

Ko Noguchi

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

4,166
citations

41
h-index

62
g-index

104
ext. papers

4,817
ext. citations

5.4
avg. IF

5.6
L-index

#	Paper	IF	Citations
97	Interaction between photosynthesis and respiration in illuminated leaves. <i>Mitochondrion</i> , 2008 , 8, 87-99	4.9	242
96	Temperature acclimation of photosynthesis in spinach leaves: analyses of photosynthetic components and temperature dependencies of photosynthetic partial reactions. <i>Plant, Cell and Environment</i> , 2005 , 28, 536-547	8.4	191
95	Up-regulation of mitochondrial alternative oxidase concomitant with chloroplast over-reduction by excess light. <i>Plant and Cell Physiology</i> , 2007 , 48, 606-14	4.9	167
94	Roles of the cyclic electron flow around PSI (CEF-PSI) and O ₂ -dependent alternative pathways in regulation of the photosynthetic electron flow in short-term fluctuating light in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2014 , 55, 990-1004	4.9	148
93	Effects of Rubisco kinetics and Rubisco activation state on the temperature dependence of the photosynthetic rate in spinach leaves from contrasting growth temperatures. <i>Plant, Cell and Environment</i> , 2006 , 29, 1659-70	8.4	145
92	Overexpression of plasma membrane H ⁺ -ATPase in guard cells promotes light-induced stomatal opening and enhances plant growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 533-8	11.5	134
91	Phenotypic plasticity in photosynthetic temperature acclimation among crop species with different cold tolerances. <i>Plant Physiology</i> , 2010 , 152, 388-99	6.6	129
90	Effects of internal conductance on the temperature dependence of the photosynthetic rate in spinach leaves from contrasting growth temperatures. <i>Plant and Cell Physiology</i> , 2006 , 47, 1069-80	4.9	127
89	The chloroplast avoidance response decreases internal conductance to CO ₂ diffusion in <i>Arabidopsis thaliana</i> leaves. <i>Plant, Cell and Environment</i> , 2008 , 31, 1688-700	8.4	117
88	Nitrate addition alleviates ammonium toxicity without lessening ammonium accumulation, organic acid depletion and inorganic cation depletion in <i>Arabidopsis thaliana</i> shoots. <i>Plant and Cell Physiology</i> , 2012 , 53, 577-91	4.9	108
87	The lack of alternative oxidase at low temperature leads to a disruption of the balance in carbon and nitrogen metabolism, and to an up-regulation of antioxidant defence systems in <i>Arabidopsis thaliana</i> leaves. <i>Plant, Cell and Environment</i> , 2008 , 31, 1190-202	8.4	108
86	Distinct roles of the cytochrome pathway and alternative oxidase in leaf photosynthesis. <i>Plant and Cell Physiology</i> , 2006 , 47, 22-31	4.9	99
85	Systematic exploration of thioredoxin target proteins in plant mitochondria. <i>Plant and Cell Physiology</i> , 2013 , 54, 875-92	4.9	98
84	The rice nuclear gene, VIRESCENT 2, is essential for chloroplast development and encodes a novel type of guanylate kinase targeted to plastids and mitochondria. <i>Plant Journal</i> , 2007 , 52, 512-27	6.9	96
83	Effects of carbohydrate accumulation on photosynthesis differ between sink and source leaves of <i>Phaseolus vulgaris</i> L. <i>Plant and Cell Physiology</i> , 2006 , 47, 644-52	4.9	78
82	Cold-tolerant crop species have greater temperature homeostasis of leaf respiration and photosynthesis than cold-sensitive species. <i>Plant and Cell Physiology</i> , 2009 , 50, 203-15	4.9	77
81	Differential gene expression profiles of the mitochondrial respiratory components in illuminated <i>Arabidopsis</i> leaves. <i>Plant and Cell Physiology</i> , 2009 , 50, 1449-62	4.9	74

