Richard Jm Kormelink

List of Publications by Year
in descending order

112 papers	6,262 citations	61984 43 h-index	74163 75 g-index
116 all docs	116 docs citations	116 times ranked	3590 citing authors

#	Article	IF	Citations
1	The Tomato Yellow Leaf Curl Virus Resistance Genes Ty-1 and Ty-3 Are Allelic and Code for DFDGD-Class RNAâ€“Dependent RNA Polymerases. PLoS Genetics, 2013, 9, e1003399.	3.5	299
2	Tomato spotted wilt virus L RNA encodes a putative RNA polymerase. Journal of General Virology, 1991, 72, 2207-2216.	2.9	242
3	Multiplication of tomato spotted wilt virus in its insect vector, Frankliniella occidentalis. Journal of General Virology, 1993, 74, 341-349.	2.9	224
4	Expression and Subcellular Location of the NSM Protein of Tomato Spotted Wilt Virus (TSWV), a Putative Viral Movement Protein. Virology, 1994, 200, 56-65.	2.4	209
5	Dominant resistance against plant viruses. Frontiers in Plant Science, 2014, 5, 307.	3.6	197
6	The Nonstructural NSm Protein of Tomato Spotted Wilt Virus Induces Tubular Structures in Plant and Insect Cells. Virology, 1995, 214, 485-493.	2.4	195
7	The nucleotide sequence of the M RNA segment of tomato spotted wilt virus, a bunyavirus with two ambisense RNA segments. Journal of General Virology, 1992, 73, 2795-2804.	2.9	193
8	Tomato yellow leaf curl virus resistance by <i>Ty-1</i> involves increased cytosine methylation of viral genomes and is compromised by cucumber mosaic virus infection. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12942-12947.	7.1	180
9	Negative-strand RNA viruses: The plant-infecting counterparts. Virus Research, 2011, 162, 184-202.	2.2	167
10	Classification of tospoviruses based on phylogeny of nucleoprotein gene sequences. Journal of General Virology, 1993, 74, 153-159.	2.9	165
11	Taxonomy of the family Arenaviridae and the order Bunyavirales: update 2018. Archives of Virology, 2018, 163, 2295-2310.	2.1	157
12	Functional Entry of Baculovirus into Insect and Mammalian Cells Is Dependent on Clathrin-Mediated Endocytosis. Journal of Virology, 2006, 80, 8830-8833.	3.4	135
13	The nonstructural protein (NSS) encoded by the ambisense S RNA segment of tomao spotted wilt virus is associated with fibrous structures in infected plant cells. Virology, 1991, 181, 459-468.	2.4	128
14	Molecular and Serological Characterization of Iris Yellow Spot Virus, a New and Distinct Tospovirus Species. Phytopathology, 1998, 88, 1276-1282.	2.2	127
15	Taxonomy of the order Bunyavirales: second update 2018. Archives of Virology, 2019, 164, 927-941.	2.1	115
16	Diverging Affinity of Tospovirus RNA Silencing Suppressor Proteins, NSs, for Various RNA Duplex Molecules. Journal of Virology, 2010, 84, 11542-11554.	3.4	102
17	Resistance to Tospoviruses in Vegetable Crops: Epidemiological and Molecular Aspects. Annual Review of Phytopathology, 2016, 54, 347-371.	7.8	98
18	Generation of envelope and defective interfering RNA mutants of tomato spotted wilt virus by mechanical passage. Journal of General Virology, 1991, 72, 2375-2383.	2.9	96

