James C Benneyan

List of Publications by Year
in descending order

88 papers	**2,570** citations	257450 **24** h-index	214800 **47** g-index
95 all docs	**95** docs citations	**95** times ranked	**2495** citing authors

#	Article	IF	Citations
1	Statistical Control Charts Based on a Geometric Distribution. Journal of Quality Technology, 1992, 24, 63-69.	2.5	165
2	Impact of emulsion-based drug delivery systems on intestinal permeability and drug release kinetics. Journal of Controlled Release, 2010, 142, 22-30.	9.9	161
3	Timeliness of access to lung cancer diagnosis and treatment: A scoping literature review. Lung Cancer, 2017, 112, 156-164.	2.0	142
4	Access to specialty healthcare in urban versus rural US populations: a systematic literature review. BMC Health Services Research, 2019, 19, 974.	2.2	137
5	Foundations of Opioid Risk Management. Clinical Journal of Pain, 2007, 23, 103-118.	1.9	132
6	Statistical Quality Control Methods in Infection Control and Hospital Epidemiology, Part I: Introduction and Basic Theory. Infection Control and Hospital Epidemiology, 1998, 19, 194-214.	1.8	123
7	Predicting Emergency Department Inpatient Admissions to Improve Same‑day Patient Flow. Academic Emergency Medicine, 2012, 19, E1045-54.	1.8	109
8	Use and interpretation of statistical quality control charts. International Journal for Quality in Health Care, 1998, 10, 69-73.	1.8	105
9	National addictions vigilance intervention and prevention program (NAVIPPROâ„¢): a realâ€time, productâ€specific, public health surveillance system for monitoring prescription drug abuse. Pharmacoepidemiology and Drug Safety, 2008, 17, 1142-1154.	1.9	94
10	Statistical Quality Control Methods in Infection Control and Hospital Epidemiology, Part II: Chart Use, Statistical Properties, and Research Issues. Infection Control and Hospital Epidemiology, 1998, 19, 265-283.	1.8	92
11	Number-between g-type statistical quality control charts for monitoring adverse events. , 2001, 4, 305-318.		89
12	Statistical Quality Control Methods in Infection Control and Hospital Epidemiology, Part II: Chart Use, Statistical Properties, and Research Issues. Infection Control and Hospital Epidemiology, 1998, 19, 265-283.	1.8	88
13	Statistical Quality Control Methods in Infection Control and Hospital Epidemiology, Part I: Introduction and Basic Theory. Infection Control and Hospital Epidemiology, 1998, 19, 194-214.	1.8	72
14	Thresholds and accuracy in screening tools for early detection of psychopathology. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2015, 56, 936-948.	5.2	61
15	Performance of number-between g-type statistical control charts for monitoring adverse events. , 2001, 4, 319-336.		58
16	Controlling Methicillin-Resistant Staphylococcus aureus: A Feedback Approach Using Annotated Statistical Process Control Charts. Infection Control and Hospital Epidemiology, 2002, 23, 13-18.	1.8	56
17	Challenges And Opportunities For Improving Patient Safety Through Human Factors And Systems Engineering. Health Affairs, 2018, 37, 1862-1869.	5.2	53
18	Generalizability of a Simple Approach for Predicting Hospital Admission From an Emergency Department. Academic Emergency Medicine, 2013, 20, 1156-1163.	1.8	52

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19	Evaluation of a Patient-Centered Fall-Prevention Tool Kit to Reduce Falls and Injuries. JAMA Network Open, 2020, 3, e2025889.	5.9	52
20	Risk-adjusted sequential probability ratio tests and longitudinal surveillance methods. International Journal for Quality in Health Care, 2003, 15, 5-6.	1.8	49
21	Iterative user centered design for development of a patient-centered fall prevention toolkit. Applied Ergonomics, 2016, 56, 117-126.	3.1	37
22	Applying User-Centered Design Methods to the Development of an mHealth Application for Use in the Hospital Setting by Patients and Care Partners. Applied Clinical Informatics, 2018, 09, 302-312.	1.7	35
23	Specialty care single and multi-period location–allocation models within the Veterans Health Administration. Socio-Economic Planning Sciences, 2012, 46, 136-148.	5.0	34
24	The design, selection, and performance of statistical control charts for healthcare process improvement. International Journal of Six Sigma and Competitive Advantage, 2008, 4, 209.	0.4	31
25	Review of Research Trends and Methods in Nano Environmental, Health, and Safety Risk Analysis. Risk Analysis, 2016, 36, 1644-1665.	2.7	31
26	User-Centered Collaborative Design and Development of an Inpatient Safety Dashboard. Joint Commission Journal on Quality and Patient Safety, 2017, 43, 676-685.	0.7	29
27	Use, Perceived Usability, and Barriers to Implementation of a Patient Safety Dashboard Integrated within a Vendor EHR. Applied Clinical Informatics, 2020, 11, 034-045.	1.7	26
28	Characterizing the value of predictive analytics in facilitating hospital patient flow. IIE Transactions on Healthcare Systems Engineering, 2014, 4, 135-143.	0.8	24
29	Use of Binary Cumulative Sums and Moving Averages in Nosocomial Infection Cluster Detection1. Emerging Infectious Diseases, 2002, 8, 1426-1432.	4.3	23
30	Systems engineering and human factors support of a system of novel EHR-integrated tools to prevent harm in the hospital. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 553-560.	4.4	23
31	Performance of statistical process control methods for regional surgical site infection surveillance: a 10-year multicentre pilot study. BMJ Quality and Safety, 2018, 27, 600-610.	3.7	19
32	Assessing the efficiency of hospitals operating under a unique owner: a DEA application in the presence of missing data. International Journal of Services and Operations Management, 2010, 7, 53.	0.2	18
33	EWMA chart with curtailment for monitoring fraction nonconforming. Quality Technology and Quantitative Management, 2017, 14, 412-428.	1.9	18
34	A system dynamics model of clinical decision thresholds for the detection of developmental-behavioral disorders. Implementation Science, 2016, 11, 156.	6.9	16
35	Classifying Safety Events Related to Diagnostic Imaging From a Safety Reporting System Using a Human Factors Framework. Journal of the American College of Radiology, 2019, 16, 282-288.	1.8	15
36	Robust combined operating room planning and personnel scheduling under uncertainty. Operations Research for Health Care, 2020, 27, 100276.	1.2	15

