John P. Carr

List of Publications by Year
in descending order

117 papers	8,440 citations	38742 50 h-index	46799 89 g-index
122 all docs	122 docs citations	122 times ranked	5829 citing authors

#	Article	IF	Citations
1	Susceptibility of five cabbage varieties to attack by aphids (Hemiptera: Aphididae) in the Accra plains of Ghana. Phytoparasitica, 2021, 49, 33-47.	1.2	1
2	Infection of <i>Arabidopsis</i> by cucumber mosaic virus triggers jasmonateâ€dependent resistance to aphids that relies partly on the patternâ€triggered immunity factor BAK1. Molecular Plant Pathology, 2021, 22, 1082-1091.	4.2	6
3	An Innate Preference of Bumblebees for Volatile Organic Compounds Emitted by Phaseolus vulgaris Plants Infected With Three Different Viruses. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	6
4	Modelling and manipulation of aphid-mediated spread of non-persistently transmitted viruses. Virus Research, 2020, 277, 197845.	2.2	39
5	Inositol hexakisphosphate biosynthesis underpins PAMPâ€triggered immunity toPseudomonas syringaepv.tomatoinArabidopsis thalianabut is dispensable for establishment of systemic acquired resistance. Molecular Plant Pathology, 2020, 21, 376-387.	4.2	8
6	Cucumber mosaic virus 2b proteins inhibit virusâ€induced aphid resistance in tobacco. Molecular Plant Pathology, 2020, 21, 250-257.	4.2	27
7	Preface. Advances in Virus Research, 2020, 107, xi-xii.	2.1	0
8	Effects of the cucumber mosaic virus 2a protein on aphidâ€“plant interactions inArabidopsis thaliana. Molecular Plant Pathology, 2020, 21, 1248-1254.	4.2	10
9	Viral Perturbation of Alternative Splicing of a Host Transcript Benefits Infection. Plant Physiology, 2020, 184, 1514-1531.	4.8	11
10	Three Aphid-Transmitted Viruses Encourage Vector Migration From Infected Common Bean (Phaseolus) Tj ETQq0 0 0 rgBT /Overlock 10 2020, 11, 613772.	3.6	13
11	An update on salicylic acid biosynthesis, its induction and potential exploitation by plant viruses. Current Opinion in Virology, 2020, 42, 8-17.	5.4	43
12	First Report and Distribution of the Indian Mustard Aphid, Lipaphis erysimi pseudobrassicae (Hemiptera:) Tj ETQq0 0 0 rgBT /Overlock 10 2020, 113, 1363-1372.	1.8	8
13	The cucumber mosaic virus 1a protein regulates interactions between the 2b protein and ARGONAUTE 1 while maintaining the silencing suppressor activity of the 2b protein. PLoS Pathogens, 2020, 16, e1009125.	4.7	12
14	Editorial overview: Resistance is not futile: an update on antiviral strategies in plants. Current Opinion in Virology, 2020, 42, iii-iv.	5.4	0
15	Maize phenylalanine ammoniaâ€lyases contribute to resistance to <i>Sugarcane mosaic virus</i> infection, mostÂlikely throughÂpositive regulation of salicylic acid accumulation. Molecular Plant Pathology, 2019, 20, 1365-1378.	4.2	64
16	Exogenous Application of RNAi-Inducing Double-Stranded RNA Inhibits Aphid-Mediated Transmission of a Plant Virus. Frontiers in Plant Science, 2019, 10, 265.	3.6	134
17	Pathogenic modification of plants enhances longâ€distance dispersal of nonpersistently transmitted viruses to new hosts. Ecology, 2019, 100, e02725.	3.2	55
18	Plant defense signals: Players and pawns in plant-virus-vector interactions. Plant Science, 2019, 279, 87-95.	3.6	67

