

Robert C Spear

List of Publications by Year in descending order

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105
papers

3,647
citations

109264

35
h-index

149623

56
g-index

107
all docs

107
docs citations

107
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	Eutrophication in peel inlet—II. Identification of critical uncertainties via generalized sensitivity analysis. <i>Water Research</i> , 1980, 14, 43-49.	5.3	525
2	Eutrophication in peel inlet—I. The problem-defining behavior and a mathematical model for the phosphorus scenario. <i>Water Research</i> , 1980, 14, 29-42.	5.3	149
3	Integrating Uncertainty and Interindividual Variability in Environmental Risk Assessment. <i>Risk Analysis</i> , 1987, 7, 427-436.	1.5	142
4	Parameter uncertainty and interaction in complex environmental models. <i>Water Resources Research</i> , 1994, 30, 3159-3169.	1.7	135
5	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
6	Worker reentry into pesticide-treated crops. I. Procedure for the determination of dislodgable pesticide residues on foliage. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1977, 18, 649-655.	1.3	96
7	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
8	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	81
9	Quantifying Water Pathogen Risk in an Epidemiological Framework. <i>Risk Analysis</i> , 1996, 16, 549-563.	1.5	74
10	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
11	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
12	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
13	A Video Imaging Technique for Assessing Dermal Exposure II. Fluorescent Tracer Testing. <i>AIHA Journal</i> , 1986, 47, 771-775.	0.4	65
14	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
15	Modeling Benzene Pharmacokinetics Across Three Sets of Animal Data: Parametric Sensitivity and Risk Implications. <i>Risk Analysis</i> , 1991, 11, 641-654.	1.5	63
16	A Video Imaging Technique for Assessing Dermal Exposure I. Instrument Design and Testing. <i>AIHA Journal</i> , 1986, 47, 764-770.	0.4	61
17	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
18	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

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19	Comparison of three physiologically based pharmacokinetic models of benzene disposition. <i>Toxicology and Applied Pharmacology</i> , 1991, 110, 79-88.	1.3	56
20	A proportionate mortality analysis of California agricultural workers, 1978-1979. <i>American Journal of Industrial Medicine</i> , 1984, 6, 305-320.	1.0	53
21	Structure and Parameterization of Pharmacokinetic Models: Their Impact on Model Predictions. <i>Risk Analysis</i> , 1992, 12, 189-201.	1.5	51
22	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
23	Sister-chromatid exchanges in lymphocytes of anatomy students exposed to formaldehyde-embalming solution. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1986, 174, 135-139.	1.2	48
24	Large simulation models: calibration, uniqueness and goodness of fit. <i>Environmental Modelling and Software</i> , 1997, 12, 219-228.	1.9	46
25	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
26	ENVIRONMENTAL VERSUS ANALYTICAL VARIABILITY IN EXPOSURE MEASUREMENTS. <i>AIHA Journal</i> , 1991, 52, 553-557.	0.4	44
27	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
28	Benzene Exposure in the Petroleum Refining Industry. <i>Applied Industrial Hygiene</i> , 1987, 2, 155-163.	0.1	42
29	A TASK-BASED STATISTICAL MODEL OF A WORKER'S EXPOSURE DISTRIBUTION: PART I - DESCRIPTION OF THE MODEL. <i>AIHA Journal</i> , 1993, 54, 211-220.	0.4	42
30	Toward Sustainable and Comprehensive Control of Schistosomiasis in China: Lessons from Sichuan. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1372.	1.3	42
31	Risk-Based Approach To Evaluate the Public Health Benefit of Additional Wastewater Treatment. <i>Environmental Science & Technology</i> , 2003, 37, 1882-1891.	4.6	40
32	Mechanisms of benzene carcinogenesis: Application of a physiological model of benzene pharmacokinetics and metabolism. <i>Toxicology Letters</i> , 1991, 56, 283-298.	0.4	39
33	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
34	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
35	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
36	Hydrological studies of schistosomiasis transport in Sichuan Province, China. <i>Science of the Total Environment</i> , 1998, 216, 193-203.	3.9	36

