Hong Gil Nam

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8280616/publications.pdf

Version: 2024-02-01

129 papers	14,805 citations	22099 59 h-index	19690 117 g-index
132 all docs	132 docs citations	132 times ranked	13589 citing authors

#	Article	IF	Citations
1	The core circadian component, Bmal1, is maintained in the pineal gland of old killifish brain. IScience, 2021, 24, 101905.	1.9	7
2	Verticillium dahliae secretory effector PevD1 induces leaf senescence by promoting ORE1-mediated ethylene biosynthesis. Molecular Plant, 2021, 14, 1901-1917.	3.9	33
3	Spatial localization of charged molecules by salt ions in oil-confined water microdroplets. Science Advances, 2020, 6, .	4.7	29
4	Restricted intramolecular rotation of fluorescent molecular rotors at the periphery of aqueous microdroplets in oil. Scientific Reports, 2020, 10, 16859.	1.6	22
5	Subcellular Localization of GIGANTEA Regulates the Timing of Leaf Senescence and Flowering in Arabidopsis. Frontiers in Plant Science, 2020, 11, 589707.	1.7	8
6	Concurrent activation of OsAMT1;2 and OsGOGAT1 in rice leads to enhanced nitrogen use efficiency under nitrogen limitation. Plant Journal, 2020, 103, 7-20.	2.8	76
7	OsASN1 Overexpression in Rice Increases Grain Protein Content and Yield under Nitrogen-Limiting Conditions. Plant and Cell Physiology, 2020, 61, 1309-1320.	1.5	39
8	Natural variations at the Stay-Green gene promoter control lifespan and yield in rice cultivars. Nature Communications, 2020, 11, 2819.	5.8	62
9	ATM suppresses leaf senescence triggered by DNA doubleâ€strand break through epigenetic control of senescenceâ€associated genes in Arabidopsis. New Phytologist, 2020, 227, 473-484.	3.5	28
10	Unusual Properties of Water at Heterogeneous Biological Interfaces. Biophysical Journal, 2020, 118, 476a.	0.2	1
11	A cellular surveillance and defense system that delays aging phenotypes in C. elegans. Aging, 2020, 12, 8202-8220.	1.4	3
12	Spontaneous generation of hydrogen peroxide from aqueous microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19294-19298.	3.3	287
13	Micrometer-Sized Water Droplets Induce Spontaneous Reduction. Journal of the American Chemical Society, 2019, 141, 10585-10589.	6.6	205
14	Diet restrictionâ€induced healthy aging is mediated through the immune signaling component ZIPâ€2 in Caenorhabditis elegans. Aging Cell, 2019, 18, e12982.	3.0	12
15	Glutamate decarboxylase 67 contributes to compensatory insulin secretion in aged pancreatic islets. Islets, 2019, 11, 33-43.	0.9	6
16	Temporal changes in cell division rate and genotoxic stress tolerance in quiescent center cells of Arabidopsis primary root apical meristem. Scientific Reports, 2019, 9, 3599.	1.6	20
17	Leaf Senescence: Systems and Dynamics Aspects. Annual Review of Plant Biology, 2019, 70, 347-376.	8.6	339
18	Spontaneous formation of gold nanostructures in aqueous microdroplets. Nature Communications, 2018, 9, 1562.	5.8	124

