

Margaret L Brandeau

List of Publications by Year in descending order

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122
papers

4,769
citations

109321

35
h-index

110387

64
g-index

126
all docs

126
docs citations

126
times ranked

4490
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial Personalization of Medical Treatment Decisions: Adverse Effects and Possible Solutions. Medical Decision Making, 2022, 42, 0272989X2110137.	2.4	0
2	Personalization of Medical Treatment Decisions: Simplifying Complex Models while Maintaining Patient Health Outcomes. Medical Decision Making, 2022, 42, 450-460.	2.4	7
3	Assessing Interventions That Prevent Multiple Infectious Diseases: Simple Methods for Multidisease Modeling. Medical Decision Making, 2022, 42, 436-449.	2.4	1
4	Quantile Markov Decision Processes. Operations Research, 2022, 70, 1428-1447.	1.9	1
5	Responding to the opioid crisis in North America and beyond: recommendations of the Stanfordâ€“Lancet Commission. Lancet, The, 2022, 399, 555-604.	13.7	180
6	Analytics-Driven Capacity Management. , 2022, , 159-181.		0
7	Surveillance for endemic infectious disease outbreaks: Adaptive sampling using profile likelihood estimation. Statistics in Medicine, 2022, 41, 3336-3348.	1.6	1
8	When Is Mass Prophylaxis Cost-Effective for Epidemic Control? A Comparison of Decision Approaches. Medical Decision Making, 2022, 42, 1052-1063.	2.4	1
9	Metamodeling for Policy Simulations with Multivariate Outcomes. Medical Decision Making, 2022, 42, 872-884.	2.4	4
10	Health outcomes and cost-effectiveness of treating depression in people with HIV in Sub-Saharan Africa: a model-based analysis. AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV, 2021, 33, 441-447.	1.2	9
11	Estimation of COVID-19 basic reproduction ratio in a large urban jail in the United States. Annals of Epidemiology, 2021, 53, 103-105.	1.9	32
12	Effectiveness of interventions to reduce COVID-19 transmission in a large urban jail: a model-based analysis. BMJ Open, 2021, 11, e042898.	1.9	35
13	Optimal portfolios of blood safety interventions: test, defer or modify?. Health Care Management Science, 2021, 24, 551-568.	2.6	1
14	Predicting the Effectiveness of Endemic Infectious Disease Control Interventions: The Impact of Mass Action versus Network Model Structure. Medical Decision Making, 2021, 41, 623-640.	2.4	2
15	Effectiveness of Face Masks in Reducing the Spread of COVID-19: A Model-Based Analysis. Medical Decision Making, 2021, 41, 988-1003.	2.4	9
16	Modeling the Cost-Effectiveness of Interventions to Prevent Plague in Madagascar. Tropical Medicine and Infectious Disease, 2021, 6, 101.	2.3	6
17	Early detection of COVID-19 outbreaks using human mobility data. PLoS ONE, 2021, 16, e0253865.	2.5	19
18	Optimal allocation of limited vaccine to control an infectious disease: Simple analytical conditions. Mathematical Biosciences, 2021, 337, 108621.	1.9	24

