Janka Petravic

List of Publications by Year
in descending order

74	1,398	304368	414034
papers	citations	22 h-index	32 g-index

77	77	77	1793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The search for an HIV cure: tackling latent infection. Lancet Infectious Diseases, The, 2013, 13, 614-621.	4.6	61
2	On the equilibrium calculation of the friction coefficient for liquid slip against a wall. Journal of Chemical Physics, 2007, 127, 174706.	1.2	58
3	Rates of HIV immune escape and reversion: implications for vaccination. Trends in Microbiology, 2008, 16, 561-566.	3.5	53
4	Cell-autonomous and environmental contributions to the interstitial migration of T cells. Seminars in Immunopathology, 2010, 32, 257-274.	2.8	53
5	Reexamination of string phase and shear thickening in simple fluids. Physical Review E, 2003, 68, 031201.	0.8	50
6	The global Optima HIV allocative efficiency model: targeting resources in efforts to end AIDS. Lancet HIV,the, 2018, 5, e190-e198.	2.1	48
7	The Dynamics of Naturally Acquired Immunity to Plasmodium falciparum Infection. PLoS Computational Biology, 2012, 8, e1002729.	1.5	46
8	Vaccination and Timing Influence SIV Immune Escape Viral Dynamics In Vivo. PLoS Pathogens, 2008, 4, e12.	2.1	43
9	Thermal conductivity of ethanol. Journal of Chemical Physics, 2005, 123, 174503.	1.2	41
10	Standard Trivalent Influenza Virus Protein Vaccination Does Not Prime Antibody-Dependent Cellular Cytotoxicity in Macaques. Journal of Virology, 2013, 87, 13706-13718.	1.5	41
11	Conductivity of molten sodium chloride and its supercritical vapor in strong dc electric fields. Journal of Chemical Physics, 2003, 118, 7477.	1.2	34
12	On the effects of assuming flow profiles in nonequilibrium simulations. Journal of Chemical Physics, 2003, 119, 11005-11010.	1.2	31
13	Does Cytolysis by CD8+ T Cells Drive Immune Escape in HIV Infection?. Journal of Immunology, 2010, 185, 5093-5101.	0.4	30
14	In Vivo Fitness Costs of Different Gag CD8 T-Cell Escape Mutant Simian-Human Immunodeficiency Viruses for Macaques. Journal of Virology, 2007, 81, 5418-5422.	1.5	29
15	How should HIV resources be allocated? Lessons learnt from applying Optima HIV in 23 countries. Journal of the International AIDS Society, 2018, 21, e25097.	1.2	29
16	Shear viscosity of molten sodium chloride. Journal of Chemical Physics, 2003, 118, 2783.	1.2	28
17	Linear response theory for thermal conductivity and viscosity in terms of boundary fluctuations. Physical Review E, 2005, 71, 061201.	0.8	28
18	Non-Newtonian behavior in simple fluids. Journal of Chemical Physics, 2004, 120, 6117-6123.	1.2	25

