

Volker Lohmann

List of Publications by Year in descending order

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120
papers

15,725
citations

17405

63
h-index

17055

122
g-index

129
all docs

129
docs citations

129
times ranked

10054
citing authors

#	ARTICLE	IF	CITATIONS
1	Replication of Subgenomic Hepatitis C Virus RNAs in a Hepatoma Cell Line. <i>Science</i> , 1999, 285, 110-113.	6.0	2,615
2	Identification of the Hepatitis C Virus RNA Replication Complex in Huh-7 Cells Harboring Subgenomic Replicons. <i>Journal of Virology</i> , 2003, 77, 5487-5492.	1.5	558
3	Replication of hepatitis C virus. <i>Microbiology (United Kingdom)</i> , 2000, 81, 1631-1648.	0.7	537
4	Enhancement of Hepatitis C Virus RNA Replication by Cell Culture-Adaptive Mutations. <i>Journal of Virology</i> , 2001, 75, 4614-4624.	1.5	482
5	Biochemical properties of hepatitis C virus NS5B RNA-dependent RNA polymerase and identification of amino acid sequence motifs essential for enzymatic activity. <i>Journal of Virology</i> , 1997, 71, 8416-8428.	1.5	481
6	Recruitment and Activation of a Lipid Kinase by Hepatitis C Virus NS5A Is Essential for Integrity of the Membranous Replication Compartment. <i>Cell Host and Microbe</i> , 2011, 9, 32-45.	5.1	435
7	Mutations in Hepatitis C Virus RNAs Conferring Cell Culture Adaptation. <i>Journal of Virology</i> , 2001, 75, 1437-1449.	1.5	421
8	Assembly of infectious hepatitis C virus particles. <i>Trends in Microbiology</i> , 2011, 19, 95-103.	3.5	389
9	Characterization of the Early Steps of Hepatitis C Virus Infection by Using Luciferase Reporter Viruses. <i>Journal of Virology</i> , 2006, 80, 5308-5320.	1.5	363
10	Viral and Cellular Determinants of Hepatitis C Virus RNA Replication in Cell Culture. <i>Journal of Virology</i> , 2003, 77, 3007-3019.	1.5	356
11	Characterization of Cell Lines Carrying Self-Replicating Hepatitis C Virus RNAs. <i>Journal of Virology</i> , 2001, 75, 1252-1264.	1.5	336
12	The molecular and structural basis of advanced antiviral therapy for hepatitis C virus infection. <i>Nature Reviews Microbiology</i> , 2013, 11, 482-496.	13.6	336
13	Persistent and Transient Replication of Full-Length Hepatitis C Virus Genomes in Cell Culture. <i>Journal of Virology</i> , 2002, 76, 4008-4021.	1.5	330
14	Sequences in the 5' Nontranslated Region of Hepatitis C Virus Required for RNA Replication. <i>Journal of Virology</i> , 2001, 75, 12047-12057.	1.5	289
15	Interferon- β inhibits replication of subgenomic and genomic hepatitis C virus RNAs. <i>Hepatology</i> , 2002, 35, 694-703.	3.6	286
16	Identification of hepatoprotective flavonolignans from silymarin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5995-5999.	3.3	262
17	Quantitative Analysis of the Hepatitis C Virus Replication Complex. <i>Journal of Virology</i> , 2005, 79, 13594-13605.	1.5	247
18	Mutations that permit efficient replication of hepatitis C virus RNA in Huh-7 cells prevent productive replication in chimpanzees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14416-14421.	3.3	244