#	Article	IF	Citations
19	Comparative transcriptome analysis in Arabidopsis ein2/ore3 and ahk3/ore12 mutants during dark-induced leaf senescence. Journal of Experimental Botany, 2018, 69, 3023-3036.	2.4	31
20	The C-Domain of the NAC Transcription Factor ANAC019 Is Necessary for pH-Tuned DNA Binding through a Histidine Switch in the N-Domain. Cell Reports, 2018, 22, 1141-1150.	2.9	11
21	Abiotic synthesis of purine and pyrimidine ribonucleosides in aqueous microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 36-40.	3.3	98
22	A missense allele of KARRIKIN-INSENSITIVE2 impairs ligand-binding and downstream signaling in Arabidopsis thaliana. Journal of Experimental Botany, 2018, 69, 3609-3623.	2.4	26
23	Abiotic Fabrication of Sugar Phosphates and Ribonucleosides in Water Microdroplets. Biophysical Journal, 2018, 114, 438a.	0.2	0
24	Time-evolving genetic networks reveal a NAC troika that negatively regulates leaf senescence in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4930-E4939.	3.3	106
25	ORESARA15, a PLATZ transcription factor, mediates leaf growth and senescence in Arabidopsis. New Phytologist, 2018, 220, 609-623.	3.5	55
26	Circadian control of ORE1 by PRR9 positively regulates leaf senescence in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8448-8453.	3.3	99
27	Antagonistic Roles of PhyA and PhyB in Far-Red Light-Dependent Leaf Senescence in Arabidopsis thaliana. Plant and Cell Physiology, 2018, 59, 1753-1764.	1.5	37
28	MicroRNAs in brain aging. Mechanisms of Ageing and Development, 2017, 168, 3-9.	2.2	51
29	Microdroplet fusion mass spectrometry: accelerated kinetics of acid-induced chlorophyll demetallation. Quarterly Reviews of Biophysics, 2017, 50, e2.	2.4	36
30	Brassinosteroid Biosynthesis Is Modulated via a Transcription Factor Cascade of COG1, PIF4, and PIF5. Plant Physiology, 2017, 174, 1260-1273.	2.3	55
31	Abiotic production of sugar phosphates and uridine ribonucleoside in aqueous microdroplets. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12396-12400.	3.3	166
32	Molecular bases for differential aging programs between flag and second leaves during grain-filling in rice. Scientific Reports, 2017, 7, 8792.	1.6	21
33	The Protein Trio RPK1â€“CaM4â€“RbohF Mediates Transient Superoxide Production to Trigger Age-Dependent Cell Death in Arabidopsis. Cell Reports, 2017, 21, 3373-3380.	2.9	34
34	High-Throughput and Computational Study of Leaf Senescence through a Phenomic Approach. Frontiers in Plant Science, 2017, 8, 250.	1.7	15
35	Downregulation of protein kinase CK2 activity induces age-related biomarkers inC. elegans. Oncotarget, 2017, 8, 36950-36963.	0.8	17
36	RNA helicase SACY-1 is required for longevity caused by various genetic perturbations inCaenorhabditis elegans. Cell Cycle, 2016, 15, 1821-1829.	1.3	11

