

John Mark Ansermino

List of Publications by Year in Descending Order

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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.

250
papers

4,598
citations

36
h-index

56
g-index

274
ext. papers

5,666
ext. citations

3.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
250	Qualitative study exploring the feasibility, usability and acceptability of neonatal continuous monitoring technologies at a public tertiary hospital in Nairobi, Kenya.. <i>BMJ Open</i> , 2022 , 12, e053486	3	1
249	Variability of respiratory rate measurements in neonates- every minute counts.. <i>BMC Pediatrics</i> , 2022 , 22, 16	2.6	0
248	Clinical feasibility of a contactless multiparameter continuous monitoring technology for neonates in a large public maternity hospital in Nairobi, Kenya.. <i>Scientific Reports</i> , 2022 , 12, 3097	4.9	0
247	Assessment of neonatal respiratory rate variability.. <i>Journal of Clinical Monitoring and Computing</i> , 2022 , 1	2	0
246	Evaluation of a contactless neonatal physiological monitor in Nairobi, Kenya. <i>Archives of Disease in Childhood</i> , 2021 ,	2.2	1
245	Cost-effectiveness analysis protocol of the Smart Triage program: A point-of-care digital triage platform for pediatric sepsis in Eastern Uganda. <i>PLoS ONE</i> , 2021 , 16, e0260044	3.7	0
244	Multiparameter Continuous Physiological Monitoring Technologies in Neonates Among Health Care Providers and Caregivers at a Private Tertiary Hospital in Nairobi, Kenya: Feasibility, Usability, and Acceptability Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e29755	7.6	1
243	The effect of ketamine on depth of hypnosis indices during total intravenous anesthesia-a comparative study using a novel electroencephalography case replay system. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 1027-1036	2	3
242	Evaluating neonatal medical devices in Africa. <i>The Lancet Digital Health</i> , 2021 , 3, e211-e212	14.4	
241	Pregnancy Outcomes and Blood Pressure Visit-to-Visit Variability and Level in Three Less-Developed Countries. <i>Hypertension</i> , 2021 , 77, 1714-1722	8.5	1
240	Identification of thresholds for accuracy comparisons of heart rate and respiratory rate in neonates.. <i>Gates Open Research</i> , 2021 , 5, 93	2.4	1
239	Effect of ketamine on the NeuroSENSE WAV during propofol anesthesia; a randomized feasibility trial. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 557-567	2	3
238	The Effect of Low-Dose Intraoperative Ketamine on Closed-Loop-Controlled General Anesthesia: A Randomized Controlled Equivalence Trial. <i>Anesthesia and Analgesia</i> , 2021 , 133, 1215-1224	3.9	1
237	Blood pressure thresholds in pregnancy for identifying maternal and infant risk: a secondary analysis of Community-Level Interventions for Pre-eclampsia (CLIP) trial data. <i>The Lancet Global Health</i> , 2021 , 9, e1119-e1128	13.6	2
236	Placental growth factor for the prognosis of women with preeclampsia (fullPIERS model extension): context matters. <i>BMC Pregnancy and Childbirth</i> , 2020 , 20, 668	3.2	4
235	Community-level interventions for pre-eclampsia (CLIP) in Mozambique: A cluster randomised controlled trial. <i>Pregnancy Hypertension</i> , 2020 , 21, 96-105	2.6	12
234	Smart triage: triage and management of sepsis in children using the point-of-care Pediatric Rapid Sepsis Trigger (PRST) tool. <i>BMC Health Services Research</i> , 2020 , 20, 493	2.9	5

