

# Vanja M Dukic

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55  
papers

1,447  
citations

23  
h-index

37  
g-index

58  
ext. papers

1,649  
ext. citations

4  
avg, IF

4.38  
L-index

#	Paper	IF	Citations
55	An Empirical Test of the Role of Small-Scale Transmission in Large-Scale Disease Dynamics. <i>American Naturalist</i> , <b>2020</b> , 195, 616-635	3.7	2
54	Stochasticity and Infectious Disease Dynamics: Density and Weather Effects on a Fungal Insect Pathogen. <i>American Naturalist</i> , <b>2020</b> , 195, 504-523	3.7	4
53	A note on species richness and the variance of epidemic severity. <i>Journal of Mathematical Biology</i> , <b>2020</b> , 80, 2055-2074	2	
52	Bayesian-based survival analysis: inferring time to death in host-pathogen interactions. <i>Environmental and Ecological Statistics</i> , <b>2019</b> , 26, 17-45	2.2	1
51	Tracking U.S. Pertussis Incidence: Correlation of Public Health Surveillance and Google Search Data Varies by State. <i>Scientific Reports</i> , <b>2019</b> , 9, 19801	4.9	2
50	Uncertainty quantification using probabilistic numerics: application to models in mathematical epidemiology. <i>Inverse Problems in Science and Engineering</i> , <b>2018</b> , 26, 223-232	1.3	1
49	A point process model for generating biofilms with realistic microstructure and rheology. <i>European Journal of Applied Mathematics</i> , <b>2018</b> , 29, 1141-1177	1	1
48	Flexible modeling of the hazard rate and treatment effects in long-term survival studies. <i>Statistical Methods in Medical Research</i> , <b>2017</b> , 26, 2455-2480	2.3	4
47	Eco-Evolutionary Theory and Insect Outbreaks. <i>American Naturalist</i> , <b>2017</b> , 189, 616-629	3.7	10
46	Recurring infection with ecologically distinct HPV types can explain high prevalence and diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13573-13578	11.5	36
45	Assessment of cookstove stacking in Northern Ghana using surveys and stove use monitors. <i>Energy for Sustainable Development</i> , <b>2016</b> , 34, 67-76	5.4	50
44	Research on Emissions, Air quality, Climate, and Cooking Technologies in Northern Ghana (REACTING): study rationale and protocol. <i>BMC Public Health</i> , <b>2015</b> , 15, 126	4.1	31
43	Using Weather Forecasts to Help Manage Meningitis in the West African Sahel. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 103-115	6.1	10
42	Alluvial response to the Paleocene-Eocene Thermal Maximum climatic event, Polecat Bench, Wyoming (U.S.A.). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2015</b> , 435, 177-192	2.9	36
41	Combining principal component analysis with parameter line-searches to improve the efficacy of Metropolis Hastings MCMC. <i>Environmental and Ecological Statistics</i> , <b>2015</b> , 22, 247-274	2.2	9
40	Effects of host heterogeneity on pathogen diversity and evolution. <i>Ecology Letters</i> , <b>2015</b> , 18, 1252-1261	10	24
39	Modeling the transmission of community-associated methicillin-resistant <i>Staphylococcus aureus</i> : a dynamic agent-based simulation. <i>Journal of Translational Medicine</i> , <b>2014</b> , 12, 124	8.5	39

38	The Impact of Climate Change on Meningitis in Northwest Nigeria: An Assessment Using CMIP5 Climate Model Simulations. <i>Weather, Climate, and Society</i> , <b>2014</b> , 6, 371-379	2.3	10
37	Climate Influences on Meningitis Incidence in Northwest Nigeria. <i>Weather, Climate, and Society</i> , <b>2014</b> , 6, 62-76	2.3	9
36	Nonconvulsive seizures in subarachnoid hemorrhage link inflammation and outcome. <i>Annals of Neurology</i> , <b>2014</b> , 75, 771-81	9.4	80
35	Survival Analysis with Electronic Health Record Data: Experiments with Chronic Kidney Disease. <i>Statistical Analysis and Data Mining</i> , <b>2014</b> , 7, 385-403	1.4	26
34	Pathogen growth in insect hosts: inferring the importance of different mechanisms using stochastic models and response-time data. <i>American Naturalist</i> , <b>2014</b> , 184, 407-23	3.7	15
33	Predicting Multivariate Insurance Loss Payments Under the Bayesian Copula Framework. <i>Journal of Risk and Insurance</i> , <b>2013</b> , 80, 891-919	1.3	29
32	Population-level differences in disease transmission: a Bayesian analysis of multiple smallpox epidemics. <i>Epidemics</i> , <b>2013</b> , 5, 146-56	5.1	11
31	Minimum correlation in construction of multivariate distributions. <i>Physical Review E</i> , <b>2013</b> , 87,	2.4	4
30	Epidemics of community-associated methicillin-resistant <i>Staphylococcus aureus</i> in the United States: a meta-analysis. <i>PLoS ONE</i> , <b>2013</b> , 8, e52722	3.7	89
29	A Bayesian non-linear model for forecasting insurance loss payments. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , <b>2012</b> , 175, 637-656	2.1	30
28	The Role of Weather in Meningitis Outbreaks in Navrongo, Ghana: A Generalized Additive Modeling Approach. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , <b>2012</b> , 17, 442-460	1.9	35
27	Who underreports smoking on birth records: a Monte Carlo predictive model with validation. <i>PLoS ONE</i> , <b>2012</b> , 7, e34853	3.7	20
26	Modeling the Short-Term Effect of Traffic and Meteorology on Air Pollution in Turin with Generalized Additive Models. <i>Advances in Meteorology</i> , <b>2012</b> , 2012, 1-16	1.7	19
25	Tracking Epidemics With Google Flu Trends Data and a State-Space SEIR Model. <i>Journal of the American Statistical Association</i> , <b>2012</b> , 107, 1410-1426	2.8	87
24	Detecting graded exposure effects: a report on an East Boston pregnancy cohort. <i>Nicotine and Tobacco Research</i> , <b>2012</b> , 14, 1115-20	4.9	17
23	Modeling the spread of community-associated MRSA <b>2012</b> ,		8
22	Unpacking the association: Individual differences in the relation of prenatal exposure to cigarettes and disruptive behavior phenotypes. <i>Neurotoxicology and Teratology</i> , <b>2011</b> , 33, 145-54	3.9	27
21	Internet queries and methicillin-resistant <i>Staphylococcus aureus</i> surveillance. <i>Emerging Infectious Diseases</i> , <b>2011</b> , 17, 1068-70	10.2	17

