Masahiro Osakabe

List of Publications by Year
in descending order

115 papers	2,559 citations	201674 27 h-index	265206 42 g-index
117 all docs	117 docs citations	117 times ranked	1140 citing authors

#	Article	IF	Citations
1	Disruption of a horizontally transferred phytoene desaturase abolishes carotenoid accumulation and diapause in<i>Tetranychus urticae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5871-E5880.	7.1	114
2	Deleterious Effects of Uv-B Radiation on Herbivorous Spider Mites: They Can Avoid It by Remaining on Lower Leaf Surfaces. Environmental Entomology, 2009, 38, 920-929.	1.4	102
3	Host race formation in the Acari. Experimental and Applied Acarology, 2007, 42, 225-238.	1.6	89
4	A mutation in the PSST homologue of complex I (NADH:ubiquinone oxidoreductase) from Tetranychus urticae is associated with resistance to METI acaricides. Insect Biochemistry and Molecular Biology, 2017, 80, 79-90.	2.7	82
5	Spectrumâ€specific Damage and Solar Ultraviolet Radiation Avoidance in the Twoâ€spotted Spider Mite. Photochemistry and Photobiology, 2010, 86, 925-932.	2.5	77
6	Phytoseiid mites under environmental stress. Biological Control, 2016, 96, 120-134.	3.0	75
7	Genetic Basis of Resistances to Chlorfenapyr and Etoxazole in the Two-Spotted Spider Mite (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	65
8	Molecular analysis of cyenopyrafen resistance in the twoâ€spotted spider mite <i>Tetranychus urticae</i>. Pest Management Science, 2016, 72, 103-112.	3.4	60
9	Do plant mites commonly prefer the underside of leaves?. Experimental and Applied Acarology, 2011, 55, 25-38.	1.6	52
10	Phylogenetic analysis of green and red forms of the two-spotted spider mite, Tetranychus urticae Koch (Acari: Tetranychidae), in Japan, based on mitochondrial cytochrome oxidase subunit I sequences.. Applied Entomology and Zoology, 2001, 36, 459-464.	1.2	50
11	Vulnerability and behavioral response to ultraviolet radiation in the components of a foliar mite preyâ€"predator system. Die Naturwissenschaften, 2012, 99, 1031-1038.	1.6	46
12	Seasonal changes in the deleterious effects of solar ultraviolet-B radiation on eggs of the twospotted spider mite, Tetranychus urticae (Acari: Tetranychidae). Applied Entomology and Zoology, 2012, 47, 67-73.	1.2	46
13	The Bunsenâ€"Roscoe reciprocity law in ultraviolet-B-induced mortality of the two-spotted spider mite Tetranychus urticae. Journal of Insect Physiology, 2013, 59, 241-247.	2.0	44
14	Tolerance to Solar Ultravioletâ€B Radiation in the Citrus Red Mite, An Upper Surface User of Host Plant Leaves. Photochemistry and Photobiology, 2013, 89, 424-431.	2.5	43
15	Interspecific diversity of mitochondrial COI sequences in Japanese Panonychus species (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.6	42
16	Physical Control of Spider Mites Using Ultraviolet-B With Light Reflection Sheets in Greenhouse Strawberries. Journal of Economic Entomology, 2016, 109, 1758-1765.	1.8	42
17	Protocols for the delivery of small molecules to the two-spotted spider mite, Tetranychus urticae. PLoS ONE, 2017, 12, e0180658.	2.5	40
18	Identification of spider mites (Acari: Tetranychidae) by DNA sequences: A case study in northern Vietnam. International Journal of Acarology, 2007, 33, 53-60.	0.7	38

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19	Imaginal Feeding for Progression of Diapause Phenotype in the Two-Spotted Spider Mite (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	37
20	Factors affecting photoreactivation in UVB-irradiated herbivorous spider mite (Tetranychus urticae). Experimental and Applied Acarology, 2014, 63, 253-265.	1.6	36
