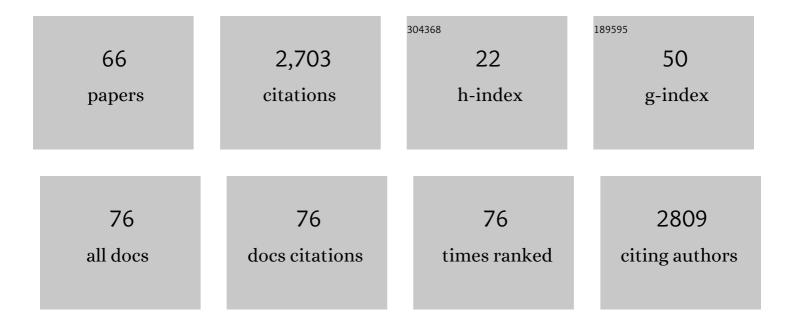
Jorge Velasco-Hernandez

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	A simple vaccination model with multiple endemic states. Mathematical Biosciences, 2000, 164, 183-201.	0.9	345
2	Competitive exclusion in a vector-host model for the dengue fever. Journal of Mathematical Biology, 1997, 35, 523-544.	0.8	286
3	Extinction Thresholds and Metapopulation Persistence in Dynamic Landscapes. American Naturalist, 2000, 156, 478-494.	1.0	264
4	Climate, environmental and socio-economic change: weighing up the balance in vector-borne disease transmission. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130551.	1.8	215
5	Could widespread use of combination antiretroviral therapy eradicate HIV epidemics?. Lancet Infectious Diseases, The, 2002, 2, 487-493.	4.6	183
6	In-host Mathematical Modelling of COVID-19 in Humans. Annual Reviews in Control, 2020, 50, 448-456.	4.4	163
7	Modeling behavioral change and COVID-19 containment in Mexico: A trade-off between lockdown and compliance. Mathematical Biosciences, 2020, 325, 108370.	0.9	143
8	A Model for Chagas Disease Involving Transmission by Vectors and Blood Transfusion. Theoretical Population Biology, 1994, 46, 1-31.	0.5	78
9	A mathematical model for coupling within-host and between-host dynamics in an environmentally-driven infectious disease. Mathematical Biosciences, 2013, 241, 49-55.	0.9	66
10	A model for coupling within-host and between-host dynamics in an infectious disease. Nonlinear Dynamics, 2012, 68, 401-411.	2.7	59
11	Evolution of dengue virus in Mexico is characterized by frequent lineage replacement. Archives of Virology, 2010, 155, 1401-1412.	0.9	55
12	Wavelet transform analysis for lithological characteristics identification in siliciclastic oil fields. Journal of Applied Geophysics, 2013, 98, 298-308.	0.9	53
13	Modelling the effect of treatment and behavioral change in HIV transmission dynamics. Journal of Mathematical Biology, 1994, 32, 233-249.	0.8	47
14	FEEDBACK CONTROL OF THE CHEMOTHERAPY OF HIV. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2207-2219.	0.7	42
15	Coupled within-host and between-host dynamics and evolution of virulence. Mathematical Biosciences, 2015, 270, 204-212.	0.9	36
16	An epidemiological model for the dynamics of Chagas' disease. BioSystems, 1991, 26, 127-134.	0.9	35
17	Effects of treatment and prevalence-dependent recruitment on the dynamics of a fatal disease. Mathematical Medicine and Biology, 1996, 13, 175-192.	0.8	33
18	Sex, Mosquitoes and Epidemics: An Evaluation of Zika Disease Dynamics. Bulletin of Mathematical Biology, 2016, 78, 2228-2242.	0.9	31

#	Article	IF	CITATIONS
19	On the Relationship Between Evolution of Virulence and Host Demography. Journal of Theoretical Biology, 1998, 192, 437-444.	0.8	30
20	The Use of Chemoprophylaxis after Floods to Reduce the Occurrence and Impact of Leptospirosis Outbreaks. International Journal of Environmental Research and Public Health, 2017, 14, 594.	1.2	30
21	An epidemiology model that includes a leaky vaccine with a general waning function. Discrete and Continuous Dynamical Systems - Series B, 2004, 4, 479-495.	0.5	29
22	Facies Recognition Using Multifractal Hurst Analysis: Applications to Well-Log Data. Mathematical Geosciences, 2013, 45, 471-486.	1.4	24
23	Using posterior predictive distributions to analyse epidemic models: COVID-19 in Mexico City. Physical Biology, 2020, 17, 065001.	0.8	21
24	Density-dependent dynamics and superinfection in an epidemic model. Mathematical Medicine and Biology, 1999, 16, 307-317.	0.8	20
25	Superinfection between Influenza and RSV Alternating Patterns in San Luis PotosÃ-State, México. PLoS ONE, 2015, 10, e0115674.	1.1	20
26	Peridomestic Infection as a Determining Factor of Dengue Transmission. PLoS Neglected Tropical Diseases, 2015, 9, e0004296.	1.3	20
27	A descriptive study of fracture networks in rocks using complex network metrics. Computers and Geosciences, 2016, 88, 97-114.	2.0	20
28	THE "UNHOLY―CHIKUNGUNYA–DENGUE–ZIKA TRINITY: A THEORETICAL ANALYSIS. Journal of Biological Systems, 2017, 25, 545-585.	0.5	19
29	Germination responses of annual plants to substrate type, rainfall, and temperature in a semi-arid inter-tropical region in Mexico. Journal of Arid Environments, 2006, 67, 416-427.	1.2	18
30	A methodology for the characterization of flow conductivity through the identification of communities in samples of fractured rocks. Expert Systems With Applications, 2014, 41, 811-820.	4.4	17
31	Community treatment of HIV-1: initial stage and asymptotic dynamics. BioSystems, 1995, 35, 75-81.	0.9	16
32	The role of animal grazing in the spread of Chagas disease. Journal of Theoretical Biology, 2018, 457, 19-28.	0.8	16
33	Early Outbreak of 2009 Influenza A (H1N1) in Mexico Prior to Identification of pH1N1 Virus. PLoS ONE, 2011, 6, e23853.	1.1	16
34	Lifting mobility restrictions and the effect of superspreading events on the short-term dynamics of COVID-19. Mathematical Biosciences and Engineering, 2020, 17, 6240-6258.	1.0	16
35	Transmission dynamics of two dengue serotypes with vaccination scenarios. Mathematical Biosciences, 2017, 287, 54-71.	0.9	15
36	Multistability in an open recruitment food web model. Applied Mathematics and Computation, 2005, 163, 275-294.	1.4	14

