

Robert G Loeb

List of Publications by Year in descending order

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54
papers

896
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516710

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55
all docs

55
docs citations

55
times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	Attention to Changes on a Head-Worn Display: Two Preclinical Studies with Healthcare Scenarios. <i>Human Factors</i> , 2024, 66, 103-125.	3.5	2
2	Signaling Patient Oxygen Desaturation with Enhanced Pulse Oximetry Tones. <i>Biomedical Instrumentation and Technology</i> , 2022, 56, 46-57.	0.4	1
3	Improving pulse oximetry auditory displays: Anesthesiologists' perceptions. <i>Acta Anaesthesiologica Scandinavica</i> , 2022, 66, 1027-1028.	1.6	1
4	Ergonomics of the Anesthesia Workspace. , 2021, , 407-430.		0
5	Spearcon compression levels influence the gap in comprehension between untrained and trained listeners.. <i>Journal of Experimental Psychology: Applied</i> , 2021, 27, 69-83.	1.2	5
6	The Use of Head-Worn Displays for Vital Sign Monitoring in Critical and Acute Care: Systematic Review. <i>JMIR MHealth and UHealth</i> , 2021, 9, e27165.	3.7	7
7	Smooth or Stepped? Laboratory Comparison of Enhanced Sonifications for Monitoring Patient Oxygen Saturation. <i>Human Factors</i> , 2020, 62, 124-137.	3.5	6
8	Evaluation of an enhanced pulse oximeter auditory display: a simulation study. <i>British Journal of Anaesthesia</i> , 2020, 125, 826-834.	3.4	7
9	The impact of concurrent linguistic tasks on participantsâ€™ identification of spearcons. <i>Applied Ergonomics</i> , 2019, 81, 102895.	3.1	7
10	The Impact of Head-Worn Displays on Strategic Alarm Management and Situation Awareness. <i>Human Factors</i> , 2019, 61, 537-563.	3.5	27
11	Comparison of Standard and Enhanced Pulse Oximeter Auditory Displays of Oxygen Saturation: A Laboratory Study With Clinician and Nonclinician Participants. <i>Anesthesia and Analgesia</i> , 2019, 129, 997-1004.	2.2	9
12	Spearcons for Patient Monitoring: Program of Laboratory-Based Feasibility Studies. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 663-667.	0.3	1
13	Cueing Attention to a Matrix of Values on a Head-Worn Display: Four Studies with a Multiple Patient Monitoring Task. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 1771-1771.	0.3	0
14	The Impact of Concurrent Linguistic Tasks on Participantsâ€™ Identification of Spearcons. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 668-668.	0.3	0
15	Monitoring vital signs with time-compressed speech.. <i>Journal of Experimental Psychology: Applied</i> , 2019, 25, 647-673.	1.2	12
16	Simultaneous Color Change at Opposite Ends of Carbon Dioxide Absorbent Canisters. <i>Anesthesiology</i> , 2018, 129, 1170-1170.	2.5	2
17	Detection of visual stimuli on monocular peripheral head-worn displays. <i>Applied Ergonomics</i> , 2018, 73, 167-173.	3.1	11
18	Closed-Loop Anesthesia: Ready for Prime Time?. <i>Anesthesia and Analgesia</i> , 2017, 124, 381-382.	2.2	15

