Robert G Loeb

List of Publications by Year
in descending order

54 papers	896 citations	516710 16 h-index	477307 29 g-index
55 all docs	55 docs citations	55 times ranked	564 citing authors

#	Article	IF	Citations
1	The Risk and Outcomes of Epidural Hematomas After Perioperative and Obstetric Epidural Catheterization. Anesthesia and Analgesia, 2013, 116, 1380-1385.	2.2	127
2	Development and Evaluation of a Graphical Anesthesia Drug Display. Anesthesiology, 2002, 96, 565-575.	2.5	76
3	Clinical information displays to improve ICU outcomes. International Journal of Medical Informatics, 2008, 77, 765-777.	3.3	72
4	Monitor Surveillance and Vigilance of Anesthesia Residents. Anesthesiology, 1994, 80, 527-533.	2.5	57
5	Effects of Integrated Graphical Displays on Situation Awareness in Anaesthesiology. Cognition, Technology and Work, 2002, 4, 82-90.	3.0	55
6	A Laboratory Evaluation of an Auditory Display Designed to Enhance Intraoperative Monitoring. Anesthesia and Analgesia, 2002, 94, 362-368.	2.2	37
7	A Laboratory Evaluation of an Auditory Display Designed to Enhance Intraoperative Monitoring. Anesthesia and Analgesia, 2002, 94, 362-368.	2.2	36
8	A Simulation-Based Evaluation of a Graphic Cardiovascular Display. Anesthesia and Analgesia, 2007, 105, 1303-1311.	2.2	30
9	Manual record keeping is not necessary for anesthesia vigilance. Journal of Clinical Monitoring and Computing, 1995, 11, 9-13.	0.7	29
10	The Impact of Head-Worn Displays on Strategic Alarm Management and Situation Awareness. Human Factors, 2019, 61, 537-563.	3.5	27
11	Recognition Accuracy of Current Operating Room Alarms. Anesthesia and Analgesia, 1992, 75, 499???505.	2.2	26
12	The Utah Anesthesia Workstation. Anesthesiology, 1989, 70, 999-1007.	2.5	25
13	Laser Surgery and Fire Hazards in Ear, Nose, and Throat Surgeries. Anesthesiology Clinics, 2010, 28, 485-496.	1.4	24
14	The Sounds of Desaturation: A Survey of Commercial Pulse Oximeter Sonifications. Anesthesia and Analgesia, 2016, 122, 1395-1403.	2.2	23
15	Novel Pulse Oximetry Sonifications for Neonatal Oxygen Saturation Monitoring. Human Factors, 2016, 58, 344-359.	3.5	22
16	The effectiveness of pulse oximetry sonification enhanced with tremolo and brightness for distinguishing clinically important oxygen saturation ranges: a laboratory study. Anaesthesia, 2016, 71, 565-572.	3.8	17
17	Improving the detectability of oxygen saturation level targets for preterm neonates: A laboratory test of tremolo and beacon sonifications. Applied Ergonomics, 2016, 56, 160-169.	3.1	16
18	Effectiveness of enhanced pulse oximetry sonifications for conveying oxygen saturation ranges: a laboratory comparison of five auditory displays. British Journal of Anaesthesia, 2017, 119, 1224-1230.	3.4	16