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37	Towards uncertainty quantification and inference in the stochastic SIR epidemic model. Mathematical Biosciences, 2012, 240, 250-259.	0.9	14
38	Introducing a Dengue Vaccine to Mexico: Development of a System for Evidence-Based Public Policy Recommendations. PLoS Neglected Tropical Diseases, 2014, 8, e3009.	1.3	14
39	A DFA approach in well-logs for the identification of facies associations. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 6015-6024.	1.2	10
40	Robust qualitative estimation of time-varying contact rates in uncertain epidemics. Epidemics, 2018, 24, 98-104.	1.5	10
41	Transmission dynamics of acute respiratory diseases in a population structured by age. Mathematical Biosciences and Engineering, 2019, 16, 7477-7493.	1.0	10
42	M-matrices and local stability in epidemic models. Mathematical and Computer Modelling, 2002, 36, 491-501.	2.0	9
43	Porosity and tortuosity relations as revealed by a mathematical model of biofilm structure. Journal of Theoretical Biology, 2005, 233, 245-251.	0.8	9
44	A prospective cohort study to evaluate peridomestic infection as a determinant of dengue transmission: Protocol. BMC Public Health, 2012, 12, 262.	1.2	9
45	Telegraphic double porosity models for head transient behavior in naturally fractured aquifers. Water Resources Research, 2013, 49, 4399-4408.	1.7	9
46	Threshold Parameters and Metapopulation Persistence. Bulletin of Mathematical Biology, 1999, 61, 341-353.	0.9	8
47	A method for aquifer identification in petroleum reservoirs: A case study of Puerto Ceiba oilfield. Journal of Petroleum Science and Engineering, 2012, 94-95, 55-65.	2.1	8
48	A model for the A(H1N1) epidemic in Mexico, including social isolation. Salud Publica De Mexico, 2011, 53, 40-47.	0.1	8
49	Coexistence in metacommunities: A tree-species model. Mathematical Biosciences, 2006, 202, 42-56.	0.9	6
50	The dynamics of technological change under constraints: Adopters and resources. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 3299-3317.	0.5	6
51	Detachment and diffusive-convective transport in an evolving heterogeneous two-dimensional biofilm hybrid model. Physical Review E, 2004, 70, 061909.	0.8	5
52	Model for breast cancer diversity and spatial heterogeneity. Physical Review E, 2018, 98, .	0.8	5
53	Habitat suitability and herbivore dynamics. BioSystems, 1994, 32, 37-47.	0.9	4
54	Coexistence in a Competitive Parasitoid-host System. Journal of Theoretical Biology, 2003, 221, 61-77.	0.8	4

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55	Bayesian deconvolution of oil well test data using Gaussian processes. Journal of Applied Statistics, 2016, 43, 721-737.	0.6	3
56	Pressure transient analysis with exponential and power law boundary flux. Journal of Petroleum Science and Engineering, 2014, 121, 149-158.	2.1	2
57	An exploration of pressure dynamics using differential equations defined on a fractal geometry. Computational and Applied Mathematics, 2018, 37, 1279-1293.	1.3	2
58	Sex-biased prevalence in infections with heterosexual, direct, and vector-mediated transmission: A theoretical analysis. Mathematical Biosciences and Engineering, 2017, 15, 125-140.	1.0	2
59	EQUILIBRIUM MULTIPLICITY IN A CARDIOVASCULAR SYSTEM MODEL. Journal of Biological Systems, 2006, 14, 445-461.	0.5	1
60	THEORETICAL STUDY OF A BIOFILM LIFE CYCLE: GROWTH, NUTRIENT DEPLETION AND DETACHMENT. , 2006, , .		1
61	MULTISTABILITY AND SUBTHRESHOLD ENDEMIC STATES IN A MODEL FOR THE DYNAMICS OF NONSTERILIZING HIV VACCINES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1741-1748.	0.7	0
62	SPATIOTEMPORAL DYNAMICS OF TELEGRAPH REACTION-DIFFUSION PREDATOR-PREY MODELS., 2013, , .		0
63	A positivity-preserving central-upwind scheme for isentropic two-phase flows through deviated pipes. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 1433-1457.	0.8	0
64	Application of Pattern Recognition Techniques to Hydrogeological Modeling of Mature Oilfields. Lecture Notes in Computer Science, 2011, , 85-94.	1.0	0
65	On carrying-capacity construction, metapopulations and density-dependent mortality. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 1099-1110.	0.5	0
66	Phenotypic Switching and Mutation in the Presence of a Biocide: No Replication of Phenotypic Variant. , 2008, , 221-242.		0