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19	Essential Role of Cyclophilin A for Hepatitis C Virus Replication and Virus Production and Possible Link to Polyprotein Cleavage Kinetics. <i>PLoS Pathogens</i> , 2009, 5, e1000546.	2.1	233
20	Restoration of HCV-specific CD8+ T cell function by interferon-free therapy. <i>Journal of Hepatology</i> , 2014, 61, 538-543.	1.8	218
21	Cyclosporin A inhibits hepatitis B and hepatitis D virus entry by cyclophilin-independent interference with the NTCP receptor. <i>Journal of Hepatology</i> , 2014, 60, 723-731.	1.8	217
22	Complex formation between the NS3 serine-type proteinase of the hepatitis C virus and NS4A and its importance for polyprotein maturation. <i>Journal of Virology</i> , 1995, 69, 7519-7528.	1.5	211
23	Analysis of Hepatitis C Virus Superinfection Exclusion by Using Novel Fluorochrome Gene-Tagged Viral Genomes. <i>Journal of Virology</i> , 2007, 81, 4591-4603.	1.5	198
24	Multiple effects of silymarin on the hepatitis C virus lifecycle. <i>Hepatology</i> , 2010, 51, 1912-1921.	3.6	191
25	Novel cell culture systems for the hepatitis C virus. <i>Antiviral Research</i> , 2001, 52, 1-17.	1.9	170
26	Dynamic Oscillation of Translation and Stress Granule Formation Mark the Cellular Response to Virus Infection. <i>Cell Host and Microbe</i> , 2012, 12, 71-85.	5.1	166
27	A replicon-based bioassay for the measurement of interferons in patients with chronic hepatitis C. <i>Journal of Virological Methods</i> , 2003, 110, 201-209.	1.0	161
28	Biochemical and Kinetic Analyses of NS5B RNA-Dependent RNA Polymerase of the Hepatitis C Virus. <i>Virology</i> , 1998, 249, 108-118.	1.1	144
29	Hepatitis C Virus-Replicating Hepatocytes Induce Fibrogenic Activation of Hepatic Stellate Cells. <i>Gastroenterology</i> , 2005, 129, 246-258.	0.6	139
30	Identification of type I and type II interferon-induced effectors controlling hepatitis C virus replication. <i>Hepatology</i> , 2012, 56, 2082-2093.	3.6	138
31	Daclatasvir-Like Inhibitors of NS5A Block Early Biogenesis of Hepatitis C Virus-Induced Membranous Replication Factories, Independent of RNA Replication. <i>Gastroenterology</i> , 2014, 147, 1094-1105.e25.	0.6	135
32	Ultrastructure of the replication sites of positive-strand RNA viruses. <i>Virology</i> , 2015, 479-480, 418-433.	1.1	130
33	Critical challenges and emerging opportunities in hepatitis C virus research in an era of potent antiviral therapy: Considerations for scientists and funding agencies. <i>Virus Research</i> , 2018, 248, 53-62.	1.1	124
34	Membrane Association of the RNA-Dependent RNA Polymerase Is Essential for Hepatitis C Virus RNA Replication. <i>Journal of Virology</i> , 2004, 78, 13278-13284.	1.5	121
35	Production of Infectious Genotype 1b Virus Particles in Cell Culture and Impairment by Replication Enhancing Mutations. <i>PLoS Pathogens</i> , 2009, 5, e1000475.	2.1	116
36	Hepatitis C Virus RNA Replication. <i>Current Topics in Microbiology and Immunology</i> , 2013, 369, 167-198.	0.7	116