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19	Chromosomal rearrangements between tomato and <i>Solanum chilense</i> hamper mapping and breeding of the TYLCV resistance gene <i>Tyâ€‑1</i>. Plant Journal, 2011, 68, 1093-1103.	5.7	96
20	Tomato Spotted Wilt Virus Particle Morphogenesis in Plant Cells. Journal of Virology, 1999, 73, 2288-2297.	3.4	93
21	Characterization of a Tospovirus Isolate of Iris Yellow Spot Virus Associated with a Disease in Onion Fields in Brazil. Plant Disease, 1999, 83, 345-350.	1.4	93
22	Increase of Tospoviral Diversity in Brazil with the Identification of Two New Tospovirus Species, One from Chrysanthemum and One from Zucchini. Phytopathology, 1999, 89, 823-830.	2.2	89
23	<i><scp>T</scp>sw</i> geneâ€‑based resistance is triggered by a functional <scp>RNA</scp> silencing suppressor protein of the <i><scp>T</scp>omato spotted wilt virus</i>. Molecular Plant Pathology, 2013, 14, 405-415.	4.2	84
24	Distinct levels of relationships between tospovirus isolates. Archives of Virology, 1993, 128, 211-227.	2.1	83
25	Analysis of <i><scp>T</scp></i><i>omato spotted wilt virus</i>â€…<scp>NSs</scp> protein indicates the importance of the <scp>N</scp>â€‑terminal domain for avirulence and <scp>RNA</scp> silencing suppression. Molecular Plant Pathology, 2014, 15, 185-195.	4.2	83
26	Virus Latency and the Impact on Plants. Frontiers in Microbiology, 2019, 10, 2764.	3.5	81
27	The <i><scp>T</scp>omato spotted wilt virus</i> cellâ€‑toâ€‑cell movement protein (<scp>NS_M</scp>) triggers a hypersensitive response in <i><scp>S</scp>wâ€‑5</i>â€‑containing resistant tomato lines and in <i><scp>N</scp>icotiana benthamiana</i> transformed with the functional <i><scp>S</scp>wâ€‑5b</i> resistance gene copy. Molecular Plant Pathology, 2014, 15, 871-880.	4.2	72
28	In vivo analysis of the TSWV cap-snatching mechanism: single base complementarity and primer length requirements. EMBO Journal, 2001, 20, 2545-2552.	7.8	71
29	A comparison of two methods of microinjection for assessing altered plasmodesmal gating in tissues expressing viral movement proteins. Plant Journal, 2002, 13, 131-140.	5.7	71
30	Identification and characterization of a novel tospovirus species using a new RT-PCR approach. Archives of Virology, 2001, 146, 265-278.	2.1	70
31	Tobacco plants respond to the constitutive expression of the tospovirus movement protein NSM with a heat-reversible sealing of plasmodesmata that impairs development. Plant Journal, 2005, 43, 688-707.	5.7	69
32	Non-viral heterogeneous sequences at the 5' ends of tomato spotted wilt virus mRNAs. Journal of General Virology, 1992, 73, 2125-2128.	2.9	66
33	Tomato Spotted Wilt Virus Glycoproteins Exhibit Trafficking and Localization Signals That Are Functional in Mammalian Cells. Journal of Virology, 2001, 75, 1004-1012.	3.4	63
34	Binding of Tomato Spotted Wilt Virus to a 94-kDa Thrips Protein. Phytopathology, 1998, 88, 63-69.	2.2	62
35	A New Tomato-Infecting Tospovirus from Iran. Phytopathology, 2005, 95, 852-858.	2.2	62
36	The NS3 protein of rice hoja blanca virus complements the RNAi suppressor function of HIVâ€‑1 Tat. EMBO Reports, 2009, 10, 258-263.	4.5	62