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19	Closed-Loop Anesthesia: Ready for Prime Time?. Anesthesia and Analgesia, 2017, 124, 381-382.	2.2	15
20	A Simple Method to Determine Mixed Exhaled CO2 Using a Standard Circle Breathing Circuit. Anesthesia and Analgesia, 2007, 105, 1048-1052.	2.2	14
21	Using a Sequence of Earcons to Monitor Multiple Simulated Patients. Human Factors, 2017, 59, 268-288.	3.5	13
22	Time to a 90% Change in Gas Concentration: A Comparison of Three Semi-Closed Anesthesia Breathing Systems. Anesthesia and Analgesia, 2009, 108, 1193-1197.	2.2	12
23	Monitoring vital signs with time-compressed speech.. Journal of Experimental Psychology: Applied, 2019, 25, 647-673.	1.2	12
24	Measurement of Dead Space in Subjects Under General Anesthesia Using Standard Anesthesia Equipment. Anesthesia and Analgesia, 2011, 112, 375-377.	2.2	11
25	Detection of visual stimuli on monocular peripheral head-worn displays. Applied Ergonomics, 2018, 73, 167-173.	3.1	11
26	Comparison of Standard and Enhanced Pulse Oximeter Auditory Displays of Oxygen Saturation: A Laboratory Study With Clinician and Nonclinician Participants. Anesthesia and Analgesia, 2019, 129, 997-1004.	2.2	9
27	Effect of intraoperative ketorolac on postanesthesia care unit comfort. Journal of Pain and Symptom Management, 1994, 9, 171-174.	1.2	7
28	The impact of concurrent linguistic tasks on participantsâ€™ identification of spearcons. Applied Ergonomics, 2019, 81, 102895.	3.1	7
29	Evaluation of an enhanced pulse oximeter auditory display: a simulation study. British Journal of Anaesthesia, 2020, 125, 826-834.	3.4	7
30	The Use of Head-Worn Displays for Vital Sign Monitoring in Critical and Acute Care: Systematic Review. JMIR MHealth and UHealth, 2021, 9, e27165.	3.7	7
31	Fire in the operating room. , 2000, 16, 317-320.		6
32	Fatal Connection: Death Caused by Direct Connection of Oxygen Tubing into a Tracheal Tube Connector. Anesthesia and Analgesia, 2004, 99, 1164-1165.	2.2	6
33	Smooth or Stepped? Laboratory Comparison of Enhanced Sonifications for Monitoring Patient Oxygen Saturation. Human Factors, 2020, 62, 124-137.	3.5	6
34	Effects of Epinephrine and Ritodrine in Dogs With Acute Hyperkalemia. Anesthesia and Analgesia, 1990, 70, 400???406.	2.2	5
35	The output of four modern vaporizers in the presence of helium. Canadian Journal of Anaesthesia, 1992, 39, 888-891.	1.6	5
36	Supplying Sub-100% Oxygen Gas Mixtures During Monitored Anesthesia Care: Respiratory Monitoring and Use of a Venturi Device. Anesthesia and Analgesia, 2006, 103, 1048.	2.2	5

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37	Spearcon compression levels influence the gap in comprehension between untrained and trained listeners.. Journal of Experimental Psychology: Applied, 2021, 27, 69-83.	1.2	5
38	Postanesthesia Care Handovers. Anesthesia and Analgesia, 2015, 121, 854-856.	2.2	4
39	Cognitive Analysis of Intraoperative Critical Events: A Problem-Driven Approach to Aiding Clinicians' Performance*. Cognition, Technology and Work, 2002, 4, 107-119.	3.0	3
40	Effects of Preoperative Massage on Intra- and Postoperative Outcomes. Journal of Gynecologic Surgery, 2007, 23, 97-104.	0.1	2
41	Simultaneous Color Change at Opposite Ends of Carbon Dioxide Absorbent Canisters. Anesthesiology, 2018, 129, 1170-1170.	2.5	2
42	Attention to Changes on a Head-Worn Display: Two Preclinical Studies with Healthcare Scenarios. Human Factors, 2024, 66, 103-125.	3.5	2
43	Virtual instrumentation for human factors studies in surgery and anesthesia. Laboratory Robotics and Automation, 1998, 10, 99-105.	0.2	1
44	Spearcons for Patient Monitoring: Program of Laboratory-Based Feasibility Studies. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 663-667.	0.3	1
45	Signaling Patient Oxygen Desaturation with Enhanced Pulse Oximetry Tones. Biomedical Instrumentation and Technology, 2022, 56, 46-57.	0.4	1
46	Improving pulse oximetry auditory displays: Anesthesiologists' perceptions. Acta Anaesthesiologica Scandinavica, 2022, 66, 1027-1028.	1.6	1
47	Anesthesia systems. Journal of Clinical Monitoring and Computing, 1994, 10, 68-70.	0.7	0
48	Flowmeters. , 2007, , 518-520.		0
49	The Effect of Conventional Screens vs. Head-Mounted Displays on Alarm Monitoring Strategies. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1555-1555.	0.3	0
50	Cueing Attention to a Matrix of Values on a Head-Worn Display: Four Studies with a Multiple Patient Monitoring Task. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1771-1771.	0.3	0
51	The Impact of Concurrent Linguistic Tasks on Participantsâ€™ Identification of Spearcons. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 668-668.	0.3	0
52	Ergonomics of the Anesthesia Workspace. , 2021, , 407-430.		0
53	Ergonomics of the Anesthesia Workspace. , 2013, , 485-509.		0
54	Evaluation of Preview Cues to Enhance Recall of Auditory Sequential Information. Auditory Perception & Cognition, 0, , 1-18.	1.1	0