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19	Effectiveness of Policies for Addressing the US Opioid Epidemic: A Model-Based Analysis from the Stanford-Lancet Commission on the North American Opioid Crisis. <i>The Lancet Regional Health Americas</i> , 2021, 3, 100031.	2.6	22
20	Cost-effectiveness of Treatments for Opioid Use Disorder. <i>JAMA Psychiatry</i> , 2021, 78, 767.	11.0	45
21	Who Are the Gatekeepers? An Examination of Diversity in INFORMS Journal Editorial Boards. <i>Service Science</i> , 2021, 13, 109-132.	1.3	1
22	Optimal allocation of limited vaccine to minimize the effective reproduction number. <i>Mathematical Biosciences</i> , 2021, 339, 108654.	1.9	9
23	Prevention and control of dengue and chikungunya in Colombia: A cost-effectiveness analysis. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0010086.	3.0	3
24	Health outcomes and cost-effectiveness of diversion programs for low-level drug offenders: A model-based analysis. <i>PLoS Medicine</i> , 2020, 17, e1003239.	8.4	16
25	Predicting and improving patient-level antibiotic adherence. <i>Health Care Management Science</i> , 2020, 23, 507-519.	2.6	4
26	Public Health Interventions with Harms and Benefits: A Graphical Framework for Evaluating Tradeoffs. <i>Medical Decision Making</i> , 2020, 40, 978-989.	2.4	1
27	Implementing Analytics Projects in a Hospital: Successes, Failures, and Opportunities. <i>Interfaces</i> , 2020, 50, 176-189.	1.5	17
28	Optimizing interventions across the HIV care continuum: A case study using process improvement analysis. <i>Operations Research for Health Care</i> , 2020, 25, 100258.	1.2	3
29	Personalizing Medical Treatment Decisions: Integrating Meta-analytic Treatment Comparisons with Patient-Specific Risks and Preferences. <i>Medical Decision Making</i> , 2019, 39, 998-1009.	2.4	5
30	Quantifying Positive Health Externalities of Disease Control Interventions: Modeling Chikungunya and Dengue. <i>Medical Decision Making</i> , 2019, 39, 1045-1058.	2.4	4
31	OR Forumâ€”Public Health Preparedness: Answering (Largely Unanswerable) Questions with Operations Researchâ€”The 2016â€”2017 Philip McCord Morse Lecture. <i>Operations Research</i> , 2019, 67, 700-710.	1.9	1
32	A modified HIV continuum of care: A six-year evaluation of a viral load cascade at a hospital-based clinic in Kingston, Jamaica. <i>International Journal of STD and AIDS</i> , 2019, 30, 748-755.	1.1	4
33	Improving the efficiency of the operating room environment with an optimization and machine learning model. <i>Health Care Management Science</i> , 2019, 22, 756-767.	2.6	83
34	Cost-effectiveness of alternative strategies for provision of HIV preexposure prophylaxis for people who inject drugs. <i>Aids</i> , 2018, 32, 663-672.	2.2	15
35	Optimal timing of drug sensitivity testing for patients on first-line tuberculosis treatment. <i>Health Care Management Science</i> , 2018, 21, 632-646.	2.6	14
36	Dynamic Learning of Patient Response Types: An Application to Treating Chronic Diseases. <i>Management Science</i> , 2018, 64, 3469-3488.	4.1	73

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37	Hierarchical modeling of seed variety yields and decision making for future planting plans. <i>Environment Systems and Decisions</i> , 2018, 38, 458-470.	3.4	11
38	Anticipated burden and mitigation of carbon-dioxide-induced nutritional deficiencies and related diseases: A simulation modeling study. <i>PLoS Medicine</i> , 2018, 15, e1002586.	8.4	40
39	Modeling Health Benefits and Harms of Public Policy Responses to the US Opioid Epidemic. <i>American Journal of Public Health</i> , 2018, 108, 1394-1400.	2.7	176
40	Optimizing patient treatment decisions in an era of rapid technological advances: the case of hepatitis C treatment. <i>Health Care Management Science</i> , 2017, 20, 16-32.	2.6	14
41	Risk stratification in compartmental epidemic models: Where to draw the line?. <i>Journal of Theoretical Biology</i> , 2017, 428, 1-17.	1.7	5
42	Dynamic treatment selection and modification for personalised blood pressure therapy using a Markov decision process model: a cost-effectiveness analysis. <i>BMJ Open</i> , 2017, 7, e018374.	1.9	7
43	Structural sensitivity in HIV modeling: A case study of vaccination. <i>Infectious Disease Modelling</i> , 2017, 2, 399-411.	1.9	7
44	Estimation of the cost-effectiveness of HIV prevention portfolios for people who inject drugs in the United States: A model-based analysis. <i>PLoS Medicine</i> , 2017, 14, e1002312.	8.4	53
45	Cost-effectiveness of malaria preventive treatment for HIV-infected pregnant women in sub-Saharan Africa. <i>Malaria Journal</i> , 2017, 16, 403.	2.3	7
46	Cost-Effectiveness of HIV Preexposure Prophylaxis for People Who Inject Drugs in the United States. <i>Annals of Internal Medicine</i> , 2016, 165, 10.	3.9	45
47	Modeling a dynamic bi-layer contact network of injection drug users and the spread of blood-borne infections. <i>Mathematical Biosciences</i> , 2016, 273, 102-113.	1.9	13
48	Creating impact with operations research in health: making room for practice in academia. <i>Health Care Management Science</i> , 2016, 19, 305-312.	2.6	11
49	Expansion of the National Salt Reduction Initiative. <i>Medical Decision Making</i> , 2016, 36, 72-85.	2.4	21
50	HIV Treatment and Prevention. <i>Medical Decision Making</i> , 2016, 36, 391-409.	2.4	22
51	Modeling and Calibration for Exposure to Time-Varying, Modifiable Risk Factors. <i>Medical Decision Making</i> , 2015, 35, 196-210.	2.4	6
52	Link removal for the control of stochastically evolving epidemics over networks: A comparison of approaches. <i>Journal of Theoretical Biology</i> , 2015, 371, 154-165.	1.7	17
53	Evaluating Cost-effectiveness of Interventions That Affect Fertility and Childbearing. <i>Medical Decision Making</i> , 2015, 35, 818-846.	2.4	40
54	Effectiveness and Cost Effectiveness of Oral Pre-Exposure Prophylaxis in a Portfolio of Prevention Programs for Injection Drug Users in Mixed HIV Epidemics. <i>PLoS ONE</i> , 2014, 9, e86584.	2.5	47