233	The use of the Panda-Nerve Block pain app in single-shot peripheral nerve block patients: a feasibility study. <i>Canadian Journal of Anaesthesia</i> , 2020 , 67, 1140-1151	3	4
232	Community level interventions for pre-eclampsia (CLIP) in India: A cluster randomised controlled trial. <i>Pregnancy Hypertension</i> , 2020 , 21, 166-175	2.6	11
231	The effect of cardiac output on the pharmacokinetics and pharmacodynamics of propofol during closed-loop induction of anesthesia. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 192, 105406	6.9	3
230	Evaluation of a digital triage platform in Uganda: A quality improvement initiative to reduce the time to antibiotic administration. <i>PLoS ONE</i> , 2020 , 15, e0240092	3.7	3
229	Whole blood genome-wide transcriptome profiling and metagenomics next-generation sequencing in young infants with suspected sepsis in low-and middle-income countries: A study protocol. <i>Gates Open Research</i> , 2020 , 4, 139	2.4	
228	Feasibility of Using a Single Heart Rate-Based Measure for Real-time Feedback in a Voluntary Deep Breathing App for Children: Data Collection and Algorithm Development. <i>JMIR Perioperative Medicine</i> , 2020 , 3, e16639	1.5	
227	Augmented intelligence in pediatric anesthesia and pediatric critical care. <i>Current Opinion in Anaesthesiology</i> , 2020 , 33, 404-410	2.9	4
226	Evaluating NeuroSENSE for assessing depth of hypnosis during desflurane anesthesia: an adaptive, randomized-controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2020 , 67, 324-335	3	2
225	Community-level interventions for pre-eclampsia (CLIP) in Pakistan: A cluster randomised controlled trial. <i>Pregnancy Hypertension</i> , 2020 , 22, 109-118	2.6	10
224	The Community-Level Interventions for Pre-eclampsia (CLIP) cluster randomised trials in Mozambique, Pakistan, and India: an individual participant-level meta-analysis. <i>Lancet, The</i> , 2020 , 396, 553-563	40	17
223	Falsified Model-Invariant Safety-Preserving Control With Application to Closed-Loop Anesthesia. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 617-625	4.8	3
222	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 254-263	4.8	3
221	Evaluation of non-invasive continuous physiological monitoring devices for neonates in Nairobi, Kenya: a research protocol. <i>BMJ Open</i> , 2020 , 10, e035184	3	11
220	A transformation of oxygen saturation (the saturation virtual shunt) to improve clinical prediction model calibration and interpretation. <i>Pediatric Research</i> , 2019 , 86, 732-737	3.2	1
219	How Uncertain Is Our Reference Standard for Respiratory Rate Measurement?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1036-1037	10.2	7
218	Respiratory rates observed over 15 and 30 s compared with rates measured over 60 s: practice-based evidence from an observational study of acutely ill adult medical patients during hospital admission. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2019 , 112, 513-517	2.7	7
217	A smartphone oximeter with a fingertip probe for use during exercise training: usability, validity and reliability in individuals with chronic lung disease and healthy controls. <i>Physiotherapy</i> , 2019 , 105, 297-306	3	14
216	The evaluation of smartphone versions of the visual analogue scale and numeric rating scale as postoperative pain assessment tools: a prospective randomized trial. <i>Canadian Journal of Anaesthesia</i> , 2019 , 66, 706-715	3	6