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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	Persistence of parathion and its oxidation to paraoxon on the soil surface as related to worker reentry into treated crops. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1975, 14, 265-272.	1.3	31
39	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
40	PHYSIOLOGICAL DAMPING OF EXPOSURE VARIABILITY DURING BRIEF PERIODS. <i>Annals of Occupational Hygiene</i> , 1988, 32, 21-33.	1.9	29
41	The influence of Averaging Time on the Distribution of Exposures. <i>AIHA Journal</i> , 1986, 47, 365-368.	0.4	27
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	Preliminary Survey of Factors Affecting the Exposure of Harvesters to Pesticide Residues. <i>AIHA Journal</i> , 1974, 35, 374-380.	0.4	26
44	A TASK-BASED STATISTICAL MODEL OF A WORKER'S EXPOSURE DISTRIBUTION: PART II—APPLICATION TO SAMPLING STRATEGY. <i>AIHA Journal</i> , 1993, 54, 221-227.	0.4	26
45	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
46	VARIABILITY IN PROTECTION AFFORDED BY HALF-MASK RESPIRATORS AGAINST STYRENE EXPOSURE IN THE FIELD. <i>AIHA Journal</i> , 1990, 51, 625-631.	0.4	23
47	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
48	Parathion residues on citrus foliage. Decay and composition as related to worker hazard. <i>Journal of Agricultural and Food Chemistry</i> , 1975, 23, 808-810.	2.4	22
49	OSHA's Permissible Exposure Limits: Regulatory Compliance Versus Health Risk. <i>Risk Analysis</i> , 1989, 9, 579-586.	1.5	22
50	Morbidity Studies of Workers Exposed to Whole Body Vibration. <i>Archives of Environmental Health</i> , 1976, 31, 141-145.	0.4	21
51	Dynamic Model Comparing the Bionomics of Two Isolated <i>Culex tarsalis</i> (Diptera: Culicidae) Populations: Model Development. <i>Journal of Medical Entomology</i> , 1995, 32, 83-97.	0.9	21
52	Coupling Hydrologic and Infectious Disease Models To Explain Regional Differences in Schistosomiasis Transmission in Southwestern China. <i>Environmental Science & Technology</i> , 2008, 42, 2643-2649.	4.6	20
53	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
54	The Economics of Reentry Regulation of Pesticides. <i>American Journal of Agricultural Economics</i> , 1993, 75, 946-958.	2.4	19

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55	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
56	COMPARATIVE TESTING OF AN FTIR REMOTE OPTICAL SENSOR WITH AREA SAMPLERS IN A CONTROLLED VENTILATION CHAMBER. <i>AIHA Journal</i> , 1992, 53, 611-616.	0.4	18
57	The persistence of ethion and Zolone residues on grape foliage in the central valley of California. <i>Archives of Environmental Contamination and Toxicology</i> , 1975, 3, 40-54.	2.1	17
58	ANALYSIS OF ORGANIC VAPORS IN THE WORKPLACE BY REMOTE SENSING FOURIER TRANSFORM INFRARED SPECTROSCOPY. <i>AIHA Journal</i> , 1993, 54, 545-556.	0.4	17
59	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
60	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
61	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
62	Collecting Foliar Pesticide Related to Potential Airborne Exposure of Workers. <i>Environmental Science & Technology</i> , 1975, 9, 583-585.	4.6	15
63	A Note on the Assessment of Exposure Using One-Sided Tolerance Limits. <i>AIHA Journal</i> , 1987, 48, 89-93.	0.4	15
64	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
65	Air sampling in the assessment of continuous exposures to acutely-toxic chemicals. Part I - Strategy. <i>AIHA Journal</i> , 1981, 42, 831-838.	0.4	14
66	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
67	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
68	Dynamic Model Comparing the Bionomics of Two Isolated <i>Culex tarsalis</i> (Diptera: Culicidae) Populations: Sensitivity Analysis. <i>Journal of Medical Entomology</i> , 1995, 32, 98-106.	0.9	12
69	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
70	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
71	Dynamic considerations for control of closed life support systems. <i>Advances in Space Research</i> , 1984, 4, 263-270.	1.2	10
72	Evaluation of an educational intervention on villagers's™ 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

