

# Robert C Spear

## List of Publications by Year in descending order

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105  
papers

3,647  
citations

109264

35  
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149623

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107  
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107  
docs citations

107  
times ranked

2329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the Local Determinants of SARS-CoV-2 Transmission and Control via an Exposure-Based Model. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1801-1810.	4.6	0
2	An Example of Augmenting Regional Sensitivity Analysis Using Machine Learning Software. <i>Water Resources Research</i> , 2020, 56, e2019WR026379.	1.7	8
3	Individual Versus Group Differences in Exposure and Risk. , 2020, , 283-295.		0
4	Modeling liver fluke transmission in northeast Thailand: Impacts of development, hydrology, and control. <i>Acta Tropica</i> , 2018, 188, 101-107.	0.9	7
5	Preliminary genetic evidence of two different populations of <i>Opisthorchis viverrini</i> in Lao PDR. <i>Parasitology Research</i> , 2017, 116, 1247-1256.	0.6	10
6	Review of "Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part B" Edited by Maria-Gloria BasÃ±ez and Roy M. Anderson. <i>Parasites and Vectors</i> , 2017, 10, 38.	1.0	7
7	Experimental and modelling investigations of <i>Opisthorchis viverrini</i> miracidia transmission over time and across temperatures: implications for control. <i>International Journal for Parasitology</i> , 2017, 47, 257-270.	1.3	12
8	Low Transmission to Elimination: Rural Development as a Key Determinant of the End-Game Dynamics of <i>Schistosoma japonicum</i> in China. <i>Tropical Medicine and Infectious Disease</i> , 2017, 2, 35.	0.9	4
9	The interplay of climate, intervention and imported cases as determinants of the 2014 dengue outbreak in Guangzhou. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005701.	1.3	31
10	Climate and the Timing of Imported Cases as Determinants of the Dengue Outbreak in Guangzhou, 2014: Evidence from a Mathematical Model. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004417.	1.3	72
11	Exposure versus Susceptibility as Alternative Bases for New Approaches to Surveillance for <i>Schistosoma japonicum</i> in Low Transmission Environments. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004425.	1.3	5
12	Associations between Schistosomiasis and the Use of Human Waste as an Agricultural Fertilizer in China. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003444.	1.3	19
13	Exploring the Contribution of Host Susceptibility to Epidemiological Patterns of <i>Schistosoma japonicum</i> Infection Using an Individual-Based Model. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 1245-1252.	0.6	4
14	Exploring the impact of infection-induced immunity on the transmission of <i>Schistosoma japonicum</i> in hilly and mountainous environments in China. <i>Acta Tropica</i> , 2014, 133, 8-14.	0.9	9
15	Evaluation of an educational intervention on villagers' knowledge, attitude and behaviour regarding transmission of <i>Schistosoma japonicum</i> in Sichuan province, China. <i>Acta Tropica</i> , 2013, 127, 226-235.	0.9	10
16	Repeated <i>Schistosoma japonicum</i> Infection Following Treatment in Two Cohorts: Evidence for Host Susceptibility to Helminthiasis?. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2098.	1.3	16
17	Commentary by Spear, R. on "Integration of Water, Sanitation, and Hygiene for the Prevention and Control of Neglected Tropical Diseases: A Rationale for Inter-Sectoral Collaboration: Can the Control of NTDs Profit from a Good WASH?". <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2473.	1.3	5
18	Internal versus external determinants of <i>Schistosoma japonicum</i> transmission in irrigated agricultural villages. <i>Journal of the Royal Society Interface</i> , 2012, 9, 272-282.	1.5	26

