

Warren S Sandberg

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.

120
papers

2,612
citations

31
h-index

46
g-index

136
ext. papers

3,017
ext. citations

4.2
avg, IF

4.92
L-index

#	Paper	IF	Citations
120	Deliberate perioperative systems design improves operating room throughput. <i>Anesthesiology</i> , 2005 , 103, 406-18	4.3	188
119	Intermediate acting non-depolarizing neuromuscular blocking agents and risk of postoperative respiratory complications: prospective propensity score matched cohort study. <i>BMJ, The</i> , 2012 , 345, e6329	5.9	167
118	The risk and outcomes of epidural hematomas after perioperative and obstetric epidural catheterization: a report from the Multicenter Perioperative Outcomes Group Research Consortium. <i>Anesthesia and Analgesia</i> , 2013 , 116, 1380-5	3.9	105
117	Automated documentation error detection and notification improves anesthesia billing performance. <i>Anesthesiology</i> , 2007 , 106, 157-63	4.3	89
116	Reorganizing patient care and workflow in the operating room: a cost-effectiveness study. <i>Surgery</i> , 2006 , 139, 717-28	3.6	87
115	Real-time checking of electronic anesthesia records for documentation errors and automatically text messaging clinicians improves quality of documentation. <i>Anesthesia and Analgesia</i> , 2008 , 106, 192-201, table of contents	3.9	76
114	The incidence of hypoxemia during surgery: evidence from two institutions. <i>Canadian Journal of Anaesthesia</i> , 2010 , 57, 888-97	3	66
113	Modified rapid sequence induction and intubation: a survey of United States current practice. <i>Anesthesia and Analgesia</i> , 2012 , 115, 95-101	3.9	59
112	Deficits in retention for verbally presented medical information. <i>Anesthesiology</i> , 2012 , 117, 772-9	4.3	57
111	High-throughput operating room system for joint arthroplasties durably outperforms routine processes. <i>Anesthesiology</i> , 2008 , 109, 25-35	4.3	55
110	Automatic notifications mediated by anesthesia information management systems reduce the frequency of prolonged gaps in blood pressure documentation. <i>Anesthesia and Analgesia</i> , 2011 , 113, 356-63	3.9	53
109	A model for understanding the impacts of demand and capacity on waiting time to enter a congested recovery room. <i>Anesthesiology</i> , 2009 , 110, 1293-304	4.3	53
108	The extended Mallampati score and a diagnosis of diabetes mellitus are predictors of difficult laryngoscopy in the morbidly obese. <i>Anesthesia and Analgesia</i> , 2008 , 107, 1919-23	3.9	50
107	Loss of alveolar macrophages during anesthesia and operation in humans. <i>Anesthesia and Analgesia</i> , 1995 , 81, 1255-62	3.9	47
106	Operating room design and its impact on operating room economics. <i>Current Opinion in Anaesthesiology</i> , 2006 , 19, 185-91	2.9	45
105	In vivo characterization of mutants of the bacteriophage f1 gene V protein isolated by saturation mutagenesis. <i>Journal of Molecular Biology</i> , 1994 , 236, 556-71	6.5	45
104	Implications of event entry latency on anesthesia information management decision support systems. <i>Anesthesia and Analgesia</i> , 2009 , 108, 941-7	3.9	44

