Neil Boonham

List of Publications by Year
in descending order

		109137	128067
114	4,452	35	60
papers	citations	h-index	g-index

118	118	118	4594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nextâ€generation sequencing and metagenomic analysis: a universal diagnostic tool in plant virology. Molecular Plant Pathology, 2009, 10, 537-545.	2.0	335
2	Methods in virus diagnostics: From ELISA to next generation sequencing. Virus Research, 2014, 186, 20-31.	1.1	326
3	Phytoplasma phylogenetics based on analysis of secA and 23S rRNA gene sequences for improved resolution of candidate species of 'Candidatus Phytoplasma'. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1826-1837.	0.8	184
4	Next Generation Sequencing for Detection and Discovery of Plant Viruses and Viroids: Comparison of Two Approaches. Frontiers in Microbiology, 2017, 8, 1998.	1.5	165
5	Needle in a haystack? A comparison of <scp>eDNA</scp> metabarcoding and targeted <scp>qPCR</scp> for detection of the great crested newt (<i>Triturus cristatus</i>). Ecology and Evolution, 2018, 8, 6330-6341.	0.8	157
6	Prospects and challenges of environmental DNA (eDNA) monitoring in freshwater ponds. Hydrobiologia, 2019, 826, 25-41.	1.0	151
7	Advances in molecular phytodiagnostics â€“ new solutions for old problems. European Journal of Plant Pathology, 2006, 116, 1-19.	0.8	133
8	Application of HTS for Routine Plant Virus Diagnostics: State of the Art and Challenges. Frontiers in Plant Science, 2018, 9, 1082.	1.7	110
9	Use of nextâ€generation sequencing for the identification and characterization of <i><scp>M</scp>aize chlorotic mottle virus</i> and <i><scp>S</scp>ugarcane mosaic virus</i> causing maize lethal necrosis in <scp>K</scp>enya. Plant Pathology, 2013, 62, 741-749.	1.2	109
10	Detection of African swine fever virus by loop-mediated isothermal amplification. Journal of Virological Methods, 2010, 164, 68-74.	1.0	108
11	Development of real-time PCR (TaqManÂ®) assays for the detection and quantification of Botrytis cinerea in planta. Plant Physiology and Biochemistry, 2005, 43, 890-899.	2.8	106
12	Microarrays for Rapid Identification of Plant Viruses. Annual Review of Phytopathology, 2007, 45, 307-328.	3.5	104
13	Exploiting generic platform technologies for the detection and identification of plant pathogens. European Journal of Plant Pathology, 2008, 121, 355-363.	0.8	94
14	Development of a One-Step Real-Time Polymerase Chain Reaction Assay for Diagnosis of Phytophthora ramorum. Phytopathology, 2006, 96, 975-981.	1.1	83
15	<scp>LAMP</scp> assay and rapid sample preparation method for onâ€site detection of flavescence dorÃ©e phytoplasma in grapevine. Plant Pathology, 2015, 64, 286-296.	1.2	76
16	Carrot yellow leaf virus Is Associated with Carrot Internal Necrosis. PLoS ONE, 2014, 9, e109125.	1.1	75
17	Erwinia amylovora loop-mediated isothermal amplification (LAMP) assay for rapid pathogen detection and on-site diagnosis of fire blight. Journal of Microbiological Methods, 2013, 92, 332-339.	0.7	71
18	The detection of tuber necrotic isolates of Potato virus Y, and the accurate discrimination of PVYO, PVYN and PVYC strains using RT-PCR. Journal of Virological Methods, 2002, 102, 103-112.	1.0	70