#	Article	IF	Citations
37	High-Resolution Live-Cell Imaging and Analysis by Laser Desorption/Ionization Droplet Delivery Mass Spectrometry. Analytical Chemistry, 2016, 88, 5453-5461.	3.2	70
38	TowardÂSystems Understanding of Leaf Senescence: An Integrated Multi-Omics Perspective on Leaf Senescence Research. Molecular Plant, 2016, 9, 813-825.	3.9	153
39	miRâ€204 downregulates EphB2 in aging mouse hippocampal neurons. Aging Cell, 2016, 15, 380-388.	3.0	46
40	Regulatory network of NAC transcription factors in leaf senescence. Current Opinion in Plant Biology, 2016, 33, 48-56.	3.5	210
41	<scp>NORE1</scp>/<scp>SAUL1</scp> integrates temperatureâ€dependent defense programs involving <scp>SGT1b</scp> and <scp>PAD4</scp> pathways and leaf senescence in Arabidopsis. Physiologia Plantarum, 2016, 158, 180-199.	2.6	19
42	Programming of Plant Leaf Senescence with Temporal and Inter-Organellar Coordination of Transcriptome in Arabidopsis1 Â. Plant Physiology, 2016, 171, 452-467.	2.3	121
43	Age-associated circadian period changes in Arabidopsis leaves. Journal of Experimental Botany, 2016, 67, 2665-2673.	2.4	57
44	The short-lived African turquoise killifish: an emerging experimental model for ageing. DMM Disease Models and Mechanisms, 2016, 9, 115-129.	1.2	102
45	Acceleration of reaction in charged microdroplets. Quarterly Reviews of Biophysics, 2015, 48, 437-444.	2.4	204
46	Inhibition of elongin C promotes longevity and protein homeostasis via <scp>HIF</scp>â€1 in C.Âelegans. Aging Cell, 2015, 14, 995-1002.	3.0	22
47	A new selective â€˜turn-onâ€™ small fluorescent cationic probe for recognition of RNA in cells. Supramolecular Chemistry, 2015, 27, 478-483.	1.5	9
48	Imaging a specific mRNA in pollen with atomic force microscopy. RSC Advances, 2015, 5, 18858-18865.	1.7	5
49	Rootin, a compound that inhibits root development through modulating PIN-mediated auxin distribution. Plant Science, 2015, 233, 116-126.	1.7	5
50	A salt-regulated peptide derived from the CAP superfamily protein negatively regulates salt-stress tolerance inArabidopsis. Journal of Experimental Botany, 2015, 66, 5301-5313.	2.4	74
51	RNA helicase HEL-1 promotes longevity by specifically activating DAF-16/FOXO transcription factor signaling in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4246-55.	3.3	34
52	Simultaneous imaging of the topography and electrochemical activity of a 2D carbon nanotube network using a dual functional L-shaped nanoprobe. Analyst, The, 2015, 140, 3150-3156.	1.7	5
53	Microdroplet fusion mass spectrometry for fast reaction kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3898-3903.	3.3	197
54	Spatial and temporal coordination of insulin granule exocytosis in intact human pancreatic islets. Diabetologia, 2015, 58, 2810-2818.	2.9	30

#	Article	IF	Citations
55	Gene duplication of type-B ARR transcription factors systematically extends transcriptional regulatory structures in Arabidopsis. Scientific Reports, 2015, 4, 7197.	1.6	9
56	Meeting Report: International Symposium on the Genetics of Aging and Life History II. Aging, 2015, 7, 362-369.	1.4	2
57	Quantitative Peptidomics Study Reveals That a Wound-Induced Peptide from PR-1 Regulates Immune Signaling in Tomato. Plant Cell, 2014, 26, 4135-4148.	3.1	155
58	The homeodomainâ€leucine zipper <scp>ATHB23</scp>, a phytochrome Bâ€interacting protein, is important for phytochrome Bâ€mediated red light signaling. Physiologia Plantarum, 2014, 150, 308-320.	2.6	27
59	Young capillary vessels rejuvenate aged pancreatic islets. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17612-17617.	3.3	79
60	Gene regulatory cascade of senescence-associated NAC transcription factors activated by ETHYLENE-INSENSITIVE2-mediated leaf senescence signalling in Arabidopsis. Journal of Experimental Botany, 2014, 65, 4023-4036.	2.4	245
61	How Do Phytochromes Transmit the Light Quality Information to the Circadian Clock in Arabidopsis ?. Molecular Plant, 2014, 7, 1701-1704.	3.9	44
62	Precise Expression Profiling by Stuffer-Free Multiplex Ligation-Dependent Probe Amplification. Analytical Chemistry, 2013, 85, 9383-9389.	3.2	5
63	Plant leaf senescence and death â€“ regulation by multiple layers of control and implications for aging in general. Journal of Cell Science, 2013, 126, 4823-33.	1.2	263
64	Age-dependent changes in the functions and compositions of photosynthetic complexes in the thylakoid membranes of Arabidopsis thaliana. Photosynthesis Research, 2013, 117, 547-556.	1.6	61
65	BNIP3 is degraded by ULK1-dependent autophagy via MTORC1 and AMPK. Autophagy, 2013, 9, 345-360.	4.3	52
66	Selective Fluorescent Detection of RNA in Living Cells by Using Imidazolium-Based Cyclophane. Journal of the American Chemical Society, 2013, 135, 90-93.	6.6	95
67	Balanced Nucleocytosolic Partitioning Defines a Spatial Network to Coordinate Circadian Physiology in Plants. Developmental Cell, 2013, 26, 73-85.	3.1	28
68	Towards a critical understanding of the photosystem II repair mechanism and its regulation during stress conditions. FEBS Letters, 2013, 587, 3372-3381.	1.3	140
69	ORE1 balances leaf senescence against maintenance by antagonizing G2â€likeâ€mediated transcription. EMBO Reports, 2013, 14, 382-388.	2.0	155
70	Rapamycin inhibits both motility through down-regulation of p-STAT3 (S727) by disrupting the mTORC2 assembly and peritoneal dissemination in sarcomatoid cholangiocarcinoma. Clinical and Experimental Metastasis, 2013, 30, 177-187.	1.7	24
71	Lossâ€ofâ€function of <scp>O</scp>s<scp>STN</scp>8 suppresses the photosystemÂ<scp>II</scp> core protein phosphorylation and interferes with the photosystemÂ<scp>II</scp> repair mechanism in rice (<scp>O</scp>ryza sativa). Plant Journal, 2013, 76, 675-686.	2.8	38
72	Polarization-Controlled Photoswitching Resolves Dipole Directions with Subwavelength Resolution. Physical Review Letters, 2012, 109, 248101.	2.9	7