21	Crossâ€resistance between cyenopyrafen and pyridaben in the twospotted spider mite <i>Tetranychus urticae</i> (Acari: Tetranychidae). Pest Management Science, 2014, 70, 1090-1096.	3.4	36
22	Combination of restriction endonuclease digestion with the Î”Î”Ct method in real-time PCR to monitor etoxazole resistance allele frequency in the two-spotted spider mite. Pesticide Biochemistry and Physiology, 2017, 139, 1-8.	3.6	36
23	QTL mapping using microsatellite linkage reveals target-site mutations associated with high levels of resistance against three mitochondrial complex II inhibitors in Tetranychus urticae. Insect Biochemistry and Molecular Biology, 2020, 123, 103410.	2.7	36
24	Relationships between Food Substances and Developmental Success in Amblyseius sojaensis EHARA (Acarina : Phytoseiidae). Applied Entomology and Zoology, 1988, 23, 45-51.	1.2	33
25	Spectrum-Specific Uv Egg Damage and Dispersal Responses in the Phytoseiid Predatory Mite<i>Neoseiulus californicus</i>(Acari: Phytoseiidae). Environmental Entomology, 2014, 43, 787-794.	1.4	31
26	Effect of Amblyseius sojaensis EHARA (Acarina : Phytoseiidae) as a Predator of Panonychus citri (McGREGOR) and Tetranychus kanzawai KISHIDA : Acarina : Tetranychidae. Applied Entomology and Zoology, 1987, 22, 594-599.	1.2	30
27	Amensalism via webs causes unidirectional shifts of dominance in spider mite communities. Oecologia, 2006, 150, 496-505.	2.0	30
28	Aerodynamic advantages of upside down take-off for aerial dispersal in Tetranychus spider mites. Experimental and Applied Acarology, 2008, 44, 165-183.	1.6	28
29	Development, long-term survival, and the maintenance of fertility in NeoseiulusÂcalifornicus (Acari:) Tj ETQq1 1 0.784314 rgBT /Overl	1.6	28
30	Convergent evolution of cytochrome P450s underlies independent origins of keto-carotenoid pigmentation in animals. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191039.	2.6	28
31	Evolutionary Aspects of Acaricide-Resistance Development in Spider Mites. Psyche: Journal of Entomology, 2009, 2009, 1-11.	0.9	27
32	Photo-enzymatic repair of UVB-induced DNA damage in the two-spotted spider mite Tetranychus urticae. Experimental and Applied Acarology, 2017, 71, 15-34.	1.6	27
33	The fine-scale genetic structure of the two-spotted spider mite in a commercial greenhouse. Experimental and Applied Acarology, 2009, 47, 99-109.	1.6	26
34	A New Fixation Method for Preparing Mite Specimens for Optical and SEM Microscopic Observations. Applied Entomology and Zoology, 1992, 27, 427-436.	1.2	26
35	Discrimination of four Japanese Tetranychus species (Acari: Tetranychidae) using PCR-RFLP of the inter-transcribed spacer region of nuclear ribosomal DNA.. Applied Entomology and Zoology, 2002, 37, 399-407.	1.2	25
36	Significance of habitat type for the genetic population structure of Panonychus citri (Acari:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	1.6	25

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37	Isolation and characterization of microsatellite loci in the two-spotted spider mite,Tetranychus urticae(Acari: Tetranychidae). Molecular Ecology Notes, 2007, 7, 290-292.	1.7	24
38	Web-Mediated Interspecific Competition Among Spider Mites. Journal of Economic Entomology, 2006, 99, 678-684.	1.8	24
39	Why does the predatory mite Neoseiulus womersleyi Schicha (Acari: Phytoseiidae) prefer spider mite eggs to adults?. Applied Entomology and Zoology, 2005, 40, 675-678.	1.2	23
40	Restriction Fragment Length Polymorphism Catalog for Molecular Identification of Japanese Tetranychus Spider Mites (Acari: Tetranychidae). Journal of Economic Entomology, 2008, 101, 1167-1175.	1.8	23
