Lesley Torrance

List of Publications by Year
in descending order

86 papers	3,667 citations	109264 35 h-index	143943 57 g-index
89 all docs	89 docs citations	89 times ranked	3154 citing authors

#	Article	IF	Citations
1	Allelic variants of a potato <i>HEAT SHOCK COGNATE 70</i> gene confer improved tuber yield under a wide range of environmental conditions. Food and Energy Security, 2023, 12, .	2.0	5
2	Phloem connectivity and transport are not involved in mature plant resistance (MPR) to Potato Virus Y in different potato cultivars, and MPR does not protect tubers from recombinant strains of the virus. Journal of Plant Physiology, 2022, 275, 153729.	1.6	7
3	Foresight and trade-off analyses: Tools for science strategy development in agriculture and food systems research. Q Open, 2021, 1, .	0.7	8
4	RNA sequence analysis of diseased groundnut (Arachis hypogaea) reveals the full genome of groundnut rosette assistor virus (GRAV). Virus Research, 2020, 277, 197837.	1.1	3
5	Potato Virus Y Emergence and Evolution from the Andes of South America to Become a Major Destructive Pathogen of Potato and Other Solanaceous Crops Worldwide. Viruses, 2020, 12, 1430.	1.5	28
6	TERMINAL FLOWERâ€1/CENTRORADIALIS inhibits tuberisation via protein interaction with the tuberigen activation complex. Plant Journal, 2020, 103, 2263-2278.	2.8	24
7	Natural resistance to Potato virus Y in Solanum tuberosum Group Phureja. Theoretical and Applied Genetics, 2020, 133, 967-980.	1.8	42
8	Kodoja: A workflow for virus detection in plants using k-mer analysis of RNA-sequencing data. Journal of General Virology, 2019, 100, 533-542.	1.3	9
9	Potato Mop-Top Virus Co-Opts the Stress Sensor HIPP26 for Long-Distance Movement. Plant Physiology, 2018, 176, 2052-2070.	2.3	49
10	Engineering heat tolerance in potato by temperatureâ€dependent expression of a specific allele of <i>HEATâ€SHOCK COGNATE 70</i>. Plant Biotechnology Journal, 2018, 16, 197-207.	4.1	62
11	Viral Diagnostics in Plants Using Next Generation Sequencing: Computational Analysis in Practice. Frontiers in Plant Science, 2017, 8, 1770.	1.7	83
12	Seed degeneration in potato: the need for an integrated seed health strategy to mitigate the problem in developing countries. Plant Pathology, 2016, 65, 3-16.	1.2	144
13	Importin-Î±-Mediated Nucleolar Localization of Potato Mop-Top Virus TRIPLE GENE BLOCK1 (TGB1) Protein Facilitates Virus Systemic Movement, Whereas TGB1 Self-Interaction Is Required for Cell-to-Cell Movement in <i>Nicotiana benthamiana</i>. Plant Physiology, 2015, 167, 738-752.	2.3	35
14	Distinct Circular Single-Stranded DNA Viruses Exist in Different Soil Types. Applied and Environmental Microbiology, 2015, 81, 3934-3945.	1.4	54
15	Femtosecond optical injection of intact plant cells using a reconfigurable platform. , 2014, , .		1
16	Occurrence and Distribution of Potato Pests and Diseases in Kenya. Potato Research, 2013, 56, 325-342.	1.2	38
17	Status and Prospects of Plant Virus Control Through Interference with Vector Transmission. Annual Review of Phytopathology, 2013, 51, 177-201.	3.5	173
18	Deciphering the Mechanism of Defective Interfering RNA (DI RNA) Biogenesis Reveals That a Viral Protein and the DI RNA Act Antagonistically in Virus Infection. Journal of Virology, 2013, 87, 6091-6103.	1.5	27