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55	Expanded HIV Testing in Low-Prevalence, High-Income Countries: A Cost-Effectiveness Analysis for the United Kingdom. PLoS ONE, 2014, 9, e95735.	2.5	26
56	HIV epidemic control—a model for optimal allocation of prevention and treatment resources. Health Care Management Science, 2014, 17, 162-181.	2.6	32
57	Too Much of a Good Thing? When to Stop Catch-Up Vaccination. Medical Decision Making, 2013, 33, 920-936.	2.4	15
58	REACH: A Practical HIV Resource Allocation Tool for Decision Makers. Profiles in Operations Research, 2013, , 201-223.	0.4	5
59	Decision Making for HIV Prevention and Treatment Scale up. Medical Decision Making, 2012, 32, 105-117.	2.4	30
60	Balancing Immunological Benefits and Cardiovascular Risks of Antiretroviral Therapy: When Is Immediate Treatment Optimal?. Clinical Infectious Diseases, 2012, 55, 1392-1399.	5.8	5
61	Optimal link removal for epidemic mitigation: A two-way partitioning approach. Mathematical Biosciences, 2012, 235, 138-147.	1.9	27
62	Are Organic Foods Safer or Healthier Than Conventional Alternatives?. Annals of Internal Medicine, 2012, 157, 348.	3.9	431
63	Cost Effectiveness of Screening Strategies for Early Identification of HIV and HCV Infection in Injection Drug Users. PLoS ONE, 2012, 7, e45176.	2.5	52
64	The Cost-Effectiveness of Preexposure Prophylaxis for HIV Prevention in the United States in Men Who Have Sex With Men. Annals of Internal Medicine, 2012, 156, 541.	3.9	186
65	Inferring model parameters in network-based disease simulation. Health Care Management Science, 2011, 14, 174-188.	2.6	12
66	Efficient stockpiling and shipping policies for humanitarian relief: UNHCR's inventory challenge. OR Spectrum, 2011, 33, 673-698.	3.4	25
67	Doing Good with Good OR: Supporting Cost-Effective Hepatitis B Interventions. Interfaces, 2011, 41, 289-300.	1.5	17
68	Effectiveness and Cost Effectiveness of Expanding Harm Reduction and Antiretroviral Therapy in a Mixed HIV Epidemic: A Modeling Analysis for Ukraine. PLoS Medicine, 2011, 8, e1000423.	8.4	122
69	Comparative Effectiveness of HIV Testing and Treatment in Highly Endemic Regions. Archives of Internal Medicine, 2010, 170, 1347.	3.8	59
70	The Cost-Effectiveness and Population Outcomes of Expanded HIV Screening and Antiretroviral Treatment in the United States. Annals of Internal Medicine, 2010, 153, 778.	3.9	158
71	Cost-effectiveness of nationwide hepatitis B catch-up vaccination among children and adolescents in China. Hepatology, 2010, 51, 405-414.	7.3	66
72	Cost-effective control of chronic viral diseases: Finding the optimal level of screening and contact tracing. Mathematical Biosciences, 2010, 224, 35-42.	1.9	25