215	Optimizing Robust PID Control of Propofol Anesthesia for Children: Design and Clinical Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2918-2923	5	11
214	Rethinking management of neonates at risk of sepsis. <i>Lancet, The</i> , 2019 , 394, 279-281	4.0	11
213	Derivation and internal validation of a data-driven prediction model to guide frontline health workers in triaging children under-five in Nairobi, Kenya. <i>Wellcome Open Research</i> , 2019 , 4, 121	4.8	1
212	A Postoperative Pain Management Mobile App (Panda) for Children at Home After Discharge: Usability and Feasibility. <i>JMIR Perioperative Medicine</i> , 2019 , 2, e12305	1.5	5
211	Development and Implementation of the Portable Operating Room Tracker App With Vital Signs Streaming Infrastructure: Operational Feasibility Study. <i>JMIR Perioperative Medicine</i> , 2019 , 2, e13559	1.5	3
210	Evidence and Transparency are Needed to Develop a Frontline Health Worker mHealth Assessment Platform. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019 , 101, 948	3.2	2
209	Derivation and internal validation of a data-driven prediction model to guide frontline health workers in triaging children under-five in Nairobi, Kenya. <i>Wellcome Open Research</i> , 2019 , 4, 121	4.8	1
208	Determining predictors of sepsis at triage among children under 5 years of age in resource-limited settings: A modified Delphi process. <i>PLoS ONE</i> , 2019 , 14, e0211274	3.7	19
207	Exploring healthcare providers' perspectives of the paediatric discharge process in Uganda: a qualitative exploratory study. <i>BMJ Open</i> , 2019 , 9, e029526	3	4
206	Are respiratory rate counters really so bad? Throwing the baby out with the bath water. <i>EClinicalMedicine</i> , 2019 , 16, 14	11.3	2
205	A formalized safety system for closed-loop anesthesia with pharmacokinetic and pharmacodynamic constraints. <i>Control Engineering Practice</i> , 2019 , 84, 23-31	3.9	5
204	Pediatric pulse oximetry-based OSA screening at different thresholds of the apnea-hypopnea index with an expression of uncertainty for inconclusive classifications. <i>Sleep Medicine</i> , 2019 , 60, 45-52	4.6	13
203	Temporal and external validation of the fullPIERS model for the prediction of adverse maternal outcomes in women with pre-eclampsia. <i>Pregnancy Hypertension</i> , 2019 , 15, 42-50	2.6	15
202	Feasibility of continuous sedation monitoring in critically ill intensive care unit patients using the NeuroSENSE WAV index. <i>Journal of Clinical Monitoring and Computing</i> , 2018 , 32, 1081-1091	2	7
201	A Systematic Review of Tools to Measure Respiratory Rate in Order to Identify Childhood Pneumonia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 1116-1127	10.2	36
200	A Multi-Week Assessment of a Mobile Exergame Intervention in an Elementary School. <i>Games for Health Journal</i> , 2018 , 7, 1-8	4.2	7
199	Assessment of the fullPIERS Risk Prediction Model in Women With Early-Onset Preeclampsia. <i>Hypertension</i> , 2018 , 71, 659-665	8.5	20
198	Clinician-Driven Design of -An Intelligent Monitoring and Communication Device to Improve Patient Safety in the Intensive Care Unit. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018 , 6, 3000114	3	9

197	Activated protein C as disease-modifying therapy in antenatal preeclampsia: An open-label, single arm safety and efficacy trial. <i>Pregnancy Hypertension</i> , 2018 , 13, 121-126	2.6	3
196	Design and Evaluation of a Closed-Loop Anesthesia System With Robust Control and Safety System. <i>Anesthesia and Analgesia</i> , 2018 , 127, 883-894	3.9	29
195	. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1758-1770	4.8	19
194	Prediction of adverse maternal outcomes from pre-eclampsia and other hypertensive disorders of pregnancy: A systematic review. <i>Pregnancy Hypertension</i> , 2018 , 11, 115-123	2.6	53
193	Night to night pulse oximetry variability in children with suspected sleep apnea. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 179-182	0.9	2
192	Paediatric postdischarge mortality in developing countries: a systematic review. <i>BMJ Open</i> , 2018 , 8, e023445		27
191	Predictor variables for post-discharge mortality modelling in infants: a protocol development project. <i>African Health Sciences</i> , 2018 , 18, 1214-1225	1.1	4
190	In-hospital usability and feasibility evaluation of Panda, an app for the management of pain in children at home. <i>Paediatric Anaesthesia</i> , 2018 , 28, 897-905	1.8	12
189	Predictors of Mortality in Neonates and Infants Hospitalized With Sepsis or Serious Infections in Developing Countries: A Systematic Review. <i>Frontiers in Pediatrics</i> , 2018 , 6, 277	3.4	33
188	Development and internal validation of the multivariable CIPHER (Collaborative Integrated Pregnancy High-dependency Estimate of Risk) clinical risk prediction model. <i>Critical Care</i> , 2018 , 22, 278	10.8	9
187	Symbolic dynamics to enhance diagnostic ability of portable oximetry from the phone oximeter in the detection of paediatric sleep apnoea. <i>Physiological Measurement</i> , 2018 ,	2.9	5
186	We need smarter trigger tools for diagnosing sepsis in children in Canada. <i>Cmaj</i> , 2018 , 190, E1060-E1061	3.5	1
185	Extracting Instantaneous Respiratory Rate From Multiple Photoplethysmogram Respiratory-Induced Variations. <i>Frontiers in Physiology</i> , 2018 , 9, 948	4.6	27
184	A semi-adaptive control approach to closed-loop medication infusion. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 240-254	2.8	9
183	Sequential allocation trial design in anesthesia: an introduction to methods, modeling, and clinical applications. <i>Paediatric Anaesthesia</i> , 2017 , 27, 240-247	1.8	22
182	Propofol and ketamine in combination versus ketamine or propofol alone for procedural sedation in children outside of the operating room. <i>The Cochrane Library</i> , 2017 ,	5.2	78
181	In Response. <i>Anesthesia and Analgesia</i> , 2017 , 124, 1735-1736	3.9	
180	Detecting obstructive sleep apnea in children by self-affine visualization of oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3757-3760	0.9	1