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19	Femtosecond Optoinjection of Intact Tobacco BY-2 Cells Using a Reconfigurable Photoporation Platform. PLoS ONE, 2013, 8, e79235.	1.1	11
20	Climate Change and Defense against Pathogens in Plants. Advances in Applied Microbiology, 2012, 81, 89-132.	1.3	17
21	The potato mop-top virus TGB2 protein and viral RNA associate with chloroplasts and viral infection induces inclusions in the plastids. Frontiers in Plant Science, 2012, 3, 290.	1.7	25
22	Crops that feed the world 8: Potato: are the trends of increased global production sustainable?. Food Security, 2012, 4, 477-508.	2.4	295
23	In vivo expression and binding activity of scFv-RWAV, which recognizes the coat protein of tomato leaf curl New Delhi virus (family Geminiviridae). Archives of Virology, 2012, 157, 1291-1299.	0.9	3
24	Novel Bacteriophages Containing a Genome of Another Bacteriophage within Their Genomes. PLoS ONE, 2012, 7, e40683.	1.1	46
25	Unusual Features of Pomoviral RNA Movement. Frontiers in Microbiology, 2011, 2, 259.	1.5	27
26	Plasmodesmata viewed as specialised membrane adhesion sites. Protoplasma, 2011, 248, 39-60.	1.0	95
27	The N-Terminal Domain of PMTV TGB1 Movement Protein Is Required for Nucleolar Localization, Microtubule Association, and Long-Distance Movement. Molecular Plant-Microbe Interactions, 2010, 23, 1486-1497.	1.4	47
28	Generation and characterization of a scFv against recombinant coat protein of the geminivirus tomato leaf curl New Delhi virus. Archives of Virology, 2010, 155, 335-342.	0.9	6
29	Phytaspase, a relocalisable cell death promoting plant protease with caspase specificity. EMBO Journal, 2010, 29, 1149-1161.	3.5	159
30	Varied Movement Strategies Employed by Triple Gene Blockâ€“Encoding Viruses. Molecular Plant-Microbe Interactions, 2010, 23, 1231-1247.	1.4	160
31	A fully recombinant ELISA using in vivo biotinylated antibody fragments for the detection of potato leafroll virus. Journal of Virological Methods, 2009, 159, 200-205.	1.0	11
32	Comparative sequence analysis and serological and infectivity studies indicate that cocksfoot mild mosaic virus is a member of the genus Panicovirus. Archives of Virology, 2009, 154, 1545-1549.	0.9	10
33	Viruses in soils: morphological diversity and abundance in the rhizosphere. Annals of Applied Biology, 2009, 155, 51-60.	1.3	75
34	Unusual Long-Distance Movement Strategies of <i>Potato mop-top virus</i> RNAs in <i>Nicotiana benthamiana</i>. Molecular Plant-Microbe Interactions, 2009, 22, 381-390.	1.4	29
35	Studies of the Role and Function of Barley Stripe Mosaic Virus Encoded Proteins in Replication and Movement Using GFP Fusions. Methods in Molecular Biology, 2009, 515, 287-297.	0.4	1
36	Role of Plant Virus Movement Proteins. Methods in Molecular Biology, 2008, 451, 33-54.	0.4	65