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19	Using a Sequence of Earcons to Monitor Multiple Simulated Patients. Human Factors, 2017, 59, 268-288.	3.5	13
20	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
21	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
22	The Sounds of Desaturation: A Survey of Commercial Pulse Oximeter Sonifications. Anesthesia and Analgesia, 2016, 122, 1395-1403.	2.2	23
23	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
24	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
25	Novel Pulse Oximetry Sonifications for Neonatal Oxygen Saturation Monitoring. Human Factors, 2016, 58, 344-359.	3.5	22
26	Postanesthesia Care Handovers. Anesthesia and Analgesia, 2015, 121, 854-856.	2.2	4
27	The Risk and Outcomes of Epidural Hematomas After Perioperative and Obstetric Epidural Catheterization. Anesthesia and Analgesia, 2013, 116, 1380-1385.	2.2	127
28	Ergonomics of the Anesthesia Workspace. , 2013, , 485-509.		0
29	Measurement of Dead Space in Subjects Under General Anesthesia Using Standard Anesthesia Equipment. Anesthesia and Analgesia, 2011, 112, 375-377.	2.2	11
30	Laser Surgery and Fire Hazards in Ear, Nose, and Throat Surgeries. Anesthesiology Clinics, 2010, 28, 485-496.	1.4	24
31	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
32	Clinical information displays to improve ICU outcomes. International Journal of Medical Informatics, 2008, 77, 765-777.	3.3	72
33	Effects of Preoperative Massage on Intra- and Postoperative Outcomes. Journal of Gynecologic Surgery, 2007, 23, 97-104.	0.1	2
34	A Simulation-Based Evaluation of a Graphic Cardiovascular Display. Anesthesia and Analgesia, 2007, 105, 1303-1311.	2.2	30
35	A Simple Method to Determine Mixed Exhaled CO ₂ Using a Standard Circle Breathing Circuit. Anesthesia and Analgesia, 2007, 105, 1048-1052.	2.2	14
36	Flowmeters. , 2007, , 518-520.		0

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37	Supplying Sub-100% Oxygen Gas Mixtures During Monitored Anesthesia Care: Respiratory Monitoring and Use of a Venturi Device. <i>Anesthesia and Analgesia</i> , 2006, 103, 1048.	2.2	5
38	Fatal Connection: Death Caused by Direct Connection of Oxygen Tubing into a Tracheal Tube Connector. <i>Anesthesia and Analgesia</i> , 2004, 99, 1164-1165.	2.2	6
39	A Laboratory Evaluation of an Auditory Display Designed to Enhance Intraoperative Monitoring. <i>Anesthesia and Analgesia</i> , 2002, 94, 362-368.	2.2	37
40	Development and Evaluation of a Graphical Anesthesia Drug Display. <i>Anesthesiology</i> , 2002, 96, 565-575.	2.5	76
41	A Laboratory Evaluation of an Auditory Display Designed to Enhance Intraoperative Monitoring. <i>Anesthesia and Analgesia</i> , 2002, 94, 362-368.	2.2	36
42	Effects of Integrated Graphical Displays on Situation Awareness in Anaesthesiology. <i>Cognition, Technology and Work</i> , 2002, 4, 82-90.	3.0	55
43	Cognitive Analysis of Intraoperative Critical Events: A Problem-Driven Approach to Aiding Clinicians' Performance*. <i>Cognition, Technology and Work</i> , 2002, 4, 107-119.	3.0	3
44	Fire in the operating room. , 2000, 16, 317-320.		6
45	Virtual instrumentation for human factors studies in surgery and anesthesia. <i>Laboratory Robotics and Automation</i> , 1998, 10, 99-105.	0.2	1
46	Manual record keeping is not necessary for anesthesia vigilance. <i>Journal of Clinical Monitoring and Computing</i> , 1995, 11, 9-13.	0.7	29
47	Anesthesia systems. <i>Journal of Clinical Monitoring and Computing</i> , 1994, 10, 68-70.	0.7	0
48	Effect of intraoperative ketorolac on postanesthesia care unit comfort. <i>Journal of Pain and Symptom Management</i> , 1994, 9, 171-174.	1.2	7
49	Monitor Surveillance and Vigilance of Anesthesia Residents. <i>Anesthesiology</i> , 1994, 80, 527-533.	2.5	57
50	Recognition Accuracy of Current Operating Room Alarms. <i>Anesthesia and Analgesia</i> , 1992, 75, 499-505.	2.2	26
51	The output of four modern vaporizers in the presence of helium. <i>Canadian Journal of Anaesthesia</i> , 1992, 39, 888-891.	1.6	5
52	Effects of Epinephrine and Ritodrine in Dogs With Acute Hyperkalemia. <i>Anesthesia and Analgesia</i> , 1990, 70, 400-406.	2.2	5
53	The Utah Anesthesia Workstation. <i>Anesthesiology</i> , 1989, 70, 999-1007.	2.5	25
54	Evaluation of Preview Cues to Enhance Recall of Auditory Sequential Information. <i>Auditory Perception & Cognition</i> , 0, , 1-18.	1.1	0