

Ken Yokawa

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,207
citations

430874

18
h-index

377865

34
g-index

49
all docs

49
docs citations

49
times ranked

1271
citing authors

#	ARTICLE	IF	CITATIONS
1	Illumination of Arabidopsis roots induces immediate burst of ROS production. <i>Plant Signaling and Behavior</i> , 2011, 6, 1460-1464.	2.4	99
2	A <i>Pseudomonas</i> strain isolated from date-palm rhizospheres improves root growth and promotes root formation in maize exposed to salt and aluminum stress. <i>Journal of Plant Physiology</i> , 2016, 191, 111-119.	3.5	92
3	An improved agar-plate method for studying root growth and response of <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2013, 3, 1273.	3.3	91
4	Alleviation of aluminium-induced cell rigidity by overexpression of OsPIN2 in rice roots. <i>Journal of Experimental Botany</i> , 2014, 65, 5305-5315.	4.8	89
5	Light as stress factor to plant roots – case of root halotropism. <i>Frontiers in Plant Science</i> , 2014, 5, 718.	3.6	85
6	Root photomorphogenesis in laboratory-maintained <i>Arabidopsis</i> seedlings. <i>Trends in Plant Science</i> , 2013, 18, 117-119.	8.8	76
7	Editorial: ROS Regulation during Plant Abiotic Stress Responses. <i>Frontiers in Plant Science</i> , 2016, 7, 1536.	3.6	58
8	How and why do root apices sense light under the soil surface?. <i>Frontiers in Plant Science</i> , 2015, 6, 775.	3.6	56
9	Pectins, ROS homeostasis and UV-B responses in plant roots. <i>Phytochemistry</i> , 2015, 112, 80-83.	2.9	50
10	UV-B Induced Generation of Reactive Oxygen Species Promotes Formation of BFA-Induced Compartments in Cells of <i>Arabidopsis</i> Root Apices. <i>Frontiers in Plant Science</i> , 2015, 6, 1162.	3.6	40
11	Nitric Oxide-Mediated Maize Root Apex Responses to Nitrate are Regulated by Auxin and Strigolactones. <i>Frontiers in Plant Science</i> , 2015, 6, 1269.	3.6	38
12	Anaesthetics stop diverse plant organ movements, affect endocytic vesicle recycling and ROS homeostasis, and block action potentials in Venus flytraps. <i>Annals of Botany</i> , 2018, 122, 747-756.	2.9	38
13	Plant anesthesia supports similarities between animals and plants. <i>Plant Signaling and Behavior</i> , 2014, 9, e27886.	2.4	37
14	Understanding of anesthesia – Why consciousness is essential for life and not based on genes. <i>Communicative and Integrative Biology</i> , 2016, 9, e1238118.	1.4	37
15	Overexpressing <i>OsPIN2</i> enhances aluminium internalization by elevating vesicular trafficking in rice root apex. <i>Journal of Experimental Botany</i> , 2015, 66, 6791-6801.	4.8	33
16	Root cap-dependent gravitropic U-turn of maize root requires light-induced auxin biosynthesis via the YUC pathway in the root apex. <i>Journal of Experimental Botany</i> , 2016, 67, 4581-4591.	4.8	28
17	Anesthetics, Anesthesia, and Plants. <i>Trends in Plant Science</i> , 2019, 24, 12-14.	8.8	22
18	The TOR Complex: An Emergency Switch for Root Behavior. <i>Plant and Cell Physiology</i> , 2016, 57, 14-18.	3.1	20