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37	Cylindrical inclusion protein of potato virus A is associated with a subpopulation of particles isolated from infected plants. Journal of General Virology, 2008, 89, 829-838.	1.3	58
38	Localization of Viral Proteins in Plant Cells: Protein Tagging. Methods in Molecular Biology, 2008, 451, 463-473.	0.4	0
39	Barley stripe mosaic virus-encoded proteins triple-gene block 2 and Î³b localize to chloroplasts in virus-infected monocot and dicot plants, revealing hitherto-unknown roles in virus replication. Journal of General Virology, 2006, 87, 2403-2411.	1.3	54
40	An Unusual Structure at One End of Potato Potyvirus Particles. Journal of Molecular Biology, 2006, 357, 1-8.	2.0	90
41	Oriented immobilisation of engineered single-chain antibodies to develop biosensors for virus detection. Journal of Virological Methods, 2006, 134, 164-170.	1.0	91
42	Production and properties of monoclonal antibodies to Solanum nodiflorum mottle sobemovirus. Annals of Applied Biology, 2005, 146, 321-325.	1.3	0
43	Two Plantâ€"Viral Movement Proteins Traffic in the Endocytic Recycling Pathway. Plant Cell, 2005, 17, 164-181.	3.1	183
44	Applications of recombinant antibodies in plant pathology. Molecular Plant Pathology, 2002, 3, 401-407.	2.0	23
45	In Situ Spatial Organization of Potato Virus A Coat Protein Subunits as Assessed by Tritium Bombardment. Journal of Virology, 2001, 75, 9696-9702.	1.5	80
46	Title is missing!. Molecular Breeding, 2000, 6, 327-335.	1.0	21
47	Expression of Functional Recombinant Antibody Molecules in Insect Cell Expression Systems. Protein Expression and Purification, 2000, 18, 221-228.	0.6	34
48	Aphid transmission studies using helper component proteins of Potato virus Y expressed from a vector derived from Potato virus X. Journal of General Virology, 2000, 81, 1115-1119.	1.3	17
49	Fusion Proteins of Single-Chain Variable Fragments Derived from Phage Display Libraries Are Effective Reagents for Routine Diagnosis of Potato Leafroll Virus Infection in Potato. Phytopathology, 1999, 89, 1015-1021.	1.1	25
50	Properties of a panel of single chain variable fragments against Potato leafroll virus obtained from two phage display libraries. Journal of Virological Methods, 1999, 81, 159-168.	1.0	20
51	Rapid production of single-chain Fv fragments in plants using a potato virus X episomal vector. Journal of Immunological Methods, 1999, 231, 137-146.	0.6	44
52	pSKAP/S: An Expression Vector for the Production of Single-Chain Fv Alkaline Phosphatase Fusion Proteins. Protein Expression and Purification, 1999, 16, 63-69.	0.6	46
53	A naturally occurring deleted form of RNA 2 of Potato mop-top virus. Journal of General Virology, 1999, 80, 2211-2215.	1.3	25
54	Factors affecting the detection of potato mop-top virus in potato tubers and improvement of test procedures for more reliable assays. Annals of Applied Biology, 1998, 133, 55-63.	1.3	38

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55	Selection of Single-Chain Variable Fragment Antibodies to Black Currant Reversion Associated Virus from a Synthetic Phage Display Library. Phytopathology, 1998, 88, 230-233.	1.1	15
56	Synthetic Antigen from a Peptide Library Can Be an Effective Positive Control in Immunoassays for the Detection and Identification of Two Geminiviruses. Phytopathology, 1998, 88, 1302-1305.	1.1	8
57	Monoclonal Antibodies Detect a Single Amino Acid Difference Between the Coat Proteins of Soilborne Wheat Mosaic Virus Isolates: Implications for Virus Structure. Phytopathology, 1997, 87, 295-301.	1.1	24
58	Diversity among the coat proteins of luteoviruses associated with chickpea stunt disease in Indiaâ€. Annals of Applied Biology, 1997, 130, 37-47.	1.3	20
59	A scFv-alkaline phosphatase fusion protein which detects potato leafroll luteovirus in plant extracts by ELISA. Journal of Virological Methods, 1997, 63, 237-242.	1.0	40
60	Recombinant antibody fragments that detect enoyl acyl carrier protein reductase in Brassica napus. Lipids, 1997, 32, 805-809.	0.7	5
61	Conservation of coat protein sequence among isolates of potato mop-top virus from Scotland and Peru. Archives of Virology, 1996, 141, 1115-1121.	0.9	24
62	Comparison of the coat protein of groundnut rosette assistor virus with those of other luteoviruses. Annals of Applied Biology, 1996, 128, 77-83.	1.3	25
63	Acquisition and transmission of potato mop-to furovirus by a culture of Spongospora subterranea f.sp. subterranea derived from a single cystosorus. Annals of Applied Biology, 1995, 126, 493-503.	1.3	59
64	Use of monoclonal antibodies in plant pathology. European Journal of Plant Pathology, 1995, 101, 351-363.	0.8	25
65	Improved efficiency of detection of potato mop-top furovirus in potato tubers and in the roots and leaves of soil-bait plants. Potato Research, 1994, 37, 373-381.	1.2	39
66	Properties of cocksfoot streak and cocksfoot cryptic, two viruses infecting cocksfoot (Dactylis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.3	8
67	Properties of cocksfoot streak and cocksfoot cryptic, two viruses infecting cocksfoot (Dactylis) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.3	1
68	Antigenic analysis of potato virus A particles and coat protein. Annals of Applied Biology, 1994, 125, 337-348.	1.3	17
69	Monoclonal antibodies specific for potato mop-top virus, and some properties of the coat protein. Annals of Applied Biology, 1993, 122, 311-322.	1.3	36
70	Analysis of epitopes on potato leafroll virus capsid protein. Virology, 1992, 191, 485-489.	1.1	41
71	Electron microscopical demonstration of different binding sites for monoclonal antibodies on particles of beet necrotic yellow vein virus. Journal of General Virology, 1990, 71, 731-733.	1.3	17
72	Rhizomania disease of sugar beet in England. Plant Pathology, 1989, 38, 114-122.	1.2	29