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37	Role of Annexin A2 in the Production of Infectious Hepatitis C Virus Particles. <i>Journal of Virology</i> , 2010, 84, 5775-5789.	1.5	114
38	The heme oxygenase 1 product biliverdin interferes with hepatitis C virus replication by increasing antiviral interferon response. <i>Hepatology</i> , 2010, 51, 398-404.	3.6	113
39	Molecular Mechanism of Signal Perception and Integration by the Innate Immune Sensor Retinoic Acid-inducible Gene-I (RIG-I). <i>Journal of Biological Chemistry</i> , 2011, 286, 27278-27287.	1.6	112
40	The Lipid Kinase Phosphatidylinositol-4 Kinase III Alpha Regulates the Phosphorylation Status of Hepatitis C Virus NS5A. <i>PLoS Pathogens</i> , 2013, 9, e1003359.	2.1	110
41	A target on the move: Innate and adaptive immune escape strategies of hepatitis C virus. <i>Antiviral Research</i> , 2006, 69, 129-141.	1.9	109
42	Analysis of CD8+ T-Cell-Mediated Inhibition of Hepatitis C Virus Replication Using a Novel Immunological Model. <i>Gastroenterology</i> , 2009, 136, 1391-1401.	0.6	108
43	Hepatitis C virus replication cycle. <i>Journal of Hepatology</i> , 2010, 53, 583-585.	1.8	101
44	Hepatitis C virus escape from the interferon regulatory factor 3 pathway by a passive and active evasion strategy. <i>Hepatology</i> , 2007, 46, 1365-1374.	3.6	100
45	Mouse Hepatic Cells Support Assembly of Infectious Hepatitis C Virus Particles. <i>Gastroenterology</i> , 2011, 141, 1057-1066.	0.6	100
46	Modulation of the Host Lipid Landscape to Promote RNA Virus Replication: The Picornavirus Encephalomyocarditis Virus Converges on the Pathway Used by Hepatitis C Virus. <i>PLoS Pathogens</i> , 2015, 11, e1005185.	2.1	93
47	Identification of Determinants Involved in Initiation of Hepatitis C Virus RNA Synthesis by Using Intergenotypic Replicase Chimeras. <i>Journal of Virology</i> , 2007, 81, 5270-5283.	1.5	92
48	microRNA-122 amplifies hepatitis C virus translation by shaping the structure of the internal ribosomal entry site. <i>Nature Communications</i> , 2018, 9, 2613.	5.8	90
49	Selective Stimulation of Hepatitis C Virus and Pestivirus NS5B RNA Polymerase Activity by GTP. <i>Journal of Biological Chemistry</i> , 1999, 274, 10807-10815.	1.6	84
50	The Hepatitis C Virus RNA-Dependent RNA Polymerase Membrane Insertion Sequence Is a Transmembrane Segment. <i>Journal of Virology</i> , 2002, 76, 13088-13093.	1.5	81
51	Dissecting the Interferon-Induced Inhibition of Hepatitis C Virus Replication by Using a Novel Host Cell Line. <i>Journal of Virology</i> , 2005, 79, 13778-13793.	1.5	81
52	Monocytes Activate Natural Killer Cells via Inflammasome-Induced Interleukin 18 in Response to Hepatitis C Virus Replication. <i>Gastroenterology</i> , 2014, 147, 209-220.e3.	0.6	81
53	Flavivirus Infection Uncouples Translation Suppression from Cellular Stress Responses. <i>MBio</i> , 2017, 8, .	1.8	81
54	Mutagenic Effect of Ribavirin on Hepatitis C Nonstructural 5B Quasispecies In Vitro and During Antiviral Therapy. <i>Gastroenterology</i> , 2007, 132, 921-930.	0.6	79

