Lawrence M Wein

List of Publications by Year
in descending order

87 papers	6,044 citations	81889 39 h-index	74160 75 g-index
87 all docs	87 docs citations	87 times ranked	3727 citing authors

#	Article	IF	Citations
1	Emergency response to a smallpox attack: The case for mass vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10935-10940.	7.1	401
2	Due-Date Setting and Priority Sequencing in a Multiclass M/G/1 Queue. Management Science, 1991, 37, 834-850.	4.1	384
3	A Broader View of the Job-Shop Scheduling Problem. Management Science, 1992, 38, 1018-1033.	4.1	371
4	Inventory Management of Remanufacturable Products. Management Science, 2000, 46, 1412-1426.	4.1	358
5	Analyzing a bioterror attack on the food supply: The case of botulinum toxin in milk. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9984-9989.	7.1	312
6	Emergency response to an anthrax attack. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4346-4351.	7.1	200
7	Scheduling Networks of Queues: Heavy Traffic Analysis of a Two-Station Closed Network. Operations Research, 1990, 38, 1052-1064.	1.9	180
8	Quantifying the Routes of Transmission for Pandemic Influenza. Bulletin of Mathematical Biology, 2008, 70, 820-867.	1.9	174
9	Scheduling networks of queues: Heavy traffic analysis of a simple open network. Queueing Systems, 1989, 5, 265-279.	0.9	157
10	Dynamic Scheduling of a Multiclass Make-to-Stock Queue. Operations Research, 1992, 40, 724-735.	1.9	139
11	Optimal Scheduling of Radiotherapy and Angiogenic Inhibitors. Bulletin of Mathematical Biology, 2003, 65, 407-424.	1.9	134
12	Validation and analysis of a mathematical model of a replication-competent oncolytic virus for cancer treatment: implications for virus design and delivery. Cancer Research, 2003, 63, 1317-24.	0.9	130
13	Scheduling Networks of Queues: Heavy Traffic Analysis of a Two-Station Network with Controllable Inputs. Operations Research, 1990, 38, 1065-1078.	1.9	128
14	Scheduling a Make-To-Stock Queue: Index Policies and Hedging Points. Operations Research, 1996, 44, 634-647.	1.9	128
15	Dynamic Allocation of Kidneys to Candidates on the Transplant Waiting List. Operations Research, 2000, 48, 549-569.	1.9	127
16	Analysis of a Forecasting-Production-Inventory System with Stationary Demand. Management Science, 2001, 47, 1268-1281.	4.1	124
17	Optimal Control of a Two-Station Tandem Production/Inventory System. Operations Research, 1994, 42, 337-350.	1.9	113
18	Pooled Testing for HIV Screening: Capturing the Dilution Effect. Operations Research, 1996, 44, 543-569.	1.9	109

#	ARTICLE	IF	CITATIONS
19	Mathematical Analysis of Antiretroviral Therapy Aimed at HIV-1 Eradication or Maintenance of Low Viral Loads. Journal of Theoretical Biology, 1998, 192, 81-98.	1.7	108
20	Analyzing bioterror response logistics: the case of smallpox. Mathematical Biosciences, 2003, 185, 33-72.	1.9	100
21	Dynamic Multidrug Therapies for HIV: A Control Theoretic Approach. Journal of Theoretical Biology, 1997, 185, 15-29.	1.7	95
22	Modeling and Analysis of a Virus that Replicates Selectively in Tumor Cells. Bulletin of Mathematical Biology, 2001, 63, 731-768.	1.9	92
23	Optimal Control of a Two-Station Brownian Network. Mathematics of Operations Research, 1990, 15, 215-242.	1.3	88
24	Preventing the Importation of Illicit Nuclear Materials in Shipping Containers. Risk Analysis, 2006, 26, 1377-1393.	2.7	81
25	Brownian Networks with Discretionary Routing. Operations Research, 1991, 39, 322-340.	1.9	80
26	Analysis of a Decentralized Production-Inventory System. Manufacturing and Service Operations Management, 2003, 5, 1-17.	3.7	76
27	Dynamic Scheduling of a Two-Class Queue with Setups. Operations Research, 1998, 46, 532-547.	1.9	72
28	Scheduling Networks of Queues: Heavy Traffic Analysis of a Multistation Network with Controllable Inputs. Operations Research, 1992, 40, S312-S334.	1.9	71
29	OR Forumâ€"Homeland Security: From Mathematical Models to Policy Implementation: The 2008 Philip McCord Morse Lecture. Operations Research, 2009, 57, 801-811.	1.9	71
30	Analysis of a three-way race between tumor growth, a replication-competent virus and an immune response. Bulletin of Mathematical Biology, 2004, 66, 605-625.	1.9	68
31	Analyzing Bioterror Response Logistics: The Case of Anthrax. Management Science, 2005, 51, 679-694.	4.1	67
32	Pooled testing for HIV prevalence estimation: exploiting the dilution effect. , 1998, 17, 1447-1467.		65
33	Heavy Traffic Analysis of the Dynamic Stochastic Inventory-Routing Problem. Transportation Science, 1999, 33, 361-380.	4.4	64
34	Using fingerprint image quality to improve the identification performance of the U.S. Visitor and Immigrant Status Indicator Technology Program. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7772-7775.	7.1	63
35	Analyzing Evacuation Versus Shelterâ€‑inâ€‑Place Strategies After a Terrorist Nuclear Detonation. Risk Analysis, 2010, 30, 1315-1327.	2.7	59
36	Evidence-based organ allocationâ^—â^—Access the â€œJournal Clubâ€•discussion of this paper at http://www.elsevier.com/locate/ajmselect/. American Journal of Medicine, 1999, 107, 52-61.	1.5	58