80	Response of mitochondria to light intensity in the leaves of sun and shade species. <i>Plant, Cell and Environment</i> , 2005 , 28, 760-771	8.4	73
79	Effects of elevated CO ₂ on levels of primary metabolites and transcripts of genes encoding respiratory enzymes and their diurnal patterns in <i>Arabidopsis thaliana</i> : possible relationships with respiratory rates. <i>Plant and Cell Physiology</i> , 2014 , 55, 341-57	4.9	63
78	Rice MPR25 encodes a pentatricopeptide repeat protein and is essential for RNA editing of nad5 transcripts in mitochondria. <i>Plant Journal</i> , 2012 , 72, 450-60	6.9	63
77	The cause of PSI photoinhibition at low temperatures in leaves of <i>Cucumis sativus</i> , a chilling-sensitive plant. <i>Physiologia Plantarum</i> , 1998 , 103, 295-303	4.6	63
76	Influence of chloroplastic photo-oxidative stress on mitochondrial alternative oxidase capacity and respiratory properties: a case study with <i>Arabidopsis yellow variegated 2</i> . <i>Plant and Cell Physiology</i> , 2008 , 49, 592-603	4.9	62
75	Apoplastic mesophyll signals induce rapid stomatal responses to CO ₂ in <i>Commelina communis</i> . <i>New Phytologist</i> , 2013 , 199, 395-406	9.8	60
74	Effects of growth light and nitrogen nutrition on the organization of the photosynthetic apparatus in leaves of a C ₄ plant, <i>Amaranthus cruentus</i> . <i>Plant, Cell and Environment</i> , 2006 , 29, 691-700	8.4	60
73	Distinct responses of the mitochondrial respiratory chain to long- and short-term high-light environments in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2011 , 34, 618-28	8.4	59
72	Relationships between quantum yield for CO ₂ assimilation, activity of key enzymes and CO ₂ leakiness in <i>Amaranthus cruentus</i> , a C ₄ dicot, grown in high or low light. <i>Plant and Cell Physiology</i> , 2008 , 49, 19-29	4.9	59
71	Responses of spinach leaf mitochondria to low N availability. <i>Plant, Cell and Environment</i> , 2006 , 29, 710-93.4	8.4	59
70	Effect of respiratory homeostasis on plant growth in cultivars of wheat and rice. <i>Plant, Cell and Environment</i> , 2004 , 27, 853-862	8.4	57
69	Photosynthesis of root chloroplasts developed in <i>Arabidopsis</i> lines overexpressing GOLDEN2-LIKE transcription factors. <i>Plant and Cell Physiology</i> , 2013 , 54, 1365-77	4.9	54
68	Effects of polyploidy on photosynthetic properties and anatomy in leaves of <i>Phlox drummondii</i> . <i>Functional Plant Biology</i> , 2007 , 34, 673-682	2.7	52
67	Mesophyll conductance decreases in the wild type but not in an ABA-deficient mutant (<i>aba1</i>) of <i>Nicotiana plumbaginifolia</i> under drought conditions. <i>Plant, Cell and Environment</i> , 2015 , 38, 388-98	8.4	50
66	High CO ₂ triggers preferential root growth of <i>Arabidopsis thaliana</i> via two distinct systems under low pH and low N stresses. <i>Plant and Cell Physiology</i> , 2014 , 55, 269-80	4.9	48
65	The role of electron transport in determining the temperature dependence of the photosynthetic rate in spinach leaves grown at contrasting temperatures. <i>Plant and Cell Physiology</i> , 2008 , 49, 583-91	4.9	48
64	Physiological impact of mitochondrial alternative oxidase on photosynthesis and growth in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2011 , 34, 1890-9	8.4	46
63	Different regulation of leaf respiration between <i>Spinacia oleracea</i> , a sun species, and <i>Alocasia odora</i> , a shade species. <i>Physiologia Plantarum</i> , 1997 , 101, 1-7	4.6	46