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19	Conductivity of molten sodium chloride in an arbitrarily weak dc electric field. Journal of Chemical Physics, 2005, 123, 114505.	1.2	25
20	CD8+ T Cell Control of HIVâ€"A Known Unknown. PLoS Pathogens, 2010, 6, e1000728.	2.1	25
21	Understanding the Relationship BetweenPlasmodium falciparumGrowth Rate and Multiplicity of Infection. Journal of Infectious Diseases, 2015, 211, 1121-1127.	1.9	25
22	The boundary fluctuation theory of transport coefficients in the linear-response limit. Journal of Chemical Physics, 2006, 124, 014103.	1.2	24
23	Limited CD4+ T cell proliferation leads to preservation of CD4+ T cell counts in SIV-infected sooty mangabeys. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3773-3781.	1.2	24
24	Optima Nutrition: an allocative efficiency tool to reduce childhood stunting by better targeting of nutrition-related interventions. BMC Public Health, 2018, 18, 384.	1.2	24
25	Is the Gut the Major Source of Virus in Early Simian Immunodeficiency Virus Infection?. Journal of Virology, 2009, 83, 7517-7523.	1.5	23
26	Nonlinear Response for Time-dependent External Fields. Physical Review Letters, 1997, 78, 1199-1202.	2.9	22
27	Shear thickening in a model colloidal suspension. Journal of Chemical Physics, 2005, 123, 074707.	1.2	22
28	Hydrogen bonding in ethanol under shear. Journal of Chemical Physics, 2005, 122, 234509.	1.2	22
29	CD4+ Target Cell Availability Determines the Dynamics of Immune Escape and Reversion In Vivo. Journal of Virology, 2008, 82, 4091-4101.	1.5	21
30	Simulation of two- and three-dimensional dense-fluid shear flows via nonequilibrium molecular dynamics: Comparison of time-and-space-averaged stresses from homogeneous Dollâ€™s and Sllod shear algorithms with those from boundary-driven shear. Physical Review E, 2008, 78, 046701.	0.8	21
31	An â€œEscape Clockâ€•for Estimating the Turnover of SIV DNA in Resting CD4+ T Cells. PLoS Pathogens, 2012, 8, e1002615.	2.1	21
32	Relationship between Measures of HIV Reactivation and Decline of the Latent Reservoir under Latency-Reversing Agents. Journal of Virology, 2017, 91, .	1.5	21
33	Decreased Growth Rate of P. falciparum Blood Stage Parasitemia With Age in a Holoendemic Population. Journal of Infectious Diseases, 2014, 209, 1136-1143.	1.9	20
34	Modeling the Timing of Antilatency Drug Administration during HIV Treatment. Journal of Virology, 2014, 88, 14050-14056.	1.5	19
35	Intracellular Dynamics of HIV Infection. Journal of Virology, 2014, 88, 1113-1124.	1.5	18
36	Influence of temperature, pressure and internal degrees of freedom on hydrogen bonding and diffusion in liquid ethanol. Chemical Physics, 2003, 286, 303-314.	0.9	17

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37	Trivalent Live Attenuated Influenza-Simian Immunodeficiency Virus Vaccines: Efficacy and Evolution of Cytotoxic T Lymphocyte Escape in Macaques. Journal of Virology, 2013, 87, 4146-4160.	1.5	17
38	Approach to the non-equilibrium time-periodic state in a â€˜steadyâ€™ shear flow model. Molecular Physics, 1998, 95, 219-231.	0.8	15
39	Estimating the Impact of Vaccination on Acute Simian-Human Immunodeficiency Virus/Simian Immunodeficiency Virus Infections. Journal of Virology, 2008, 82, 11589-11598.	1.5	15
40	Spatial Dependence of Viscosity and Thermal Conductivity through a Planar Interface. Journal of Physical Chemistry B, 2009, 113, 2059-2065.	1.2	15
41	Conductivity of molten sodium chloride in an alternating electric field. Journal of Chemical Physics, 2003, 119, 8511-8518.	1.2	13
42	Timing of Immune Escape Linked to Success or Failure of Vaccination. PLoS ONE, 2010, 5, e12774.	1.1	13
43	Correlation dimension of the sheared hard-disk Lorentz gas. Journal of Statistical Physics, 1994, 76, 1045-1063.	0.5	11
44	Equilibrium calculations of viscosity and thermal conductivity across a solid-liquid interface using boundary fluctuations. Journal of Chemical Physics, 2008, 128, 194710.	1.2	11
45	Nonlinear response for nonautonomous systems. Physical Review E, 1997, 56, 1207-1217.	0.8	10
46	Transport Coefficients of Xylene Isomers. Journal of Physical Chemistry B, 2002, 106, 13010-13017.	1.2	10
47	Complexity of the Inoculum Determines the Rate of Reversion of SIV Gag CD8 T Cell Mutant Virus and Outcome of Infection. PLoS Pathogens, 2009, 5, e1000378.	2.1	10
48	Acute systemic DNA damage in youth does not impair immune defense with aging. Aging Cell, 2016, 15, 686-693.	3.0	10
49	Measuring Turnover of SIV DNA in Resting CD4+ T Cells Using Pyrosequencing: Implications for the Timing of HIV Eradication Therapies. PLoS ONE, 2014, 9, e93330.	1.1	10
50	Shear stress relaxation in liquids. Journal of Chemical Physics, 2004, 120, 10188-10193.	1.2	9
51	Epitope-Specific CD8+T Cell Kinetics Rather than Viral Variability Determine the Timing of Immune Escape in Simian Immunodeficiency Virus Infection. Journal of Immunology, 2015, 194, 4112-4121.	0.4	9
52	The Kawasaki distribution function for nonautonomous systems. Physical Review E, 1998, 58, 2624-2627.	0.8	8
53	Cooperative effects, transport and entropy in simple liquids. Journal of Chemical Physics, 2004, 121, 11202.	1.2	7
54	Nonequilibrium Molecular Dynamics Simulations of Molten Sodium Chloride. International Journal of Thermophysics, 2004, 25, 1375-1393.	1.0	7