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37	Characterization of a Distinct Isolate of Tomato Spotted Wilt Virus (TSWV) from Impatiens sp. in The Netherlands. Journal of Phytopathology, 1992, 134, 133-151.	1.0	61
38	Tomato spotted wilt virus nucleocapsid protein interacts with both viral glycoproteins Gn and Gc in planta. Virology, 2009, 383, 121-130.	2.4	61
39	A distinct tospovirus causing necrotic streak on Alstroemeria sp. in Colombia. Archives of Virology, 2010, 155, 423-428.	2.1	61
40	The nucleotide sequence of the S RNA ofImpatiensnecrotic spot virus, a novel tospovirus. FEBS Letters, 1992, 306, 27-32.	2.8	60
41	Rescue of tomato spotted wilt virus entirely from complementary DNA clones. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1181-1190.	7.1	59
42	Tomato spotted wilt virus glycoproteins induce the formation of endoplasmic reticulum- and Golgi-derived pleomorphic membrane structures in plant cells. Journal of General Virology, 2008, 89, 1811-1818.	2.9	54
43	Paving the Way to Tospovirus Infection: Multilined Interplays with Plant Innate Immunity. Annual Review of Phytopathology, 2019, 57, 41-62.	7.8	53
44	Assessing the genetic variation of Ty-1 and Ty-3 alleles conferring resistance to tomato yellow leaf curl virus in a broad tomato germplasm. Molecular Breeding, 2015, 35, 132.	2.1	46
45	Development of a locus-specific, co-dominant SCAR marker for assisted-selection of the Sw-5 (Tospovirus resistance) gene cluster in a wide range of tomato accessions. Molecular Breeding, 2010, 25, 133-142.	2.1	45
46	Viral RNA synthesis in tomato spotted wilt virus-infected Nicotiana rustica plants. Journal of General Virology, 1992, 73, 687-693.	2.9	44
47	A protoplast system for studying tomato spotted wilt virus infection.. Journal of General Virology, 1997, 78, 1755-1763.	2.9	43
48	Tomato spotted wilt virus transcriptase in vitro displays a preference for cap donors with multiple base complementarity to the viral template. Virology, 2005, 335, 122-130.	2.4	42
49	Tomato spotted wilt virus Gc and N proteins interact in vivo. Virology, 2007, 357, 115-123.	2.4	42
50	Cell death triggering and effector recognition by Swâ€5 SDâ€CNL proteins from resistant and susceptible tomato isolines to <i>Tomato spotted wilt virus</i>. Molecular Plant Pathology, 2016, 17, 1442-1454.	4.2	42
51	Base-pairing promotes leader selection to prime in vitro influenza genome transcription. Virology, 2011, 409, 17-26.	2.4	38
52	Viral RNA Silencing Suppression: The Enigma of Bunyavirus NSs Proteins. Viruses, 2016, 8, 208.	3.3	38
53	Plant Viruses in Plant Molecular Pharming: Toward the Use of Enveloped Viruses. Frontiers in Plant Science, 2019, 10, 803.	3.6	38
54	<i>Tyâ€1</i>, a universal resistance gene against geminiviruses that is compromised by coâ€replication of a betasatellite. Molecular Plant Pathology, 2020, 21, 160-172.	4.2	38

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55	Purified Tomato spotted wilt virus Particles Support Both Genome Replication and Transcription in Vitro. Virology, 2002, 303, 278-286.	2.4	37
56	Genome packaging of the Bunyavirales. Current Opinion in Virology, 2018, 33, 151-155.	5.4	36
57	Tomato spotted wilt virus S-segment mRNAs have overlapping 3â€²-ends containing a predicted stem-loop structure and conserved sequence motif. Virus Research, 2005, 110, 125-131.	2.2	35
58	The Sw-5 Gene Cluster: Tomato Breeding and Research Toward Orthotospovirus Disease Control. Frontiers in Plant Science, 2018, 9, 1055.	3.6	35
59	Feasibility of Cowpea chlorotic mottle virus-like particles as scaffold for epitope presentations. BMC Biotechnology, 2015, 15, 80.	3.3	34
60	Alfalfa Mosaic Virus RNAs Serve as Cap Donors for Tomato Spotted Wilt Virus Transcription during Coinfection of <i>Nicotiana benthamiana</i>. Journal of Virology, 1999, 73, 5172-5175.	3.4	33
61	Analysis of the Tomato spotted wilt virus Ambisense S RNA-Encoded Hairpin Structure in Translation. PLoS ONE, 2012, 7, e31013.	2.5	33
62	Genetic organisation of Iris yellow spot virus M RNA: indications for functional homology between the G (C) glycoproteins of tospoviruses and animal-infecting bunyaviruses. Archives of Virology, 2002, 147, 2313-2325.	2.1	31
63	The Bunyavirales: The Plant-Infecting Counterparts. Viruses, 2021, 13, 842.	3.3	31
64	Application of Phage Display in Selecting Tomato spotted wilt virus-Specific Single-Chain Antibodies (scFvs) for Sensitive Diagnosis in ELISA. Phytopathology, 2000, 90, 183-190.	2.2	30
65	Molecular and biological comparison of two Tomato yellow ring virus (TYRV) isolates: challenging the Tospovirus species concept. Archives of Virology, 2007, 152, 85-96.	2.1	30
66	Effects of Temperature and Host on the Generation of Tomato Spotted Wilt Virus Defective Interfering RNAs. Phytopathology, 1997, 87, 1168-1173.	2.2	29
67	Preferential use of RNA leader sequences during influenza A transcription initiation in vivo. Virology, 2011, 409, 27-32.	2.4	28
68	Analysis of Tospovirus NSs Proteins in Suppression of Systemic Silencing. PLoS ONE, 2015, 10, e0134517.	2.5	28
69	Nucleotide sequence of two soybean ENOD2 early nodulin genes encoding Ngm-75. Plant Molecular Biology, 1990, 14, 103-106.	3.9	27
70	Bluetongue, Schmallenberg - what is next? Culicoides-borne viral diseases in the 21st Century. BMC Veterinary Research, 2014, 10, 77.	1.9	27
71	Grafting on a Non-Transgenic Tolerant Tomato Variety Confers Resistance to the Infection of a Sw5-Breaking Strain of Tomato spotted wilt virus via RNA Silencing. PLoS ONE, 2015, 10, e0141319.	2.5	27
72	The NLR Protein Encoded by the Resistance Gene Ty-2 Is Triggered by the Replication-Associated Protein Rep/C1 of Tomato Yellow Leaf Curl Virus. Frontiers in Plant Science, 2020, 11, 545306.	3.6	26