#	Article	IF	Citations
73	GIGANTEA and EARLY FLOWERING 4 in Arabidopsis Exhibit Differential Phase-Specific Genetic Influences over a Diurnal Cycle. Molecular Plant, 2012, 5, 678-687.	3.9	50
74	Leaf Senescence in Plants: From Model Plants to Crops, Still so Many Unknowns. Journal of Integrative Plant Biology, 2012, 54, 514-515.	4.1	23
75	OASIS: Online Application for the Survival Analysis of Lifespan Assays Performed in Aging Research. PLoS ONE, 2011, 6, e23525.	1.1	259
76	Age-Dependent Action of an ABA-Inducible Receptor Kinase, RPK1, as a Positive Regulator of Senescence in Arabidopsis Leaves. Plant and Cell Physiology, 2011, 52, 651-662.	1.5	198
77	Sensitive multiplex RNA quantification using capillary electrophoresisâ€based singleâ€strand conformation polymorphism. Biotechnology and Bioengineering, 2010, 106, 167-172.	1.7	3
78	The RAV1 transcription factor positively regulates leaf senescence in Arabidopsis. Journal of Experimental Botany, 2010, 61, 3947-3957.	2.4	152
79	Subcellular Sites of the Signal Transduction and Degradation of Phytochrome A. Plant and Cell Physiology, 2010, 51, 1648-1660.	1.5	25
80	Auxin response factor 2 (ARF2) plays a major role in regulating auxin-mediated leaf longevity. Journal of Experimental Botany, 2010, 61, 1419-1430.	2.4	245
81	Molecule-level imaging of Pax6 mRNA distribution in mouse embryonic neocortex by molecular interaction force microscopy. Nucleic Acids Research, 2009, 37, e10-e10.	6.5	25
82	A new singleâ€step quantitative pathogen detection system: Templateâ€tagging followed by multiplex asymmetric PCR using common primers and CEâ€SSCP. Electrophoresis, 2009, 30, 2728-2736.	1.3	18
83	Deâ€regulated expression of the plant glutamate receptor homolog AtGLR3.1 impairs longâ€term Ca²⁺â€programmed stomatal closure. Plant Journal, 2009, 58, 437-449.	2.8	98
84	Trifurcate Feed-Forward Regulation of Age-Dependent Cell Death Involving miR164 in Arabidopsis. Science, 2009, 323, 1053-1057.	6.0	652
85	Control of plant germline proliferation by SCFFBL17 degradation of cell cycle inhibitors. Nature, 2008, 455, 1134-1137.	13.7	180
86	CRY1 inhibits COP1â€mediated degradation of BIT1, a MYB transcription factor, to activate blue lightâ€dependent gene expression in Arabidopsis. Plant Journal, 2008, 55, 361-371.	2.8	61
87	FIONA1 Is Essential for Regulating Period Length in theArabidopsisCircadian Clock. Plant Cell, 2008, 20, 307-319.	3.1	73
88	OsMADS51 Is a Short-Day Flowering Promoter That Functions Upstream of Ehd1, OsMADS14, and Hd3a Â. Plant Physiology, 2007, 145, 1484-1494.	2.3	224
89	A GUS/Luciferase Fusion Reporter for Plant Gene Trapping and for Assay of Promoter Activity with Luciferin-Dependent Control of the Reporter Protein Stability. Plant and Cell Physiology, 2007, 48, 1121-1131.	1.5	44
90	BLADE-ON-PETIOLE1 and 2 Control Arabidopsis Lateral Organ Fate through Regulation of LOB Domain and Adaxial-Abaxial Polarity Genes. Plant Cell, 2007, 19, 1809-1825.	3.1	162