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55	Force autocorrelation function in linear response theory and the origin of friction. Journal of Chemical Physics, 2008, 129, 094503.	1.2	7
56	An equilibrium calculation of the thermal transport coefficients between two planes of arbitrary separation in a condensed phase. Journal of Chemical Physics, 2006, 124, 044512.	1.2	6
57	Density-Dependent Blood Stage Plasmodium falciparum Suppresses Malaria Super-Infection in a Malaria Holoendemic Population. American Journal of Tropical Medicine and Hygiene, 2013, 89, 850-856.	0.6	6
58	Homogeneous shear flow of a hard-sphere fluid: Analytic solutions. Physical Review E, 2003, 67, 021105.	0.8	5
59	Time dependence of phase variables in a steady shear flow algorithm. Physical Review E, 2005, 71, 011202.	0.8	5
60	Vaccination-Induced Noncytolytic Effects in the Acute Phase of SHIV Infection. PLoS ONE, 2010, 5, e15083.	1.1	5
61	Pressure tensor of the hard-disk Lorentz gas. Physical Review E, 1995, 51, 4309-4318.	0.8	4
62	Nonlinear Response for Time-Dependent External Fields: Shear Flow and Color Conductivity. International Journal of Thermophysics, 1998, 19, 1049-1062.	1.0	4
63	Influence of strain on transport in dense Lennard-Jones systems. Journal of Chemical Physics, 2004, 120, 7041-7049.	1.2	4
64	Colour conductivity of hard spheres. Molecular Physics, 2004, 102, 513-523.	0.8	4
65	Estimating the contribution of the gut to plasma viral load in early SIV infection. Retrovirology, 2013, 10, 105.	0.9	4
66	Crystal-melt coexistence under shear: Interpreting the nonlinear rheology. Journal of Chemical Physics, 2006, 125, 124502.	1.2	2
67	Equilibrium calculation of the friction coefficient for a massive particle moving in finite liquid volume. Journal of Chemical Physics, 2008, 129, 114502.	1.2	2
68	Simian-Human Immunodeficiency Infection â€“ Is the Course Set in the Acute Phase?. PLoS ONE, 2011, 6, e17180.	1.1	2
69	Simulating the entire natural course of HIV infection by extending the basic viral dynamics equations to include declining viral clearance. Pathogens and Disease, 2019, 77, .	0.8	2
70	Viscoelasticity and elastic aftereffect in an ideal crystal. Physical Review B, 2005, 72, .	1.1	1
71	Equivalence of nonequilibrium algorithms for simulations of planar Couette flow in confined fluids. Journal of Chemical Physics, 2007, 127, 204702.	1.2	1
72	Properties of isolated systems in external fields. Physical Review E, 2003, 68, 011104.	0.8	0

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73	P09-08. The complexity of the infecting inoculum determines the outcome of infection. Retrovirology, 2009, 6, P121.	0.9	0
74	Killer T cells not so deadly in HIV. Immunology and Cell Biology, 2010, 88, 233-234.	1.0	0