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19	Modeling the Combined Influence of Host Dispersal and Waterborne Fate and Transport on Pathogen Spread in Complex Landscapes. <i>Water Quality, Exposure, and Health</i> , 2012, 4, 159-168.	1.5	3
20	Polymorphic microsatellites in the human bloodfluke, <i>Schistosoma japonicum</i> , identified using a genomic resource. <i>Parasites and Vectors</i> , 2011, 4, 13.	1.0	15
21	The challenge of effective surveillance in moving from low transmission to elimination of schistosomiasis in China. <i>International Journal for Parasitology</i> , 2011, 41, 1243-1247.	1.3	59
22	Evaluation of Mammalian and Intermediate Host Surveillance Methods for Detecting Schistosomiasis Reemergence in Southwest China. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e987.	1.3	43
23	Toward Sustainable and Comprehensive Control of Schistosomiasis in China: Lessons from Sichuan. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1372.	1.3	42
24	Geographic and ecologic heterogeneity in elimination thresholds for the major vector-borne helminthic disease, lymphatic filariasis. <i>BMC Biology</i> , 2010, 8, 22.	1.7	67
25	Using variable importance measures from causal inference to rank risk factors of schistosomiasis infection in a rural setting in China. <i>Epidemiologic Perspectives and Innovations</i> , 2010, 7, 3.	7.0	9
26	Use of Ultrasonography to Evaluate <i>Schistosoma japonicum</i> -Related Morbidity in Children, Sichuan Province, China, 2000–2007. <i>American Journal of Tropical Medicine and Hygiene</i> , 2010, 82, 103-111.	0.6	7
27	The Impact of <i>Schistosoma japonicum</i> Infection and Treatment on Ultrasound-Detectable Morbidity: A Five-Year Cohort Study in Southwest China. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e685.	1.3	13
28	Parameter Estimation and Site-Specific Calibration of Disease Transmission Models. <i>Advances in Experimental Medicine and Biology</i> , 2010, 673, 99-111.	0.8	13
29	Model approaches for estimating the influence of time-varying socio-environmental factors on macroparasite transmission in two endemic regions. <i>Epidemics</i> , 2009, 1, 213-220.	1.5	20
30	Coupling Hydrologic and Infectious Disease Models To Explain Regional Differences in Schistosomiasis Transmission in Southwestern China. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2643-2649.	4.6	20
31	Model-Based Insights into Multi-Host Transmission and Control of Schistosomiasis. <i>PLoS Medicine</i> , 2008, 5, e23.	3.9	10
32	Environmental effects on parasitic disease transmission exemplified by schistosomiasis in western China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7110-7115.	3.3	108
33	Weather-driven dynamics of an intermediate host: mechanistic and statistical population modelling of <i>Oncomelania hupensis</i> . <i>Journal of Applied Ecology</i> , 2007, 44, 781-791.	1.9	23
34	A Spatial-Temporal Model for Assessing the Effects of Intervillage Connectivity in Schistosomiasis Transmission. <i>Annals of the American Association of Geographers</i> , 2006, 96, 31-46.	3.0	46
35	A multi-group model of <i>Schistosoma japonicum</i> transmission dynamics and control: model calibration and control prediction. <i>Tropical Medicine and International Health</i> , 2005, 10, 263-278.	1.0	58
36	A matched, case–control study of the association between <i>Schistosoma japonicum</i> and liver and colon cancers, in rural China. <i>Annals of Tropical Medicine and Parasitology</i> , 2005, 99, 47-52.	1.6	81

