

Stephen J Polyak

List of Publications by Year in descending order

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81
papers

5,452
citations

76294

40
h-index

82499

72
g-index

94
all docs

94
docs citations

94
times ranked

7131
citing authors

#	ARTICLE	IF	CITATIONS
1	Arbidol as a broad-spectrum antiviral: An update. <i>Antiviral Research</i> , 2014, 107, 84-94.	1.9	375
2	Hepatitis C Virus Nonstructural 5A Protein Induces Interleukin-8, Leading to Partial Inhibition of the Interferon-Induced Antiviral Response. <i>Journal of Virology</i> , 2001, 75, 6095-6106.	1.5	285
3	Hepatitis C Virus NS5A Colocalizes with the Core Protein on Lipid Droplets and Interacts with Apolipoproteins. <i>Virology</i> , 2002, 292, 198-210.	1.1	269
4	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
5	Elevated Levels of Interleukin-8 in Serum Are Associated with Hepatitis C Virus Infection and Resistance to Interferon Therapy. <i>Journal of Virology</i> , 2001, 75, 6209-6211.	1.5	219
6	Inhibition of T-Cell Inflammatory Cytokines, Hepatocyte NF- κ B Signaling, and HCV Infection by Standardized Silymarin. <i>Gastroenterology</i> , 2007, 132, 1925-1936.	0.6	201
7	Uncovering biologically significant lipid isomers with liquid chromatography, ion mobility spectrometry and mass spectrometry. <i>Analyst, The</i> , 2016, 141, 1649-1659.	1.7	196
8	Multiple effects of silymarin on the hepatitis C virus lifecycle. <i>Hepatology</i> , 2010, 51, 1912-1921.	3.6	191
9	Myeloid suppressor cells induced by hepatitis C virus suppress T-cell responses through the production of reactive oxygen species. <i>Hepatology</i> , 2012, 55, 343-353.	3.6	176
10	A Crucial Role for Kupffer Cell-Derived Galectin-9 in Regulation of T Cell Immunity in Hepatitis C Infection. <i>PLoS ONE</i> , 2010, 5, e9504.	1.1	161
11	Subversion of Cell Signaling Pathways by Hepatitis C Virus Nonstructural 5A Protein via Interaction with Grb2 and P85 Phosphatidylinositol 3-Kinase. <i>Journal of Virology</i> , 2002, 76, 9207-9217.	1.5	155
12	Characterization of the effects of hepatitis C virus nonstructural 5A protein expression in human cell lines and on interferon-sensitive virus replication. <i>Hepatology</i> , 1999, 29, 1262-1271.	3.6	140
13	The Synthetic Antiviral Drug Arbidol Inhibits Globally Prevalent Pathogenic Viruses. <i>Journal of Virology</i> , 2016, 90, 3086-3092.	1.5	133
14	Naringenin inhibits the assembly and long-term production of infectious hepatitis C virus particles through a PPAR-mediated mechanism. <i>Journal of Hepatology</i> , 2011, 55, 963-971.	1.8	121
15	Hepatitis C virus induces oxidative stress, DNA damage and modulates the DNA repair enzyme NEIL1. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2010, 25, 627-634.	1.4	115
16	Silymarin Inhibits In Vitro T-Cell Proliferation and Cytokine Production in Hepatitis C Virus Infection. <i>Gastroenterology</i> , 2010, 138, 671-681.e2.	0.6	107
17	Hepatoprotective and antiviral functions of silymarin components in hepatitis C virus infection. <i>Hepatology</i> , 2013, 57, 1262-1271.	3.6	103
18	Direct, Interferon-Independent Activation of the CXCL10 Promoter by NF- κ B and Interferon Regulatory Factor 3 during Hepatitis C Virus Infection. <i>Journal of Virology</i> , 2014, 88, 1582-1590.	1.5	96