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19	Different Plant Viruses Induce Changes in Feeding Behavior of Specialist and Generalist Aphids on Common Bean That Are Likely to Enhance Virus Transmission. Frontiers in Plant Science, 2019, 10, 1811.	3.6	27
20	Metagenomic Analysis of Plant Virus Occurrence in Common Bean (Phaseolus vulgaris) in Central Kenya. Frontiers in Microbiology, 2018, 9, 2939.	3.5	29
21	RNA Viruses: Plant Pathogenic. , 2018, , 178-178.		0
22	Viral Manipulation of Plant Stress Responses and Host Interactions With Insects. Advances in Virus Research, 2018, 102, 177-197.	2.1	48
23	Identification of differentially regulated maize proteins conditioning <i>Sugarcane mosaic virus</i> systemic infection. New Phytologist, 2017, 215, 1156-1172.	7.3	51
24	The biochemical properties of the two <i>Arabidopsis thaliana</i> isochorismate synthases. Biochemical Journal, 2017, 474, 1579-1590.	3.7	23
25	Editorial overview: Engineering for viral resistance: Vive La RÃ©sistance! Engineering plants to enhance virus resistance. Current Opinion in Virology, 2017, 26, iv-v.	5.4	0
26	Manipulation of induced resistance to viruses. Current Opinion in Virology, 2017, 26, 141-148.	5.4	25
27	Exploring how viruses enhance plants' resilience to drought and the limits to this form of viral payback. Plant, Cell and Environment, 2017, 40, 2906-2908.	5.7	20
28	Engineering resistance to virus transmission. Current Opinion in Virology, 2017, 26, 20-27.	5.4	43
29	Cucumber mosaic virus and its 2b protein alter emission of host volatile organic compounds but not aphid vector settling in tobacco. Virology Journal, 2017, 14, 91.	3.4	58
30	Viral metagenomics of aphids present in bean and maize plots on mixed-use farms in Kenya reveals the presence of three dicistroviruses including a novel Big Sioux River virus-like dicistrovirus. Virology Journal, 2017, 14, 188.	3.4	43
31	First Report of <i>Cucumber mosaic virus</i> Infecting <i>Pimpinella brachycarpa</i> in Korea. Plant Disease, 2017, 101, 844.	1.4	4
32	Virus Infection of Plants Alters Pollinator Preference: A Payback for Susceptible Hosts?. PLoS Pathogens, 2016, 12, e1005790.	4.7	86
33	RNA-dependent RNA polymerase 1 in potato (Solanum tuberosum) and its relationship to other plant RNA-dependent RNA polymerases. Scientific Reports, 2016, 6, 23082.	3.3	31
34	Focus on Noncoding RNA Regulation of Plant-Microbe Interactions. Molecular Plant-Microbe Interactions, 2016, 29, 155-155.	2.6	0
35	Salicylic acid treatment and expression of an RNA-dependent RNA polymerase 1 transgene inhibit lethal symptoms and meristem invasion during tobacco mosaic virus infection in Nicotiana benthamiana. BMC Plant Biology, 2016, 16, 15.	3.6	63
36	Mutational analysis of the<i>Potyviridae</i>transcriptional slippage site utilized for expression of the P3N-PIPO and P1N-PISPO proteins. Nucleic Acids Research, 2016, 44, 7618-7629.	14.5	36

