

Bala G Nair

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

2,091
citations

18
h-index

45
g-index

53
ext. papers

3,569
ext. citations

3.8
avg, IF

5.21
L-index

#	Paper	IF	Citations
50	From Local Explanations to Global Understanding with Explainable AI for Trees. <i>Nature Machine Intelligence</i> , 2020 , 2, 56-67	22.5	851
49	Explainable machine-learning predictions for the prevention of hypoxaemia during surgery. <i>Nature Biomedical Engineering</i> , 2018 , 2, 749-760	19	421
48	Risk of Epidural Hematoma after Neuraxial Techniques in Thrombocytopenic Parturients: A Report from the Multicenter Perioperative Outcomes Group. <i>Anesthesiology</i> , 2017 , 126, 1053-1063	4.3	104
47	Feedback mechanisms including real-time electronic alerts to achieve near 100% timely prophylactic antibiotic administration in surgical cases. <i>Anesthesia and Analgesia</i> , 2010 , 111, 1293-300	3.9	82
46	Six sigma methodology can be used to improve adherence for antibiotic prophylaxis in patients undergoing noncardiac surgery. <i>Anesthesia and Analgesia</i> , 2007 , 104, 140-6	3.9	42
45	A System for Anesthesia Drug Administration Using Barcode Technology: The Codonics Safe Label System and Smart Anesthesia Manager. <i>Anesthesia and Analgesia</i> , 2015 , 121, 410-21	3.9	40
44	Reducing wastage of inhalation anesthetics using real-time decision support to notify of excessive fresh gas flow. <i>Anesthesiology</i> , 2013 , 118, 874-84	4.3	40
43	Preoperative Risk and the Association between Hypotension and Postoperative Acute Kidney Injury. <i>Anesthesiology</i> , 2020 , 132, 461-475	4.3	40
42	Anesthesia information management system-based near real-time decision support to manage intraoperative hypotension and hypertension. <i>Anesthesia and Analgesia</i> , 2014 , 118, 206-14	3.9	37
41	Intraoperative Clinical Decision Support for Anesthesia: A Narrative Review of Available Systems. <i>Anesthesia and Analgesia</i> , 2017 , 124, 603-617	3.9	36
40	Smart Anesthesia Manager(SAM)--a real-time decision support system for anesthesia care during surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 207-10	5	33
39	Automated electronic reminders to improve redosing of antibiotics during surgical cases: comparison of two approaches. <i>Surgical Infections</i> , 2011 , 12, 57-63	2	32
38	A Pilot Study of the Feasibility and Accuracy of Inpatient Continuous Glucose Monitoring. <i>Diabetes Care</i> , 2020 , 43, e168-e169	14.6	23
37	Intraoperative blood glucose management: impact of a real-time decision support system on adherence to institutional protocol. <i>Journal of Clinical Monitoring and Computing</i> , 2016 , 30, 301-12	2	22
36	Improving Operating Room Efficiency: Machine Learning Approach to Predict Case-Time Duration. <i>Journal of the American College of Surgeons</i> , 2019 , 229, 346-354.e3	4.4	22
35	Endovascular Treatment of Acute Ischemic Stroke Under General Anesthesia: Predictors of Good Outcome. <i>Journal of Neurosurgical Anesthesiology</i> , 2018 , 30, 223-230	3	22
34	Preoperative Low-Dose Aspirin Exposure and Outcomes After Emergency Neurosurgery for Traumatic Intracranial Hemorrhage in Elderly Patients. <i>Anesthesia and Analgesia</i> , 2017 , 125, 514-520	3.9	21