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73	Production and some characteristics of monoclonal antibodies against beet necrotic yellow vein virus. Annals of Applied Biology, 1988, 113, 519-530.	1.3	30
74	Some characteristics of monoclonal antibodies to a British M A V-like isolate of barley yellow dwarf virus. Annals of Applied Biology, 1988, 113, 639-644.	1.3	20
75	Use of enzyme amplification in an ELISA to increase sensitivity of detection of barley yellow dwarf virus in oats and in individual vector aphids. Journal of Virological Methods, 1987, 15, 131-138.	1.0	43
76	Antigenic Analysis of Potato Virus X by Means of Monoclonal Antibodies. Journal of General Virology, 1986, 67, 2145-2151.	1.3	51
77	Characterization of Monoclonal Antibodies to a U.K. Isolate of Barley Yellow Dwarf Virus. Journal of General Virology, 1986, 67, 549-556.	1.3	53
78	Characterization of Monoclonal Antibodies against Potato Virus X and Comparison of Serotypes with Resistance Groups. Journal of General Virology, 1986, 67, 57-67.	1.3	51
79	Sampling conditions for reliable routine detection by enzymeâ€linked immunosorbent assay of three ilarviruses in fruit trees. Annals of Applied Biology, 1984, 104, 267-276.	1.3	37
80	Increased sensitivity of detection of plant viruses obtained by using a fluorogenic substrate in enzyme-linked immunosorbent assay. Annals of Applied Biology, 1982, 101, 501-509.	1.3	33
81	Properties of Scottish isolates of cocksfoot mild mosaic virus and their comparison with others. Annals of Applied Biology, 1981, 97, 285-295.	1.3	8
82	Recent developments in serological methods suited for use in routine testing for plant viruses. Plant Pathology, 1981, 30, 1-24.	1.2	57
83	Use of forced buds to extend the period of serological testing in surveys for fruit tree viruses. Plant Pathology, 1981, 30, 213-216.	1.2	8
84	A simple kit for detection of plant viruses by the latex serological test. Plant Pathology, 1980, 29, 77-79.	1.2	17
85	Use of protein A to improve sensitisation of latex particles with antibodies to plant viruses. Annals of Applied Biology, 1980, 96, 45-50.	1.3	29
86	Use of Bovine C1q to Detect Plant Viruses in an Enzyme-linked Immunosorbent-type Assay. Journal of General Virology, 1980, 51, 229-232.	1.3	17