103	Identification of a general anesthetic binding site in the diacylglycerol-binding domain of protein kinase Cdelta. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37964-72	5.4	44
102	Causes of cancellations on the day of surgery at two major university hospitals. <i>Surgical Innovation</i> , 2009 , 16, 173-80	2	43
101	An enhanced recovery program for bariatric surgical patients significantly reduces perioperative opioid consumption and postoperative nausea. <i>Surgery for Obesity and Related Diseases</i> , 2018 , 14, 849-856	3.6	41
100	Introducing new technology into the operating room: measuring the impact on job performance and satisfaction. <i>Surgery</i> , 2005 , 137, 518-26	3.6	41
99	Anesthesia and airway management for tracheal resection and reconstruction. <i>International Anesthesiology Clinics</i> , 2000 , 38, 55-75	0.6	41
98	Maximizing operating room and recovery room capacity in an era of constrained resources. <i>Archives of Surgery</i> , 2006 , 141, 389-93; discussion 393-5		37
97	Estimating the incidence of suspected epidural hematoma and the hidden imaging cost of epidural catheterization: a retrospective review of 43,200 cases. <i>Regional Anesthesia and Pain Medicine</i> , 2013 , 38, 409-414	3.4	34
96	Automatic detection and notification of "wrong patient-wrong location" errors in the operating room. <i>Surgical Innovation</i> , 2005 , 12, 253-60	2	33
95	Real-time alerts and reminders using information systems. <i>Anesthesiology Clinics</i> , 2011 , 29, 389-96	2.3	32
94	Right- and left-sided Mallinckrodt double-lumen tubes have identical clinical performance. <i>Anesthesia and Analgesia</i> , 2008 , 106, 1847-52	3.9	32
93	Elective change of surgeon during the OR day has an operationally negligible impact on turnover time. <i>Journal of Clinical Anesthesia</i> , 2014 , 26, 343-9	1.9	31
92	A Perioperative Systems Design to Improve Intraoperative Glucose Monitoring Is Associated with a Reduction in Surgical Site Infections in a Diabetic Patient Population. <i>Anesthesiology</i> , 2017 , 126, 431-440	4.3	31
91	Craniocervical extension improves the specificity and predictive value of the Mallampati airway evaluation. <i>Anesthesia and Analgesia</i> , 2006 , 103, 1256-9	3.9	31
90	Statistical process control as a tool for monitoring nonoperative time. <i>Anesthesiology</i> , 2006 , 105, 370-80	4.3	31
89	Novel breathing circuit architecture: new consequences of old problems. <i>Anesthesiology</i> , 2004 , 100, 755-6; discussion 756	4.3	30
88	A perioperative consult service results in reduction in cost and length of stay for colorectal surgical patients: evidence from a healthcare redesign project. <i>Perioperative Medicine (London, England)</i> , 2016 , 5, 3	2.8	28
87	Endobronchial blocker dislodgement leading to pulseless electrical activity. <i>Anesthesia and Analgesia</i> , 2005 , 100, 1728-1730	3.9	27
86	Predicting case volume from the accumulating elective operating room schedule facilitates staffing improvements. <i>Anesthesiology</i> , 2014 , 121, 171-83	4.3	27

85	Regional anesthesia, time to hospital discharge, and in-hospital mortality: a propensity score matched analysis. <i>Regional Anesthesia and Pain Medicine</i> , 2014 , 39, 381-6	3.4	23
84	Auto identification technology and its impact on patient safety in the Operating Room of the Future. <i>Surgical Innovation</i> , 2007 , 14, 41-50; discussion 51	2	23
83	Lack of utility of a decision support system to mitigate delays in admission from the operating room to the postanesthesia care unit. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1444-52	3.9	22
82	The changing scope of difficult airway management. <i>Canadian Journal of Anaesthesia</i> , 2013 , 60, 1022-4	3	21
81	Clinicians consistently exceed a typical person's short-term memory during preoperative teaching. <i>Anesthesia and Analgesia</i> , 2008 , 107, 972-8	3.9	21
80	Context dependence of mutational effects in a protein: the crystal structures of the V35I, I47V and V35I/I47V gene V protein core mutants. <i>Journal of Molecular Biology</i> , 1996 , 259, 148-59	6.5	20
79	Automated near-real-time clinical performance feedback for anesthesiology residents: one piece of the milestones puzzle. <i>Anesthesiology</i> , 2014 , 120, 172-84	4.3	20
78	Identifying collaborative care teams through electronic medical record utilization patterns. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2017 , 24, e111-e120	8.6	19
77	Surgical field fire during a repair of bronchoesophageal fistula. <i>Anesthesia and Analgesia</i> , 2005 , 100, 1063-1064	3.9	19
76	Relationship between in vivo activity and in vitro measures of function and stability of a protein. <i>Biochemistry</i> , 1995 , 34, 11970-8	3.2	19
75	Small changes in operative time can yield discrete increases in operating room throughput. <i>Journal of Endourology</i> , 2007 , 21, 703-8	2.7	18
74	Repacking protein interiors. <i>Trends in Biotechnology</i> , 1991 , 9, 59-63	15.1	18
73	Monitoring Anesthesia Care Delivery and Perioperative Mortality in Kenya Utilizing a Provider-driven Novel Data Collection Tool. <i>Anesthesiology</i> , 2017 , 127, 250-271	4.3	17
72	Using information technology to improve quality in the OR. <i>Anesthesiology Clinics</i> , 2011 , 29, 29-55	2.3	17
71	Ongoing professional performance evaluation (OPPE) using automatically captured electronic anesthesia data. <i>Joint Commission Journal on Quality and Patient Safety</i> , 2012 , 38, 73-80	1.4	17
70	Financial and operational impact of a direct-from-PACU discharge pathway for laparoscopic cholecystectomy patients. <i>Surgery</i> , 2006 , 140, 372-8	3.6	17
69	Pediatric Perioperative Mortality in Kenya: A Prospective Cohort Study from 24 Hospitals. <i>Anesthesiology</i> , 2020 , 132, 452-460	4.3	17
68	Structural and functional characterization of an anesthetic binding site in the second cysteine-rich domain of protein kinase C β . <i>Biophysical Journal</i> , 2012 , 103, 2331-40	2.9	16

