# James C Benneyan

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | Joint robust optimization of bed capacity, nurse staffing, and care access under uncertainty. Annals of Operations Research, 2022, 312, 673-689. | 4.1 | 5 |
| 3 | 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 |
| 4 | Antibiotic stewardship from a decision-making, behavioral economics, and incentive design perspective. Applied Ergonomics, 2021, 90, 103242. | 3.1 | 9 |
| 5 | 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 |
| 6 | 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 |
| 7 | Modelling policy interventions to improve patient access to rural dermatology care. Operations Management Research, 2021, 14, 359-377. | 8.5 | 1 |
| 8 | Systems engineering analysis of diagnostic referral closed-loop processes. BMJ Open Quality, 2021, 10, e001603. | 1.1 | 5 |
| 9 | 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 |
| 10 | Impact of molecular testing on reported *Clostridioides difficile* infection rates. Infection Control and Hospital Epidemiology, 2020, 41, 306-312. | 1.8 | 1 |
| 11 | 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 |
| 12 | Evaluation of a Patient-Centered Fall-Prevention Tool Kit to Reduce Falls and Injuries. JAMA Network Open, 2020, 3, e2025889. | 5.9 | 52 |
| 13 | Robust combined operating room planning and personnel scheduling under uncertainty. Operations Research for Health Care, 2020, 27, 100276. | 1.2 | 15 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|---|---------|----|-----------|
| 19 | Systems Engineering Approaches for Improving Reusable Medical Equipment Reprocessing Processes. World Scientific Series in R&D Management, 2020, , 73-104. | 0.0 | 0 |
| 20 | 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 |
| 21 | 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 |
| 22 | Access to specialty healthcare in urban versus rural US populations: a systematic literature review. BMC Health Services Research, 2019, 19, 974. | 2.2 | 137 |
| 23 | 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 |
| 24 | 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 |
| 25 | Engineering safer care coordination from hospital to home: lessons from the USA. Future Healthcare Journal, 2018, 5, 164-170. | 1.4 | 14 |
| 26 | 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 |
| 27 | Challenges And Opportunities For Improving Patient Safety Through Human Factors And Systems Engineering. Health Affairs, 2018, 37, 1862-1869. | 5.2 | 53 |
| 28 | 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 |
| 29 | 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 |
| 30 | The volunteer's dilemma and alternate solutions for ensuring responsibility within accountable care organizations. Engineering Economist, 2017, 62, 146-160. | 1.1 | 0 |
| 31 | EWMA chart with curtailment for monitoring fraction nonconforming. Quality Technology and Quantitative Management, 2017, 14, 412-428. | 1.9 | 18 |
| 32 | Timeliness of access to lung cancer diagnosis and treatment: A scoping literature review. Lung Cancer, 2017, 112, 156-164. | 2.0 | 142 |
| 33 | 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 |
| 34 | Modeling approaches, challenges, and preliminary results for the opioid and heroin co-epidemic crisis. , 2017, , . | | 1 |
| 35 | Addressing the opioid epidemic: Treatment capacity expansion to reduce care disparities for opioid addiction disorders. , 2017, , . | | 0 |
| 36 | Estimating main and interaction effects of a multi-component randomized controlled trial via simulation meta-heuristics. , 2017, , . | | 0 |