41	Evidence of a high level of gene flow among apple trees in Tetranychus urticae. Experimental and Applied Acarology, 2009, 49, 281-290.	1.6	23
42	Antioxidant Protection by Astaxanthin in the Citrus Red Mite (Acari: Tetranychidae). Environmental Entomology, 2017, 46, 1143-1150.	1.4	22
43	Esterase Activities and Developmental Success of the Citrus Red Mite, Panonychus citri (MCGREGOR)(Acarina : Tetranychidae), on Several Plants. Applied Entomology and Zoology, 1987, 22, 35-44.	1.2	21
44	Spider mites assess predation risk by using the odor of injured conspecifics. Journal of Chemical Ecology, 2003, 29, 2609-2613.	1.8	21
45	Do spider miteâ€infested plants and spider mite trails attract predatory mites?. Ecological Research, 2009, 24, 1173-1178.	1.5	21
46	Feeding, Reproduction and Development of Amblyseius sojaensis EHARA (Acarina : Phytoseiidae) on Two Species of Spider Mites and on Tea Pollen. Applied Entomology and Zoology, 1986, 21, 322-327.	1.2	21
47	Linkage Between One of the Polygenic Hexythiazox Resistance Genes and an Etoxazole Resistance Gene in the Twospotted Spider Mite (Acari: Tetranychidae). Journal of Economic Entomology, 2008, 101, 1704-1710.	1.8	21
48	Influence of Trap and Barrier Crops on Occurrence of and Damage by Stink Bugs and Lepidopterous Pod Borers in Soybean Fields.. Japanese Journal of Applied Entomology and Zoology, 2002, 46, 233-241.	0.1	20
49	Web-Mediated Interspecific Competition Among Spider Mites. Journal of Economic Entomology, 2006, 99, 678-684.	1.8	20
50	Effects of Low Temperature on Spider Mite Control by Intermittent Ultraviolet-B Irradiation for Practical Use in Greenhouse Strawberries. Environmental Entomology, 2018, 47, 140-147.	1.4	20
51	Differences in esterase isozymes between Panonychus citri populations infesting citrus and Osmanthus. Experimental and Applied Acarology, 1996, 20, 113-119.	1.6	19
52	PCR-RFLP Analysis for Identification of <I>Tetranychus</I> Spider Mite Species (Acari:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.8	19
53	Divergence of the Northern and Southwestern Populations of Panonychus mori YOKOYAMA(Acari:Tetranychidae)in Japan in Host Range and Reproductive Compatibility. Applied Entomology and Zoology, 1993, 28, 189-197.	1.2	18
54	Genetic distinctness between two forms of Tetranychus urticae Koch (Acari: Tetranychidae) detected by electrophoresis. Experimental and Applied Acarology, 1996, 20, 683-693.	1.6	18

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55	Prey preference of the predatory mite Neoseiulus womersleyi Schicha is determined by spider mite webs. Journal of Applied Entomology, 2005, 129, 336-339.	1.8	18
56	Restriction Fragment Length Polymorphism Catalog for Molecular Identification of Japanese <I>Tetranychus</I> Spider Mites (Acari: Tetranychidae). Journal of Economic Entomology, 2008, 101, 1167-1175.	1.8	18
57	RFLP analysis of ribosomal DNA in sibling species of spider mite, genus Panonychus (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.0	17
58	Difference of Esterase Isozymes between Non-diapausing and Diapausing Strains of the Citrus Red Mite, Panonychus citri (McGREGOR) : Acarina : Tetranychidae. Applied Entomology and Zoology, 1987, 22, 577-584.	1.2	17
59	Predator fauna on windbreaks around citrus groves.. Japanese Journal of Applied Entomology and Zoology, 1991, 35, 49-56.	0.1	16
60	Use of Malic Enzyme to Detect Hybrids between Torymus sinensis and T. beneficus(Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Hybridization.. Japanese Journal of Applied Entomology and Zoology, 1996, 40, 205-208.	0.1	16