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73	RNAi-Mediated Transgenic Tospovirus Resistance Broken by IntraspeciesSilencing Suppressor Protein Complementation. Molecular Plant-Microbe Interactions, 2009, 22, 1250-1257.	2.6	24
74	Requirements for ERâ€Arrest and Sequential Exit to the Golgi of Tomato Spotted Wilt Virus Glycoproteins. Traffic, 2009, 10, 664-672.	2.7	23
75	The use of fluorescence microscopy to visualise homotypic interactions of tomato spotted wilt virus nucleocapsid protein in living cells. Journal of Virological Methods, 2005, 125, 15-22.	2.1	22
76	The Cytosolic Nucleoprotein of the Plant-Infecting Bunyavirus Tomato Spotted Wilt Recruits Endoplasmic Reticulumâ€"Resident Proteins to Endoplasmic Reticulum Export Sites. Plant Cell, 2013, 25, 3602-3614.	6.6	22
77	Title is missing!. Transgenic Research, 1997, 6, 245-251.	2.4	21
78	The cytoplasmic domain of tomato spotted wilt virus Gn glycoprotein is required for Golgi localisation and interaction with Gc. Virology, 2007, 363, 272-279.	2.4	20
79	A functional investigation of the suppression of CpG and UpA dinucleotide frequencies in plant RNA virus genomes. Scientific Reports, 2019, 9, 18359.	3.3	18
80	Cellular RNA Hubs: Friends and Foes of Plant Viruses. Molecular Plant-Microbe Interactions, 2020, 33, 40-54.	2.6	18
81	Molecular Characterization of Tomato Spotted Wilt Virus Defective Interfering RNAs and Detection of Truncated L Proteins. Virology, 1998, 248, 342-356.	2.4	16
82	Molecular characterization of the full-length L and M RNAs of Tomato yellow ring virus, a member of the genus Tospovirus. Virus Genes, 2013, 46, 487-495.	1.6	16
83	Defenses against Virus and Vector: A Phloem-Biological Perspective on RTM- and SLI1-Mediated Resistance to Potyviruses and Aphids. Viruses, 2020, 12, 129.	3.3	16
84	Analysis of the A-U Rich Hairpin from the Intergenic Region of Tospovirus S RNA as Target and Inducer of RNA Silencing. PLoS ONE, 2014, 9, e106027.	2.5	15
85	The NSm proteins of phylogenetically related tospoviruses trigger Sw-5bâ€"mediated resistance dissociated of their cell-to-cell movement function. Virus Research, 2017, 240, 25-34.	2.2	14
86	Alstroemeria yellow spot virus (AYSV): a new orthotospovirus species within a growing Eurasian clade. Archives of Virology, 2019, 164, 117-126.	2.1	14
87	Generic RT-PCR tests for detection and identification of tospoviruses. Journal of Virological Methods, 2016, 233, 89-96.	2.1	13
88	The Cap Snatching of Segmented Negative Sense RNA Viruses as a Tool to Map the Transcription Start Sites of Heterologous Co-infecting Viruses. Frontiers in Microbiology, 2017, 8, 2519.	3.5	13
89	Inherent properties not conserved in other tenuiviruses increase priming and realignment cycles during transcription of Rice stripe virus. Virology, 2016, 496, 287-298.	2.4	12
90	Identification and characterization of two RNA silencing suppressors encoded by ophioviruses. Virus Research, 2017, 235, 96-105.	2.2	12