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37	Dynamic optimization of a linear–quadratic model with incomplete repair and volume-dependent sensitivity and repopulation. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1073-1083.	0.8	57
38	Monotone control of queueing networks. Queueing Systems, 1992, 12, 391-408.	0.9	55
39	Optimization of Influenza Vaccine Selection. Operations Research, 2005, 53, 456-476.	1.9	50
40	Optimal Stopping Analysis of a Radiation Detection System to Protect Cities from a Nuclear Terrorist Attack. Risk Analysis, 2008, 28, 353-371.	2.7	46
41	The Stochastic Economic Lot Scheduling Problem: Heavy Traffic Analysis of Dynamic Cyclic Policies. Operations Research, 2000, 48, 136-154.	1.9	42
42	Optimal screening and donor management in a public stool bank. Microbiome, 2015, 3, 75.	11.1	41
43	Setting Base Stock Levels Using Product-Form Queueing Networks. Management Science, 1996, 42, 259-268.	4.1	40
44	A Simple and Effective Component Procurement Policy for Stochastic Assembly Systems. Queueing Systems, 2001, 38, 221-248.	0.9	39
45	Scheduling Networks of Queues: Heavy Traffic Analysis of a Multistation Closed Network. Operations Research, 1993, 41, 743-758.	1.9	37
46	Assessing Infection Control Measures for Pandemic Influenza. Risk Analysis, 2009, 29, 949-962.	2.7	37
47	Heavy Traffic Analysis of Dynamic Cyclic Policies: A Unified Treatment of the Single Machine Scheduling Problem. Operations Research, 2001, 49, 246-270.	1.9	35
48	Revenue Management of a Make-to-Stock Queue. Operations Research, 2006, 54, 859-875.	1.9	35
49	A Dynamic Stochastic Stock-Cutting Problem. Operations Research, 1998, 46, 690-701.	1.9	32
50	The Last Line of Defense: Designing Radiation Detection-Interdiction Systems to Protect Cities From a Nuclear Terrorist Attack. IEEE Transactions on Nuclear Science, 2007, 54, 654-669.	2.0	31
51	Analyzing Approaches to the Backlog of Untested Sexual Assault Kits in the U.S.A.. Journal of Forensic Sciences, 2018, 63, 1110-1121.	1.6	31
52	HEPA/Vaccine Plan for Indoor Anthrax Remediation. Emerging Infectious Diseases, 2005, 11, 69-76.	4.3	28
53	Ready-to-use food-allocation policy to reduce the effects of childhood undernutrition in developing countries. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4545-4550.	7.1	25
54	Evaluation of Public Health Interventions for Anthrax: A Report to the Secretary's Council on Public Health Preparedness. Biosecurity and Bioterrorism, 2005, 3, 348-356.	1.2	23

