllid polychaete Odontosyllis umdecimdonta. Biochemical and Biophysical Research Communications, 2018, 502, 318-323.	1.0	24
41	Zooxanthellamide B, a Novel Large Polyhydroxy Metabolite from a Marine Dinoflagellate ofSymbiodiniumsp.. Bioscience, Biotechnology and Biochemistry, 2004, 68, 955-958.	0.6	23
42	Cloning and characterization of the homologous genes of firefly luciferase in the mealworm beetle, Tenebrio molitor. Insect Molecular Biology, 2006, 15, 293-299.	1.0	23
43	Characterization of luciferases and its paralogue in the Panamanian luminous click beetle Pyrophorus angustus: A click beetle luciferase lacks the fatty acyl-CoA synthetic activity. Gene, 2010, 452, 1-6.	1.0	22
44	Vicariant speciation due to 1.55â€‰Ma isolation of the <scp>R</scp>yukyu islands, <scp>J</scp>apan, based on geological and <scp>G</scp>en<scp>B</scp>ank data. Entomological Science, 2013, 16, 267-277.	0.3	22
45	Resurrecting the ancient glow of the fireflies. Science Advances, 2020, 6, .	4.7	22
46	Zooxanthellamide D, a Polyhydroxy Polyene Amide from a Marine Dinoflagellate, and Chemotaxonomic Perspective of theSymbiodiniumPolyols#. Journal of Natural Products, 2007, 70, 407-411.	1.5	20
47	Molecular Cloning, Functional Characterization, and Gene Expression of a Follicle-Stimulating Hormone Receptor in the Testis of Newt Cynops pyrrhogaster. Biochemical and Biophysical Research Communications, 2000, 275, 121-128.	1.0	19
48	Identification of the Luciferin-Luciferase System and Quantification of Coelenterazine by Mass Spectrometry in the Deep-Sea Luminous Ostracod Conchoecia pseudodiscophora. ChemBioChem, 2004, 5, 1495-1499.	1.3	19
49	Diel changes in the expression of long wavelength-sensitive and ultraviolet-sensitive opsin genes in the Japanese firefly, Luciola cruciata. Gene, 2009, 436, 66-70.	1.0	19
50	Firefly luciferase genes from the subfamilies Psilocladinae and Ototretinae (Lampyridae, Coleoptera). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2012, 161, 110-116.	0.7	19
51	2-S-cysteinylhydroquinone is an intermediate for the firefly luciferin biosynthesis that occurs in the pupal stage of the Japanese firefly, Luciola lateralis. Bioorganic Chemistry, 2018, 80, 223-229.	2.0	19
52	Biosynthesis of Cypridina Luciferin in Cypridina noctiluca. Heterocycles, 2007, 72, 673.	0.4	17
53	Synthesis and absolute configuration of the ozonolysis product of krill fluorescent compound F. Tetrahedron Letters, 1993, 34, 2779-2782.	0.7	16
54	Synthesis of biotinylated xestoquinone that retains inhibitory activity against Ca2+ ATPase of skeletal muscle myosin. Bioorganic and Medicinal Chemistry, 2003, 11, 3077-3082.	1.4	16

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55	Novel Relationship between the Antifungal Activity and Cytotoxicity of Marine-Derived Metabolite Xestoquinone and Its Family. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1749-1752.	0.6	16
56	Orthologous gene of beetle luciferase in non-luminous click beetle, Agrypnus binodulus (Elateridae), encodes a fatty acyl-CoA synthetase. Gene, 2008, 407, 169-175.	1.0	16
57	Modification of Arg-13 of Î¼-conotoxin GIIIA with piperidinyl-Arg analogs and their relation to the inhibition of sodium channels. FEBS Letters, 2001, 503, 107-110.	1.3	15
58	Vicariance ofPyrocoeliafireflies (Coleoptera: Lampyridae) in the Ryukyu islands, Japan. Biological Journal of the Linnean Society, 2015, 116, 412-422.	0.7	15
59	20Î²-hydroxysteroid dehydrogenase gene promoter: Potential role for cyclic AMP and xenobiotic responsive elements. Gene, 2012, 509, 68-76.	1.0	14
60	Identification and characterization of the Luc2â€type luciferase in the Japanese firefly, Luciola parvula, involved in a dim luminescence in immobile stages. Luminescence, 2017, 32, 924-931.	1.5	14
61	Bioluminescent Fishes and their Eyes. , 0, , .		13
62	Inhibitory Guanine-nucleotide-binding-regulatory Protein alpha Subunits in Medaka (Oryzias latipes) Oocytes. cDNA Cloning and Decreased Expression of Proteins During Oocyte Maturation. FEBS Journal, 1997, 249, 846-853.	0.2	12
63	Biochemical characteristics and gene expression profiles of two paralogous luciferases from the Japanese firefly Pyrocoelia atripennis (Coleoptera, Lampyridae, Lampyrinae): insight into the evolution of firefly luciferase genes. Photochemical and Photobiological Sciences, 2017, 16, 1301-1310.	1.6	12