#	Article	IF	Citations
19	Panel of 23S rRNA Gene-Based Real-Time PCR Assays for Improved Universal and Group-Specific Detection of Phytoplasmas. Applied and Environmental Microbiology, 2009, 75, 2945-2950.	1.4	67
20	High throughput realâ€time RTâ€PCR assays for specific detection of cassava brown streak disease causal viruses, and their application to testing of planting material. Plant Pathology, 2013, 62, 233-242.	1.2	61
21	Interactions between a luteovirus and the GroEL chaperonin protein of the symbiotic bacterium Buchnera aphidicola of aphids. Journal of General Virology, 2011, 92, 1467-1474.	1.3	59
22	Application of High-Throughput DNA Sequencing in Phytopathology. Annual Review of Phytopathology, 2011, 49, 87-105.	3.5	57
23	From laboratory to point of entry: development and implementation of a loopâ€mediated isothermal amplification (LAMP)â€based genetic identification system to prevent introduction of quarantine insect species. Pest Management Science, 2018, 74, 1504-1512.	1.7	55
24	Satellite DNA as a target for TaqMan realâ€time PCR detection of the pinewood nematode, <i>Bursaphelenchus xylophilus</i>. Molecular Plant Pathology, 2007, 8, 803-809.	2.0	54
25	A new quantitative real-time PCR assay for Rhizoctonia solani AG3-PT and the detection of AGs of Rhizoctonia solani associated with potato in soil and tuber samples in Great Britain. European Journal of Plant Pathology, 2013, 136, 273-280.	0.8	53
26	Microsporidia infection impacts the host cell's cycle and reduces host cell apoptosis. PLoS ONE, 2017, 12, e0170183.	1.1	52
27	The role and challenges of new diagnostic technology in plant biosecurity. Food Security, 2016, 8, 103-109.	2.4	50
28	A review of pest surveillance techniques for detecting quarantine pests in <scp>E</scp>urope. EPPO Bulletin, 2012, 42, 515-551.	0.6	46
29	Loop-mediated isothermal amplification for rapid detection of the causal agents of cassava brown streak disease. Journal of Virological Methods, 2013, 191, 148-154.	1.0	45
30	The impact of high throughput sequencing on plant health diagnostics. European Journal of Plant Pathology, 2018, 152, 909-919.	0.8	45
31	Molecular Quantification of Symbiotic Dinoflagellate Algae of the Genus <i>Symbiodinium</i>. Biological Bulletin, 2007, 212, 259-268.	0.7	42
32	The complete genome sequence of Piper yellow mottle virus (PYMoV). Archives of Virology, 2014, 159, 385-388.	0.9	40
33	Use of Loop-Mediated Isothermal Amplification for Detection of Ophiostoma clavatum, the Primary Blue Stain Fungus Associated with Ips acuminatus. Applied and Environmental Microbiology, 2013, 79, 2527-2533.	1.4	39
34	First record of the Q Biotype of the sweetpotato whitefly, Bemisia tabaci, intercepted in the UK. European Journal of Plant Pathology, 2012, 133, 797-801.	0.8	38
35	Genomicsâ€informed design of loopâ€mediated isothermal amplification for detection of phytopathogenic <i>Xanthomonas arboricola</i> pv.Â<i>pruni</i> at the intraspecific level. Plant Pathology, 2013, 62, 475-484.	1.2	38
36	Target-Site and Non-target-Site Resistance Mechanisms Confer Multiple and Cross- Resistance to ALS and ACCase Inhibiting Herbicides in Lolium rigidum From Spain. Frontiers in Plant Science, 2021, 12, 625138.	1.7	38