20	Internet Queries and Methicillin-Resistant <i>Staphylococcus aureus</i> Surveillance. <i>Emerging Infectious Diseases</i> , <b>2011</b> , 17, 1068-1070	10.2	23
19	Interaction of prenatal exposure to cigarettes and MAOA genotype in pathways to youth antisocial behavior. <i>Molecular Psychiatry</i> , <b>2010</b> , 15, 928-37	15.1	107
18	Calibrating self-reported measures of maternal smoking in pregnancy via bioassays using a Monte Carlo approach. <i>International Journal of Environmental Research and Public Health</i> , <b>2009</b> , 6, 1744-59	4.6	18
17	Comments on: Yin W, Di G, Zhou L, Lu J, Liu G, Wu J, Shen K, Han Q, Shen Z, Shao Z. Time-varying pattern of recurrence risk for Chinese breast cancer patients. <i>Breast Cancer Research and Treatment</i> , <b>2009</b> , 116, 209-10	4.4	5
16	Hazard of recurrence and adjuvant treatment effects over time in lymph node-negative breast cancer. <i>Breast Cancer Research and Treatment</i> , <b>2009</b> , 116, 595-602	4.4	87
15	The complex enterprise of modelling prenatal exposure to cigarettes: what is 'enough'? <i>Paediatric and Perinatal Epidemiology</i> , <b>2009</b> , 23, 160-70	2.7	15
14	A Multiresolution Hazard Model for Multicenter Survival Studies: Application to Tamoxifen Treatment in Early Stage Breast Cancer. <i>Journal of the American Statistical Association</i> , <b>2007</b> , 102, 1145-1157	2.8	5
13	Bayesian Hierarchical Multiresolution Hazard Model for the Study of Time-Dependent Failure Patterns in Early Stage Breast Cancer. <i>Bayesian Analysis</i> , <b>2007</b> , 2, 591-610	2.3	13
12	Modeling the relationship of cotinine and self-reported measures of maternal smoking during pregnancy: a deterministic approach. <i>Nicotine and Tobacco Research</i> , <b>2007</b> , 9, 453-65	4.9	25
11	Uncertainty in predictions of disease spread and public health responses to bioterrorism and emerging diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 15693-7	11.5	68
10	Analysis of repeated pregnancy outcomes. <i>Statistical Methods in Medical Research</i> , <b>2006</b> , 15, 103-26	2.3	59
9	Estimating transitions between symptom severity states over time in schizophrenia: a Bayesian meta-analytic approach. <i>Statistics in Medicine</i> , <b>2006</b> , 25, 2886-910	2.3	4
8	Research hurdles complicating the analysis of infertility treatment and child health. <i>Human Reproduction</i> , <b>2005</b> , 20, 12-8	5.7	60
7	Variance Estimation in a Model With Gaussian Submodels. <i>Journal of the American Statistical Association</i> , <b>2005</b> , 100, 296-309	2.8	5
6	Short-acting beta-agonist prescription fills as a marker for asthma morbidity. <i>Chest</i> , <b>2005</b> , 128, 602-8	5.3	53
5	Variance Estimation in a Model with Gaussian Sub-Models. <i>Journal of the American Statistical Association</i> , <b>2005</b> , 100, 296-309	2.8	3
4	Meta-analysis of diagnostic test accuracy assessment studies with varying number of thresholds. <i>Biometrics</i> , <b>2003</b> , 59, 936-46	1.8	73
3	A hierarchical Bayesian approach to modeling embryo implantation following in vitro fertilization. <i>Biostatistics</i> , <b>2002</b> , 3, 361-77	3.7	21

2	Modeling the Short-Term Effect of Traffic on Air Pollution in Torino with Generalized Additive Models. <i>SSRN Electronic Journal</i> ,	1	2
1	Tracking Flu Epidemics Using Google Flu Trends and Particle Learning. <i>SSRN Electronic Journal</i> ,	1	8