67	Development and implementation of an integrated mobile situational awareness iPhone application VigiVU at an academic medical center. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012 , 7, 721-35	3.9	16
66	Performance comparison of right- and left-sided double-lumen tubes among infrequent users. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2010 , 24, 598-601	2.1	16
65	The impact on hospitals of reducing surgical complications suggests many will need shared savings programs with payers. <i>Health Affairs</i> , 2012 , 31, 2571-8	7	16
64	Measuring and Improving First Case On-Time Starts and Analysis of Factors Predicting Delay in Neurosurgical Operating Rooms. <i>Journal of Neurosurgical Anesthesiology</i> , 2015 , 27, 203-8	3	15
63	Misalignment of disposable pulse oximeter probes results in false saturation readings that influence anesthetic management. <i>Anesthesia and Analgesia</i> , 2009 , 109, 1530-3	3.9	15
62	Combining the ASA Physical Classification System and Continuous Intraoperative Surgical Apgar Score Measurement in Predicting Postoperative Risk. <i>Journal of Medical Systems</i> , 2015 , 39, 147	5.1	14
61	Modeling the impact of changing patient transportation systems on peri-operative process performance in a large hospital: insights from a computer simulation study. <i>Health Care Management Science</i> , 2012 , 15, 155-69	4	14
60	A computerized perioperative data integration and display system. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2007 , 2, 191-202	3.9	14
59	INCOMING!--A web tracking application for PACU and post-surgical patients. <i>Journal of Surgical Research</i> , 2006 , 132, 153-8	2.5	14
58	Surgeon profiling: a key to optimum operating room use. <i>Archives of Surgery</i> , 2007 , 142, 365-70		12
57	Reducing intraoperative red blood cell unit wastage in a large academic medical center. <i>Transfusion</i> , 2015 , 55, 2752-8	2.9	11
56	Electronically Mediated Time-out Initiative to Reduce the Incidence of Wrong Surgery: An Interventional Observational Study. <i>Anesthesiology</i> , 2016 , 125, 484-94	4.3	8
55	Case report: profound hypotension after anesthetic induction with propofol in patients treated with rifampin. <i>Anesthesia and Analgesia</i> , 2013 , 117, 61-4	3.9	8
54	Crisis resource management of the airway in a patient with Klippel-Feil syndrome, congenital deafness, and aortic dissection. <i>Anesthesia and Analgesia</i> , 2009 , 108, 1220-5	3.9	8
53	Shaping the operating room and perioperative systems of the future: innovating for improved competitiveness. <i>Current Opinion in Anaesthesiology</i> , 2010 , 23, 765-71	2.9	8
52	Reducing non-operative time: methods and impact on operating room economics. <i>International Journal of Healthcare Technology and Management</i> , 2008 , 9, 325	0.3	7
51	Setting a research agenda for perioperative systems design. <i>Surgical Innovation</i> , 2003 , 10, 57-70	2	7
50	Prolonged patient emergence time among clinical anesthesia resident trainees. <i>Journal of Anaesthesiology Clinical Pharmacology</i> , 2016 , 32, 446-452	1.3	7