62	Increase in respiratory cost at high growth temperature is attributed to high protein turnover cost in <i>Petunia x hybrida</i> petals. <i>Plant, Cell and Environment</i> , 2007 , 30, 1269-83	8.4	46
61	Effects of AOX1a deficiency on plant growth, gene expression of respiratory components and metabolic profile under low-nitrogen stress in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2010 , 51, 810-22	4.9	45
60	Distinct light responses of the adaxial and abaxial stomata in intact leaves of <i>Helianthus annuus</i> L. <i>Plant, Cell and Environment</i> , 2008 , 31, 1307-16	8.4	43
59	Ammonium-dependent respiratory increase is dependent on the cytochrome pathway in <i>Arabidopsis thaliana</i> shoots. <i>Plant, Cell and Environment</i> , 2010 , 33, 1888-97	8.4	42
58	Maintenance of growth rate at low temperature in rice and wheat cultivars with a high degree of respiratory homeostasis is associated with a high efficiency of respiratory ATP production. <i>Plant and Cell Physiology</i> , 2004 , 45, 1015-22	4.9	41
57	Acclimation of leaf respiratory properties in <i>Alocasia odora</i> following reciprocal transfers of plants between high- and low-light environments. <i>Plant, Cell and Environment</i> , 2001 , 24, 831-839	8.4	41
56	Photosynthesis-dependent and -independent responses of stomata to blue, red and green monochromatic light: differences between the normally oriented and inverted leaves of sunflower. <i>Plant and Cell Physiology</i> , 2011 , 52, 479-89	4.9	40
55	Acclimation of Respiratory Properties of Leaves of <i>Spinacia oleracea</i> L., a Sun Species, and of <i>Alocasia macrorrhiza</i> (L.) G. Don., a Shade Species, to Changes in Growth Irradiance. <i>Plant and Cell Physiology</i> , 1996 , 37, 377-384	4.9	38
54	Two CLE genes are induced by phosphate in roots of <i>Lotus japonicus</i> . <i>Journal of Plant Research</i> , 2011 , 124, 155-63	2.6	32
53	Simultaneous determination of in vivo plastoquinone and ubiquinone redox states by HPLC-based analysis. <i>Plant and Cell Physiology</i> , 2010 , 51, 836-41	4.9	32
52	Effect of nitrogen nutrition on the carbohydrate repression of photosynthesis in leaves of <i>Phaseolus vulgaris</i> L. <i>Journal of Plant Research</i> , 2010 , 123, 371-9	2.6	32
51	Evidence for a nitrate-independent function of the nitrate sensor NRT1.1 in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Research</i> , 2011 , 124, 425-30	2.6	31
50	Mitochondrial Alternative Pathway-Associated Photoprotection of Photosystem II is Related to the Photorespiratory Pathway. <i>Plant and Cell Physiology</i> , 2016 , 57, 1426-1431	4.9	29
49	Cost and benefit of the repair of photodamaged photosystem II in spinach leaves: roles of acclimation to growth light. <i>Photosynthesis Research</i> , 2012 , 113, 165-80	3.7	28
48	Manipulation of light and CO ₂ environments of the primary leaves of bean (<i>Phaseolus vulgaris</i> L.) affects photosynthesis in both the primary and the first trifoliate leaves: involvement of systemic regulation. <i>Plant, Cell and Environment</i> , 2008 , 31, 50-61	8.4	26
47	Optimum leaf size predicted by a novel leaf energy balance model incorporating dependencies of photosynthesis on light and temperature. <i>Ecological Research</i> , 2012 , 27, 333-346	1.9	25
46	NDH-Mediated Cyclic Electron Flow Around Photosystem I is Crucial for C ₄ Photosynthesis. <i>Plant and Cell Physiology</i> , 2016 , 57, 2020-2028	4.9	22
45	Effects of Elevated Atmospheric CO ₂ on Primary Metabolite Levels in <i>Arabidopsis thaliana</i> Col-0 Leaves: An Examination of Metabolome Data. <i>Plant and Cell Physiology</i> , 2015 , 56, 2069-78	4.9	21