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19	Biochemical Mechanism of Hepatitis C Virus Inhibition by the Broad-Spectrum Antiviral Arbidol. <i>Biochemistry</i> , 2007, 46, 6050-6059.	1.2	80
20	<i>Artemisia annua</i> L. extracts inhibit the in vitro replication of SARS-CoV-2 and two of its variants. <i>Journal of Ethnopharmacology</i> , 2021, 274, 114016.	2.0	80
21	Arbidol: a broad-spectrum antiviral that inhibits acute and chronic HCV infection. <i>Virology Journal</i> , 2006, 3, 56.	1.4	77
22	The Antiviral Drug Arbidol Inhibits Zika Virus. <i>Scientific Reports</i> , 2018, 8, 8989.	1.6	77
23	Silibinin inhibits hepatitis C virus entry into hepatocytes by hindering clathrin-dependent trafficking. <i>Cellular Microbiology</i> , 2013, 15, n/a-n/a.	1.1	73
24	Arbidol inhibits viral entry by interfering with clathrin-dependent trafficking. <i>Antiviral Research</i> , 2013, 100, 215-219.	1.9	72
25	Regulation of CXCL-8 (Interleukin-8) Induction by Double-Stranded RNA Signaling Pathways during Hepatitis C Virus Infection. <i>Journal of Virology</i> , 2007, 81, 309-318.	1.5	71
26	Unique Features of Hepatitis C Virus Capsid Formation Revealed by De Novo Cell-Free Assembly. <i>Journal of Virology</i> , 2004, 78, 9257-9269.	1.5	65
27	Differential In Vitro Effects of Intravenous versus Oral Formulations of Silibinin on the HCV Life Cycle and Inflammation. <i>PLoS ONE</i> , 2011, 6, e16464.	1.1	62
28	CRISPR-Cas9 gene editing of hepatitis B virus in chronically infected humanized mice. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 20, 258-275.	1.8	62
29	<i>In Vitro</i> Toxicity Assessment of Amphiphilic Polymer-Coated CdSe/ZnS Quantum Dots in Two Human Liver Cell Models. <i>ACS Nano</i> , 2012, 6, 9475-9484.	7.3	58
30	Targeting clinical epigenetic reprogramming for chemoprevention of metabolic and viral hepatocellular carcinoma. <i>Gut</i> , 2021, 70, 157-169.	6.1	57
31	Molecular Pathways: Hepatitis C Virus, CXCL10, and the Inflammatory Road to Liver Cancer. <i>Clinical Cancer Research</i> , 2013, 19, 1347-1352.	3.2	56
32	Hepatitis C Virus-Specific Immune Responses and Quasi-Species Variability at Baseline Are Associated with Nonresponse to Antiviral Therapy during Advanced Hepatitis C. <i>Journal of Infectious Diseases</i> , 2006, 193, 931-940.	1.9	55
33	Silymarin for HCV infection. <i>Antiviral Therapy</i> , 2013, 18, 141-147.	0.6	55
34	Silymarin Suppresses Cellular Inflammation By Inducing Reparative Stress Signaling. <i>Journal of Natural Products</i> , 2015, 78, 1990-2000.	1.5	53
35	Effect of ethanol on innate antiviral pathways and HCV replication in human liver cells. <i>Virology Journal</i> , 2005, 2, 89.	1.4	51
36	Prospective Multicenter Clinical Evaluation of AMPLICOR and COBAS AMPLICOR Hepatitis C Virus Tests. <i>Journal of Clinical Microbiology</i> , 2001, 39, 4005-4012.	1.8	49

