# 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 | Are Organic Foods Safer or Healthier Than Conventional Alternatives?. Annals of Internal Medicine, 2012, 157, 348. | 3.9 | 431 |
| 2 | An Overview of Representative Problems in Location Research. Management Science, 1989, 35, 645-674. | 4.1 | 430 |
| 3 | 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 |
| 4 | 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 |
| 5 | Modeling Health Benefits and Harms of Public Policy Responses to the US Opioid Epidemic. American Journal of Public Health, 2018, 108, 1394-1400. | 2.7 | 176 |
| 6 | 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 |
| 7 | Cost-Effectiveness of Screening and Vaccinating Asian and Pacific Islander Adults for Hepatitis B. Annals of Internal Medicine, 2007, 147, 460. | 3.9 | 139 |
| 8 | Resource allocation for control of infectious diseases in multiple independent populations: beyond cost-effectiveness analysis. Journal of Health Economics, 2003, 22, 575-598. | 2.7 | 131 |
| 9 | 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 |
| 10 | The cost-effectiveness of buprenorphine maintenance therapy for opiate addiction in the United States. Addiction, 2001, 96, 1267-1278. | 3.3 | 118 |
| 11 | Optimal Commonality in Component Design. Operations Research, 2000, 48, 1-19. | 1.9 | 105 |
| 12 | Resource allocation for epidemic control over short time horizons. Mathematical Biosciences, 2001, 171, 33-58. | 1.9 | 96 |
| 13 | Contact tracing to control infectious disease: when enough is enough. Health Care Management Science, 2007, 10, 341-355. | 2.6 | 89 |
| 14 | Improving the efficiency of the operating room environment with an optimization and machine learning model. Health Care Management Science, 2019, 22, 756-767. | 2.6 | 83 |
| 15 | Dynamic Learning of Patient Response Types: An Application to Treating Chronic Diseases. Management Science, 2018, 64, 3469-3488. | 4.1 | 73 |
| 16 | Optimal Investment in a Portfolio of HIV Prevention Programs. Medical Decision Making, 2001, 21, 391-408. | 2.4 | 72 |
| 17 | Methadone Maintenance and HIV Prevention: A Cost-Effectiveness Analysis. Management Science, 2000, 46, 1013-1031. | 4.1 | 70 |
| 18 | Cost-effectiveness of nationwide hepatitis B catch-up vaccination among children and adolescents in China. Hepatology, 2010, 51, 405-414. | 7.3 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Modeling the Logistics of Response to Anthrax Bioterrorism. Medical Decision Making, 2008, 28, 332-350. | 2.4 | 64 |
| 20 | Effectiveness and cost-effectiveness of strategies to expand antiretroviral therapy in St. Petersburg, Russia. Aids, 2006, 20, 2207-2215. | 2.2 | 60 |
| 21 | Comparative Effectiveness of HIV Testing and Treatment in Highly Endemic Regions. Archives of Internal Medicine, 2010, 170, 1347. | 3.8 | 59 |
| 22 | An Analysis of Optimal Resource Allocation for Prevention of Infection with Human Immunodeficiency Virus (HIV) in Injection Drug Users and Non-Users. Medical Decision Making, 1999, 19, 167-179. | 2.4 | 54 |
| 23 | Note. Optimal Storage Assignment Policies for Automated Storage and Retrieval Systems with Stochastic Demands. Management Science, 1998, 44, 142-148. | 4.1 | 53 |
| 24 | Estimation of the cost-effectiveness of HIV prevention portfolios for people who inject drugs in the United States: A model-based analysis. PLoS Medicine, 2017, 14, e1002312. | 8.4 | 53 |
| 25 | 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 |
| 26 | Effectiveness and Cost Effectiveness of Oral Pre-Exposure Prophylaxis in a Portfolio of Prevention Programs for Injection Drug Users in Mixed HIV Epidemics. PLoS ONE, 2014, 9, e86584. | 2.5 | 47 |
| 27 | Screening Women of Childbearing Age for Human Immunodeficiency Virus: A Model-Based Policy Analysis. Management Science, 1993, 39, 72-92. | 4.1 | 46 |
| 28 | An Analytic Model for Design of a Multivehicle Automated Guided Vehicle System. Management Science, 1993, 39, 1477-1489. | 4.1 | 45 |
| 29 | Controlling Co-Epidemics: Analysis of HIV and Tuberculosis Infection Dynamics. Operations Research, 2008, 56, 1366-1381. | 1.9 | 45 |
| 30 | Cost-Effectiveness of HIV Preexposure Prophylaxis for People Who Inject Drugs in the United States. Annals of Internal Medicine, 2016, 165, 10. | 3.9 | 45 |
