

Ko Noguchi

List of Publications by Year in descending order

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101
papers

5,303
citations

61857

43
h-index

91712

69
g-index

104
all docs

104
docs citations

104
times ranked

5217
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction between photosynthesis and respiration in illuminated leaves. <i>Mitochondrion</i> , 2008, 8, 87-99.	1.6	279
2	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.	2.8	212
3	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.	1.5	204
4	Up-Regulation of Mitochondrial Alternative Oxidase Concomitant with Chloroplast Over-Reduction by Excess Light. <i>Plant and Cell Physiology</i> , 2007, 48, 606-614.	1.5	191
5	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, 1659-1670.	2.8	189
6	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, 533-538.	3.3	179
7	Phenotypic Plasticity in Photosynthetic Temperature Acclimation among Crop Species with Different Cold Tolerances. <i>Plant Physiology</i> , 2009, 152, 388-399.	2.3	155
8	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, 577-591.	1.5	151
9	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, 1069-1080.	1.5	145
10	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, 1688-1700.	2.8	144
11	The rice nuclear gene, <i>VIRESCENT 2</i> , is essential for chloroplast development and encodes a novel type of guanylate kinase targeted to plastids and mitochondria. <i>Plant Journal</i> , 2007, 52, 512-527.	2.8	126
12	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, 1190-1202.	2.8	123
13	Distinct Roles of the Cytochrome Pathway and Alternative Oxidase in Leaf Photosynthesis. <i>Plant and Cell Physiology</i> , 2006, 47, 22-31.	1.5	112
14	Systematic Exploration of Thioredoxin Target Proteins in Plant Mitochondria. <i>Plant and Cell Physiology</i> , 2013, 54, 875-892.	1.5	111
15	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, 644-652.	1.5	96
16	Photosynthesis of Root Chloroplasts Developed in <i>Arabidopsis</i> Lines Overexpressing GOLDEN2-LIKE Transcription Factors. <i>Plant and Cell Physiology</i> , 2013, 54, 1365-1377.	1.5	94
17	Differential Gene Expression Profiles of the Mitochondrial Respiratory Components in Illuminated <i>Arabidopsis</i> Leaves. <i>Plant and Cell Physiology</i> , 2009, 50, 1449-1462.	1.5	91
18	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, 203-215.	1.5	88

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19	Rice <i>MPR25</i> encodes a pentatricopeptide repeat protein and is essential for RNA editing of <i>nad5</i> transcripts in mitochondria. <i>Plant Journal</i> , 2012, 72, 450-460.	2.8	86
20	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.	2.6	81
21	Response of mitochondria to light intensity in the leaves of sun and shade species. <i>Plant, Cell and Environment</i> , 2005, 28, 760-771.	2.8	79
22	Apoplastic mesophyll signals induce rapid stomatal responses to CO_2 in <i>C. ommelina communis</i> . <i>New Phytologist</i> , 2013, 199, 395-406.	3.5	77
23	Effects of growth light and nitrogen nutrition on the organization of the photosynthetic apparatus in leaves of a C4 plant, <i>Amaranthus cruentus</i> . <i>Plant, Cell and Environment</i> , 2006, 29, 691-700.	2.8	76
24	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, 341-357.	1.5	75
25	Responses of spinach leaf mitochondria to low N availability. <i>Plant, Cell and Environment</i> , 2006, 29, 710-719.	2.8	68
26	Relationships Between Quantum Yield for CO ₂ Assimilation, Activity of Key Enzymes and CO ₂ Leakiness in <i>Amaranthus cruentus</i> , a C4 Dicot, Grown in High or Low Light. <i>Plant and Cell Physiology</i> , 2008, 49, 19-29.	1.5	68
27	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, 269-280.	1.5	68
28	Effect of respiratory homeostasis on plant growth in cultivars of wheat and rice. <i>Plant, Cell and Environment</i> , 2004, 27, 853-862.	2.8	67
29	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.	1.5	66
30	Distinct responses of the mitochondrial respiratory chain to long-term and short-term high light environments in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 618-628.	2.8	65
31	Effects of polyploidy on photosynthetic properties and anatomy in leaves of <i>Phlox drummondii</i> . <i>Functional Plant Biology</i> , 2007, 34, 673.	1.1	63
32	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, 1307-1316.	2.8	60
33	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.	2.6	57
34	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, 583-591.	1.5	56
35	Mesophyll conductance decreases in the wild type but not in an ABA-deficient mutant (<i>aba1</i>) of <i>Nicotiana glauca</i> under drought conditions. <i>Plant, Cell and Environment</i> , 2015, 38, 388-398.	2.8	55
36	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, 810-822.	1.5	53