33	Associations Between Age and Dosing of Volatile Anesthetics in 2 Academic Hospitals. <i>Anesthesia and Analgesia</i> , 2015 , 121, 645-651	3.9	18
32	Improving documentation of a beta-blocker quality measure through an anesthesia information management system and real-time notification of documentation errors. <i>Joint Commission Journal on Quality and Patient Safety</i> , 2012 , 38, 283-8	1.4	18
31	Failure to Redose Antibiotic Prophylaxis in Long Surgery Increases Risk of Surgical Site Infection. <i>Surgical Infections</i> , 2017 , 18, 474-484	2	16
30	Randomised trial comparing the recording ability of a novel, electronic emergency documentation system with the AHA paper cardiac arrest record. <i>Emergency Medicine Journal</i> , 2014 , 31, 833-9	1.5	15
29	Methylprednisolone Therapy in Acute Traumatic Spinal Cord Injury: Analysis of a Regional Spinal Cord Model Systems Database. <i>Anesthesia and Analgesia</i> , 2017 , 124, 1200-1205	3.9	13
28	Relative costs of anesthesiologist prepared, hospital pharmacy prepared and outsourced anesthesia drugs. <i>Journal of Clinical Anesthesia</i> , 2017 , 36, 178-183	1.9	12
27	The Effect of Intraoperative Blood Glucose Management on Postoperative Blood Glucose Levels in Noncardiac Surgery Patients. <i>Anesthesia and Analgesia</i> , 2016 , 122, 893-902	3.9	12
26	Near real-time notification of gaps in cuff blood pressure recordings for improved patient monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2013 , 27, 265-71	2	12
25	Risks of Routinely Clamping External Ventricular Drains for Intra-hospital Transport in Neurocritically Ill Cerebrovascular Patients. <i>Neurocritical Care</i> , 2017 , 26, 196-204	3.3	10
24	Association between acute phase perioperative glucose parameters and postoperative outcomes in diabetic and non-diabetic patients undergoing non-cardiac surgery. <i>American Journal of Surgery</i> , 2019 , 218, 302-310	2.7	8
23	Counting train-of-four twitch response: comparison of palpation to mechanomyography, acceleromyography, and electromyography. <i>British Journal of Anaesthesia</i> , 2020 , 124, 712-717	5.4	7
22	Electrocardiographic activity before onset of postoperative atrial fibrillation in cardiac surgery patients. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2008 , 31, 1371-82	1.6	7
21	A novel computerized fading memory algorithm for glycemic control in postoperative surgical patients. <i>Anesthesia and Analgesia</i> , 2012 , 115, 580-7	3.9	7
20	Aviation-Style Computerized Surgical Safety Checklist Displayed on a Large Screen and Operated by the Anesthesia Provider Improves Checklist Performance. <i>Anesthesia and Analgesia</i> , 2020 , 130, 382-390	3.9	7
19	An electronic handoff tool to facilitate transfer of care from anesthesia to nursing in intensive care units. <i>Health Informatics Journal</i> , 2019 , 25, 3-16	3	7
18	Perioperative hypotension and discharge outcomes in non-critically injured trauma patients, a single centre retrospective cohort study. <i>Injury</i> , 2017 , 48, 1956-1963	2.5	6
17	Machine learning approach to predict postoperative opioid requirements in ambulatory surgery patients. <i>PLoS ONE</i> , 2020 , 15, e0236833	3.7	6
16	Forecasting a Crisis: Machine-Learning Models Predict Occurrence of Intraoperative Bradycardia Associated With Hypotension. <i>Anesthesia and Analgesia</i> , 2020 , 130, 1201-1210	3.9	5

15	Decisional practices and patterns of intraoperative glucose management in an academic medical center. <i>Journal of Clinical Anesthesia</i> , 2016 , 32, 214-23	1.9	5
14	Utility of Geriatric Assessment in the Projection of Early Mortality Following Hip Fracture in the Elderly Patients. <i>Geriatric Orthopaedic Surgery and Rehabilitation</i> , 2018 , 9, 2151459318813976	2	5
13	Continuous intraoperative epidural infusions affect recovery room length of stay and analgesic requirements: a single-center observational study. <i>Journal of Anesthesia</i> , 2017 , 31, 494-501	2.2	4
12	Development and Feasibility of a Real-Time Clinical Decision Support System for Traumatic Brain Injury Anesthesia Care. <i>Applied Clinical Informatics</i> , 2017 , 8, 80-96	3.1	4
11	Process Optimization and Digital Quality Improvement to Enhance Timely Initiation of Epidural Infusions and Postoperative Pain Control. <i>Anesthesia and Analgesia</i> , 2019 , 128, 953-961	3.9	3
10	Feasibility and indicator outcomes using computerized clinical decision support in pediatric traumatic brain injury anesthesia care. <i>Paediatric Anaesthesia</i> , 2019 , 29, 271-279	1.8	2
9	Electronic Audit and Feedback With Positive Rewards Improve Anesthesia Provider Compliance With a Barcode-Based Drug Safety System. <i>Anesthesia and Analgesia</i> , 2019 , 129, 418-425	3.9	2
8	Development of an aviation-style computerized checklist displayed on a tablet computer for improving handoff communication in the post-anesthesia care unit. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 607-616	2	2
7	Does Attending Surgeon Presence at the Preinduction Briefing Improve Operating Room Efficiency?. <i>Otolaryngology - Head and Neck Surgery</i> , 2019 , 161, 787-795	5.5	1
6	Hyper-G: An Artificial Intelligence Tool for Optimal Decision-Making and Management of Blood Glucose Levels in Surgery Patients. <i>Methods of Information in Medicine</i> , 2019 , 58, 79-85	1.5	0
5	Anesthetic Management of Brain-dead Adult and Pediatric Organ Donors: The Harborview Medical Center Experience. <i>Journal of Neurosurgical Anesthesiology</i> , 2022 , 34, e34-e39	3	0
4	Safe on Saturday: Elective abdominal and perineal surgeries can be performed on Saturday without increased risk of poor post-operative outcome. <i>American Journal of Surgery</i> , 2019 , 218, 462-466	2.7	
3	In reply. <i>Anesthesiology</i> , 2013 , 119, 1228	4.3	
2	Accurately Predicting Case-Time Duration: In reply to Dexter and Epstein. <i>Journal of the American College of Surgeons</i> , 2019 , 229, 634-635	4.4	
1	Patient characteristics and critical care workflow affect paging frequency in neurocritical care. <i>Journal of Clinical Neuroscience</i> , 2019 , 61, 66-72	2.2	