| 31 | Cost-effectiveness of Treatments for Opioid Use Disorder. JAMA Psychiatry, 2021, 78, 767. | 11.0 | 45 |
| 32 | Stochastic Modeling for Automated Material Handling System Design and Control. Transportation Science, 1996, 30, 330-350. | 4.4 | 44 |
| 33 | Reducing Mortality from Anthrax Bioterrorism: Strategies for Stockpiling and Dispensing Medical and Pharmaceutical Supplies. Biosecurity and Bioterrorism, 2006, 4, 244-262. | 1.2 | 44 |
| 34 | 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 |
| 35 | Evaluating Cost-effectiveness of Interventions That Affect Fertility and Childbearing. Medical Decision Making, 2015, 35, 818-846. | 2.4 | 40 |
| 36 | Anticipated burden and mitigation of carbon-dioxide-induced nutritional deficiencies and related diseases: A simulation modeling study. PLoS Medicine, 2018, 15, e1002586. | 8.4 | 40 |

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| 37 | 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 |
| 38 | Optimal investment in HIV prevention programs: more is not always better. Health Care Management Science, 2009, 12, 27-37. | 2.6 | 32 |
| 39 | HIV epidemic controlâ€"a model for optimal allocation of prevention and treatment resources. Health Care Management Science, 2014, 17, 162-181. | 2.6 | 32 |
| 40 | 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 |
| 41 | Optimal mix of screening and contact tracing for endemic diseases. Mathematical Biosciences, 2007, 209, 386-402. | 1.9 | 30 |
| 42 | Decision Making for HIV Prevention and Treatment Scale up. Medical Decision Making, 2012, 32, 105-117. | 2.4 | 30 |
| 43 | A Little Planning Goes a Long Way: Multilevel Allocation of HIV Prevention Resources. Medical Decision Making, 2007, 27, 71-81. | 2.4 | 28 |
| 44 | 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 |
| 45 | Optimal link removal for epidemic mitigation: A two-way partitioning approach. Mathematical Biosciences, 2012, 235, 138-147. | 1.9 | 27 |
| 46 | 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 |
| 47 | Optimal Component Assignment and Board Grouping in Printed Circuit Board Manufacturing. Operations Research, 1998, 46, 675-689. | 1.9 | 25 |
| 48 | 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 |
| 49 | Efficient stockpiling and shipping policies for humanitarian relief: UNHCRâ€™s inventory challenge. OR Spectrum, 2011, 33, 673-698. | 3.4 | 25 |
| 50 | Parametric Facility Location on a Tree Network with anLp-Norm Cost Function. Transportation Science, 1988, 22, 59-69. | 4.4 | 24 |
| 51 | Improved Allocation of HIV Prevention Resources: Using Information About Prevention Program Production Functions. Health Care Management Science, 2005, 8, 19-28. | 2.6 | 24 |
| 52 | Optimal allocation of limited vaccine to control an infectious disease: Simple analytical conditions. Mathematical Biosciences, 2021, 337, 108621. | 1.9 | 24 |
| 53 | The Workup of the Asymptomatic Patient with a Positive Fecal Occult Blood Test. Medical Decision Making, 1987, 7, 32-46. | 2.4 | 23 |
| 54 | HIV Treatment and Prevention. Medical Decision Making, 2016, 36, 391-409. | 2.4 | 22 |

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|---|---|---|---|
| 55 | Effectiveness of Policies for Addressing the US Opioid Epidemic: A Model-Based Analysis from the Stanford-Lancet Commission on the North American Opioid Crisis. The Lancet Regional Health Americas, 2021, 3, 100031. | 2.6 | 22 |
| 56 | A center location problem with congestion. Annals of Operations Research, 1992, 40, 17-32. | 4.1 | 21 |
| 57 | Location of Competing Facilities in a User-Optimizing Environment with Market Externalities. Transportation Science, 1994, 28, 125-140. | 4.4 | 21 |
| 58 | AIDS policy modeling for the 21st century: an overview of key issues. , 2001, 4, 165-180. | | 21 |
| 59 | Expansion of the National Salt Reduction Initiative. Medical Decision Making, 2016, 36, 72-85. | 2.4 | 21 |
| 60 | An Analytic Model for Design and Analysis of Single-Vehicle Asynchronous Material Handling Systems. Transportation Science, 1994, 28, 337-353. | 4.4 | 20 |
| 61 | Early detection of COVID-19 outbreaks using human mobility data. PLoS ONE, 2021, 16, e0253865. | 2.5 | 19 |
| 62 | Dynamic resource allocation for epidemic control in multiple populations. Ima Journal of Mathemathics Applied in Medicine and Biology, 2002, 19, 235-55. | 0.0 | 19 |