#	Article	IF	Citations
37	The reliable detection of Barley yellow and mild mosaic viruses using real-time PCR (TaqManÂ®). Journal of Virological Methods, 2004, 117, 153-159.	1.0	36
38	First detection of Kashmir bee virus in the UK using real-time PCR. Apidologie, 2007, 38, 181-190.	0.9	36
39	Coâ€infection with <i>Cucumber vein yellowing virus</i> and <i>Cucurbit yellow stunting disorder virus</i> leading to synergism in cucumber. Plant Pathology, 2012, 61, 468-478.	1.2	36
40	A Primer on the Analysis of High-Throughput Sequencing Data for Detection of Plant Viruses. Microorganisms, 2021, 9, 841.	1.6	36
41	Host Range Studies for Tomato chlorosis virus, and Cucumber vein yellowing virus Transmitted by Bemisia Âtabaci (Gennadius). European Journal of Plant Pathology, 2006, 114, 265-273.	0.8	35
42	The Biology and Phylogenetics of <i>Potato virus S</i> Isolates from the Andean Region of South America. Plant Disease, 2018, 102, 869-885.	0.7	35
43	DNA barcoding for biosecurity: case studies from the UK plant protection program. Genome, 2016, 59, 1033-1048.	0.9	31
44	A DNA method for screening hive debris for the presence of small hive beetle (Aethinatumida). Apidologie, 2007, 38, 272-280.	0.9	30
45	Rapid, specific, simple, in-field detection of <i>Xanthomonas campestris</i> pathovar <i>musacearum</i> by loop-mediated isothermal amplification. Journal of Applied Microbiology, 2015, 119, 1651-1658.	1.4	29
46	Identifying bacterial predictors of honey bee health. Journal of Invertebrate Pathology, 2016, 141, 41-44.	1.5	29
47	A loop-mediated isothermal amplification-based method for confirmation of Guignardia citricarpa in citrus black spot lesions. European Journal of Plant Pathology, 2013, 136, 217-224.	0.8	26
48	Transcriptome sequencing identifies novel persistent viruses in herbicide resistant wild-grasses. Scientific Reports, 2017, 7, 41987.	1.6	26
49	Development of Loop-Mediated Isothermal Amplification Assays for the Detection of Seedborne Fungal Pathogens <i>Fusarium fujikuroi</i> and <i>Magnaporthe oryzae</i> in Rice Seed. Plant Disease, 2018, 102, 1549-1558.	0.7	26
50	Potato Virus A Isolates from Three Continents: Their Biological Properties, Phylogenetics, and Prehistory. Phytopathology, 2021, 111, 217-226.	1.1	24
51	Yellowing Disease in Zucchini Squash Produced by Mixed Infections of <i>Cucurbit yellow stunting disorder virus</i> and <i>Cucumber vein yellowing virus</i>. Phytopathology, 2011, 101, 1365-1372.	1.1	23
52	Rapid detection of <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> on soil, lettuce seeds and plants using loopâ€mediated isothermal amplification. Plant Pathology, 2018, 67, 1462-1473.	1.2	23
53	Potato Virus Y from Petunia can cause Symptoms of Potato Tuber Necrotic Ringspot Disease (PTNRD). European Journal of Plant Pathology, 1999, 105, 617-621.	0.8	21
54	A new large scale soil DNA extraction procedure and real-time PCR assay for the detection of Sclerotium cepivorum in soil. European Journal of Plant Pathology, 2012, 134, 467-473.	0.8	21

#	Article	IF	Citations
55	Development of a lateral flow device for inâ€field detection and evaluation of <scp>PCR</scp>â€based diagnostic methods for <i>Xanthomonas campestris</i> pv. <i>musacearum</i>, the causal agent of banana xanthomonas wilt. Plant Pathology, 2015, 64, 559-567.	1.2	21
56	Plant pest surveillance: from satellites to molecules. Emerging Topics in Life Sciences, 2021, 5, 275-287.	1.1	21
57	Resistance screening against Cucumber vein yellowing virus using a real-time (TaqmanÂ®) RT-PCR assay in cucumber (Cucumis sativus). Crop Protection, 2009, 28, 109-112.	1.0	20
58	Molecular and biological characterization of <i>Potato mopâ€top virus</i> (<scp>PMTV</scp>,<i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1210-1220.	1.2	19
59	Rapid Detection of <i>Monilinia fructicola</i> and <i>Monilinia laxa</i> on Peach and Nectarine using Loop-Mediated Isothermal Amplification. Plant Disease, 2019, 103, 2305-2314.	0.7	19
60	Facing <i>Rose rosette virus</i>: A risk to European rose cultivation. Plant Pathology, 2020, 69, 1603-1617.	1.2	19
61	Historical virus isolate collections: An invaluable resource connecting plant virologyâ€™s preâ€sequencing and postâ€sequencing eras. Plant Pathology, 2021, 70, 235-248.	1.2	19
62	Detection and transmission of Carrot torrado virus, a novel putative member of the Torradovirus genus. Journal of Virological Methods, 2016, 235, 119-124.	1.0	18
63	A pathogenicity determinant maps to the <scp>N</scp>â€terminal coat protein region of the <i><scp>P</scp>epino mosaic virus</i> genome. Molecular Plant Pathology, 2015, 16, 308-315.	2.0	17
64	Fourier transform infra-red spectroscopy using an attenuated total reflection probe to distinguish between Japanese larch, pine and citrus plants in healthy and diseased states. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 163, 181-188.	2.0	17
65	Exploiting generic platform technologies for the detection and identification of plant pathogens. , 2008, , 355-363.		17
66	Towards specific diagnosis of plant-parasitic nematodes using DNA oligonucleotide microarray technology: A case study with the quarantine species Meloidogyne chitwoodi. Molecular and Cellular Probes, 2006, 20, 64-69.	0.9	16
67	Molecular and biological characterisation of two novel pomo-like viruses associated with potato (Solanum tuberosum) fields in Colombia. Archives of Virology, 2016, 161, 1601-1610.	0.9	16
68	Direct Detection of Plant Viruses in Potato Tubers using Real-time PCR. Methods in Molecular Biology, 2009, 508, 249-258.	0.4	16
69	Complete genome sequence of arracacha virus B: a novel cheravirus. Archives of Virology, 2013, 158, 909-913.	0.9	15
70	The complete genome sequences of two isolates of potato black ringspot virus and their relationship to other isolates and nepoviruses. Archives of Virology, 2014, 159, 811-815.	0.9	15
71	Development and Validation of Methodology for Estimating Potato Canopy Structure for Field Crop Phenotyping and Improved Breeding. Frontiers in Plant Science, 2021, 12, 612843.	1.7	14
72	The Effects of Plant Virus Infection on Polarization Reflection from Leaves. PLoS ONE, 2016, 11, e0152836.	1.1	14