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73	Optimal investment in HIV prevention programs: more is not always better. Health Care Management Science, 2009, 12, 27-37.	2.6	32
74	Recommendations for Modeling Disaster Responses in Public Health and Medicine: A Position Paper of the Society for Medical Decision Making. Medical Decision Making, 2009, 29, 438-460.	2.4	43
75	Modeling and simulation in public health: A little help can go a long way. , 2008, , .		0
76	The Cost-Effectiveness of Counseling Strategies to Improve Adherence to Highly Active Antiretroviral Therapy among Men Who Have Sex with Men. Medical Decision Making, 2008, 28, 359-376.	2.4	27
77	Infectious disease Control policy: A role for simulation. , 2008, , .		3
78	Modeling the Logistics of Response to Anthrax Bioterrorism. Medical Decision Making, 2008, 28, 332-350.	2.4	64
79	Controlling Co-Epidemics: Analysis of HIV and Tuberculosis Infection Dynamics. Operations Research, 2008, 56, 1366-1381.	1.9	45
80	An ounce of prevention is worth a pound of cure: Improving communication to reduce mortality during bioterrorism responses. American Journal of Disaster Medicine, 2008, 3, 65-78.	0.3	9
81	An ounce of prevention is worth a pound of cure: improving communication to reduce mortality during bioterrorism responses. American Journal of Disaster Medicine, 2008, 3, 65-78.	0.3	2
82	A Little Planning Goes a Long Way: Multilevel Allocation of HIV Prevention Resources. Medical Decision Making, 2007, 27, 71-81.	2.4	28
83	Cost-Effectiveness of Screening and Vaccinating Asian and Pacific Islander Adults for Hepatitis B. Annals of Internal Medicine, 2007, 147, 460.	3.9	139
84	Optimal mix of screening and contact tracing for endemic diseases. Mathematical Biosciences, 2007, 209, 386-402.	1.9	30
85	Contact tracing to control infectious disease: when enough is enough. Health Care Management Science, 2007, 10, 341-355.	2.6	89
86	Planning the bioterrorism response supply chain: learn and live. American Journal of Disaster Medicine, 2007, 2, 231-47.	0.3	3
87	Value of Quantitative D-dimer Assays in Identifying Pulmonary Embolism: Implications from a Sequential Decision Model. Academic Emergency Medicine, 2006, 13, 755-766.	1.8	16
88	Effectiveness and cost-effectiveness of strategies to expand antiretroviral therapy in St. Petersburg, Russia. Aids, 2006, 20, 2207-2215.	2.2	60
89	Reducing Mortality from Anthrax Bioterrorism: Strategies for Stockpiling and Dispensing Medical and Pharmaceutical Supplies. Biosecurity and Bioterrorism, 2006, 4, 244-262.	1.2	44
90	Improved Allocation of HIV Prevention Resources: Using Information About Prevention Program Production Functions. Health Care Management Science, 2005, 8, 19-28.	2.6	24