179	Closed-Loop Control of Total Intravenous Anesthesia During Significant Intraoperative Blood Loss: A Case Report. <i>A & A Case Reports</i> , 2017 , 9, 239-243		3
178	Placental Growth Factor as a Prognostic Tool in Women With Hypertensive Disorders of Pregnancy: A Systematic Review. <i>Hypertension</i> , 2017 , 70, 1228-1237	8.5	23
177	A likelihood-based approach for multivariate one-sided tests with missing data. <i>Journal of Applied Statistics</i> , 2017 , 44, 2000-2016	1	1
176	A Formally-Verified Safety System for Closed-Loop Anesthesia. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4424-4429	0.7	7
175	Correntropy-Based Pulse Rate Variability Analysis in Children with Sleep Disordered Breathing. <i>Entropy</i> , 2017 , 19, 282	2.8	3
174	Pediatric out-of-hospital deaths following hospital discharge: a mixed-methods study. <i>African Health Sciences</i> , 2016 , 16, 883-891	1.1	10
173	Model-invariant safety-preserving control 2016 ,		4
172	Identifying individual sleep apnea/hypoapnea epochs using smartphone-based pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3195-3198	0.9	12
171	Developing an objective method for analyzing vital signs changes in neonates during general anesthesia. <i>Paediatric Anaesthesia</i> , 2016 , 26, 1071-1081	1.8	15
170	Semi-adaptive feedback control of opioid infusion 2016 ,		2
169	A Procedural Electroencephalogram Simulator for Evaluation of Anesthesia Monitors. <i>Anesthesia and Analgesia</i> , 2016 , 123, 1136-1140	3.9	11
168	Application of Sepsis Definitions to Pediatric Patients Admitted With Suspected Infections in Uganda. <i>Pediatric Critical Care Medicine</i> , 2016 , 17, 400-5	3	19
167	Evaluation of a Novel Mobile Exergame in a School-Based Environment. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2016 , 19, 186-92	4.4	15
166	Evaluation of cardiac modulation in children in response to apnea/hypopnea using the Phone Oximeter (¶) <i>Physiological Measurement</i> , 2016 , 37, 187-202	2.9	16
165	Pediatric in-Hospital Death from Infectious Disease in Uganda: Derivation of Clinical Prediction Models. <i>PLoS ONE</i> , 2016 , 11, e0150683	3.7	7
164	The PAediatric Risk Assessment (PARA) Mobile App to Reduce Postdischarge Child Mortality: Design, Usability, and Feasibility for Health Care Workers in Uganda. <i>JMIR MHealth and UHealth</i> , 2016 , 4, e16	5.5	24
163	Selecting candidate predictor variables for the modelling of post-discharge mortality from sepsis: a protocol development project. <i>African Health Sciences</i> , 2016 , 16, 162-9	1.1	8
162	Scheduled Follow-Up Referrals and Simple Prevention Kits Including Counseling to Improve Post-Discharge Outcomes Among Children in Uganda: A Proof-of-Concept Study. <i>Global Health, Science and Practice</i> , 2016 , 4, 422-34	2.8	16