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37	An improved cucumber mosaic virus-based vector for efficient decoying of plant microRNAs. Scientific Reports, 2015, 5, 13178.	3.3	22
38	Bean Common Mosaic Virus and Bean Common Mosaic Necrosis Virus. Advances in Virus Research, 2015, 93, 1-46.	2.1	82
39	Transcriptional slippage in the positiveâ€sense <scp>RNA</scp> virus family <i>Potyviridae</i>. EMBO Reports, 2015, 16, 995-1004.	4.5	192
40	Domains of the cucumber mosaic virus 2b silencing suppressor protein affecting inhibition of salicylic acid-induced resistance and priming of salicylic acid accumulation during infection. Journal of General Virology, 2014, 95, 1408-1413.	2.9	40
41	Interference with jasmonic acid-regulated gene expression is a general property of viral suppressors of RNA silencing but only partly explains virus-induced changes in plantâ€“aphid interactions. Journal of General Virology, 2014, 95, 733-739.	2.9	50
42	Effects of modifying alternative respiration on nitric oxide-induced virus resistance and PR1 protein accumulation. Journal of General Virology, 2014, 95, 2075-2081.	2.9	11
43	Nuclear-Cytoplasmic Partitioning of Cucumber Mosaic Virus Protein 2b Determines the Balance between Its Roles as a Virulence Determinant and an RNA-Silencing Suppressor. Journal of Virology, 2014, 88, 5228-5241.	3.4	59
44	Using a Viral Vector to Reveal the Role of MicroRNA159 in Disease Symptom Induction by a Severe Strain of <i>Cucumber mosaic virus</i>. Plant Physiology, 2014, 164, 1378-1388.	4.8	78
45	Focus on Translational Research. Molecular Plant-Microbe Interactions, 2014, 27, 195-195.	2.6	0
46	Selfâ€interaction of the cucumber mosaic virus 2b protein plays a vital role in the suppression of <scp>RNA</scp> silencing and the induction of viral symptoms. Molecular Plant Pathology, 2013, 14, 803-812.	4.2	28
47	The Rumsfeld paradox: some of the things we know that we donâ€™t know about plant virus infection. Current Opinion in Plant Biology, 2013, 16, 513-519.	7.1	33
48	An essential fifth coding ORF in the sobemoviruses. Virology, 2013, 446, 397-408.	2.4	53
49	A viral <scp>RNA</scp> silencing suppressor interferes with abscisic acidâ€mediated signalling and induces drought tolerance in <i><scp>A</scp>rabidopsis thaliana</i>. Molecular Plant Pathology, 2013, 14, 158-170.	4.2	108
50	A Trio of Viral Proteins Tunes Aphid-Plant Interactions in Arabidopsis thaliana. PLoS ONE, 2013, 8, e83066.	2.5	70
51	Regulation of RNA-Dependent RNA Polymerase 1 and Isochorismate Synthase Gene Expression in Arabidopsis. PLoS ONE, 2013, 8, e66530.	2.5	85
52	RNA binding is more critical to the suppression of silencing function of <i>Cucumber mosaic virus</i> 2b protein than nuclear localization. Rna, 2012, 18, 771-782.	3.5	72
53	Cucumber mosaic virus and its 2b RNA silencing suppressor modify plant-aphid interactions in tobacco. Scientific Reports, 2011, 1, 187.	3.3	124
54	An Antiviral Defense Role of AGO2 in Plants. PLoS ONE, 2011, 6, e14639.	2.5	321

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55	Genetic modification of alternative respiration in Nicotiana benthamianaaffects basal and salicylic acid-induced resistance to potato virus X. BMC Plant Biology, 2011, 11, 41.	3.6	73
56	FOCUS on Cell Biology of Plant-Virus Interactions. Molecular Plant-Microbe Interactions, 2010, 23, 1367-1367.	2.6	0
57	Disruption of Two Defensive Signaling Pathways by a Viral RNA Silencing Suppressor. Molecular Plant-Microbe Interactions, 2010, 23, 835-845.	2.6	169
58	The effects of extracellular adenosine 5â€²-triphosphate on the tobacco proteome. Proteomics, 2010, 10, 235-244.	2.2	34
59	Symptom induction and RNA silencing suppression by the cucumber mosaic virus 2b protein. Plant Signaling and Behavior, 2010, 5, 705-708.	2.4	25
60	Preface. Advances in Virus Research, 2010, 76, vii.	2.1	4
61	Signaling in Induced Resistance. Advances in Virus Research, 2010, 76, 57-121.	2.1	144
62	Cross-Protection. Advances in Virus Research, 2010, 76, 211-264.	2.1	125
63	Cucumber Mosaic Virus 2b Protein Subcellular Targets and Interactions: Their Significance to RNA Silencing Suppressor Activity. Molecular Plant-Microbe Interactions, 2010, 23, 294-303.	2.6	165
64	Effects of dicer-like endoribonucleases 2 and 4 on infection of Arabidopsis thaliana by cucumber mosaic virus and a mutant virus lacking the 2b counter-defence protein gene. Journal of General Virology, 2009, 90, 2288-2292.	2.9	48
65	Extracellular ATP. Plant Signaling and Behavior, 2009, 4, 1078-1080.	2.4	9
66	Preface. Advances in Virus Research, 2009, 75, ix-x.	2.1	0
67	Effects of DICER-like proteins 2, 3 and 4 on cucumber mosaic virus and tobacco mosaic virus infections in salicylic acid-treated plants. Journal of General Virology, 2009, 90, 3010-3014.	2.9	44
68	Extracellular ATP is a regulator of pathogen defence in plants. Plant Journal, 2009, 60, 436-448.	5.7	116
69	The Role of the <i>Cucumber mosaic virus</i> 2b Protein in Viral Movement and Symptom Induction. Molecular Plant-Microbe Interactions, 2009, 22, 642-654.	2.6	103
70	A role for inositol hexakisphosphate in the maintenance of basal resistance to plant pathogens. Plant Journal, 2008, 56, 638-652.	5.7	140
71	Allopurinol, an inhibitor of purine catabolism, enhances susceptibility of tobacco to Tobacco mosaic virus. Virus Research, 2008, 137, 257-260.	2.2	9
72	Plantâ€"Virus Interactions. Methods in Molecular Biology, 2008, 451, 3-19.	0.9	6