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55	Exploring the Efficacy of Pooled Stools in Fecal Microbiota Transplantation for Microbiota-Associated Chronic Diseases. PLoS ONE, 2017, 12, e0163956.	2.5	23
56	Analyzing the Homeland Security of the U.S.â€'Mexico Border. Risk Analysis, 2009, 29, 699-713.	2.7	21
57	Heavy Traffic Analysis of Polling Systems in Tandem. Operations Research, 1999, 47, 524-534.	1.9	19
58	The Optimal Spatiotemporal Deployment of Radiation Portal Monitors Can Improve Nuclear Detection at Overseas Ports. Science and Global Security, 2007, 15, 211-233.	0.3	19
59	Management of Antiretroviral Therapy for HIV Infection: Modelling when to Change Therapy. Antiviral Therapy, 1998, 3, 147-158.	1.0	18
60	Smallpox Bioterror Response. Science, 2003, 300, 1503b-1504.	12.6	17
61	TECHNICAL NOTEâ€"Spatial Queueing Analysis of an Interdiction System to Protect Cities from a Nuclear Terrorist Attack. Operations Research, 2008, 56, 247-254.	1.9	17
62	Dynamic Scheduling of a Production/Inventory System with By-Products and Random Yield. Management Science, 1995, 41, 1000-1017.	4.1	15
63	Analyzing Screening Policies for Childhood Obesity. Management Science, 2013, 59, 782-795.	4.1	15
64	A mathematical model of the impact of infused targeted cytotoxic agents on brain tumours: implications for detection, design and delivery. Cell Proliferation, 2002, 35, 343-361.	5.3	14
65	Detecting Bioterror Attacks by Screening Blood Donors: A Best-Case Analysis. Emerging Infectious Diseases, 2003, 9, 909-914.	4.3	14
66	A Queueing Analysis to Determine How Many Additional Beds Are Needed for the Detention and Removal of Illegal Aliens. Management Science, 2008, 54, 1-15.	4.1	14
67	No Detectable Surge in SARS-CoV-2 Transmission Attributable to the April 7, 2020 Wisconsin Election. American Journal of Public Health, 2020, 110, 1169-1170.	2.7	14
68	Management of Antiretroviral Therapy for HIV Infection: Analyzing When to Change Therapy. Management Science, 2000, 46, 1200-1213.	4.1	12
69	A cost-effectiveness analysis of the number of samples to collect and test from a sexual assault. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13421-13427.	7.1	10
70	Assessing Screening Policies for Childhood Obesity. Obesity, 2012, 20, 1437-1443.	3.0	9
71	Assessing the Impact of U.S. Food Assistance Delivery Policies on Child Mortality in Northern Kenya. PLoS ONE, 2016, 11, e0168432.	2.5	9
72	The Impact of Processing Time Knowledge on Dynamic Job-Shop Scheduling. Management Science, 1991, 37, 1002-1014.	4.1	7

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73	An Effective Two-Finger, Two-Stage Biometric Strategy for the US-VISIT Program. Operations Research, 2009, 57, 1068-1081.	1.9	7
74	Asymptotic Biometric Analysis for Large Gallery Sizes. IEEE Transactions on Information Forensics and Security, 2010, 5, 955-964.	6.9	7
75	An Overlapping Networks Approach to Resource Allocation for Domestic Counterterrorism. Studies in Conflict and Terrorism, 2010, 33, 618-651.	1.3	5
76	Optimizing Ballistic Imaging Operations. Journal of Forensic Sciences, 2017, 62, 1188-1196.	1.6	4
77	Quantifying and Exploiting the Age Dependence in the Effect of Supplementary Food for Child Undernutrition. PLoS ONE, 2014, 9, e99632.	2.5	4
78	A Continuous-Class Queueing Model With Proportional Hazards-Based Routing. SSRN Electronic Journal, 0, , .	0.4	4
79	Asymptotically Optimal Control of a Centralized Dynamic Matching Market with General Utilities. Operations Research, 2022, 70, 3355-3370.	1.9	4
80	Analysing the nutrition-disease nexus: the case of malaria. Malaria Journal, 2015, 14, 479.	2.3	3
81	Assessing Risk-Based Policies for Pretrial Release and Split Sentencing in Los Angeles County Jails. PLoS ONE, 2015, 10, e0144967.	2.5	3
82	On the improvement from scheduling a two-station queueing network in heavy traffic. Operations Research Letters, 1992, 11, 225-232.	0.7	2
83	Using Spatial, Temporal and Evidence‑status Data to Improve Ballistic Imaging Performance. Journal of Forensic Sciences, 2014, 59, 103-111.	1.6	1
84	Detecting Bioterror Attack. Emerging Infectious Diseases, 2004, 10, 1505-1506.	4.3	1
85	Scheduling Networks of Queues: Heavy Traffic Analysis of a Bi-Criteria Problem. , 1994, , 281-323.		1
86	Decision Making for Bioterror Preparedness: Examples from Smallpox Vaccination Policy. , 2017, , 469-484.		0
87	Analyzing Personalized Policies for Online Biometric Verification. PLoS ONE, 2014, 9, e94087.	2.5	0