44	Comparison of the response to phosphorus deficiency in two lupin species, <i>Lupinus albus</i> and <i>L. angustifolius</i> , with contrasting root morphology. <i>Plant, Cell and Environment</i> , 2015 , 38, 399-410	8.4	21
43	Integrative response of plant mitochondrial electron transport chain to nitrogen source. <i>Plant Cell Reports</i> , 2011 , 30, 195-204	5.1	21
42	Homeostasis of the temperature sensitivity of respiration over a range of growth temperatures indicated by a modified Arrhenius model. <i>New Phytologist</i> , 2015 , 207, 34-42	9.8	17
41	Maintenance mechanisms of the pipe model relationship and Leonardo da Vinci's rule in the branching architecture of <i>Acer rufinerve</i> trees. <i>Journal of Plant Research</i> , 2009 , 122, 41-52	2.6	17
40	Effects of Light Intensity and Carbohydrate Status on Leaf and Root Respiration 2005 , 63-83		17
39	Effects of instantaneous and growth CO levels and abscisic acid on stomatal and mesophyll conductances. <i>Plant, Cell and Environment</i> , 2019 , 42, 1257-1269	8.4	17
38	Modeling Leaf Gas Exchange. <i>Advances in Photosynthesis and Respiration</i> , 2016 , 61-100	1.7	16
37	Influence of a Modified Atmosphere on the Induction and Activity of Respiratory Enzymes in Broccoli Florets during the Early Stage of Postharvest Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 8538-8543	5.7	15
36	Dependency of branch diameter growth in young <i>Acer</i> trees on light availability and shoot elongation. <i>Tree Physiology</i> , 2005 , 25, 39-48	4.2	15
35	Activities of the cyanide-resistant respiratory pathway in leaves of sun and shade species. <i>Functional Plant Biology</i> , 2001 , 28, 27	2.7	15
34	How and why does mitochondrial respiratory chain respond to light?. <i>Plant Signaling and Behavior</i> , 2011 , 6, 864-6	2.5	14
33	Costs of protein turnover and carbohydrate export in leaves of sun and shade species. <i>Functional Plant Biology</i> , 2001 , 28, 37	2.7	14
32	Impaired Cyclic Electron Flow around Photosystem I Disturbs High-Light Respiratory Metabolism. <i>Plant Physiology</i> , 2016 , 172, 2176-2189	6.6	14
31	Tolerant mechanisms to O deficiency under submergence conditions in plants. <i>Journal of Plant Research</i> , 2020 , 133, 343-371	2.6	13
30	P700 oxidation suppresses the production of reactive oxygen species in photosystem I. <i>Advances in Botanical Research</i> , 2020 , 96, 151-176	2.2	11
29	Interaction Between Chloroplasts and Mitochondria: Activity, Function, and Regulation of the Mitochondrial Respiratory System during Photosynthesis 2011 , 383-409		11
28	Mutation of NRT1.1 enhances ammonium/low pH-tolerance in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2011 , 6, 706-8	2.5	11
27	Mitochondrial AOX Supports Redox Balance of Photosynthetic Electron Transport, Primary Metabolite Balance, and Growth in under High Light. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10

