

# Yoshihiro Nakajima

## List of Publications by Year in descending order

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74  
papers

2,570  
citations

186265  
28  
h-index

206112  
48  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidative and Antidiabetic Effects of Natural Polyphenols and Isoflavones. <i>Molecules</i> , 2016, 21, 708.	3.8	185
2	In Vivo Monitoring of Peripheral Circadian Clocks in the Mouse. <i>Current Biology</i> , 2012, 22, 1029-1034.	3.9	162
3	Flagellin from an Incompatible Strain of <i>Pseudomonas avenae</i> Induces a Resistance Response in Cultured Rice Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 32347-32356.	3.4	113
4	Luciferase-YFP fusion tag with enhanced emission for single-cell luminescence imaging. <i>Nature Methods</i> , 2007, 4, 637-639.	19.0	105
5	cDNA Cloning and Characterization of a Secreted Luciferase from the Luminous Japanese Ostracod, <i>Cypridina noctiluca</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 565-570.	1.3	101
6	Enhanced Beetle Luciferase for High-Resolution Bioluminescence Imaging. <i>PLoS ONE</i> , 2010, 5, e10011.	2.5	100
7	Coactivation of the CLOCK/BMAL1 complex by CBP mediates resetting of the circadian clock. <i>Journal of Cell Science</i> , 2010, 123, 3547-3557.	2.0	97
8	Photothermic regulation of gene expression triggered by laser-induced carbon nanohorns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7523-7528.	7.1	96
9	Multicolor luciferase assay system: one-step monitoring of multiple gene expressions with a single substrate. <i>BioTechniques</i> , 2005, 38, 891-894.	1.8	88
10	Quantum Yields and Kinetics of the Firefly Bioluminescence Reaction of Beetle Luciferases. <i>Photochemistry and Photobiology</i> , 2010, 86, 1046-1049.	2.5	83
11	Bidirectional role of orphan nuclear receptor ROR $\alpha$ in clock gene transcriptions demonstrated by a novel reporter assay system. <i>FEBS Letters</i> , 2004, 565, 122-126.	2.8	76
12	Tip60 Is Regulated by Circadian Transcription Factor Clock and Is Involved in Cisplatin Resistance. <i>Journal of Biological Chemistry</i> , 2008, 283, 18218-18226.	3.4	75
13	An In Vitro Test to Screen Skin Sensitizers Using a Stable THP-1-Derived IL-8 Reporter Cell Line, THP-G8. <i>Toxicological Sciences</i> , 2011, 124, 359-369.	3.1	70
14	Period Coding of Bmal1 Oscillators in the Suprachiasmatic Nucleus. <i>Journal of Neuroscience</i> , 2012, 32, 8900-8918.	3.6	63
15	Dissociation of <i>Per1</i> and <i>Bmal1</i> circadian rhythms in the suprachiasmatic nucleus in parallel with behavioral outputs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3699-E3708.	7.1	63
16	New reporter system for <i>Per1</i> and <i>Bmal1</i> expressions revealed self-sustained circadian rhythms in peripheral tissues. <i>Genes To Cells</i> , 2006, 11, 1173-1182.	1.2	53
17	Oleuropein-Rich Diet Attenuates Hyperglycemia and Impaired Glucose Tolerance in Type 2 Diabetes Model Mouse. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 6715-6722.	5.2	49
18	Dual-Color Luciferase Mouse Directly Demonstrates Coupled Expression of Two Clock Genes. <i>Biochemistry</i> , 2010, 49, 8053-8061.	2.5	46