49	An enhanced recovery program in colorectal surgery is associated with decreased organ level rates of complications: a difference-in-differences analysis. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2019 , 33, 2222-2230	5.2	7
48	Sources of Variation in Anesthetic Drug Costs. <i>Anesthesia and Analgesia</i> , 2018 , 126, 1241-1248	3.9	6
47	Implementation of a direct-from-recovery-room discharge pathway: a process improvement effort. <i>Surgical Innovation</i> , 2009 , 16, 258-65	2	6
46	Role for rhodanese in Fe ₂ S formation is doubtful. <i>Trends in Biochemical Sciences</i> , 1987 , 12, 56	10.3	6
45	Automatic time-motion study of a multistep preoperative process. <i>Anesthesiology</i> , 2008 , 108, 1109-16	4.3	6
44	Automated Case Cancellation Review System Improves Systems-Based Practice. <i>Journal of Medical Systems</i> , 2015 , 39, 134	5.1	5
43	Case records of the Massachusetts General Hospital. Case 38-2008. A 58-year-old man with hemophilia, hepatocellular carcinoma, and intractable bleeding. <i>New England Journal of Medicine</i> , 2008 , 359, 2587-97	59.2	5
42	Prospective Investigation of the Operating Room Time-Out Process. <i>Anesthesia and Analgesia</i> , 2020 , 130, 725-729	3.9	4
41	Implementation and Evaluation of the Z-Score System for Normalizing Residency Evaluations. <i>Anesthesiology</i> , 2018 , 128, 144-158	4.3	4
40	In response. <i>Anesthesia and Analgesia</i> , 2014 , 119, 1452	3.9	4
39	Robots with a social memory. <i>Anesthesia and Analgesia</i> , 2010 , 111, 19-20	3.9	4
38	Chapter 10 Lipid Membrane and Ligand-Gated Ion Channels in General Anesthetic Action. <i>Current Topics in Membranes</i> , 1999 , 48, 311-350	2.2	4
37	Increasing operating room throughput via parallel processing may not require extra resources. <i>Anesthesiology</i> , 2009 , 110, 435; author reply 435	4.3	4
36	New technique targeting the C5 nerve root proximal to the traditional interscalene sonoanatomical approach is analgesic for outpatient arthroscopic shoulder surgery. <i>Journal of Clinical Anesthesia</i> , 2016 , 34, 79-84	1.9	4
35	A survey of modified rapid-sequence induction and intubation in Canadian academic centers. <i>Journal of Clinical Anesthesia</i> , 2013 , 25, 515-6	1.9	3
34	Computer automated total perioperative situational awareness and safety systems. <i>International Congress Series</i> , 2005 , 1281, 856-861		3
33	The Risk and Outcomes of Epidural Hematomas After Perioperative and Obstetric Epidural Catheterization. <i>Survey of Anesthesiology</i> , 2013 , 57, 296-298		2
32	The effect of direct-from-recovery room discharge of laparoscopic cholecystectomy patients on recovery room workload. <i>Surgical Innovation</i> , 2006 , 13, 257-64	2	2