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37	Transport of <i>Schistosoma japonicum</i> cercariae and the feasibility of niclosamide for cercariae control. <i>Parasitology International</i> , 2005, 54, 83-89.	0.6	35
38	GENETIC AND HOUSEHOLD RISK FACTORS FOR SCHISTOSOMA JAPONICUM INFECTION IN THE PRESENCE OF LARGER SCALE ENVIRONMENTAL DIFFERENCES IN THE MOUNTAINOUS TRANSMISSION AREAS OF CHINA. <i>American Journal of Tropical Medicine and Hygiene</i> , 2005, 73, 1145-1150.	0.6	11
39	Genetic and household risk factors for <i>Schistosoma japonicum</i> infection in the presence of larger scale environmental differences in the mountainous transmission areas of China. <i>American Journal of Tropical Medicine and Hygiene</i> , 2005, 73, 1145-50.	0.6	6
40	Snail Density Prediction for Schistosomiasis Control Using Ikonos and ASTER Images. <i>Photogrammetric Engineering and Remote Sensing</i> , 2004, 70, 1285-1294.	0.3	39
41	FACTORS INFLUENCING THE TRANSMISSION OF SCHISTOSOMA JAPONICUM IN THE MOUNTAINS OF SICHUAN PROVINCE OF CHINA. <i>American Journal of Tropical Medicine and Hygiene</i> , 2004, 70, 48-56.	0.6	81
42	SPATIAL AND TEMPORAL VARIABILITY IN SCHISTOSOME CERCARIAL DENSITY DETECTED BY MOUSE BIOASSAYS IN VILLAGE IRRIGATION DITCHES IN SICHUAN, CHINA. <i>American Journal of Tropical Medicine and Hygiene</i> , 2004, 71, 554-557.	0.6	27
43	Factors influencing the transmission of <i>Schistosoma japonicum</i> in the mountains of Sichuan Province of China. <i>American Journal of Tropical Medicine and Hygiene</i> , 2004, 70, 48-56.	0.6	38
44	Spatial and temporal variability in schistosome cercarial density detected by mouse bioassays in village irrigation ditches in Sichuan, China. <i>American Journal of Tropical Medicine and Hygiene</i> , 2004, 71, 554-7.	0.6	16
45	Risk-Based Approach To Evaluate the Public Health Benefit of Additional Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1882-1891.	4.6	40
46	Comparison of Gray-Level Reduction and Different Texture Spectrum Encoding Methods for Land-Use Classification Using a Panchromatic Ikonos Image. <i>Photogrammetric Engineering and Remote Sensing</i> , 2003, 69, 529-536.	0.3	49
47	Estimating the distribution of worm burden and egg excretion of <i>Schistosoma japonicum</i> by risk group in Sichuan Province, China. <i>Parasitology</i> , 2002, 125, 221-31.	0.7	39
48	A quantitative framework for a multi-group model of <i>Schistosomiasis japonicum</i> transmission dynamics and control in Sichuan, China. <i>Acta Tropica</i> , 2002, 82, 263-277.	0.9	65
49	Disease transmission models for public health decision making: toward an approach for designing intervention strategies for <i>Schistosomiasis japonica</i> .. <i>Environmental Health Perspectives</i> , 2002, 110, 907-915.	2.8	74
50	Mathematical modeling in environmental health.. <i>Environmental Health Perspectives</i> , 2002, 110, A382.	2.8	5
51	Estimating Maximum Concentrations for Open Path Monitoring Along a Fixed Beam Path. <i>Journal of the Air and Waste Management Association</i> , 1999, 49, 424-433.	0.9	5
52	Examination of model uncertainty and parameter interaction in a global carbon cycling model (GLOCO). <i>Environment International</i> , 1999, 25, 787-803.	4.8	17
53	Hydrological studies of schistosomiasis transport in Sichuan Province, China. <i>Science of the Total Environment</i> , 1998, 216, 193-203.	3.9	36
54	Large simulation models: calibration, uniqueness and goodness of fit. <i>Environmental Modelling and Software</i> , 1997, 12, 219-228.	1.9	46