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91	Biochemical analysis of NSs from different tospoviruses. Virus Research, 2017, 242, 149-155.	2.2	12
92	Identification and characterization of a new class of Tomato spotted wilt virus isolates that break Tsw â€based resistance in a temperatureâ€dependent manner. Plant Pathology, 2019, 68, 60-71.	2.4	12
93	In vitro transcription of Tomato spotted wilt virus is independent of translation. Journal of General Virology, 2004, 85, 1335-1338.	2.9	11
94	Tomato Spotted Wilt Virus Particle Assembly and the Prospects of Fluorescence Microscopy to Study Proteinâ€“protein Interactions Involved. Advances in Virus Research, 2005, 65, 63-120.	2.1	10
95	Tomato necrotic ring virus (TNRV), a recently described tospovirus species infecting tomato and pepper in Thailand. European Journal of Plant Pathology, 2011, 130, 449-456.	1.7	10
96	The complete nucleotide sequence of chrysanthemum stem necrosis virus. Archives of Virology, 2015, 160, 605-608.	2.1	10
97	Serological comparison of tospoviruses with polyclonal antibodies produced against the main structural proteins of tomato spotted wilt virus. Archives of Virology, 1997, 142, 781-793.	2.1	8
98	Expression of the movement protein of Tomato spotted wilt virus in its insect vector Frankliniella occidentalis. Archives of Virology, 2002, 147, 825-831.	2.1	8
99	Tomato Chlorotic Spot Virus (TCSV) Putatively Incorporated a Genomic Segment of Groundnut Ringspot Virus (GRSV) Upon a Reassortment Event. Viruses, 2019, 11, 187.	3.3	8
100	Complete genomic sequence of a novel phytopathogenic Burkholderia phage isolated from fallen leaf compost. Archives of Virology, 2021, 166, 313-316.	2.1	6
101	Small RNA Profiling of Susceptible and Resistant Ty-1 Encoding Tomato Plants Upon Tomato Yellow Leaf Curl Virus Infection. Frontiers in Plant Science, 2021, 12, 757165.	3.6	6
102	Members of the ribosomal protein S6 (RPS6) family act as proâ€viral factor for tomato spotted wilt orthotospovirus infectivity in <i>Nicotiana benthamiana</i>. Molecular Plant Pathology, 2022, 23, 431-446.	4.2	6
103	Prospects for viruses infecting eukaryotic microalgae in biotechnology. Biotechnology Advances, 2022, 54, 107790.	11.7	5
104	In memoriam â€“ Richard M. Elliott (1954â€“2015). Journal of General Virology, 2015, 96, 1975-1978.	2.9	4
105	An Isoform of the Eukaryotic Translation Elongation Factor 1A (eEF1a) Acts as a Pro-Viral Factor Required for Tomato Spotted Wilt Virus Disease in Nicotiana benthamiana. Viruses, 2021, 13, 2190.	3.3	3
106	Cucumber Mosaic Virus Infection in Arabidopsis: A Conditional Mutualistic Symbiont?. Frontiers in Microbiology, 2021, 12, 770925.	3.5	3
107	DETECTION OF EIGHT DIFFERENT TOSPOVIRUS SPECIES BY A MONOCLONAL ANTIBODY AGAINST THE COMMON EPITOPE OF NSS PROTEIN. Acta Horticulturae, 2011, , 61-66.	0.2	2
108	Antiviral RISC mainly targets viral mRNA but not genomic RNA of tospovirus. PLoS Pathogens, 2021, 17, e1009757.	4.7	2

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109	Infection of barley protoplasts with rice hoja blanca tenuivirus. Archives of Virology, 1999, 144, 2247-2252.	2.1	1
110	Survey of the response of 82 domestic landraces of <i>Zea mays</i> to cucumber mosaic virus (<scp>CMV</scp>) reveals geographical regionâ€related resistance to <scp>CMV</scp> in Japan. Plant Pathology, 2018, 67, 1401-1415.	2.4	1
111	Plant Resistance to Viruses: Natural Resistance Associated With Dominant Genes. , 2021, , 60-68.		1
112	Tospovirusâ€¦. , 2011, , 231-235.		0