#	ARTICLE	IF	CITATIONS
37	Engineering safer care coordination from hospital to home: lessons from the USA. Future Healthcare Journal, 2018, 5, 164-170.	1.4	14
38	Mixed-Methods Evaluation of Real-Time Safety Reporting by Hospitalized Patients and Their Care Partners: The MySafeCare Application. Journal of Patient Safety, 2020, 16, e75-e81.	1.7	14
39	Community and Campus COVID-19 Risk Uncertainty Under University Reopening Scenarios: Model-Based Analysis. JMIR Public Health and Surveillance, 2021, 7, e24292.	2.6	14
40	Health Systems Engineering as an Improvement Strategy: A Case Example Using Location-Allocation Modeling. Journal for Healthcare Quality: Official Publication of the National Association for Healthcare Quality, 2013, 35, 35-40.	0.7	13
41	Risk Analysis Modeling of Production Costs and Occupational Health Exposure of Single‐Wall Carbon Nanotube Manufacturing. Journal of Industrial Ecology, 2008, 12, 411-434.	5.5	12
42	Exact and approximate probability distributions of evidence-based bundle composite compliance measures. Health Care Management Science, 2010, 13, 193-209.	2.6	10
43	Can improved specialty access moderate emergency department overuse?. Neurology: Clinical Practice, 2016, 6, 498-505.	1.6	10
44	Lessons learned implementing a complex and innovative patient safety learning laboratory project in a large academic medical center. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 301-307.	4.4	10
45	Large-scale empirical optimisation of statistical control charts to detect clinically relevant increases in surgical site infection rates. BMJ Quality and Safety, 2020, 29, 472-481.	3.7	10
46	Assessing the cognitive and work load of an inpatient safety dashboard in the context of opioid management. Applied Ergonomics, 2020, 85, 103047.	3.1	10
47	Antibiotic stewardship from a decision-making, behavioral economics, and incentive design perspective. Applied Ergonomics, 2021, 90, 103242.	3.1	9
48	Handling estimated proportions in public sector data envelopment analysis. Annals of Operations Research, 2014, 221, 107-132.	4.1	8
49	Assessing information sources to elucidate diagnostic process errors in radiologic imaging â€" a human factors framework. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1507-1515.	4.4	8
50	A co-availability scheduling model for coordinating multi-disciplinary care teams. International Journal of Production Research, 2015, 53, 7226-7237.	7.5	7
51	A literature review of preventable hospital readmissions: Preceding the Readmissions Reduction Act. IIE Transactions on Healthcare Systems Engineering, 2016, 6, 193-211.	0.8	7
52	Caveats Regarding the Use of Control Charts. Infection Control and Hospital Epidemiology, 1999, 20, 526-526.	1.8	6
53	Illustration of a Statistical Process Control Approach to Regional Prescription Opioid Abuse Surveillance. Journal of Addiction Medicine, 2011, 5, 99-109.	2.6	6
54	Statistical and economic models for analysis and optimal design of laboratory screening policies for cervical cancer. Annals of Operations Research, 1996, 67, 235-285.	4.1	5