61	Occurrence and hybridization of two parasitoid wasps, Torymus sinensis Kamijo and T. beneficus Yasumatsu et Kamijo (Hymenoptera: Torymidae) in the Oki islands.. Applied Entomology and Zoology, 2000, 35, 151-154.	1.2	16
62	Mating Strategies of <I>Tetranychus kanzawai</I> (Acari: Tetranychidae) in Relation to Mating Status of Females. Annals of the Entomological Society of America, 2005, 98, 625-628.	2.5	16
63	Molecular cloning and characterization of a microsatellite locus found in an RAPD marker of a spider mite, Panonychus citri (Acari: Tetranychidae). Experimental and Applied Acarology, 2000, 24, 385-395.	1.6	15
64	Pre-winter copulation enhances overwintering success of Orius females (Heteroptera: Anthocoridae). Applied Entomology and Zoology, 2009, 44, 47-52.	1.2	15
65	Biological impact of ultraviolet-B radiation on spider mites and its application in integrated pest management. Applied Entomology and Zoology, 2021, 56, 139-155.	1.2	15
66	Kanzawa spider mites acquire enemy-free space on a detrimental host plant, oleander. Entomologia Experimentalis Et Applicata, 2011, 138, 212-222.	1.4	14
67	Developmental Phase-Specific Mortality After Ultraviolet-B Radiation Exposure in the Two-Spotted Spider Mite. Environmental Entomology, 2017, 46, 1448-1455.	1.4	14
68	Coâ€occurrence of subunit <scp>B</scp> and <scp>C</scp> mutations in respiratory complex <scp>II</scp> confers high resistance levels to pyflubumide and cyenopyrafen in the twoâ€spotted spider mite <scp><i>Tetranychus urticae</i></scp> (<scp>Acari: Tetranychidae</scp>). Pest Management Science, 2021, 77, 5149-5157.	3.4	14
69	Host Range Segregation and Reproductive Incompatibility among Panonychus citri Populations Infesting Osmanthus Trees and Other Host Plants. Applied Entomology and Zoology, 1996, 31, 397-406.	1.2	14
70	Esterase zymogram of the citrus red mite, Panonychus citri (McGregor), on citrus and pear. Japanese Journal of Applied Entomology and Zoology, 1984, 28, 1-4.	0.1	13
71	The predatory mite Neoseiulus womersleyi (Acari: Phytoseiidae) follows extracts of trails left by the two-spotted spider mite Tetranychus urticae (Acari: Tetranychidae). Experimental and Applied Acarology, 2010, 52, 111-118.	1.6	13
72	Suspension of Egg Hatching Caused by High Humidity and Submergence in Spider Mites. Environmental Entomology, 2015, 44, 1210-1219.	1.4	13

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73	A Method for Preparing Permanent Specimens of Mites with Canada Balsam. Applied Entomology and Zoology, 1993, 28, 593-597.	1.2	12
74	Genetic Analysis of Esterases in the Citrus Red Mite, Panonychus citri(MCGREGOR)(Acari:Tetranychidae). Applied Entomology and Zoology, 1991, 26, 307-312.	1.2	12
75	Combination of target site mutation and associated CYPs confers high-level resistance to pyridaben in Tetranychus urticae. Pesticide Biochemistry and Physiology, 2022, 181, 105000.	3.6	12
76	A Pollen Diet Confers Ultraviolet-B Resistance in Phytoseiid Mites by Providing Antioxidants. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	11
77	Mechanism of acequinocyl resistance and cross-resistance to bifenazate in the two-spotted spider mite, Tetranychus urticae (Acari: Tetranychidae). Applied Entomology and Zoology, 2019, 54, 421-427.	1.2	10
78	Protein Differences Detected by Two-Dimensional Electrophoresis among Local Populations of Panonychus citri(MCGREGOR)(Acari:Tetranychidae)in Japan. Applied Entomology and Zoology, 1993, 28, 497-502.	1.2	10