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55	Quantifying Water Pathogen Risk in an Epidemiological Framework. Risk Analysis, 1996, 16, 549-563.	1.5	74
56	Dynamic Model Comparing the Bionomics of Two Isolated Culex tarsalis (Diptera: Culicidae) Populations: Model Development. Journal of Medical Entomology, 1995, 32, 83-97.	0.9	21
57	Dynamic Model Comparing the Bionomics of Two Isolated Culex tarsalis (Diptera: Culicidae) Populations: Sensitivity Analysis. Journal of Medical Entomology, 1995, 32, 98-106.	0.9	12
58	Model parameter estimation and analysis: Understanding parametric structure. Annals of Biomedical Engineering, 1994, 22, 97-111.	1.3	4
59	Parameter uncertainty and interaction in complex environmental models. Water Resources Research, 1994, 30, 3159-3169.	1.7	135
60	Source identification for multiple chemical exposure using pattern recognition and classification techniques. Environmental Science & Technology, 1993, 27, 2430-2434.	4.6	3
61	The Economics of Reentry Regulation of Pesticides. American Journal of Agricultural Economics, 1993, 75, 946-958.	2.4	19
62	ANALYSIS OF ORGANIC VAPORS IN THE WORKPLACE BY REMOTE SENSING FOURIER TRANSFORM INFRARED SPECTROSCOPY. AIHA Journal, 1993, 54, 545-556.	0.4	17
63	A TASK-BASED STATISTICAL MODEL OF A WORKER'S EXPOSURE DISTRIBUTION: PART Iâ€”DESCRIPTION OF THE MODEL. AIHA Journal, 1993, 54, 211-220.	0.4	42
64	A TASK-BASED STATISTICAL MODEL OF A WORKER'S EXPOSURE DISTRIBUTION: PART IIâ€”APPLICATION TO SAMPLING STRATEGY. AIHA Journal, 1993, 54, 221-227.	0.4	26
65	A PROBABILITY MODEL FOR ASSESSING EXPOSURE AMONG RESPIRATOR WEARERS: PART Iâ€”DESCRIPTION OF THE MODEL. AIHA Journal, 1992, 53, 411-418.	0.4	9
66	A PROBABILITY MODEL FOR ASSESSING EXPOSURE AMONG RESPIRATOR WEARERS: PART IIâ€”OVEREXPOSURE TO CHRONIC VERSUS ACUTE TOXICANTS. AIHA Journal, 1992, 53, 419-426.	0.4	2
67	COMPARATIVE TESTING OF AN FTIR REMOTE OPTICAL SENSOR WITH AREA SAMPLERS IN A CONTROLLED VENTILATION CHAMBER. AIHA Journal, 1992, 53, 611-616.	0.4	18
68	Application of Mathematical Modeling for Ethylene Oxide Exposure Assessment. Journal of Occupational and Environmental Hygiene, 1992, 7, 744-748.	0.5	6
69	Structure and Parameterization of Pharmacokinetic Models: Their Impact on Model Predictions. Risk Analysis, 1992, 12, 189-201.	1.5	51
70	Mechanisms of benzene carcinogenesis: Application of a physiological model of benzene pharmacokinetics and metabolism. Toxicology Letters, 1991, 56, 283-298.	0.4	39
71	ENVIRONMENTAL VERSUS ANALYTICAL VARIABILITY IN EXPOSURE MEASUREMENTS. AIHA Journal, 1991, 52, 553-557.	0.4	44
72	Comparison of three physiologically based pharmacokinetic models of benzene disposition. Toxicology and Applied Pharmacology, 1991, 110, 79-88.	1.3	56