#	Article	IF	Citations
73	Systematic Comparison of Nanopore and Illumina Sequencing for the Detection of Plant Viruses and Viroids Using Total RNA Sequencing Approach. Frontiers in Microbiology, 2022, 13, .	1.5	14
74	Generating and testing ecological hypotheses at the pondscape with environmental DNA metabarcoding: A case study on a threatened amphibian. Environmental DNA, 2020, 2, 184-199.	3.1	13
75	Development of a real-time PCR assay for detection of Phytophthora kernoviae and comparison of this method with a conventional culturing technique. European Journal of Plant Pathology, 2011, 131, 695-703.	0.8	12
76	Evaluation and validation of a loop-mediated isothermal amplification test kit for detection of Hymenoscyphus fraxineus. European Journal of Plant Pathology, 2017, 149, 253-259.	0.8	12
77	First Report of <i>Carrot torradovirus 1</i> (CaTV1), a Member of the <i>Torradovirus</i> Genus, Infecting Carrots in France. Plant Disease, 2017, 101, 1333-1333.	0.7	12
78	Biological and Molecular Properties of <i>Wild potato mosaic virus</i> Isolates from Pepino (<i>Solanum muricatum</i>). Plant Disease, 2019, 103, 1746-1756.	0.7	12
79	Monitoring and Surveillance of Aerial Mycobiota of Rice Paddy through DNA Metabarcoding and qPCR. Journal of Fungi (Basel, Switzerland), 2020, 6, 372.	1.5	12
80	The Phylogeography of Potato Virus X Shows the Fingerprints of Its Human Vector. Viruses, 2021, 13, 644.	1.5	12
81	Influence of the length of target DNA overhang proximal to the array surface on discrimination of single-base mismatches on a 25-mer oligonucleotide array. BMC Research Notes, 2014, 7, 251.	0.6	11
82	Detection of honey bee (Apis mellifera) viruses with an oligonucleotide microarray. Journal of Invertebrate Pathology, 2011, 107, 216-219.	1.5	10
83	High-Throughput Sequencing Facilitates Characterization of a â€œForgottenâ€• Plant Virus: The Case of a Henbane Mosaic Virus Infecting Tomato. Frontiers in Microbiology, 2018, 9, 2739.	1.5	9
84	The effect of postâ€harvest storage conditions on the development of black dot (<i>Colletotrichum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	8
85	Evidence for different, hostâ€dependent functioning of <i>Rx</i> against both wildâ€type and recombinant <i>Pepino mosaic virus</i>. Molecular Plant Pathology, 2016, 17, 120-126.	2.0	8
86	A TaqMan real-time PCR assay for Rhizoctonia cerealis and its use in wheat and soil. European Journal of Plant Pathology, 2017, 148, 237-245.	0.8	8
87	First Complete Genome Sequence of <i>Arracacha virus A</i> Isolated from a 38-Year-Old Sample from Peru. Genome Announcements, 2017, 5, .	0.8	8
88	Rapid molecular methods for inâ€field and laboratory identification of the yellowâ€legged Asian hornet (<i>Vespa velutina nigrithorax</i>). Journal of Applied Entomology, 2018, 142, 610-616.	0.8	8
89	Dispersal of harmful fruit fly pests by international trade and a loop-mediated isothermal amplification assay to prevent their introduction. Geospatial Health, 2018, 13, .	0.3	8
90	The characterization of a subgenomic RNA and in vitro translation products of oat chlorotic stunt virus. Virus Genes, 1998, 16, 141-145.	0.7	7