#	Article	IF	Citations
91	Leaf Senescence. Annual Review of Plant Biology, 2007, 58, 115-136.	8.6	1,737
92	ZEITLUPE is a circadian photoreceptor stabilized by GIGANTEA in blue light. Nature, 2007, 449, 356-360.	13.7	510
93	Overexpression of a chromatin architectureâ€controlling ATâ€hook protein extends leaf longevity and increases the postâ€harvest storage life of plants. Plant Journal, 2007, 52, 1140-1153.	2.8	121
94	Aging and senescence of the leaf organ. Journal of Plant Biology, 2007, 50, 291-300.	0.9	37
95	Proteomic pattern-based analyses of light responses inArabidopsis thaliana wild-type and photoreceptor mutants. Proteomics, 2006, 6, 3040-3049.	1.3	14
96	Cytokinin-mediated control of leaf longevity by AHK3 through phosphorylation of ARR2 in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 814-819.	3.3	382
97	Comparative transcriptome analysis reveals significant differences in gene expression and signalling pathways between developmental and dark/starvation-induced senescence in Arabidopsis. Plant Journal, 2005, 42, 567-585.	2.8	924
98	Phytochrome-Specific Type 5 Phosphatase Controls Light Signal Flux by Enhancing Phytochrome Stability and Affinity for a Signal Transducer. Cell, 2005, 120, 395-406.	13.5	148
99	Mitochondria Provide the Main Source of Cytosolic ATP for Activation of Outward-rectifying K+ Channels in Mesophyll Protoplast of Chlorophyll-deficient Mutant Rice (OsCHLH) Seedlings. Journal of Biological Chemistry, 2004, 279, 6874-6882.	1.6	27
100	The Delayed Leaf Senescence Mutants of Arabidopsis, ore1, ore3, and ore9 are Tolerant to Oxidative Stress. Plant and Cell Physiology, 2004, 45, 923-932.	1.5	196
101	BLADE-ON-PETIOLE1 Encodes a BTB/POZ Domain Protein Required for Leaf Morphogenesis in Arabidopsis thaliana. Plant and Cell Physiology, 2004, 45, 1361-1370.	1.5	165
102	The Arabidopsis COG1 gene encodes a Dof domain transcription factor and negatively regulates phytochrome signaling. Plant Journal, 2003, 34, 161-171.	2.8	113
103	Stress memory in plants: a negative regulation of stomatal response and transient induction ofrd22gene to light in abscisic acid-entrainedArabidopsisplants. Plant Journal, 2003, 36, 240-255.	2.8	109
104	Molecular genetics of leaf senescence in Arabidopsis. Trends in Plant Science, 2003, 8, 272-278.	4.3	276
105	Involvement of the VEP1 Gene in Vascular Strand Development in Arabidopsis thaliana. Plant and Cell Physiology, 2002, 43, 323-330.	1.5	44
106	Evidence for the functional organization of chloroplasts in adaxial guard cells of Vicia faba leaves by single cell analysis. Plant Science, 2002, 162, 965-972.	1.7	6
107	Extended leaf longevity in the ore4-1 mutant of Arabidopsis with a reduced expression of a plastid ribosomal protein gene. Plant Journal, 2002, 31, 331-340.	2.8	85
108	Expression of functional human-cytosolic Cu/Zn superoxide dismutase in transgenic tobacco. Biotechnology Letters, 2002, 24, 681-686.	1.1	5