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37	Physiological impact of mitochondrial alternative oxidase on photosynthesis and growth in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 1890-1899.	2.8	53
38	NDH-Mediated Cyclic Electron Flow Around Photosystem I is Crucial for C ₄ Photosynthesis. <i>Plant and Cell Physiology</i> , 2016, 57, 2020-2028.	1.5	53
39	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, 479-489.	1.5	52
40	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, 425-430.	1.2	51
41	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.	1.5	50
42	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.	2.8	50
43	Increase in respiratory cost at high growth temperature is attributed to high protein turnover cost in <i>Petunia × hybrida</i> petals. <i>Plant, Cell and Environment</i> , 2007, 30, 1269-1283.	2.8	50
44	Ammonium-dependent respiratory increase is dependent on the cytochrome pathway in <i>Arabidopsis thaliana</i> shoots. <i>Plant, Cell and Environment</i> , 2010, 33, 1888-1897.	2.8	47
45	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, 371-379.	1.2	46
46	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, 1015-1022.	1.5	45
47	Mitochondrial Alternative Pathway-Associated Photoprotection of Photosystem II is Related to the Photorespiratory Pathway. <i>Plant and Cell Physiology</i> , 2016, 57, pcw036.	1.5	40
48	Tolerant mechanisms to O ₂ deficiency under submergence conditions in plants. <i>Journal of Plant Research</i> , 2020, 133, 343-371.	1.2	40
49	Simultaneous Determination of In Vivo Plastoquinone and Ubiquinone Redox States by HPLC-Based Analysis. <i>Plant and Cell Physiology</i> , 2010, 51, 836-841.	1.5	39
50	Two CLE genes are induced by phosphate in roots of <i>Lotus japonicus</i> . <i>Journal of Plant Research</i> , 2011, 124, 155-163.	1.2	39
51	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, 165-180.	1.6	38
52	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.	0.7	37
53	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.	2.8	32
54	Manipulation of light and CO ₂ environments of the primary leaves of bean (<i>Phaseolus</i>) of systemic regulation. <i>Plant, Cell and Environment</i> , 2008, 31, 50-61.	2.8	30

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55	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.	3.5	27
56	Comparison of the response to phosphorus deficiency in two lupin species, <i>Lupinus albus</i> and <i>Lupinus angustifolius</i> , with contrasting root morphology. <i>Plant, Cell and Environment</i> , 2015, 38, 399-410.	2.8	27
57	Integrative response of plant mitochondrial electron transport chain to nitrogen source. <i>Plant Cell Reports</i> , 2011, 30, 195-204.	2.8	26
58	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, pcv125.	1.5	26
59	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.	1.2	24
60	How and why does mitochondrial respiratory chain respond to light?. <i>Plant Signaling and Behavior</i> , 2011, 6, 864-866.	1.2	24
61	Effects of instantaneous and growth CO ₂ levels and abscisic acid on stomatal and mesophyll conductances. <i>Plant, Cell and Environment</i> , 2019, 42, 1257-1269.	2.8	23
62	Effects of Light Intensity and Carbohydrate Status on Leaf and Root Respiration. , 2005, , 63-83.		21
63	Mitochondrial AOX Supports Redox Balance of Photosynthetic Electron Transport, Primary Metabolite Balance, and Growth in <i>Arabidopsis thaliana</i> under High Light. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3067.	1.8	21
64	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.	1.5	21
65	Costs of protein turnover and carbohydrate export in leaves of sun and shade species. <i>Functional Plant Biology</i> , 2001, 28, 37.	1.1	20
66	Activities of the cyanide-resistant respiratory pathway in leaves of sun and shade species. <i>Functional Plant Biology</i> , 2001, 28, 27.	1.1	20
67	Impaired Cyclic Electron Flow around Photosystem I Disturbs High-Light Respiratory Metabolism. <i>Plant Physiology</i> , 2016, 172, 2176-2189.	2.3	20
68	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.	1.4	18
69	Modeling Leaf Gas Exchange. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 61-100.	1.0	17
70	Confirmation of mesophyll signals controlling stomatal responses by a newly devised transplanting method. <i>Functional Plant Biology</i> , 2019, 46, 467.	1.1	17
71	Mutation of NRT1.1 enhances ammonium/low pH-tolerance in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2011, 6, 706-708.	1.2	16
72	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.	2.4	16