161	A Comparative Data-Based Modeling Study on Respiratory CO ₂ Gas Exchange during Mechanical Ventilation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 8	5.8	3
160	An Ethnographic Observational Study to Evaluate and Optimize the Use of Respiratory Acoustic Monitoring in Children Receiving Postoperative Opioid Infusions. <i>Anesthesia and Analgesia</i> , 2016 , 122, 1132-40	3.9	1
159	Respiratory rate and pulse oximetry derived information as predictors of hospital admission in young children in Bangladesh: a prospective observational study. <i>BMJ Open</i> , 2016 , 6, e011094	3	16
158	The Usefulness of the APACHE II Score in Obstetric Critical Care: A Structured Review. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2016 , 38, 909-918	1.3	21
157	A synthesis method for automatic handling of inter-patient variability in closed-loop anesthesia 2016 ,		9
156	Efficiency of respiratory rate measurements: Comment on Black et al., 2015: "Can simple mobile phone applications provide reliable counts of respiratory rates in sick infants and children? An initial evaluation of three new applications". <i>International Journal of Nursing Studies</i> , 2015 , 52, 1279-80	5.8	1
155	Variability in estimating shunt from single pulse oximetry measurements. <i>Physiological Measurement</i> , 2015 , 36, 967-81	2.9	4
154	Moving beyond silos: How do we provide distributed personalized medicine to pregnant women everywhere at scale? Insights from PRE-EMPT. <i>International Journal of Gynecology and Obstetrics</i> , 2015 , 131 Suppl 1, S10-5	4	8
153	Assessment of a Mobile Game ("MobileKids Monster Manor") to Promote Physical Activity Among Children. <i>Games for Health Journal</i> , 2015 , 4, 149-58	4.2	43
152	Assessing the incremental value of blood oxygen saturation (SpO ₂) in the miniPIERS (Pre-eclampsia Integrated Estimate of RiSk) Risk Prediction Model. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2015 , 37, 16-24	1.3	24
151	Postdischarge mortality in children with acute infectious diseases: derivation of postdischarge mortality prediction models. <i>BMJ Open</i> , 2015 , 5, e009449	3	30
150	Neonatal Anesthesia. <i>Canadian Journal of Anaesthesia</i> , 2015 , 62, 1359-1360	3	1
149	Development and internal validation of a multivariable model to predict perinatal death in pregnancy hypertension. <i>Pregnancy Hypertension</i> , 2015 , 5, 315-21	2.6	18
148	A smartphone version of the Faces Pain Scale-Revised and the Color Analog Scale for postoperative pain assessment in children. <i>Paediatric Anaesthesia</i> , 2015 , 25, 1264-73	1.8	28
147	Changes in QTc associated with a rapid bolus dose of dexmedetomidine in patients receiving TIVA: a retrospective study. <i>Paediatric Anaesthesia</i> , 2015 , 25, 1287-93	1.8	11
146	The Performance of a Mobile Phone Respiratory Rate Counter Compared to the WHO ARI Timer. <i>Journal of Healthcare Engineering</i> , 2015 , 6, 691-703	3.7	7
145	A cohort study of morbidity, mortality and health seeking behavior following rural health center visits by children under 12 in southwestern Uganda. <i>PLoS ONE</i> , 2015 , 10, e0118055	3.7	6
144	Development and Internal Validation of a Predictive Model Including Pulse Oximetry for Hospitalization of Under-Five Children in Bangladesh. <i>PLoS ONE</i> , 2015 , 10, e0143213	3.7	12