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55	Automated Rescreening in Cervical Cytology. Acta Cytologica, 1997, 41, 209-223.	1.3	5
56	Data envelopment analysis models for identifying and benchmarking the best healthcare processes. International Journal of Six Sigma and Competitive Advantage, 2008, 4, 305.	0.4	5
57	An introduction to a new journal for Healthcare Systems Engineering. IIE Transactions on Healthcare Systems Engineering, 2011, 1, 1-5.	0.8	5
58	Use of optimised dual statistical process control charts for early detection of surgical site infection outbreaks. BMJ Quality and Safety, 2020, 29, 517-520.	3.7	5
59	Systems engineering analysis of diagnostic referral closed-loop processes. BMJ Open Quality, 2021, 10, e001603.	1.1	5
60	Joint robust optimization of bed capacity, nurse staffing, and care access under uncertainty. Annals of Operations Research, 2022, 312, 673-689.	4.1	5
61	Modeling Production Costs for SWNT Manufacturing Given Uncertain Health and Safety Standards. Electronics and the Environment, IEEE International Symposium on, 2007, , .	0.0	4
62	Health Systems Engineering Fellowship. American Journal of Medical Quality, 2015, 30, 161-166.	0.5	4
63	Implementation, evaluation, and recommendations for extension of AHRQ Common Formats to capture patient- and carepartner-generated safety data. JAMIA Open, 2018, 1, 20-25.	2.0	4
64	A mixed methods analysis of access barriers to dermatology care in a rural state. Journal of Advanced Nursing, 2021, 77, 355-366.	3.3	4
65	Desirability functions for optimizing nanomanufacturing production scale-up. , 2010, , .		3
66	Multiresponse optimisation of powder metals via probabilistic loss functions. European Journal of Industrial Engineering, 2013, 7, 295.	0.8	3
67	Early recognition and response to increases in surgical site infections using optimized statistical process control charts—the Early 2RIS Trial: a multicenter cluster randomized controlled trial with stepped wedge design. Trials, 2020, 21, 894.	1.6	3
68	Increasing efficiency and accuracy of magnetic interaction calculations in colloidal simulation through machine learning. Journal of Colloid and Interface Science, 2022, 611, 29-38.	9.4	3
69	USE OF MATHEMATICAL PROGRAMMING IN THE ANALYSIS OF CONSTRAINED AND UNCONSTRAINED INDUSTRIAL EXPERIMENTS. Quality Engineering, 2000, 12, 395-406.	1.1	2
70	Probabilistic and Monte Carlo risk models for carbon nanomaterial production processes. , 2008, , .		2
71	Nanotechnology environmental, health, and safety issues: brief literature review since 2000. , 2009, , .		2
72	Improved one-sided control charts for the mean of a positively skewed population using truncated saddlepoint approximations. Quality and Reliability Engineering International, 2011, 27, 1043-1058.	2.3	2

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73	SYSTEMS ENGINEERING APPROACHES FOR IMPROVING REUSABLE MEDICAL EQUIPMENT REPROCESSING PROCESSES. International Journal of Innovation and Technology Management, 2013, 10, 1340009.	1.4	2
74	In-Person and Video-Based Post-Traumatic Stress Disorder Treatment for Veterans: A Location–Allocation Model. Military Medicine, 2014, 179, 150-156.	0.8	2
75	Use of Systems-Theoretic Process Analysis to Design Safer Opioid Prescribing Processes. IISE Transactions on Occupational Ergonomics and Human Factors, 2018, 6, 200-208.	0.8	2
76	Embedded Simulation Models in Educational Games on Environmental Issues for Engineering Students. Electronics and the Environment, IEEE International Symposium on, 2007, , .	0.0	1
77	Computing exact bundle compliance control charts via probability generating functions. Health Care Management Science, 2016, 19, 103-110.	2.6	1
78	Modeling approaches, challenges, and preliminary results for the opioid and heroin co-epidemic crisis. , 2017, , .		1
79	Impact of molecular testing on reported *Clostridoides difficile* infection rates. Infection Control and Hospital Epidemiology, 2020, 41, 306-312.	1.8	1
80	Systems Analysis of a Dedicated Ambulatory Respiratory Unit for Seeing and Ensuring Follow-up of Patients With COVID-19 Symptoms. Journal of Ambulatory Care Management, 2021, 44, 293-303.	1.1	1
81	Modelling policy interventions to improve patient access to rural dermatology care. Operations Management Research, 2021, 14, 359-377.	8.5	1
82	Towards Analytics of the Patient and Family Perspective: A Case Study and Recommendations for Data Capture of Safety and Quality Concerns. AMIA ... Annual Symposium proceedings, 2017, 2017, 615-624.	0.2	1
83	Modeling approaches for nanomanufacturing risk assessment. , 2009, , .		0
84	The volunteer's dilemma and alternate solutions for ensuring responsibility within accountable care organizations. Engineering Economist, 2017, 62, 146-160.	1.1	0
85	Addressing the opioid epidemic: Treatment capacity expansion to reduce care disparities for opioid addiction disorders. , 2017, , .		0
86	Estimating main and interaction effects of a multi-component randomized controlled trial via simulation meta-heuristics. , 2017, , .		0
87	Systems Engineering Approaches for Improving Reusable Medical Equipment Reprocessing Processes. World Scientific Series in R&D Management, 2020, , 73-104.	0.0	0
88	Robust multi-period capacity, location, and access of rural cardiovascular services under uncertainty. Flexible Services and Manufacturing Journal, 0, , 1.	3.4	0