#	Article	IF	Citations
109	Title is missing!. Molecular Breeding, 2002, 10, 11-18.	1.0	9
110	ORE9, an F-Box Protein That Regulates Leaf Senescence in Arabidopsis. Plant Cell, 2001, 13, 1779-1790.	3.1	452
111	The Identity of Plant Glutamate Receptors. Science, 2001, 292, 1486b-1487.	6.0	175
112	Control of Circadian Rhythms and Photoperiodic Flowering by the Arabidopsis GIGANTEA Gene. Science, 1999, 285, 1579-1582.	6.0	565
113	An S RNase Gene of Lycopersicon peruvianum L. is Highly Expressed in Transgenic Tobacco but Does not Affect Self-incompatibility. Journal of Plant Physiology, 1999, 154, 63-70.	1.6	7
114	Differential expression of senescence-associated mRNAs during leaf senescence induced by different senescence-inducing factors in Arabidopsis. Plant Molecular Biology, 1998, 37, 445-454.	2.0	186
115	A Brassica cDNA clone encoding a bifunctional hydroxymethylpyrimidine kinase/thiamin-phosphate pyrophosphorylase involved in thiamin biosynthesis. Plant Molecular Biology, 1998, 37, 955-966.	2.0	18
116	Photomorphogenic development of the Arabidopsisshy2-1D mutation and its interaction with phytochromes in darkness. Plant Journal, 1998, 15, 61-68.	2.8	82
117	Genetic identification of FIN2, a far red light-specific signaling component ofArabidopsis thaliana. Plant Journal, 1998, 16, 411-419.	2.8	68
118	The promoter activity of sen 1, a senescence-associated gene of Arabidopsis, is repressed by sugars. Journal of Plant Physiology, 1997, 151, 339-345.	1.6	34
119	Insulin-induced maturation of Xenopus oocytes is inhibited by microinjection of a Brassica napus cDNA clone with high similarity to a mammalian receptor for activated protein kinase C. Planta, 1997, 201, 245-251.	1.6	27
120	Evaluation of 515 expressed sequence tags obtained from guard cells of Brassica campestris. Planta, 1997, 202, 9-17.	1.6	64
121	The molecular genetic analysis of leaf senescence. Current Opinion in Biotechnology, 1997, 8, 200-207.	3.3	233
122	Two dominant photomorphogenic mutations of Arabidopsis thaliana identified as suppressor mutations of hy2. Plant Journal, 1996, 9, 441-456.	2.8	139
123	A senescence-associated gene of Arabidopsis thaliana is distinctively regulated during natural and artificially induced leaf senescence. Plant Molecular Biology, 1996, 30, 739-754.	2.0	214
124	Rapid and transient induction of calmodulin-encoding gene(s) of Brassica napus by a touch stimulus. Plant Cell Reports, 1996, 15, 586-590.	2.8	2
125	Frequent in-frame length variations are found in the diverged simple repeat sequences of the protein-coding regions of two putative protein kinase genes of Brassica napus. Plant Molecular Biology, 1995, 27, 829-833.	2.0	6
126	Functional complementation of a yeast vesicular transport mutation ypt1-1 by a Brassica napus cDNA clone encoding a small GTP-binding protein. Plant Molecular Biology, 1994, 26, 1725-1735.	2.0	32

#	Article	IF	Citations
127	Stable genetic transformation of Arabidopsis thaliana by Agrobacterium inoculation in planta. Plant Journal, 1994, 5, 551-558.	2.8	94
128	Two putative protein kinases from Arabidopsis thaliana contain highly acidic domains. Plant Molecular Biology, 1993, 22, 615-624.	2.0	36
129	Plasmids allowing transcription of cloned DNA by Salmonella typhimurium phage SP6 RNA polymerase to produce RNAs with authentic 5'-terminal sequences. Gene, 1986, 46, 57-64.	1.0	5