| 63 | A Policy Model of Human Immunodeficiency Virus Screening and Intervention. Interfaces, 1991, 21, 5-25. | 1.5 | 17 |
| 64 | Doing Good with Good OR: Supporting Cost-Effective Hepatitis B Interventions. Interfaces, 2011, 41, 289-300. | 1.5 | 17 |
| 65 | Link removal for the control of stochastically evolving epidemics over networks: A comparison of approaches. Journal of Theoretical Biology, 2015, 371, 154-165. | 1.7 | 17 |
| 66 | Implementing Analytics Projects in a Hospital: Successes, Failures, and Opportunities. Interfaces, 2020, 50, 176-189. | 1.5 | 17 |
| 67 | OR Modeling and AIDS Policy: From Theory to Practice. Interfaces, 1998, 28, 3-22. | 1.5 | 16 |
| 68 | Cost minimization and workload balancing in printed circuit board assembly. IIE Transactions, 2001, 33, 547-557. | 2.1 | 16 |
| 69 | 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 |
| 70 | Health outcomes and cost-effectiveness of diversion programs for low-level drug offenders: A model-based analysis. PLoS Medicine, 2020, 17, e1003239. | 8.4 | 16 |
| 71 | Too Much of a Good Thing? When to Stop Catch-Up Vaccination. Medical Decision Making, 2013, 33, 920-936. | 2.4 | 15 |
| 72 | Cost-effectiveness of alternative strategies for provision of HIV preexposure prophylaxis for people who inject drugs. Aids, 2018, 32, 663-672. | 2.2 | 15 |

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| 73 | Modeling Complex Medical Decision Problems with the Archimedes Model. Annals of Internal Medicine, 2005, 143, 303. | 3.9 | 14 |
| 74 | Optimizing patient treatment decisions in an era of rapid technological advances: the case of hepatitis C treatment. Health Care Management Science, 2017, 20, 16-32. | 2.6 | 14 |
| 75 | Optimal timing of drug sensitivity testing for patients on first-line tuberculosis treatment. Health Care Management Science, 2018, 21, 632-646. | 2.6 | 14 |
| 76 | Designing A Single-Vehicle Automated Guided Vehicle System with Multiple Load Capacity. Transportation Science, 1996, 30, 351-363. | 4.4 | 13 |
| 77 | Modeling a dynamic bi-layer contact network of injection drug users and the spread of blood-borne infections. Mathematical Biosciences, 2016, 273, 102-113. | 1.9 | 13 |
| 78 | Inferring model parameters in network-based disease simulation. Health Care Management Science, 2011, 14, 174-188. | 2.6 | 12 |
| 79 | A Unified Family of Single-Server Queueing Location Models. Operations Research, 1990, 38, 1034-1044. | 1.9 | 11 |
| 80 | Optimal pricing for service facilities with self-optimizing customers. European Journal of Operational Research, 2002, 141, 39-57. | 5.7 | 11 |
| 81 | Creating impact with operations research in health: making room for practice in academia. Health Care Management Science, 2016, 19, 305-312. | 2.6 | 11 |
| 82 | Hierarchical modeling of seed variety yields and decision making for future planting plans. Environment Systems and Decisions, 2018, 38, 458-470. | 3.4 | 11 |
| 83 | Designing a Zoned Automated Guided Vehicle System with Multiple Vehicles and Multiple Load Capacity. Operations Research, 1997, 45, 857-873. | 1.9 | 11 |
| 84 | 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 |
| 85 | 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 |
| 86 | Optimal allocation of limited vaccine to minimize the effective reproduction number. Mathematical Biosciences, 2021, 339, 108654. | 1.9 | 9 |
| 87 | 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 |
| 88 | Design of an Automated Shop Floor Material Handling System with Inventory Considerations. Operations Research, 1999, 47, 65-80. | 1.9 | 8 |
| 89 | Dynamic treatment selection and modification for personalised blood pressure therapy using a Markov decision process model: a cost-effectiveness analysis. BMJ Open, 2017, 7, e018374. | 1.9 | 7 |
| 90 | Structural sensitivity in HIV modeling: A case study of vaccination. Infectious Disease Modelling, 2017, 2, 399-411. | 1.9 | 7 |

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| 91 | Cost-effectiveness of malaria preventive treatment for HIV-infected pregnant women in sub-Saharan Africa. Malaria Journal, 2017, 16, 403. | 2.3 | 7 |
| 92 | Personalization of Medical Treatment Decisions: Simplifying Complex Models while Maintaining Patient Health Outcomes. Medical Decision Making, 2022, 42, 450-460. | 2.4 | 7 |