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55	Replication Vesicles are Load- and Choke-Points in the Hepatitis C Virus Lifecycle. <i>PLoS Pathogens</i> , 2013, 9, e1003561.	2.1	77
56	On the History of Hepatitis C Virus Cell Culture Systems. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 1627-1642.	2.9	77
57	NS5A Domain 1 and Polyprotein Cleavage Kinetics Are Critical for Induction of Double-Membrane Vesicles Associated with Hepatitis C Virus Replication. <i>MBio</i> , 2015, 6, e00759.	1.8	75
58	Hepatitis C Virus Replication Depends on Endosomal Cholesterol Homeostasis. <i>Journal of Virology</i> , 2018, 92, .	1.5	75
59	Hepatitis C virus RNA replication is resistant to tumour necrosis factor- α . <i>Journal of General Virology</i> , 2003, 84, 1253-1259.	1.3	74
60	In Vitro Studies on the Activation of the Hepatitis C Virus NS3 Proteinase by the NS4A Cofactor. <i>Virology</i> , 1996, 221, 54-66.	1.1	71
61	Biochemical and structural analysis of the NS5B RNA-dependent RNA polymerase of the hepatitis C virus. <i>Journal of Viral Hepatitis</i> , 2000, 7, 167-174.	1.0	68
62	Structural and Functional Analysis of Hepatitis C Virus Strain JFH1 Polymerase. <i>Journal of Virology</i> , 2009, 83, 11926-11939.	1.5	68
63	Inhibition of HCV Replication by Cyclophilin Antagonists Is Linked to Replication Fitness and Occurs by Inhibition of Membranous Web Formation. <i>Gastroenterology</i> , 2014, 146, 1361-1372.e9.	0.6	67
64	Membrane alterations induced by nonstructural proteins of human norovirus. <i>PLoS Pathogens</i> , 2017, 13, e1006705.	2.1	64
65	Secretion of Hepatitis C Virus Replication Intermediates Reduces Activation of Toll-Like Receptor 3 in Hepatocytes. <i>Gastroenterology</i> , 2018, 154, 2237-2251.e16.	0.6	63
66	Identification of HNRNPK as Regulator of Hepatitis C Virus Particle Production. <i>PLoS Pathogens</i> , 2015, 11, e1004573.	2.1	56
67	A Comprehensive Structure-Function Comparison of Hepatitis C Virus Strain JFH1 and J6 Polymerases Reveals a Key Residue Stimulating Replication in Cell Culture across Genotypes. <i>Journal of Virology</i> , 2011, 85, 2565-2581.	1.5	55
68	Replication of the hepatitis C virus. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2000, 14, 241-254.	1.0	54
69	Hepatitis C Virus NS2/3 Processing Is Required for NS3 Stability and Viral RNA Replication. <i>Journal of Biological Chemistry</i> , 2005, 280, 29604-29611.	1.6	54
70	Tuning a cellular lipid kinase activity adapts hepatitis C virus to replication in cell culture. <i>Nature Microbiology</i> , 2017, 2, 16247.	5.9	52
71	Immunodominance of HLA-A2-Restricted Hepatitis C Virus-Specific CD8 ⁺ T Cell Responses Is Linked to Naïve-Precursor Frequency. <i>Journal of Virology</i> , 2011, 85, 5232-5236.	1.5	51
72	DDX60L Is an Interferon-Stimulated Gene Product Restricting Hepatitis C Virus Replication in Cell Culture. <i>Journal of Virology</i> , 2015, 89, 10548-10568.	1.5	50