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73	Modeling Benzene Pharmacokinetics Across Three Sets of Animal Data: Parametric Sensitivity and Risk Implications. Risk Analysis, 1991, 11, 641-654.	1.5	63
74	Assessing Health Risks in the Presence of Variable Exposure and Uncertain Biological Effects. , 1991, , 315-325.		4
75	VARIABILITY IN PROTECTION AFFORDED BY HALF-MASK RESPIRATORS AGAINST STYRENE EXPOSURE IN THE FIELD. AIHA Journal, 1990, 51, 625-631.	0.4	23
76	Variability in Protection Afforded by Half-Mask Respirators Against Styrene Exposure in the Field. AIHA Journal, 1990, 51, 625-631.	0.4	1
77	OSHA's Permissible Exposure Limits: Regulatory Compliance Versus Health Risk. Risk Analysis, 1989, 9, 579-586.	1.5	22
78	PHYSIOLOGICAL DAMPING OF EXPOSURE VARIABILITY DURING BRIEF PERIODS. Annals of Occupational Hygiene, 1988, 32, 21-33.	1.9	29
79	Benzene Exposure in the Petroleum Refining Industry. Applied Industrial Hygiene, 1987, 2, 155-163.	0.1	42
80	A Note on the Assessment of Exposure Using One-Sided Tolerance Limits. AIHA Journal, 1987, 48, 89-93.	0.4	15
81	Integrating Uncertainty and Interindividual Variability in Environmental Risk Assessment. Risk Analysis, 1987, 7, 427-436.	1.5	142
82	A Video Imaging Technique for Assessing Dermal Exposure I. Instrument Design and Testing. AIHA Journal, 1986, 47, 764-770.	0.4	61
83	The influence of Averaging Time on the Distribution of Exposures. AIHA Journal, 1986, 47, 365-368.	0.4	27
84	A Video Imaging Technique for Assessing Dermal Exposure II. Fluorescent Tracer Testing. AIHA Journal, 1986, 47, 771-775.	0.4	65
85	Sister-chromatid exchanges in lymphocytes of anatomy students exposed to formaldehyde-embalming solution. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1986, 174, 135-139.	1.2	48
86	Neurotoxic esterase in rooster testis. Toxicology and Applied Pharmacology, 1985, 77, 175-180.	1.3	8
87	Estimation of Cumulative Exposures to Ethylene Oxide Associated with Hospital Sterilizer Operation. AIHA Journal, 1984, 45, 44-47.	0.4	2
88	Dynamic considerations for control of closed life support systems. Advances in Space Research, 1984, 4, 263-270.	1.2	10
89	A proportionate mortality analysis of California agricultural workers, 1978-1979. American Journal of Industrial Medicine, 1984, 6, 305-320.	1.0	53
90	Control of DO level in a river under uncertainty. Water Resources Research, 1983, 19, 1266-1270.	1.7	9

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91	Air sampling in the assessment of continuous exposures to acutely-toxic chemicals. Part I - Strategy. AIHA Journal, 1981, 42, 831-838.	0.4	14
92	Eutrophication in peel inletâ€”I. The problem-defining behavior and a mathematical model for the phosphorus scenario. Water Research, 1980, 14, 29-42.	5.3	149
93	Eutrophication in peel inletâ€”II. Identification of critical uncertainties via generalized sensitivity analysis. Water Research, 1980, 14, 43-49.	5.3	525
94	Worker reentry into pesticide-treated crops. I. Procedure for the determination of dislodgable pesticide residues on foliage. Bulletin of Environmental Contamination and Toxicology, 1977, 18, 649-655.	1.3	96
95	Morbidity Studies of Workers Exposed to Whole Body Vibration. Archives of Environmental Health, 1976, 31, 141-145.	0.4	21
96	Persistence of parathion and its oxidation to paraoxon on the soil surface as related to worker reentry into treated crops. Bulletin of Environmental Contamination and Toxicology, 1975, 14, 265-272.	1.3	31
97	The persistence of ethion and Zolone residues on grape foliage in the central valley of California. Archives of Environmental Contamination and Toxicology, 1975, 3, 40-54.	2.1	17
98	Parathion residues on citrus foliage. Decay and composition as related to worker hazard. Journal of Agricultural and Food Chemistry, 1975, 23, 808-810.	2.4	22
99	Collecting Foliar Pesticide Related to Potential Airborne Exposure of Workers. Environmental Science & Technology, 1975, 9, 583-585.	4.6	15
100	A dynamic model for studying the relationship between dose and exposure in carcinogenesis. Mathematical Biosciences, 1975, 26, 19-39.	0.9	5
101	Dynamic Systems Analysis in Interdisciplinary Research. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1975, 97, 17-18.	0.9	0
102	Preliminary Survey of Factors Affecting the Exposure of Harvesters to Pesticide Residues. AIHA Journal, 1974, 35, 374-380.	0.4	26
103	Parathion and diisopropylfluorophosphate (DFP) toxicity in partially hepatectomized rats. Toxicology and Applied Pharmacology, 1973, 26, 314-317.	1.3	8
104	Quality Control of Work Environments. AIHA Journal, 1971, 32, 546-551.	0.4	0
105	Monte Carlo method for component sizing. Journal of Spacecraft and Rockets, 1970, 7, 1127-1129.	1.3	3