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19	Bioluminescence assays: multicolor luciferase assay, secreted luciferase assay and imaging luciferase assay. <i>Expert Opinion on Drug Discovery</i> , 2010, 5, 835-849.	5.0	43
20	Optimization of the IL-8 Luc assay as an in vitro test for skin sensitization. <i>Toxicology in Vitro</i> , 2015, 29, 1816-1830.	2.4	39
21	Radical-scavenging Activity and Antioxidative Effects of Olive Leaf Components Oleuropein and Hydroxytyrosol in Comparison with Homovanillic Alcohol. <i>Journal of Oleo Science</i> , 2015, 64, 793-800.	1.4	36
22	Simultaneous monitoring of independent gene expression patterns in two types of cocultured fibroblasts with different color-emitting luciferases. <i>BMC Biotechnology</i> , 2008, 8, 40.	3.3	34
23	A Promoter in the Novel Exon of hPPAR $\beta$ Directs the Circadian Expression of PPAR $\beta$ . <i>Journal of Atherosclerosis and Thrombosis</i> , 2010, 17, 73-83.	2.0	34
24	Differential Effects of Urea/Triazine-type and Phenol-type Photosystem II Inhibitors on Inactivation of the Electron Transport and Degradation of the D1 Protein during Photoinhibition. <i>Plant and Cell Physiology</i> , 1996, 37, 673-680.	3.1	33
25	In vitro evaluation of the cellular effect of indium tin oxide nanoparticles using the human lung adenocarcinoma A549 cells. <i>Metallomics</i> , 2015, 7, 816-827.	2.4	33
26	Intracellular accumulation of indium ions released from nanoparticles induces oxidative stress, proinflammatory response and DNA damage. <i>Journal of Biochemistry</i> , 2016, 159, 225-237.	1.7	33
27	Enhanced red-emitting railroad worm luciferase for bioassays and bioimaging. <i>Protein Science</i> , 2010, 19, 26-33.	7.6	32
28	The Impact of HIF1 $\alpha$ on the Per2 Circadian Rhythm in Renal Cancer Cell Lines. <i>PLoS ONE</i> , 2014, 9, e109693.	2.5	32
29	Spatiotemporal profiles of arginine vasopressin transcription in cultured suprachiasmatic nucleus. <i>European Journal of Neuroscience</i> , 2015, 42, 2678-2689.	2.6	30
30	Bioluminescence imaging of dual gene expression at the single-cell level. <i>BioTechniques</i> , 2010, 48, 460-462.	1.8	29
31	A Dual-Color Luciferase Assay System Reveals Circadian Resetting of Cultured Fibroblasts by Co-Cultured Adrenal Glands. <i>PLoS ONE</i> , 2012, 7, e37093.	2.5	29
32	Regional circadian period difference in the suprachiasmatic nucleus of the mammalian circadian center. <i>European Journal of Neuroscience</i> , 2013, 38, 2832-2841.	2.6	28
33	Function Control of Anti-microRNA Oligonucleotides Using Interstrand Cross-Linked Duplexes. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 10, 64-74.	5.1	28
34	Improved Expression of Novel Red- and Green-emitting Luciferases of Phrixothrix Railroad Worms in Mammalian Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 948-951.	1.3	24
35	Protease-Deficient <i>Saccharomyces cerevisiae</i> Strains for the Synthesis of Human-Compatible Glycoproteins. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2461-2466.	1.3	23
36	Switching from singlet-oxygen-mediated oxidation to free-radical-mediated oxidation in the pathogenesis of type 2 diabetes in model mouse. <i>Free Radical Research</i> , 2015, 49, 133-138.	3.3	22

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37	Antioxidant properties of 5-hydroxy-4-phenyl-butenolide via activation of Nrf2/ARE signaling pathway. <i>Food and Chemical Toxicology</i> , 2017, 107, 129-137.	3.6	20
38	Real-time monitoring of IL-6 and IL-10 reporter expression for anti-inflammation activity in live RAW 264.7 cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 885-890.	2.1	20
39	Human and mouse artificial chromosome technologies for studies of pharmacokinetics and toxicokinetics. <i>Drug Metabolism and Pharmacokinetics</i> , 2018, 33, 17-30.	2.2	19
40	Applications of luciferin biosynthesis: Bioluminescence assays for L-cysteine and luciferase. <i>Analytical Biochemistry</i> , 2010, 396, 316-318.	2.4	18
41	Effect of calcium carbonate particle shape on phagocytosis and pro-inflammatory response in differentiated THP-1 macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2017, 490, 499-505.	2.1	18
42	Yuzu (&i>Citrus junos&i>; Tanaka) Peel Attenuates Dextran Sulfate Sodium-induced Murine Experimental Colitis. <i>Journal of Oleo Science</i> , 2018, 67, 335-344.	1.4	18
43	Involvement of splenic iron accumulation in the development of nonalcoholic steatohepatitis in Tsumura Suzuki Obese Diabetes mice. <i>Scientific Reports</i> , 2016, 6, 22476.	3.3	17
44	Occupation of the QB-binding Pocket by a Photosystem II Inhibitor Triggers Dark Cleavage of the D1 Protein Subjected to Brief Preillumination. <i>Journal of Biological Chemistry</i> , 1996, 271, 17383-17389.	3.4	16
45	Dual-color bioluminescence imaging assay using green- and red-emitting beetle luciferases at subcellular resolution. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5735-5742.	3.7	16
46	Selective and specific degradation of the D1 protein induced by binding of a novel Photosystem II inhibitor to the QB site. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1995, 1230, 38-44.	1.0	15
47	Monitoring circadian time in rat plasma using a secreted <i>Cypridina</i> luciferase reporter. <i>Analytical Biochemistry</i> , 2013, 439, 80-87.	2.4	15
48	Highly sensitive luciferase reporter assay using a potent destabilization sequence of calpain 3. <i>Journal of Biotechnology</i> , 2015, 194, 115-123.	3.8	14
49	Continuous long-term cytotoxicity monitoring in 3D spheroids of beetle luciferase-expressing hepatocytes by nondestructive bioluminescence measurement. <i>BMC Biotechnology</i> , 2017, 17, 54.	3.3	14
50	Characteristic changes of function and structure of Photosystem II during strong-light photoinhibition under aerobic conditions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1995, 1229, 239-248.	1.0	13
51	A new additional reporter enzyme, dinoflagellate luciferase, for monitoring of gene expression in mammalian cells. <i>Gene</i> , 2005, 344, 61-66.	2.2	13
52	Surface Functionalization of a Polymeric Lipid Bilayer for Coupling a Model Biological Membrane with Molecules, Cells, and Microstructures. <i>Langmuir</i> , 2013, 29, 2722-2730.	3.5	13
53	Type 2 diabetes model T2D mouse is exposed to oxidative stress at young age. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2014, 55, 216-220.	1.4	13
54	A Novel Dual-Color Luciferase Reporter Assay for Simultaneous Detection of Estrogen and Aryl Hydrocarbon Receptor Activation. <i>Chemical Research in Toxicology</i> , 2017, 30, 1436-1447.	3.3	12