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73	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.	1.5	16
74	P700 oxidation suppresses the production of reactive oxygen species in photosystem I. <i>Advances in Botanical Research</i> , 2020, 96, 151-176.	0.5	15
75	Local Anesthetics and Antipsychotic Phenothiazines Interact Nonspecifically with Membranes and Inhibit Hexose Transporters in Yeast. <i>Genetics</i> , 2016, 202, 997-1012.	1.2	14
76	Interaction Between Chloroplasts and Mitochondria: Activity, Function, and Regulation of the Mitochondrial Respiratory System during Photosynthesis. , 2011, , 383-409.		13
77	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.	0.9	13
78	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.	1.5	13
79	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, 1549-1558.	1.4	12
80	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.	2.8	12
81	Effect of growth temperature and total non-structural carbohydrate accumulation on growth coefficient in <i>Petunia</i> hybrid petals. <i>Physiologia Plantarum</i> , 2008, 134, 293-302.	2.6	11
82	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.	1.6	11
83	Temperature-dependent fasciation mutants provide a link between mitochondrial RNA processing and lateral root morphogenesis. <i>ELife</i> , 2021, 10, .	2.8	11
84	<i>Arabidopsis</i> Phosphatidic Acid Phosphohydrolases Are Essential for Growth under Nitrogen-Depleted Conditions. <i>Frontiers in Plant Science</i> , 2017, 8, 1847.	1.7	10
85	Distinct responses of growth and respiration to growth temperatures in two mangrove species. <i>Annals of Botany</i> , 2022, 129, 15-28.	1.4	9
86	Theoretical analysis of a temperature-dependent model of respiratory O ₂ consumption using the kinetics of the cytochrome and alternative pathways. <i>New Phytologist</i> , 2021, 229, 1810-1821.	3.5	8
87	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, 131-136.	1.2	7
88	Functional linkage between N acquisition strategies and aeration capacities of hydrophytes for efficient oxygen consumption in roots. <i>Physiologia Plantarum</i> , 2013, 147, 135-146.	2.6	7
89	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.	0.8	6
90	Manganese toxicity disrupts indole acetic acid homeostasis and suppresses the CO ₂ assimilation reaction in rice leaves. <i>Scientific Reports</i> , 2021, 11, 20922.	1.6	6

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91	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, 25.	0.7	5
92	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.	2.6	5
93	Induction of Terminal Oxidases of Electron Transport Chain in Broccoli Heads under Controlled Atmosphere Storage. <i>Foods</i> , 2020, 9, 380.	1.9	4
94	Atmospheric CO ₂ Concentration and N Availability Affect the Balance of the Two Photosystems in Mature Leaves of Rice Plants Grown at a Free-Air CO ₂ Enrichment Site. <i>Frontiers in Plant Science</i> , 2020, 11, 786.	1.7	3
95	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.	0.4	2
96	Growth temperature affects O ₂ consumption rates and plasticity of respiratory flux to support shoot growth at various growth temperatures. <i>Plant, Cell and Environment</i> , 2021, , .	2.8	2
97	Low N level increases the susceptibility of <scp>PSI</scp> to photoinhibition induced by short repetitive flashes in leaves of different rice varieties. <i>Physiologia Plantarum</i> , 2022, 174, e13644.	2.6	2
98	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, i.	2.8	0
99	Editorial: O ₂ and ROS Metabolisms in Photosynthetic Organisms. <i>Frontiers in Plant Science</i> , 2020, 11, 618550.	1.7	0
100	Functional Analysis of Mitochondrial Respiratory Chain as a Dissipation System of Excess Light Energy. , 2008, , 1071-1074.		0
101	Light Dependences Of The Co ₂ Leakiness, Quantum Yield Of Co ₂ Fixation And Activation State Of Key Enzymes In A C ₄ Plant, <i>Amaranthus Cruentus</i> , Grown In High- And Low-Light. , 2008, , 841-844.		0