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37	Drug Combinations as a First Line of Defense against Coronaviruses and Other Emerging Viruses. <i>MBio</i> , 2021, 12, e0334721.	1.8	45
38	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
39	Effects of the Hepatitis C Virus Core Protein on Innate Cellular Defense Pathways. <i>Journal of Interferon and Cytokine Research</i> , 2004, 24, 391-402.	0.5	41
40	Expressed Gene Clusters Associated with Cellular Sensitivity and Resistance Towards Anti-viral and Anti-proliferative Actions of Interferon. <i>Journal of Molecular Biology</i> , 2004, 342, 833-846.	2.0	35
41	Relationships between Hepatitis C Virus Replication and CXCL-8 Production <i>In Vitro</i> . <i>Journal of Virology</i> , 2006, 80, 7885-7893.	1.5	34
42	Independent, parallel pathways to CXCL10 induction in HCV-infected hepatocytes. <i>Journal of Hepatology</i> , 2013, 59, 701-708.	1.8	33
43	Analyzing the Mechanisms of Interferon-Induced Apoptosis Using CrmA and Hepatitis C Virus NS5A. <i>Virology</i> , 2001, 281, 124-137.	1.1	30
44	Silibinin Inhibits HIV-1 Infection by Reducing Cellular Activation and Proliferation. <i>PLoS ONE</i> , 2012, 7, e41832.	1.1	30
45	A validated UHPLC-tandem mass spectrometry method for quantitative analysis of flavonolignans in milk thistle (<i>Silybum marianum</i>) extracts. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 126, 26-33.	1.4	29
46	A versatile ribosomal protein promoter-based reporter system for selective assessment of RNA stability and post-transcriptional control. <i>Rna</i> , 2010, 16, 1245-1255.	1.6	27
47	Enhanced bioactivity of silybin B methylation products. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 742-747.	1.4	27
48	Inhibition of Arenaviruses by Combinations of Orally Available Approved Drugs. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	27
49	Hepatitis C virusâ€“cell interactions and their role in pathogenesis. <i>Clinics in Liver Disease</i> , 2003, 7, 67-88.	1.0	25
50	Hepatitis C Virus Core Protein Inhibits Interferon Production by a Human Plasmacytoid Dendritic Cell Line and Dysregulates Interferon Regulatory Factor-7 and Signal Transducer and Activator of Transcription (STAT) 1 Protein Expression. <i>PLoS ONE</i> , 2014, 9, e95627.	1.1	23
51	The broad-spectrum antiviral drug arbidol inhibits foot-and-mouth disease virus genome replication. <i>Journal of General Virology</i> , 2019, 100, 1293-1302.	1.3	22
52	Enantioselective Synthesis, Stereochemical Correction, and Biological Investigation of the Rodgersinine Family of 1,4-Benzodioxane Neolignans. <i>Organic Letters</i> , 2015, 17, 1046-1049.	2.4	21
53	Metabolic syndrome and 10-year cardiovascular risk among HIV-positive and HIV-negative adults. <i>Medicine (United States)</i> , 2020, 99, e20845.	0.4	21
54	Hepatitis C Virus-Host Interactions: The NS5A Protein and the Interferon/Chemokine Systems. <i>Journal of Interferon and Cytokine Research</i> , 2002, 22, 1005-1012.	0.5	20