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55	Reactive oxygen species independent genotoxicity of indium tin oxide nanoparticles triggered by intracellular degradation. <i>Food and Chemical Toxicology</i> , 2018, 118, 264-271.	3.6	12
56	Correlation between luminescence intensity and cytotoxicity in cell-based cytotoxicity assay using luciferase. <i>Analytical Biochemistry</i> , 2017, 522, 18-29.	2.4	11
57	Cloning and Characterization of an Active Fragment of Luciferase from a Luminescent Marine Alga, <i>Pyrocystis lunula</i> . <i>Photochemistry and Photobiology</i> , 2002, 75, 311.	2.5	10
58	The molecular mechanism regulating the autonomous circadian expression of Topoisomerase I in NIH3T3 cells. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 22-27.	2.1	9
59	Simple and Rapid Screening Method for Photosystem II Inhibitory Herbicides Using Photoautotrophically Cultured Plant Cells with Chlorophyll Fluorescence Monitoring. <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 1389-1390.	1.3	8
60	Development of an Artificial Calcium-Dependent Transcription Factor To Detect Sustained Intracellular Calcium Elevation. <i>ACS Synthetic Biology</i> , 2014, 3, 717-722.	3.8	7
61	Novel and Stable Dual-Color IL-6 and IL-10 Reporters Derived from RAW 264.7 for Anti-Inflammation Screening of Natural Products. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4620.	4.1	6
62	Genetic Organization of the <i>hrp</i> Gene Cluster in <i>Acidovorax avenae</i> Strain N1141 and a Novel Effector Protein That Elicits Immune Responses in Rice ( <i>Oryza sativa</i> L.). <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 129-138.	1.3	5
63	Trehalose attenuates development of nonalcoholic steatohepatitis associated with type 2 diabetes in TSD mouse. <i>Journal of Functional Foods</i> , 2019, 56, 303-311.	3.4	5
64	Real-Time Analysis of the Circadian Oscillation of the Rev-Erb $\beta$ Promoter. <i>Journal of Atherosclerosis and Thrombosis</i> , 2013, 20, 267-276.	2.0	5
65	Enhanced in-cell folding of reversibly cationized transcription factor using amphipathic peptide. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 419-424.	2.2	4
66	Bioluminescence-based cytotoxicity assay for simultaneous evaluation of cell viability and membrane damage in human hepatoma HepG2 cells. <i>Luminescence</i> , 2018, 33, 616-624.	2.9	4
67	Structure-activity relationships in photosystem II inhibition by 5-acyl-3-(1-aminoalkylidene)-4-hydroxy-2H-pyran-2,6(3H)-dione derivatives. <i>Pesticide Biochemistry and Physiology</i> , 1991, 41, 288-295.	3.6	2
68	Development of N- and O-linked oligosaccharide engineered <i>Saccharomyces cerevisiae</i> strain. <i>Glycobiology</i> , 2016, 26, 1248-1256.	2.5	2
69	Effect of Electrolyte Concentration on Cell Sensing by Measuring Ionic Current Waveform through Micropores. <i>Biosensors</i> , 2021, 11, 78.	4.7	2
70	Bioluminescence Measurement of Time-Dependent Dynamic Changes of CYP-Mediated Cytotoxicity in CYP-Expressing Luminescent HepG2 Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2843.	4.1	2
71	Interleukin-1 $\beta$ released from macrophages stimulated with indium tin oxide nanoparticles induces epithelial-mesenchymal transition in A549 cells. <i>Environmental Science: Nano</i> , 2022, 9, 1489-1508.	4.3	2
72	Photosystem II Inhibition by <i>s</i> -Triazines Having Hydrophilic Amino Groups. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995, 59, 2170-2171.	1.3	1

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73	Assembly of plasmid DNA and chromatophore in <i>Rhodospirillum rubrum</i> . <i>Protoplasma</i> , 2000, 214, 158-165.	2.1	1
74	Application of Micropore Device for Accurate, Easy, and Rapid Discrimination of <i>Saccharomyces pastorianus</i> from <i>Dekkera</i> spp.. <i>Biosensors</i> , 2021, 11, 272.	4.7	1