#	Article	IF	Citations
91	High throughput sequencing and RT-qPCR assay reveal the presence of rose cryptic virus-1 in the United Kingdom. Journal of Plant Pathology, 2019, 101, 1171-1175.	0.6	7
92	A pond-side test for Guinea worm: Development of a loop-mediated isothermal amplification (LAMP) assay for detection of Dracunculus medinensis. Experimental Parasitology, 2020, 217, 107960.	0.5	6
93	Using network ecology to understand and mitigate longâ€term insect declines. Ecological Entomology, 2021, 46, 693-698.	1.1	6
94	Morphological and molecular evidence supporting the validity of Trialeurodes lauri and T. ricini (Hemiptera: Sternorrhyncha: Aleyrodidae). European Journal of Entomology, 2007, 104, 295-301.	1.2	6
95	A novel high-throughput sequencing approach reveals the presence of a new virus infecting Rosa: rosa ilarvirus-1 (RIV-1). Journal of Virological Methods, 2022, 300, 114417.	1.0	6
96	The Development of Monoclonal Antibodies to the secA Protein of Cape St. Paul Wilt Disease Phytoplasma and Their Evaluation as a Diagnostic Tool. Molecular Biotechnology, 2014, 56, 803-813.	1.3	5
97	Complete sequence and genomic annotation of carrot torradovirus 1. Archives of Virology, 2017, 162, 2815-2819.	0.9	5
98	Complete Genomic Sequence of the Potyvirus <i>Mashua Virus Y</i> , Obtained from a 33-Year-Old Mashua (<i>Tropaeaolum tuberosum</i>) Sample. Microbiology Resource Announcements, 2018, 7, .	0.3	5
99	A Loop-mediated Isothermal Amplification (LAMP) Assay for Rapid Identification of Bemisia tabaci. Journal of Visualized Experiments, 2018, , .	0.2	5
100	Real-Time LAMP for Chalara fraxinea Diagnosis. Methods in Molecular Biology, 2015, 1302, 75-83.	0.4	5
101	Genome sequence of vanilla distortion mosaic virus infecting Coriandrum sativum. Archives of Virology, 2014, 159, 3463-3465.	0.9	4
102	A 33-Year-Old Plant Sample Contributes the First Complete Genomic Sequence of <i>Potato Virus U</i>. Microbiology Resource Announcements, 2018, 7, .	0.3	4
103	Full-Genome Sequencing of a Virus from a 33-Year-Old Sample Demonstrates that <i>Arracacha Mottle Virus</i> Is Synonymous with <i>Arracacha Virus Y</i>. Microbiology Resource Announcements, 2018, 7, .	0.3	4
104	Complete Genome Sequence of Potato Virus T from Bolivia, Obtained from a 33-Year-Old Sample. Microbiology Resource Announcements, 2018, 7, .	0.3	4
105	Expression Microarrays in Plant-Virus Interaction. Methods in Molecular Biology, 2008, 451, 583-613.	0.4	3
106	The plant viruses and viroids database and collections of Q-bank. EPPO Bulletin, 2013, 43, 238-243.	0.6	3
107	Microarray Platform for the Detection of a Range of Plant Viruses and Viroids. Methods in Molecular Biology, 2015, 1302, 273-282.	0.4	3
108	Investigating the viral causes of internal necrosis in carrot. Acta Horticulturae, 2017, , 245-250.	0.1	2

#	Article	IF	Citations
109	Genomic sequence and host range studies reveal considerable variation within the species Arracacha virus B. Archives of Virology, 2019, 164, 2849-2852.	0.9	2
110	On-Site Testing: Moving Decision Making from the Lab to the Field. , 2014, , 135-146.		2
111	Complete Coding Sequence of <i>Andean Potato Mottle Virus</i> from a 40-Year-Old Sample from Peru. Microbiology Resource Announcements, 2019, 8, .	0.3	1
112	The effects of surface structure mutations in Arabidopsis thaliana on the polarization of reflections from virus-infected leaves. PLoS ONE, 2017, 12, e0174014.	1.1	1
113	Avenavirus. , 2011, , 1881-1884.		1
114	Development of simplex and multiplex RT-qPCR assays for the detection of three cryptic viruses of black-grass (Alopecurus myosuroides). Journal of Virological Methods, 2022, 300, 114389.	1.0	1