79	Identification of pesticide resistant phytoseiid mite populations in citrus orchards, and on grapevines in glasshouses and vinyl-houses (Acarina:Phytoseiidae).. Japanese Journal of Applied Entomology and Zoology, 1987, 31, 398-403.	0.1	9
80	Effects of wall structure and light intensity on the settlement of a predatory mite, Euseius sojaensis (Ehara) (Acari: Phytoseiidae). Applied Entomology and Zoology, 2009, 44, 81-84.	1.2	9
81	Ultimate Drivers and Proximate Correlates of Polyandry in Predatory Mites. PLoS ONE, 2016, 11, e0154355.	2.5	9
82	Diagnostic prediction of acaricide resistance gene frequency using quantitative real-time PCR with resistance allele-specific primers in the two-spotted spider mite Tetranychusurticae population (Acari:) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	9
83	Strawberry pollen as a source of <scp>UVâ€B</scp> protection ingredients for the phytoseiid mite <i>Neoseiulus californicus</i> (Acari: Phytoseiidae). Pest Management Science, 2021, 77, 851-859.	3.4	9
84	Relation between Banding Patterns of Malic Enzyme by Electrophoresis and a Morphological Character in Exotic and Native Torymus Species. Applied Entomology and Zoology, 1995, 30, 37-41.	1.2	8
85	Which predatory mite can control both a dominant mite pest, Tetranychus urticae, and a latent mite pest, Eotetranychus asiaticus, on strawberry?. Experimental and Applied Acarology, 2002, 26, 219-230.	1.6	8
86	Upâ€regulation of pathogenesisâ€related genes in strawberry leaves treated with powdery mildewâ€suppressing ultraviolet irradiation. Plant Pathology, 2021, 70, 1378-1387.	2.4	8
87	Stellate hairs on leaves of a deciduous shrub Viburnum erosum var. punctatum (Adoxaceae) effectively protect Brevipalpus obovatus (Acari: Tenuipalpidae) eggs from the predator Phytoseius nipponicus (Acari: Phytoseiidae). Experimental and Applied Acarology, 2013, 60, 299-311.	1.6	7
88	Joint Effect of Solar UVB and Heat Stress on the Seasonal Change of Egg Hatching Success in the Herbivorous False Spider Mite (Acari: Tenuipalpidae). Environmental Entomology, 2015, 44, 1605-1613.	1.4	7
89	Low level of polyandry constrains phenotypic plasticity of male body size in mites. PLoS ONE, 2017, 12, e0188924.	2.5	7
90	Differences in ecological and genetic traits between Panonychus citri (Acari: Tetranychidae) populations infesting citrus and Osmant hus. Experimental and Applied Acarology, 1997, 21, 365-378.	1.6	6

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91	Development of genetic differentiation and postzygotic isolation in experimental metapopulations of spider mites. Experimental and Applied Acarology, 2003, 31, 161-176.	1.6	6
92	Doseâ€"Response and Temperature Dependence of the Mortality of Spider Mite and Predatory Mite Eggs Caused by Daily Nighttime Ultravioletâ€B Irradiation. Photochemistry and Photobiology, 2020, 96, 877-882.	2.5	6
93	Laboratory experiments on a change in genetic structure with an increase of population density in the citrus red mite population, Panonychus citri (McGregor) (Acari : Tetranychidae). Applied Entomology and Zoology, 1999, 34, 413-420.	1.2	6
94	Effects of UV-B radiation on the reproduction of Tetranychus ludeni and the growth of melon plants. Proceedings of the Kansai Plant Protection Society, 2013, 55, 37-41.	0.1	6
95	Construction of a Spraying System to Replace the Rotary Distributing Sprayer. Japanese Journal of Applied Entomology and Zoology, 2017, 61, 192-194.	0.1	6
96	A comparison of the effects of gravity and the nutritional advantage of leaf surfaces on fecundity in the two-spotted spider mite (Acari: Tetranychidae). Journal of the Acarological Society of Japan, 2012, 21, 1-6.	0.2	5