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73	Protective effect of human leukocyte antigen B27 in hepatitis C virus infection requires the presence of a genotype-specific immunodominant CD8+ T-cell epitope. <i>Hepatology</i> , 2010, 51, 54-62.	3.6	48
74	Human leukocyte antigen B27 selects for rare escape mutations that significantly impair hepatitis C virus replication and require compensatory mutations. <i>Hepatology</i> , 2011, 54, 1157-1166.	3.6	47
75	Control of temporal activation of hepatitis C virus-induced interferon response by domain 2 of nonstructural protein 5A. <i>Journal of Hepatology</i> , 2015, 63, 829-837.	1.8	47
76	Analysis of hepatitis C virus resistance to silibinin <i>in vitro</i> and <i>in vivo</i> points to a novel mechanism involving nonstructural protein 4B. <i>Hepatology</i> , 2013, 57, 953-963.	3.6	44
77	Phosphorylation-Dependent Feedback Inhibition of RIG-I by DAPK1 Identified by Kinome-wide siRNA Screening. <i>Molecular Cell</i> , 2017, 65, 403-415.e8.	4.5	40
78	Factors That Determine the Antiviral Efficacy of HCV-Specific CD8+ T Cells Ex Vivo. <i>Gastroenterology</i> , 2013, 144, 426-436.	0.6	38
79	Convergent use of phosphatidic acid for hepatitis C virus and SARS-CoV-2 replication organelle formation. <i>Nature Communications</i> , 2021, 12, 7276.	5.8	37
80	Novel perspectives for hepatitis A virus therapy revealed by comparative analysis of hepatitis C virus and hepatitis A virus RNA replication. <i>Hepatology</i> , 2015, 62, 397-408.	3.6	36
81	Mapping of Functional Domains of the Lipid Kinase Phosphatidylinositol 4-Kinase Type III Alpha Involved in Enzymatic Activity and Hepatitis C Virus Replication. <i>Journal of Virology</i> , 2014, 88, 9909-9926.	1.5	35
82	Relationships between Hepatitis C Virus Replication and CXCL-8 Production In Vitro. <i>Journal of Virology</i> , 2006, 80, 7885-7893.	1.5	34
83	Annexin A2 as a differential diagnostic marker of hepatocellular tumors. <i>Pathology Research and Practice</i> , 2011, 207, 8-14.	1.0	33
84	Overall Structural Model of NS5A Protein from Hepatitis C Virus and Modulation by Mutations Confering Resistance of Virus Replication to Cyclosporin A. <i>Biochemistry</i> , 2017, 56, 3029-3048.	1.2	29
85	HCV Replicons: Overview and Basic Protocols. <i>Methods in Molecular Biology</i> , 2009, 510, 145-163.	0.4	27
86	Rapid Antigen Processing and Presentation of a Protective and Immunodominant HLA-B*27-restricted Hepatitis C Virus-specific CD8+ T-cell Epitope. <i>PLoS Pathogens</i> , 2012, 8, e1003042.	2.1	25
87	TCR-Redirected Human T Cells Inhibit Hepatitis C Virus Replication: Hepatotoxic Potential Is Linked to Antigen Specificity and Functional Avidity. <i>Journal of Immunology</i> , 2012, 189, 4510-4519.	0.4	24
88	Differing and isoform-specific roles for the formin DIAPH3 in plasma membrane blebbing and filopodia formation. <i>Cell Research</i> , 2012, 22, 728-745.	5.7	23
89	Hepatitis C virus cell culture models: an encomium on basic research paving the road to therapy development. <i>Medical Microbiology and Immunology</i> , 2019, 208, 3-24.	2.6	23
90	Bile Acids Specifically Increase Hepatitis C Virus RNA-Replication. <i>PLoS ONE</i> , 2012, 7, e36029.	1.1	23

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91	Hepatitis C virus-induced natural killer cell proliferation involves monocyte-derived cells and the OX40/OX40L axis. <i>Journal of Hepatology</i> , 2018, 68, 421-430.	1.8	22
92	Experimental models to study the immunobiology of hepatitis C virus. <i>Journal of General Virology</i> , 2011, 92, 477-493.	1.3	19
93	An Integrated Transcriptomic and Meta-Analysis of Hepatoma Cells Reveals Factors That Influence Susceptibility to HCV Infection. <i>PLoS ONE</i> , 2011, 6, e25584.	1.1	18
94	Mutations in Encephalomyocarditis Virus 3A Protein Uncouple the Dependency of Genome Replication on Host Factors Phosphatidylinositol 4-Kinase III β and Oxysterol-Binding Protein. <i>MSphere</i> , 2016, 1, .	1.3	18
95	Matrix Conditions and KLF2-Dependent Induction of Heme Oxygenase-1 Modulate Inhibition of HCV Replication by Fluvastatin. <i>PLoS ONE</i> , 2014, 9, e96533.	1.1	17
96	Nonstructural protein 5A does not contribute to the resistance of hepatitis C virus replication to interferon alpha in cell culture. <i>Virology</i> , 2005, 336, 131-136.	1.1	16
97	Tyrphostin AG1478 Inhibits Encephalomyocarditis Virus and Hepatitis C Virus by Targeting Phosphatidylinositol 4-Kinase III β . <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 6402-6406.	1.4	15
98	Low perforin expression of early differentiated HCV-specific CD8 ⁺ T cells limits their hepatotoxic potential. <i>Journal of Hepatology</i> , 2012, 57, 9-16.	1.8	14
99	Hepatitis C virus replicons: dinosaurs still in business?. <i>Journal of Viral Hepatitis</i> , 2009, 16, 1-9.	1.0	13
100	Hepatitis C Virus-Specific T Cell Receptor mRNA-Engineered Human T Cells: Impact of Antigen Specificity on Functional Properties. <i>Journal of Virology</i> , 2017, 91, .	1.5	13
101	Interferon lambda 4 impairs hepatitis C viral antigen presentation and attenuates T cell responses. <i>Nature Communications</i> , 2021, 12, 4882.	5.8	13
102	Foot-and-mouth disease virus replicates independently of phosphatidylinositol 4-phosphate and type III phosphatidylinositol 4-kinases. <i>Journal of General Virology</i> , 2016, 97, 1841-1852.	1.3	12
103	The Accelerating Pace of HCV Research: A Summary of the 15th International Symposium on Hepatitis C Virus and Related Viruses. <i>Gastroenterology</i> , 2009, 136, 9-16.	0.6	11
104	Generation of T-cell receptors targeting a genetically stable and immunodominant cytotoxic T-lymphocyte epitope within hepatitis C virus non-structural protein 3. <i>Journal of General Virology</i> , 2012, 93, 247-258.	1.3	10
105	Type I and type II interferon responses in two human liver cell lines (Huh-7 and HuH6). <i>Genomics Data</i> , 2016, 7, 166-170.	1.3	9
106	SEC14L2, a lipid-binding protein, regulates HCV replication in culture with inter- and intra-genotype variations. <i>Journal of Hepatology</i> , 2019, 70, 603-614.	1.8	9
107	Characterization of a Threonine-Rich Cluster in Hepatitis C Virus Nonstructural Protein 5A and Its Contribution to Hyperphosphorylation. <i>Journal of Virology</i> , 2018, 92, .	1.5	7
108	Indelibly Stamped by Hepatitis C Virus Infection: Persistent Epigenetic Signatures Increasing Liver Cancer Risk. <i>Gastroenterology</i> , 2019, 156, 2130-2133.	0.6	7