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19	MES Buffer Affects Arabidopsis Root Apex Zonation and Root Growth by Suppressing Superoxide Generation in Root Apex. <i>Frontiers in Plant Science</i> , 2016, 7, 79.	3.6	19
20	Ether anesthetics prevents touch-induced trigger hair calcium-electrical signals excite the Venus flytrap. <i>Scientific Reports</i> , 2022, 12, 2851.	3.3	19
21	Light-dependent control of redox balance and auxin biosynthesis in plants. <i>Plant Signaling and Behavior</i> , 2014, 9, e29522.	2.4	18
22	Expression of Root Genes in Arabidopsis Seedlings Grown by Standard and Improved Growing Methods. <i>International Journal of Molecular Sciences</i> , 2017, 18, 951.	4.1	18
23	Arabidopsis Roots and Light: Complex Interactions. <i>Molecular Plant</i> , 2019, 12, 1428-1430.	8.3	14
24	Anaesthetics and plants: from sensory systems to cognition-based adaptive behaviour. <i>Protoplasma</i> , 2021, 258, 449-454.	2.1	12
25	Prevention of Oxidative DNA Degradation by Copper-Binding Peptides. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1377-1379.	1.3	11
26	Prevention of Copper-Induced Calcium Influx and Cell Death by Prion-Derived Peptide in Suspension-Cultured Tobacco Cells. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2009, 64, 411-417.	1.4	10
27	Single Wavelengths of LED Light Supplement Promote the Biosynthesis of Major Cyclic Monoterpenes in Japanese Mint. <i>Plants</i> , 2021, 10, 1420.	3.5	10
28	High-quality sugar production by <i>osgcs1</i> rice. <i>Communications Biology</i> , 2020, 3, 617.	4.4	9
29	Free tyrosine and tyrosine-rich peptide-dependent superoxide generation catalyzed by a copper-binding, threonine-rich neurotoxic peptide derived from prion protein. <i>International Journal of Biological Sciences</i> , 2009, 5, 53-63.	6.4	8
30	Copper-Binding Peptides from Human Prion Protein and Newly Designed Peroxidative Biocatalysts. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2011, 66, 182-190.	1.4	8
31	Thermo-Stable Nature of Aromatic Monoamine-Dependent Superoxide-Generating Activity of Human Prion-Derived Cu-Binding Peptides. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 1218-1220.	1.3	7
32	Sense of space: Tactile sense for exploratory behavior of roots. <i>Communicative and Integrative Biology</i> , 2018, 11, 1-5.	1.4	7
33	Superoxide generation catalyzed by the ozone-inducible plant peptides analogous to prion octarepeat motif. <i>Plant Signaling and Behavior</i> , 2011, 6, 477-482.	2.4	6
34	Mechanism of the adverse effect of hyaluronidase used for oocyte denudation on early development of bovine embryos. <i>Zygote</i> , 2021, 29, 337-341.	1.1	5
35	<i>C. elegans</i> and <i>Arabidopsis thaliana</i> show similar behavior: ROS induce escape tropisms both in illuminated nematodes and roots. <i>Plant Signaling and Behavior</i> , 2015, 10, e1073870.	2.4	4
36	Production and removal of superoxide anion radical by artificial metalloenzymes and redox-active metals. <i>Communicative and Integrative Biology</i> , 2015, 8, e1000710.	1.4	4

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37	Copper-Binding Peptides from Human Prion Protein and Newly Designed Peroxidative Biocatalysts. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2011, 66, 0182.	1.4	4
38	USE OF <i>CYPRIDINA</i> LUCIFERIN ANALOG FOR ASSESSING THE MONOAMINE OXIDASE-LIKE SUPEROXIDE-GENERATING ACTIVITIES OF TWO PEPTIDE SEQUENCES CORRESPONDING TO THE HELICAL COPPER-BINDING MOTIF IN HUMAN PRION PROTEIN AND ITS MODEL ANALOG. , 2008, , .		2
39	CHEMILUMINESCENT AND BIOLUMINESCENT ANALYSIS OF PLANT CELL RESPONSES TO REACTIVE OXYGEN SPECIES PRODUCED BY A NEW WATER CONDITIONING APPARATUS EQUIPPED WITH TITANIA-COATED PHOTO-CATALYTIC FIBERS. , 2008, , .		1
40	Dynamic Regulation of Endocytic Vesicle Recycling and PIN2 Localization in <i>Arabidopsis</i> Roots under Varying Light Qualities. Environmental Control in Biology, 2016, 54, 51-55.	0.7	1
41	Fish and plant sentience: Anesthetized plants and fishes cannot respond to stimuli. Animal Sentience, 2018, 3, .	0.5	1
42	Plant Roots as Excellent Pathfinders: Root Navigation Based on Plant Specific Sensory Systems and Sensorimotor Circuits. Emergence, Complexity and Computation, 2017, , 677-685.	0.3	0
43	A green light-excitabile FRET system for monitoring intracellular calcium levels in plant cells. Plant Signaling and Behavior, 2021, 16, 1963104.	2.4	0
44	ROS Regulation during Plant Abiotic Stress Responses. Frontiers Research Topics, 0, , .	0.2	0