97	Effects of combination between web density and size of spider mite on predation by a generalist and a specialist phytoseiid mite. Experimental and Applied Acarology, 2015, 66, 219-225.	1.6	5
98	Difference between Nighttime and Daytime UV-B Irradiation with Respect to the Extent of Damage to Perilla Leaves. Horticulture Journal, 2017, 86, 349-356.	0.8	5
99	Properties of non-specific esterases of the citrus red mite, Panonychus citri (McGregor), which hydrolyze .ALPHA.- and .BETA.-naphthyl acetate.. Japanese Journal of Applied Entomology and Zoology, 1985, 29, 50-54.	0.1	4
100	Development of the European Red Mite, Panonychus ulmi (KOCH)(Acari : Tetranychidae), on Mulberry and Some Other Plants. Applied Entomology and Zoology, 1990, 25, 326-328.	1.2	4
101	Geotaxis and leaf-surface preferences mitigate negative effects of a predatory mite on an herbivorous mite. Experimental and Applied Acarology, 2013, 59, 409-420.	1.6	4
102	The effects of prestarvation diet on starvation tolerance of the predatory mite <i><scp>N</scp>eoseiulus californicus</i> (<scp>A</scp>cari: <scp>P</scp>hytoseiidae). Physiological Entomology, 2015, 40, 296-303.	1.5	4
103	Development and Evaluation of Microsatellite Markers in Tetranychus truncatus Ehara (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1	0.2	3
104	Molecular monitoring of Neoseiulus californicus released from sheltered slow-release sachets for spider mite control in a Japanese pear greenhouse. Experimental and Applied Acarology, 2020, 80, 203-214.	1.6	3
105	freqpcr: Estimation of population allele frequency using qPCR Î"Î"Cq measures from bulk samples. Molecular Ecology Resources, 2022, 22, 1380-1393.	4.8	3
106	A mutation in chitin synthase I associated with etoxazole resistance in the citrus red mite <i>Panonychus citri</i> (Acari: Tetranychidae) and its uneven geographical distribution in Japan. Pest Management Science, 2022, 78, 4028-4036.	3.4	3
107	Hibernation of the Kanzawa spider mite, Tetranychus kanzawai Kishida (Acarina: Tetranychidae) and its predators in grapevine glasshouses.. Japanese Journal of Applied Entomology and Zoology, 1987, 31, 23-27.	0.1	2
108	Effect of cytochrome P450 inhibitor, piperonyl butoxide, on survival of Panonychus citri (McGregor) (Acari: Tetranychidae) on citrus leaves. Applied Entomology and Zoology, 2006, 41, 487-491.	1.2	2

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109	Acaricide resistance in spider mites. Journal of Pesticide Sciences, 2009, 34, 207-214.	1.4	2
110	DNA preparation method in eggs, immature stages, and diapausing females of Tetranychus spider mites (Acari: Tetranychidae) for diagnostic PCR-RFLP. Applied Entomology and Zoology, 2012, 47, 295-300.	1.2	2
111	Effects of Growth Phase and Ultraviolet-B Pretreatment in Perilla Leaves on the Two-Spotted Spider Mite. Environmental Entomology, 2020, 49, 886-894.	1.4	2
112	Host plants utilized during the immature development of Tetranychus kanzawai (Acari: Tetranychidae) determine the preference of the adult females for the plants.. Journal of the Acarological Society of Japan, 2007, 16, 121-127.	0.2	2
113	ã,³ã,¬ãƒfãƒfã,·é¡žã®ç™ºè,²ã,¹ãƒ†ãƒ¼ã,¸ã¨å'¼å¸é‡ã¨ã®é–¢ä¿‚. Japanese Journal of Applied Entomology and Zoology, 1982, 26, 294-299.	0.1	1
114	Reproductive rates in the citrus red mite, Panonychus citri (McGregor), under high temperature conditions with daily fluctuations.. Japanese Journal of Applied Entomology and Zoology, 1986, 30, 21-26.	0.1	1
115	Mechanisms underlying the impact and interaction of temperature and <scp>UVâ€B</scp> on the hatching of spider mite and phytoseiid mite eggs. Pest Management Science, 2022, 78, 4314-4323.	3.4	1