64	Determination of the Luciferin Contents in Luminous and Non-Luminous Beetles. Bioscience, Biotechnology and Biochemistry, 2008, 72, 1384-1387.	0.6	11
65	Cloning of the Blue Ghost (Phausis reticulata) Luciferase Reveals a Glowing Source of Green Light. Photochemistry and Photobiology, 2017, 93, 473-478.	1.3	11
66	Identification of a functional luciferase gene in the nonâ€luminous diurnal firefly, Lucidina biplagiata. Insect Molecular Biology, 2010, 19, 737-743.	1.0	10
67	Reflector of the body photophore in lanternfish is mechanistically tuned to project the biochemical emission in photocytes for counterillumination. Biochemical and Biophysical Research Communications, 2020, 521, 821-826.	1.0	10
68	Etmopterus lantern sharks use coelenterazine as the substrate for their luciferin-luciferase bioluminescence system. Biochemical and Biophysical Research Communications, 2021, 577, 139-145.	1.0	7
69	Generation of Polyclonal Antibody against Î¼-Conotoxin GIIIA Using an Immunogen of [Cys5]Î¼-Conotoxin GIIIA Site-Specifically Conjugated with Bovine Serum Albumin. Biochemical and Biophysical Research Communications, 2002, 290, 1037-1041.	1.0	6
70	Stereoselective Incorporation of Isoleucine into Cypridina Luciferin inCypridina hilgendorfii(Vargula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	6
71	Carabid beetles (Carabus blaptoides) from Nii-jima and O-shima isles, Izu-Bonin oceanic islands: Dispersion by Kuroshio current and the origin of the insular populations. Insect Systematics and Evolution, 2016, 47, 93-112.	0.2	6
72	Size variation and geographical distribution of the luminous earthworm Pontodrilus litoralis (Grube, 1855) (Clitellata, Megascolecidae) in Southeast Asia and Japan. ZooKeys, 2019, 862, 23-42.	0.5	6

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73	Design, synthesis, and biological evaluation of biotin-labeled (â^')-ternatin, a potent fat-accumulation inhibitor against 3T3-L1 adipocytes. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 92-95.	1.0	5
74	Bioluminescence properties of <scp>Thelepus japonicus</scp> (Annelida: Terebelliformia). Luminescence, 2019, 34, 602-606.	1.5	5
75	Occurrence of bioluminescent and nonbioluminescent species in the littoral earthworm genus Pontodrilus. Scientific Reports, 2021, 11, 8407.	1.6	4
76	Firefly genomes illuminate the evolution of beetle bioluminescent systems. Current Opinion in Insect Science, 2022, 50, 100879.	2.2	4
77	Steroidogenic shift is a critical event for ovarian follicles to undergo final maturation. Fish Physiology and Biochemistry, 2003, 28, 313-315.	0.9	3
78	Catalytic Properties of Domain-Exchanged Chimeric Proteins between Firefly Luciferase andDrosophilaFatty Acyl-CoA Synthetase CG6178. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2739-2744.	0.6	3
79	Molecular phylogenetic and morphological evidence reveal a rare limacoid snail genus,Khmerquantulagen. nov. (Eupulmonata: Dyakiidae) from Cambodia. Systematics and Biodiversity, 2021, 19, 1049-1061.	0.5	3
80	Biosynthesis of 2â€²-O-Methylmyxalamide D in the MyxobacteriumCystobacter fuscus: a Polyketide Synthase-Nonribosomal Peptide Synthetase System for the Myxalamide D Skeleton and a Methyltransferase for the FinalO-Methylation. Bioscience, Biotechnology and Biochemistry, 2006, 70, 699-705.	0.6	2
81	Application of FITC-labeled Ternatin on Its Cellular Localization in 3T3-L1 Murine Preadipocytes. Chemistry Letters, 2009, 38, 150-151.	0.7	2
82	Bioluminescence of the polychaete Tharyx sp. (Annelida: Cirratulidae) in deep-seawater from Toyama Bay, Japan. Plankton and Benthos Research, 2021, 16, 145-148.	0.2	2
83	Semi-Intrinsic Luminescence in Marine Organisms. , 0, , .		1
84	The <i>COI</i> haplotype diversity of the pelagic polychaete <i>Tomopteris</i> (Annelida: Tomopteridae) collected from the Pacific coast off Kii Peninsula, central Japan. Plankton and Benthos Research, 2022, 17, 214-220.	0.2	1
85	Magnetically Induced Flickering Change in the Light-Reflecting Cuticulae of the Common Bluebottle Butterfly Graphium Sarpedon. IEEE Transactions on Magnetics, 2019, , 1-4.	1.2	0
86	Bioluminescence and Pigments. , 2021, , 149-181.		0
87	The Fireflies and Luminous Insects. , 2019, , 1-31.		0
88	Other Luminous Organisms. , 2019, , 349-379.		0
89	Bioluminescent properties of Mesochaetopterus japonicus (Polychaeta: Chaetopteridae) with comparison to Chaetopterus. Plankton and Benthos Research, 2020, 15, 228-231.	0.2	0