26	Mechanical and ecophysiological significance of the form of a young <i>Acer rufinerve</i> tree: vertical gradient in branch mechanical properties. <i>Tree Physiology</i> , 2006 , 26, 1549-58	4.2	10
25	Confirmation of mesophyll signals controlling stomatal responses by a newly devised transplanting method. <i>Functional Plant Biology</i> , 2019 , 46, 467-481	2.7	9
24	Oxalate contents in leaves of two rice cultivars grown at a free-air CO ₂ enrichment (FACE) site. <i>Plant Production Science</i> , 2019 , 22, 407-411	2.4	9
23	Effect of growth temperature and total non-structural carbohydrate accumulation on growth coefficient in <i>Petunia x hybrida</i> petals. <i>Physiologia Plantarum</i> , 2008 , 134, 293-302	4.6	9
22	The Mitochondrial Respiratory Chain Maintains the Photosynthetic Electron Flow in <i>Arabidopsis thaliana</i> Leaves under High-Light Stress. <i>Plant and Cell Physiology</i> , 2020 , 61, 283-295	4.9	9
21	Effects of Elevated Atmospheric CO ₂ on Respiratory Rates in Mature Leaves of Two Rice Cultivars Grown at a Free-Air CO ₂ Enrichment Site and Analyses of the Underlying Mechanisms. <i>Plant and Cell Physiology</i> , 2018 , 59, 637-649	4.9	8
20	Local Anesthetics and Antipsychotic Phenothiazines Interact Nonspecifically with Membranes and Inhibit Hexose Transporters in Yeast. <i>Genetics</i> , 2016 , 202, 997-1012	4	8
19	Phosphorus toxicity disrupts Rubisco activation and reactive oxygen species defence systems by phytic acid accumulation in leaves. <i>Plant, Cell and Environment</i> , 2020 , 43, 2033-2053	8.4	7
18	Inhibition of mitochondrial complex I by the novel compound FSL0260 enhances high salinity-stress tolerance in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2020 , 10, 8691	4.9	6
17	Functional linkage between N acquisition strategies and aeration capacities of hydrophytes for efficient oxygen consumption in roots. <i>Physiologia Plantarum</i> , 2013 , 147, 135-46	4.6	6
16	Patterns of photoassimilate translocation to reproductive shoots from adjacent shoots in <i>Camellia sasanqua</i> by manipulation of sink-source balance between the shoots. <i>Journal of Plant Research</i> , 2011 , 124, 131-6	2.6	6
15	Different regulation of leaf respiration between <i>Spinacia oleracea</i> , a sun species, and <i>Alocasia odora</i> , a shade species. <i>Physiologia Plantarum</i> , 1997 , 101, 1-7	4.6	5
14	Tetracaine, a local anesthetic, preferentially induces translational inhibition with processing body formation rather than phosphorylation of eIF2 β in yeast. <i>Current Genetics</i> , 2015 , 61, 43-53	2.9	4
13	Rare Neurologic Disease-Associated Mutations of AIMP1 are Related with Inhibitory Neuronal Differentiation Which is Reversed by Ibuprofen. <i>Medicines (Basel, Switzerland)</i> , 2020 , 7,	4.1	4
12	Photochemistry of Photosystems II and I in Rice Plants Grown under Different N Levels at Normal and High Temperature. <i>Plant and Cell Physiology</i> , 2021 , 62, 1121-1130	4.9	4
11	Induction of Terminal Oxidases of Electron Transport Chain in Broccoli Heads under Controlled Atmosphere Storage. <i>Foods</i> , 2020 , 9,	4.9	3
10	<i>Arabidopsis</i> Phosphatidic Acid Phosphohydrolases Are Essential for Growth under Nitrogen-Depleted Conditions. <i>Frontiers in Plant Science</i> , 2017 , 8, 1847	6.2	3
9	Effects of root morphology, respiration and carboxylate exudation on carbon economy in two non-mycorrhizal lupines under phosphorus deficiency. <i>Plant, Cell and Environment</i> , 2021 , 44, 598-612	8.4	3

8	Temperature-dependent fasciation mutants provide a link between mitochondrial RNA processing and lateral root morphogenesis. <i>ELife</i> , 2021 , 10,	8.9	3
7	Atmospheric CO Concentration and N Availability Affect the Balance of the Two Photosystems in Mature Leaves of Rice Plants Grown at a Free-Air CO Enrichment Site. <i>Frontiers in Plant Science</i> , 2020 , 11, 786	6.2	2
6	Differential Analyses of the Effects of the Light Environment on Development of Deciduous Trees: Basic Studies for Tree Growth Modeling. <i>Ecological Studies</i> , 2002 , 187-200	1.1	2
5	Theoretical analysis of a temperature-dependent model of respiratory O consumption using the kinetics of the cytochrome and alternative pathways. <i>New Phytologist</i> , 2021 , 229, 1810-1821	9.8	2
4	Manganese toxicity disrupts indole acetic acid homeostasis and suppresses the CO assimilation reaction in rice leaves. <i>Scientific Reports</i> , 2021 , 11, 20922	4.9	1
3	Low N level increases the susceptibility of PSI to photoinhibition induced by short repetitive flashes in leaves of different rice varieties.. <i>Physiologia Plantarum</i> , 2022 , e13644	4.6	0
2	Functional Analysis of Mitochondrial Respiratory Chain as a Dissipation System of Excess Light Energy 2008 , 1071-1074		
1	Light Dependences Of The Co2 Leakiness, Quantum Yield Of Co2 Fixation And Activation State Of Key Enzymes In A C4 Plant, <i>Amaranthus Cruentus</i> , Grown In High- And Low-Light 2008 , 841-844		