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91	Modeling Complex Medical Decision Problems with the Archimedes Model. <i>Annals of Internal Medicine</i> , 2005, 143, 303.	3.9	14
92	Resource allocation for control of infectious diseases in multiple independent populations: beyond cost-effectiveness analysis. <i>Journal of Health Economics</i> , 2003, 22, 575-598.	2.7	131
93	Optimal pricing for service facilities with self-optimizing customers. <i>European Journal of Operational Research</i> , 2002, 141, 39-57.	5.7	11
94	Dynamic resource allocation for epidemic control in multiple populations. <i>Ima Journal of Mathematics Applied in Medicine and Biology</i> , 2002, 19, 235-55.	0.0	19
95	Resource allocation for epidemic control over short time horizons. <i>Mathematical Biosciences</i> , 2001, 171, 33-58.	1.9	96
96	Cost minimization and workload balancing in printed circuit board assembly. <i>IIE Transactions</i> , 2001, 33, 547-557.	2.1	16
97	The cost-effectiveness of buprenorphine maintenance therapy for opiate addiction in the United States. <i>Addiction</i> , 2001, 96, 1267-1278.	3.3	118
98	Cost minimization and workload balancing in printed circuit board assembly. <i>IIE Transactions</i> , 2001, 33, 547-557.	2.1	6
99	AIDS policy modeling for the 21st century: an overview of key issues. , 2001, 4, 165-180.		21
100	Optimal Investment in a Portfolio of HIV Prevention Programs. <i>Medical Decision Making</i> , 2001, 21, 391-408.	2.4	72
101	Optimal Investment in a Portfolio of HIV Prevention Programs. <i>Medical Decision Making</i> , 2001, 21, 391-408.	2.4	4
102	Optimal Commonality in Component Design. <i>Operations Research</i> , 2000, 48, 1-19.	1.9	105
103	Methadone Maintenance and HIV Prevention: A Cost-Effectiveness Analysis. <i>Management Science</i> , 2000, 46, 1013-1031.	4.1	70
104	An Analysis of Optimal Resource Allocation for Prevention of Infection with Human Immunodeficiency Virus (HIV) in Injection Drug Users and Non-Users. <i>Medical Decision Making</i> , 1999, 19, 167-179.	2.4	54
105	Design of an Automated Shop Floor Material Handling System with Inventory Considerations. <i>Operations Research</i> , 1999, 47, 65-80.	1.9	8
106	Note. Optimal Storage Assignment Policies for Automated Storage and Retrieval Systems with Stochastic Demands. <i>Management Science</i> , 1998, 44, 142-148.	4.1	53
107	OR Modeling and AIDS Policy: From Theory to Practice. <i>Interfaces</i> , 1998, 28, 3-22.	1.5	16
108	Optimal Component Assignment and Board Grouping in Printed Circuit Board Manufacturing. <i>Operations Research</i> , 1998, 46, 675-689.	1.9	25

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109	Designing a Zoned Automated Guided Vehicle System with Multiple Vehicles and Multiple Load Capacity. <i>Operations Research</i> , 1997, 45, 857-873.	1.9	11
110	Designing A Single-Vehicle Automated Guided Vehicle System with Multiple Load Capacity. <i>Transportation Science</i> , 1996, 30, 351-363.	4.4	13
111	Stochastic Modeling for Automated Material Handling System Design and Control. <i>Transportation Science</i> , 1996, 30, 330-350.	4.4	44
112	Location of Competing Facilities in a User-Optimizing Environment with Market Externalities. <i>Transportation Science</i> , 1994, 28, 125-140.	4.4	21
113	An Analytic Model for Design and Analysis of Single-Vehicle Asynchronous Material Handling Systems. <i>Transportation Science</i> , 1994, 28, 337-353.	4.4	20
114	An Analytic Model for Design of a Multivehicle Automated Guided Vehicle System. <i>Management Science</i> , 1993, 39, 1477-1489.	4.1	45
115	Screening Women of Childbearing Age for Human Immunodeficiency Virus: A Model-Based Policy Analysis. <i>Management Science</i> , 1993, 39, 72-92.	4.1	46
116	A center location problem with congestion. <i>Annals of Operations Research</i> , 1992, 40, 17-32.	4.1	21
117	A Policy Model of Human Immunodeficiency Virus Screening and Intervention. <i>Interfaces</i> , 1991, 21, 5-25.	1.5	17
118	A Unified Family of Single-Server Queueing Location Models. <i>Operations Research</i> , 1990, 38, 1034-1044.	1.9	11
119	An Overview of Representative Problems in Location Research. <i>Management Science</i> , 1989, 35, 645-674.	4.1	430
120	Parametric Facility Location on a Tree Network with anLp-Norm Cost Function. <i>Transportation Science</i> , 1988, 22, 59-69.	4.4	24
121	The Workup of the Asymptomatic Patient with a Positive Fecal Occult Blood Test. <i>Medical Decision Making</i> , 1987, 7, 32-46.	2.4	23
122	An Integrated Budget Model for Medical School Financial Planning. <i>Operations Research</i> , 1987, 35, 684-703.	1.9	6