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73	A defect in carbohydrate metabolism ameliorates symptom severity in virus-infected Arabidopsis thaliana. Journal of General Virology, 2007, 88, 337-341.	2.9	31
74	A cucumber mosaic virus mutant lacking the 2b counter-defence protein gene provides protection against wild-type strains. Journal of General Virology, 2007, 88, 2862-2871.	2.9	61
75	Selective targeting of miRNA-regulated plant development by a viral counter-silencing protein. Plant Journal, 2007, 50, 240-252.	5.7	114
76	Mechanisms Involved in Induced Resistance to Plant Viruses. , 2006, , 335-359.		3
77	Quantitativein situassay of salicylic acid in tobacco leaves using a genetically modified biosensor strain ofAcinetobactersp. ADP1. Plant Journal, 2006, 46, 1073-1083.	5.7	115
78	Plant Metabolism Associated with Resistance and Susceptibility. , 2006, , 315-340.		7
79	Induced Resistance Mechanisms. , 2006, , 125-145.		3
80	Salicylic Acid-Induced Resistance to Cucumber mosaic virus in Squash and Arabidopsis thaliana: Contrasting Mechanisms of Induction and Antiviral Action. Molecular Plant-Microbe Interactions, 2005, 18, 428-434.	2.6	101
81	Novel Quorum-Sensing-Controlled Genes in Erwinia carotovora subsp. carotovora: Identification of a Fungal Elicitor Homologue in a Soft-Rotting Bacterium. Molecular Plant-Microbe Interactions, 2005, 18, 343-353.	2.6	81
82	High-level expression of alternative oxidase protein sequences enhances the spread of viral vectors in resistant and susceptible plants. Journal of General Virology, 2004, 85, 3777-3786.	2.9	39
83	Activation of multiple antiviral defence mechanisms by salicylic acid. Molecular Plant Pathology, 2004, 5, 57-63.	4.2	125
84	Genetic Modification of Alternative Respiration Has Differential Effects on Antimycin A-Induced versus Salicylic Acid-Induced Resistance to Tobacco mosaic virus. Plant Physiology, 2003, 132, 1518-1528.	4.8	99
85	Salicylic Acid Has Cell-Specific Effects on <i>Tobacco mosaic virus</i> Replication and Cell-to-Cell Movement. Plant Physiology, 2002, 128, 552-563.	4.8	119
86	Chemically Induced Virus Resistance in Arabidopsis thaliana Is Independent of Pathogenesis-Related Protein Expression and the NPR1 Gene. Molecular Plant-Microbe Interactions, 2002, 15, 75-81.	2.6	83
87	Virulence and Differential Local and Systemic Spread of Cucumber mosaic virus in Tobacco are Affected by the CMV 2b Protein. Molecular Plant-Microbe Interactions, 2002, 15, 647-653.	2.6	126
88	Cadmium blocks viral invasion in plants. Nature Cell Biology, 2002, 4, E167-E168.	10.3	4
89	Signal Transduction in Resistance to Plant Viruses. European Journal of Plant Pathology, 2001, 107, 121-128.	1.7	47
90	Salicylic acid has a role in regulating gene expression during leaf senescence. Plant Journal, 2000, 23, 677-685.	5.7	484