| 93 | An Integrated Budget Model for Medical School Financial Planning. Operations Research, 1987, 35, 684-703. | 1.9 | 6 |
| 94 | Cost minimization and workload balancing in printed circuit board assembly. IIE Transactions, 2001, 33, 547-557. | 2.1 | 6 |
| 95 | Modeling and Calibration for Exposure to Time-Varying, Modifiable Risk Factors. Medical Decision Making, 2015, 35, 196-210. | 2.4 | 6 |
| 96 | Modeling the Cost-Effectiveness of Interventions to Prevent Plague in Madagascar. Tropical Medicine and Infectious Disease, 2021, 6, 101. | 2.3 | 6 |
| 97 | Balancing Immunological Benefits and Cardiovascular Risks of Antiretroviral Therapy: When Is Immediate Treatment Optimal?. Clinical Infectious Diseases, 2012, 55, 1392-1399. | 5.8 | 5 |
| 98 | Risk stratification in compartmental epidemic models: Where to draw the line?. Journal of Theoretical Biology, 2017, 428, 1-17. | 1.7 | 5 |
| 99 | Personalizing Medical Treatment Decisions: Integrating Meta-analytic Treatment Comparisons with Patient-Specific Risks and Preferences. Medical Decision Making, 2019, 39, 998-1009. | 2.4 | 5 |
| 100 | REACH: A Practical HIV Resource Allocation Tool for Decision Makers. Profiles in Operations Research, 2013, , 201-223. | 0.4 | 5 |
| 101 | Quantifying Positive Health Externalities of Disease Control Interventions: Modeling Chikungunya and Dengue. Medical Decision Making, 2019, 39, 1045-1058. | 2.4 | 4 |
| 102 | A modified HIV continuum of care: A six-year evaluation of a viral load cascade at a hospital-based clinic in Kingston, Jamaica. International Journal of STD and AIDS, 2019, 30, 748-755. | 1.1 | 4 |
| 103 | Predicting and improving patient-level antibiotic adherence. Health Care Management Science, 2020, 23, 507-519. | 2.6 | 4 |
| 104 | Optimal Investment in a Portfolio of HIV Prevention Programs. Medical Decision Making, 2001, 21, 391-408. | 2.4 | 4 |
| 105 | Metamodeling for Policy Simulations with Multivariate Outcomes. Medical Decision Making, 2022, 42, 872-884. | 2.4 | 4 |
| 106 | Infectious disease Control policy: A role for simulation. , 2008, , . | | 3 |
| 107 | Optimizing interventions across the HIV care continuum: A case study using process improvement analysis. Operations Research for Health Care, 2020, 25, 100258. | 1.2 | 3 |
| 108 | Planning the bioterrorism response supply chain: learn and live. American Journal of Disaster Medicine, 2007, 2, 231-47. | 0.3 | 3 |

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| 109 | Prevention and control of dengue and chikungunya in Colombia: A cost-effectiveness analysis. PLoS Neglected Tropical Diseases, 2021, 15, e0010086. | 3.0 | 3 |
| 110 | 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 |
| 111 | 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 |
| 112 | OR Forumâ€"Public Health Preparedness: Answering (Largely Unanswerable) Questions with Operations Researchâ€"The 2016â€“2017 Philip McCord Morse Lecture. Operations Research, 2019, 67, 700-710. | 1.9 | 1 |
| 113 | Public Health Interventions with Harms and Benefits: A Graphical Framework for Evaluating Tradeoffs. Medical Decision Making, 2020, 40, 978-989. | 2.4 | 1 |
| 114 | Optimal portfolios of blood safety interventions: test, defer or modify?. Health Care Management Science, 2021, 24, 551-568. | 2.6 | 1 |
| 115 | Assessing Interventions That Prevent Multiple Infectious Diseases: Simple Methods for Multidisease Modeling. Medical Decision Making, 2022, 42, 436-449. | 2.4 | 1 |
| 116 | Who Are the Gatekeepers? An Examination of Diversity in INFORMS Journal Editorial Boards. Service Science, 2021, 13, 109-132. | 1.3 | 1 |
| 117 | Quantile Markov Decision Processes. Operations Research, 2022, 70, 1428-1447. | 1.9 | 1 |
| 118 | Surveillance for endemic infectious disease outbreaks: Adaptive sampling using profile likelihood estimation. Statistics in Medicine, 2022, 41, 3336-3348. | 1.6 | 1 |
| 119 | When Is Mass Prophylaxis Cost-Effective for Epidemic Control? A Comparison of Decision Approaches. Medical Decision Making, 2022, 42, 1052-1063. | 2.4 | 1 |
| 120 | Modeling and simulation in public health: A little help can go a long way. , 2008, , . | | 0 |
| 121 | Partial Personalization of Medical Treatment Decisions: Adverse Effects and Possible Solutions. Medical Decision Making, 2022, 42, 0272989X2110137. | 2.4 | 0 |
| 122 | Analytics-Driven Capacity Management. , 2022, , 159-181. | | 0 |