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73	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
74	Model-Based Insights into Multi-Host Transmission and Control of Schistosomiasis. <i>PLoS Medicine</i> , 2008, 5, e23.	3.9	10
75	Control of DO level in a river under uncertainty. <i>Water Resources Research</i> , 1983, 19, 1266-1270.	1.7	9
76	A PROBABILITY MODEL FOR ASSESSING EXPOSURE AMONG RESPIRATOR WEARERS: PART Iâ€”DESCRIPTION OF THE MODEL. <i>AIHA Journal</i> , 1992, 53, 411-418.	0.4	9
77	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
78	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
79	Parathion and diisopropylfluorophosphate (DFP) toxicity in partially hepatectomized rats. <i>Toxicology and Applied Pharmacology</i> , 1973, 26, 314-317.	1.3	8
80	Neurotoxic esterase in rooster testis. <i>Toxicology and Applied Pharmacology</i> , 1985, 77, 175-180.	1.3	8
81	An Example of Augmenting Regional Sensitivity Analysis Using Machine Learning Software. <i>Water Resources Research</i> , 2020, 56, e2019WR026379.	1.7	8
82	Use of Ultrasonography to Evaluate <i>Schistosoma japonicum</i> -Related Morbidity in Children, Sichuan Province, China, 2000â€”2007. <i>American Journal of Tropical Medicine and Hygiene</i> , 2010, 82, 103-111.	0.6	7
83	Review of â€œMathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part Bâ€”Edited by Maria-Gloria BasÃ¡ez and Roy M. Anderson. <i>Parasites and Vectors</i> , 2017, 10, 38.	1.0	7
84	Modeling liver fluke transmission in northeast Thailand: Impacts of development, hydrology, and control. <i>Acta Tropica</i> , 2018, 188, 101-107.	0.9	7
85	Application of Mathematical Modeling for Ethylene Oxide Exposure Assessment. <i>Journal of Occupational and Environmental Hygiene</i> , 1992, 7, 744-748.	0.5	6
86	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
87	A dynamic model for studying the relationship between dose and exposure in carcinogenesis. <i>Mathematical Biosciences</i> , 1975, 26, 19-39.	0.9	5
88	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
89	Mathematical modeling in environmental health.. <i>Environmental Health Perspectives</i> , 2002, 110, A382.	2.8	5
90	Commentary by Spear, R. on â€œIntegration of Water, Sanitation, and Hygiene for the Prevention and Control of Neglected Tropical Diseases: A Rationale for Inter-Sectoral Collaboration:â€”Can the Control of NTDs Profit from a Good WASH?. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2473.	1.3	5

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91	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
92	Model parameter estimation and analysis: Understanding parametric structure. <i>Annals of Biomedical Engineering</i> , 1994, 22, 97-111.	1.3	4
93	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
94	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
95	Assessing Health Risks in the Presence of Variable Exposure and Uncertain Biological Effects. , 1991, , 315-325.		4
96	Monte Carlo method for component sizing. <i>Journal of Spacecraft and Rockets</i> , 1970, 7, 1127-1129.	1.3	3
97	Source identification for multiple chemical exposure using pattern recognition and classification techniques. <i>Environmental Science & Technology</i> , 1993, 27, 2430-2434.	4.6	3
98	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
99	Estimation of Cumulative Exposures to Ethylene Oxide Associated with Hospital Sterilizer Operation. <i>AIHA Journal</i> , 1984, 45, 44-47.	0.4	2
100	A PROBABILITY MODEL FOR ASSESSING EXPOSURE AMONG RESPIRATOR WEARERS: PART II—OVEREXPOSURE TO CHRONIC VERSUS ACUTE TOXICANTS. <i>AIHA Journal</i> , 1992, 53, 419-426.	0.4	2
101	Variability in Protection Afforded by Half-Mask Respirators Against Styrene Exposure in the Field. <i>AIHA Journal</i> , 1990, 51, 625-631.	0.4	1
102	Quality Control of Work Environments. <i>AIHA Journal</i> , 1971, 32, 546-551.	0.4	0
103	Individual Versus Group Differences in Exposure and Risk. , 2020, , 283-295.		0
104	Exploring the Local Determinants of SARS-CoV-2 Transmission and Control via an Exposure-Based Model. <i>Environmental Science & Technology</i> , 2022, 56, 1801-1810.	4.6	0
105	Dynamic Systems Analysis in Interdisciplinary Research. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1975, 97, 17-18.	0.9	0