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91	Characteristics of salicylic acid-induced delay in disease caused by a necrotrophic fungal pathogen in tobacco. Physiological and Molecular Plant Pathology, 2000, 57, 47-54.	2.5	61
92	Subcellular distribution analysis of the cucumber mosaic virus 2b protein. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.8	50
93	The GCD10 subunit of yeast eIF-3 binds the methyltransferase-like domain of the 126 and 183ÂkDa replicase proteins of tobacco mosaic virus in the yeast two-hybrid system. Journal of General Virology, 2000, 81, 1587-1591.	2.9	30
94	Salicylic acid-induced resistance to viruses and other pathogens: a parting of the ways?. Trends in Plant Science, 1999, 4, 155-160.	8.8	145
95	Changes in gene expression during development and thermogenesis in Arum. Functional Plant Biology, 1999, 26, 391.	2.1	14
96	Ultraviolet-B-induced responses in Arabidopsis thaliana: role of salicylic acid and reactive oxygen species in the regulation of transcripts encoding photosynthetic and acidic pathogenesis-related proteins. Plant, Cell and Environment, 1998, 21, 685-694.	5.7	190
97	Cyanide Restores N Geneâ€"Mediated Resistance to Tobacco Mosaic Virus in Transgenic Tobacco Expressing Salicylic Acid Hydroxylase. Plant Cell, 1998, 10, 1489-1498.	6.6	148
98	Cyanide Restores N Gene-Mediated Resistance to Tobacco Mosaic Virus in Transgenic Tobacco Expressing Salicylic Acid Hydroxylase. Plant Cell, 1998, 10, 1489.	6.6	85
99	Salicylic Acid Can Induce Resistance to Plant Virus Movement. Molecular Plant-Microbe Interactions, 1998, 11, 860-868.	2.6	136
100	Salicylic Acid Interferes with Tobacco Mosaic Virus Replication via a Novel Salicylhydroxamic Acid-Sensitive Mechanism.. Plant Cell, 1997, 9, 547-557.	6.6	179
101	Salicylic Acid Interferes with Tobacco Mosaic Virus Replication via a Novel Salicylhydroxamic Acid-Sensitive Mechanism. Plant Cell, 1997, 9, 547.	6.6	83
102	Replicase-Mediated Resistance to Cucumber Mosaic Virus in Transgenic Plants Involves Suppression of Both Virus Replication in the Inoculated Leaves and Long-Distance Movement. Virology, 1994, 199, 439-447.	2.4	72
103	Replicase-mediated resistance. Seminars in Virology, 1993, 4, 339-347.	3.9	37
104	Carbon Sink-to-Source Transition Is Coordinated with Establishment of Cell-Specific Gene Expression in a C4 Plant. Plant Cell, 1993, 5, 289.	6.6	10
105	Resistance to Tobacco Mosaic Virus Induced by the 54-kDa Gene Sequence Requires Expression of the 54-kDa Protein. Molecular Plant-Microbe Interactions, 1992, 5, 397.	2.6	59
106	Resistance in Transgenic Tobacco Plants Expressing a Nonstructural Gene Sequence of Tobacco Mosaic Virus Is a Consequence of Markedly Reduced Virus Replication. Molecular Plant-Microbe Interactions, 1991, 4, 579.	2.6	38
107	Salicylic Acid: A Likely Endogenous Signal in the Resistance Response of Tobacco to Viral Infection. Science, 1990, 250, 1002-1004.	12.6	1,245
108	Are the PR1 proteins of tobacco involved in genetically engineered resistance to TMV?. Virology, 1989, 169, 470-473.	2.4	22

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109	Disease response to tobacco mosaic virus in transgenic tobacco plants that constitutively express the pathogenesis-related PR1b gene. Virology, 1989, 173, 89-97.	2.4	125
110	The Pathogenesis-Related Proteins of Plants. , 1989, , 65-109.		37
111	Isolation and nuleotide sequence of cDNA clones for the pathogenesis-related proteins PR1a, PR1b and PRlc ofNicotiana tabacumcv. Xanthi nc induced by TMV infection. Nucleic Acids Research, 1988, 16, 9861-9861.	14.5	56
112	mRNAs encoding ribulose-1,5-bisphosphate carboxylase remain bound to polysomes but are not translated in amaranth seedlings transferred to darkness. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 4190-4194.	7.1	122
113	Synthesis of pathogenesis-related proteins in tobacco is regulated at the level of mRNA accumulation and occurs on membrane-bound polysomes. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 7999-8003.	7.1	34
114	An Examination of the Effect of Human Î±-Interferons on the Infection and Multiplication of Tobacco Mosaic Virus in Tobacco. Journal of Phytopathology, 1984, 109, 367-371.	1.0	7
115	The Effects of Aspirin and Polyacrylic Acid on the Multiplication and Spread of TMV in Different Cultivars of Tobacco with and without the Nâ€gene. Journal of Phytopathology, 1983, 107, 224-232.	1.0	52
116	Plantâ€"Virus Interactions: Defence and Counter-Defence. , 0, , 134-176.		6
117	Plant??????Virus Interactions: Defence and Counter-Defence. , 0, , 134-176.		2