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55	Semisynthesis, cytotoxicity, antiviral activity, and drug interaction liability of 7-O-methylated analogues of flavonolignans from milk thistle. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3919-3926.	1.4	20
56	Natural Products as Tools for Defining How Cellular Metabolism Influences Cellular Immune and Inflammatory Function during Chronic Infection. <i>Viruses</i> , 2015, 7, 6218-6232.	1.5	20
57	Stability of CXCL8 and Related AU-Rich mRNAs in the Context of Hepatitis C Virus Replication In Vitro. <i>Journal of Infectious Diseases</i> , 2006, 193, 802-811.	1.9	19
58	Mono- and combinational drug therapies for global viral pandemic preparedness. <i>IScience</i> , 2022, 25, 104112.	1.9	19
59	Chemoselective fluorination and chemoinformatic analysis of griseofulvin: Natural vs fluorinated fungal metabolites. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5238-5246.	1.4	18
60	Engulfment of apoptotic cells expressing HCV proteins leads to differential chemokine expression and STAT signaling in human dendritic cells. <i>Hepatology</i> , 2007, 45, 1422-1432.	3.6	17
61	Silymarin suppresses basal and stimulus-induced activation, exhaustion, differentiation, and inflammatory markers in primary human immune cells. <i>PLoS ONE</i> , 2017, 12, e0171139.	1.1	15
62	Human Cytokine Analysis for Interferon Response. <i>Journal of Virology</i> , 2015, 89, 7108-7119.	1.5	14
63	1,4-Benzodioxane Lignans: An Efficient, Asymmetric Synthesis of Flavonolignans and Study of Neolignan Cytotoxicity and Antiviral Profiles. <i>Journal of Natural Products</i> , 2018, 81, 2630-2637.	1.5	14
64	Endothelial Dysfunction Is Related to Monocyte Activation in Antiretroviral-Treated People With HIV and HIV-Negative Adults in Kenya. <i>Open Forum Infectious Diseases</i> , 2020, 7, ofaa425.	0.4	13
65	Inhibition of HIV by Legalon-SIL is independent of its effect on cellular metabolism. <i>Virology</i> , 2014, 449, 96-103.	1.1	11
66	Postpartum metabolic syndrome after gestational hypertension and preeclampsia, a prospective cohort study. <i>Pregnancy Hypertension</i> , 2019, 18, 35-41.	0.6	11
67	Liver Abnormalities after Elimination of HCV Infection: Persistent Epigenetic and Immunological Perturbations Post-Cure. <i>Pathogens</i> , 2021, 10, 44.	1.2	11
68	Human Immunodeficiency Virus Is Associated With Higher Levels of Systemic Inflammation Among Kenyan Adults Despite Viral Suppression. <i>Clinical Infectious Diseases</i> , 2021, 73, e2034-e2042.	2.9	10
69	Antiretroviral therapy reduces but does not normalize immune and vascular inflammatory markers in adults with chronic HIV infection in Kenya. <i>Aids</i> , 2021, 35, 45-51.	1.0	10
70	Comparison of amplification enzymes for Hepatitis C Virus quasispecies analysis. <i>Virology Journal</i> , 2005, 2, 41.	1.4	9
71	Mechanisms of Endogenous HIV-1 Reactivation by Endocervical Epithelial Cells. <i>Journal of Virology</i> , 2020, 94, .	1.5	9
72	Functional Characterization of Core Genes from Patients with Acute Hepatitis C Virus Infection. <i>Journal of Infectious Diseases</i> , 2010, 201, 912-922.	1.9	7

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73	Postpartum metabolic syndrome and high-sensitivity C-reactive protein after gestational hypertension and pre-eclampsia. <i>International Journal of Gynecology and Obstetrics</i> , 2020, 151, 443-449.	1.0	6
74	Antiviral effects of silymarin against hepatitis C: The jury is still out. <i>Hepatology</i> , 2008, 48, 345-346.	3.6	5
75	Central obesity is a contributor to systemic inflammation and monocyte activation in virally suppressed adults with chronic HIV in Kenya. <i>Aids</i> , 2021, 35, 1723-1731.	1.0	3
76	Detection of Hepatitis C Virus RNA in Normal Cervical Smears. <i>Clinical Infectious Diseases</i> , 2003, 37, 314-314.	2.9	2
77	The circulatory orbit of micro-RNAs in hepatitis C. <i>Hepatology</i> , 2013, 58, 847-849.	3.6	1
78	Response of Human Liver Tissue to Innate Immune Stimuli. <i>Frontiers in Immunology</i> , 2022, 13, 811551.	2.2	1
79	Resistance of HBV and HCV to antiviral therapies. <i>Future Virology</i> , 2008, 3, 221-224.	0.9	0
80	The broad-spectrum antiviral drug arbidol inhibits foot-and-mouth disease virus replication. <i>Access Microbiology</i> , 2019, 1, .	0.2	0
81	Evaluation of the potential of botanicals and their constituents against the SARS-CoV-2 virus. <i>Planta Medica</i> , 2021, 87, .	0.7	0