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109	Inhibition of Hepatitis C Replication by Targeting the Molecular Chaperone Hsp90: Synthesis and Biological Evaluation of 4,5,6,7-tetrahydrobenzo[1,2-d]thiazole Derivatives. <i>ChemMedChem</i> , 2019, 14, 334-342.	1.6	7
110	Process Development for Adoptive Cell Therapy in Academia: A Pipeline for Clinical-Scale Manufacturing of Multiple TCR-T Cell Products. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
111	Hepatitis C Virus Replicons Volume 3 and 4. <i>Gastroenterology</i> , 2013, 144, 13-15.	0.6	5
112	Interaction and Mutual Activation of Different Innate Immune Cells Is Necessary to Kill and Clear Hepatitis C Virus-Infected Cells. <i>Frontiers in Immunology</i> , 2017, 8, 1238.	2.2	5
113	A Hepatitis C virus genotype 1b post-transplant isolate with high replication efficiency in cell culture and its adaptation to infectious virus production in vitro and in vivo. <i>PLoS Pathogens</i> , 2022, 18, e1010472.	2.1	5
114	In vitro replicative properties of replicons constructed using sequence variants of the hepatitis C virus strain AD78 that caused a single-source outbreak of hepatitis C. <i>Virus Research</i> , 2009, 142, 1-9.	1.1	4
115	PI4KIII inhibitor enviroxime impedes the replication of the hepatitis C virus by inhibiting PI3 kinases. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 3375-3384.	1.3	4
116	Evidence for Internal Initiation of RNA Synthesis by the Hepatitis C Virus RNA-Dependent RNA Polymerase NS5B In Cellulo. <i>Journal of Virology</i> , 2019, 93, .	1.5	4
117	The cyclophilin-inhibitor alisporivir stimulates antigen presentation thereby promoting antigen-specific CD8+ T cell activation. <i>Journal of Hepatology</i> , 2016, 64, 1305-1314.	1.8	3
118	The HCV Replicase Complex and Viral RNA Synthesis. , 2016, , 149-196.		1
119	The Replicon System as an Efficient Tool to Study HCV RNA Replication. , 2005, 25, 81-95.		0
120	Hepatitis C Virus Replication in Cell Culture. , 2004, , 108-122.		0