31	A controlled study of the effects of patient information-elicitation style on clinician information-giving. <i>Communication and Medicine</i> , 2009 , 6, 73-82	0	2
30	Infographics in anesthesiology: a volatile tale of two institutions. <i>Anesthesiology</i> , 2013 , 118, 1456	4.3	2
29	CYP2D6 Genotype-guided Metoprolol Therapy in Cardiac Surgery Patients: Rationale and Design of the Pharmacogenetic-guided Metoprolol Management for Postoperative Atrial Fibrillation in Cardiac Surgery (PREEMPTIVE) Pilot Study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 20-28	2.1	2
28	Holding some postoperative patients overnight in the post-anesthesia care unit as a tactic to deal with hospital congestion is associated with increased resource length of stay. <i>Perioperative Care and Operating Room Management</i> , 2020 , 21, 100111	0.5	2
27	A retrospective evaluation of the risk of bias in perioperative temperature metrics. <i>Journal of Clinical Monitoring and Computing</i> , 2019 , 33, 911-916	2	2
26	Patient satisfaction survey scores are not an appropriate metric to differentiate performance among anesthesiologists. <i>Journal of Clinical Anesthesia</i> , 2020 , 65, 109814	1.9	1
25	"What Have We Done for Us Lately?"--Defining Performance and Value at the Individual Clinician Level. <i>Anesthesiology Clinics</i> , 2015 , 33, 659-77	2.3	1
24	"Just do it". <i>Anesthesia and Analgesia</i> , 2009 , 109, 2029-30; author reply 2031	3.9	1
23	Intravenous Therapy, Fluid Delivery Systems for Resuscitation, and Cell Salvage Devices 2011 , 218-235		1
22	The effect of adding goal-directed hemodynamic management for elective patients in an established enhanced recovery program for colorectal surgery: results of quasi-experimental pragmatic trial. <i>Perioperative Medicine (London, England)</i> , 2020 , 9, 35	2.8	1
21	An Evaluation of Induced Failure Modes in the Belmont□ Rapid Infuser. <i>Anesthesia and Analgesia</i> , 2016 , 122, 1062-9	3.9	1
20	Implementation of Acceleromyography to Increase Use of Quantitative Neuromuscular Blockade Monitoring: A Quality Improvement Project. <i>AANA Journal</i> , 2018 , 86, 269-277	0.5	1
19	What happened to the paresthesia?. <i>Anesthesiology</i> , 2003 , 98, 588; author reply 588-90	4.3	0
18	Maintenance of Certification in Anesthesiology Part 4: Improvement in Medical Practice. <i>Advances in Anesthesia</i> , 2015 , 33, 157-173	0.6	
17	Transition from Private to Academic Anesthesia Provision Changes Process and Patient Centered Outcomes in an Ambulatory Surgery Center. <i>Journal of Medical Systems</i> , 2020 , 44, 204	5.1	
16	In Reply. <i>Anesthesiology</i> , 2016 , 125, 1249-1250	4.3	
15	Anesthesia Care Handovers and Risk of Adverse Outcomes. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 319, 2236-2237	27.4	
14	Will a policy of refusing reimbursement for health care-associated infections be a sufficient incentive to drive improvements?. <i>JAMA Internal Medicine</i> , 2014 , 174, 823	11.5	

- 13 The management and outcome of documented intraoperative heart rate-related electrocardiographic changes. *Journal of Cardiothoracic and Vascular Anesthesia*, **2011**, 25, 791-8 2.1
- 12 Anesthesia for esophageal and gastric surgery 640-646
- 11 Acquisition, durability and impact of parallel processing perioperative system designs in North America. *International Congress Series*, **2005**, 1281, 839-844
- 10 Loss of Alveolar Macrophages During Anesthesia and Operation in Humans. *Anesthesia and Analgesia*, **1995**, 81, 1255-1262 3.9
- 9 Understanding the Accuracy of Clinician Provided Estimated Discharge Dates. *Journal of Medical Systems*, **2021**, 46, 2 5.1
- 8 Misleading behavior of Masimo pulse oximeter tone during profound bradycardia. *Anesthesiology*, **2007**, 107, 1038-9; discussion 1039-40 4.3
- 7 Increasing Operating Room Throughput. *Anesthesiology*, **2009**, 110, 685-685 4.3
- 6 Patient Warming Devices **2011**, 263-270
- 5 Supraglottic Airway Devices **2011**, 72-91
- 4 Noninvasive Physiological Monitors **2011**, 127-147
- 3 Endotracheal Airway Devices **2011**, 111-126
- 2 Liver disease 49-55
- 1 Anesthesia for liver transplantation 651-660