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|---|---------|----|-----------|
| 37 | 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 |
| 38 | Computing exact bundle compliance control charts via probability generating functions. Health Care Management Science, 2016, 19, 103-110. | 2.6 | 1 |
| 39 | A system dynamics model of clinical decision thresholds for the detection of developmental-behavioral disorders. Implementation Science, 2016, 11, 156. | 6.9 | 16 |
| 40 | Can improved specialty access moderate emergency department overuse?. Neurology: Clinical Practice, 2016, 6, 498-505. | 1.6 | 10 |
| 41 | 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 |
| 42 | Iterative user centered design for development of a patient-centered fall prevention toolkit. Applied Ergonomics, 2016, 56, 117-126. | 3.1 | 37 |
| 43 | Review of Research Trends and Methods in Nano Environmental, Health, and Safety Risk Analysis. Risk Analysis, 2016, 36, 1644-1665. | 2.7 | 31 |
| 44 | 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 |
| 45 | Health Systems Engineering Fellowship. American Journal of Medical Quality, 2015, 30, 161-166. | 0.5 | 4 |
| 46 | A co-availability scheduling model for coordinating multi-disciplinary care teams. International Journal of Production Research, 2015, 53, 7226-7237. | 7.5 | 7 |
| 47 | 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 |
| 48 | Characterizing the value of predictive analytics in facilitating hospital patient flow. IIE Transactions on Healthcare Systems Engineering, 2014, 4, 135-143. | 0.8 | 24 |
| 49 | Handling estimated proportions in public sector data envelopment analysis. Annals of Operations Research, 2014, 221, 107-132. | 4.1 | 8 |
| 50 | 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 |
| 51 | Generalizability of a Simple Approach for Predicting Hospital Admission From an Emergency Department. Academic Emergency Medicine, 2013, 20, 1156-1163. | 1.8 | 52 |
| 52 | SYSTEMS ENGINEERING APPROACHES FOR IMPROVING REUSABLE MEDICAL EQUIPMENT REPROCESSING PROCESSES. International Journal of Innovation and Technology Management, 2013, 10, 1340009. | 1.4 | 2 |
| 53 | Multiresponse optimisation of powder metals via probabilistic loss functions. European Journal of Industrial Engineering, 2013, 7, 295. | 0.8 | 3 |
| 54 | Predicting Emergency Department Inpatient Admissions to Improve Same–day Patient Flow. Academic Emergency Medicine, 2012, 19, E1045-54. | 1.8 | 109 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 55 | 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 |
| 56 | An introduction to a new journal for Healthcare Systems Engineering. IIE Transactions on Healthcare Systems Engineering, 2011, 1, 1-5. | 0.8 | 5 |
| 57 | 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 |
| 58 | Illustration of a Statistical Process Control Approach to Regional Prescription Opioid Abuse Surveillance. Journal of Addiction Medicine, 2011, 5, 99-109. | 2.6 | 6 |
| 59 | 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 |
| 60 | Exact and approximate probability distributions of evidence-based bundle composite compliance measures. Health Care Management Science, 2010, 13, 193-209. | 2.6 | 10 |
| 61 | 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 |
| 62 | Desirability functions for optimizing nanomanufacturing production scale-up. , 2010, , . | | 3 |
| 63 | Modeling approaches for nanomanufacturing risk assessment. , 2009, , . | | 0 |
| 64 | Nanotechnology environmental, health, and safety issues: brief literature review since 2000. , 2009, , . | | 2 |
| 65 | National addictions vigilance intervention and prevention program (NAVIPPRO™): a real–time, product–specific, public health surveillance system for monitoring prescription drug abuse. Pharmacoepidemiology and Drug Safety, 2008, 17, 1142-1154. | 1.9 | 94 |
| 66 | 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 |
| 67 | Probabilistic and Monte Carlo risk models for carbon nanomaterial production processes. , 2008, , . | | 2 |
| 68 | 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 |
| 69 | 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 |
| 70 | Modeling Production Costs for SWNT Manufacturing Given Uncertain Health and Safety Standards. Electronics and the Environment, IEEE International Symposium on, 2007, , . | 0.0 | 4 |
| 71 | Embedded Simulation Models in Educational Games on Environmental Issues for Engineering Students. Electronics and the Environment, IEEE International Symposium on, 2007, , . | 0.0 | 1 |
| 72 | Foundations of Opioid Risk Management. Clinical Journal of Pain, 2007, 23, 103-118. | 1.9 | 132 |

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| 73 | Risk-adjusted sequential probability ratio tests and longitudinal surveillance methods. International Journal for Quality in Health Care, 2003, 15, 5-6. | 1.8 | 49 |
| 74 | 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 |
| 75 | Use of Binary Cumulative Sums and Moving Averages in Nosocomial Infection Cluster Detection1. Emerging Infectious Diseases, 2002, 8, 1426-1432. | 4.3 | 23 |
| 76 | Performance of number-between g-type statistical control charts for monitoring adverse events. , 2001, 4, 319-336. |  | 58 |
| 77 | Number-between g-type statistical quality control charts for monitoring adverse events. , 2001, 4, 305-318. |  | 89 |
| 78 | USE OF MATHEMATICAL PROGRAMMING IN THE ANALYSIS OF CONSTRAINED AND UNCONSTRAINED INDUSTRIAL EXPERIMENTS. Quality Engineering, 2000, 12, 395-406. | 1.1 | 2 |
| 79 | Caveats Regarding the Use of Control Charts. Infection Control and Hospital Epidemiology, 1999, 20, 526-526. | 1.8 | 6 |
| 80 | 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 |
| 81 | 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 |
| 82 | Use and interpretation of statistical quality control charts. International Journal for Quality in Health Care, 1998, 10, 69-73. | 1.8 | 105 |
| 83 | 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 |
| 84 | 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 |
| 85 | Automated Rescreening in Cervical Cytology. Acta Cytologica, 1997, 41, 209-223. | 1.3 | 5 |
| 86 | 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 |
| 87 | Statistical Control Charts Based on a Geometric Distribution. Journal of Quality Technology, 1992, 24, 63-69. | 2.5 | 165 |
| 88 | Robust multi-period capacity, location, and access of rural cardiovascular services under uncertainty. Flexible Services and Manufacturing Journal, 0, , 1. | 3.4 | 0 |