143	Estimation of respiratory rate from photoplethysmographic imaging videos compared to pulse oximetry. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1331-8	7.2	27
142	A naloxone admixture to prevent opioid-induced pruritus in children: a randomized controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2015 , 62, 891-900	3	9
141	2015 ,		2
140	Estimating instantaneous respiratory rate from the photoplethysmogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6150-3	0.9	6
139	Safety-preserving closed-loop control of anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 454-7	0.9	3
138	Pulse oximetry recorded from the Phone Oximeter for detection of obstructive sleep apnea events with and without oxygen desaturation in children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7100-5	0.9	16
137	Usability and Feasibility of PIERS on the Move: An mHealth App for Pre-Eclampsia Triage. <i>JMIR MHealth and UHealth</i> , 2015 , 3, e37	5.5	51
136	Identifying a rapid bolus dose of dexmedetomidine (ED50) with acceptable hemodynamic outcomes in children. <i>Paediatric Anaesthesia</i> , 2014 , 24, 1260-7	1.8	36
135	Design and Clinical Evaluation of Robust PID Control of Propofol Anesthesia in Children. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 491-501	4.8	66
134	From the Journal archives: Improving patient outcomes in the era of big data. 1992. <i>Canadian Journal of Anaesthesia</i> , 2014 , 61, 959-62	3	2
133	Improving the accuracy and efficiency of respiratory rate measurements in children using mobile devices. <i>PLoS ONE</i> , 2014 , 9, e99266	3.7	45
132	Development of a screening tool for sleep disordered breathing in children using the phone Oximeter <i>PLoS ONE</i> , 2014 , 9, e112959	3.7	77
131	A risk prediction model for the assessment and triage of women with hypertensive disorders of pregnancy in low-resourced settings: the miniPIERS (Pre-eclampsia Integrated Estimate of RiSk) multi-country prospective cohort study. <i>PLoS Medicine</i> , 2014 , 11, e1001589	11.6	117
130	Respiratory rate assessment from photoplethysmographic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5397-400	0.9	4
129	Oxygen saturation resolution influences regularity measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2257-60	0.9	3
128	Development of mHealth applications for pre-eclampsia triage. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1857-64	7.2	55
127	Using machine-to-machine / Internet of Things communication to simplify medical device information exchange 2014 ,		3
126	Critical incidents related to opioid infusions in children: a five-year review and analysis. <i>Canadian Journal of Anaesthesia</i> , 2014 , 61, 312-21	3	10

125	Estimating respiratory and heart rates from the correntropy spectral density of the photoplethysmogram. <i>PLoS ONE</i> , 2014 , 9, e86427	3.7	69
124	Intelligent Patient Monitoring and Clinical Decision Making 2014 , 401-407		2
123	Monitoring nociception during general anesthesia with cardiorespiratory coherence. <i>Journal of Clinical Monitoring and Computing</i> , 2013 , 27, 551-60	2	13
122	Multiparameter respiratory rate estimation from the photoplethysmogram. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1946-53	5	226
121	Robust closed-loop control of induction and maintenance of propofol anesthesia in children. <i>Paediatric Anaesthesia</i> , 2013 , 23, 712-9	1.8	61
120	Emergence delirium in children: a randomized trial to compare total intravenous anesthesia with propofol and remifentanyl to inhalational sevoflurane anesthesia. <i>Paediatric Anaesthesia</i> , 2013 , 23, 309-15 ⁸	1.8	75
119	Quantification of the variability in response to propofol administration in children. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2521-9	5	34
118	2013 ,		7
117	A systematic review and meta-analysis of caudal blockade versus alternative analgesic strategies for pediatric inguinal hernia repair. <i>Journal of Pediatric Surgery</i> , 2013 , 48, 1077-85	2.6	20
116	Individualized closed-loop control of propofol anesthesia: A preliminary study. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 500-508	4.9	63
115	Design and evaluation of a low-cost smartphone pulse oximeter. <i>Sensors</i> , 2013 , 13, 16882-93	3.8	46
114	Universal access to essential vital signs monitoring. <i>Anesthesia and Analgesia</i> , 2013 , 117, 883-890	3.9	11
113	Closed-loop control of anesthesia: a primer for anesthesiologists. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1130-8	3.9	60
112	Predicting fluid responsiveness in children: a systematic review. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1380-92	3.9	142
111	Real-time cardiorespiratory coherence is blind to changes in respiration during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5360-4	0.9	
110	Detection of the optimal region of interest for camera oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2263-6	0.9	7
109	Oxygen saturation in children with and without obstructive sleep apnea using the phone-oximeter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2531-4	0.9	15
108	A retrospective audit to examine the effectiveness of preoperative warming on hypothermia in spine deformity surgery patients. <i>Paediatric Anaesthesia</i> , 2013 , 23, 1054-61	1.8	13

107	Changes in cardiac index and blood pressure on positioning children prone for scoliosis surgery. <i>Anaesthesia</i> , 2013 , 68, 742-6	6.6	16
106	Pulse rate variability compared with Heart Rate Variability in children with and without sleep disordered breathing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 4523-6	0.9	29
105	A novel approach to the design of an artificial bionic baroreflex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3813-6	0.9	1
104	Recognition of correct finger placement for photoplethysmographic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7480-3	0.9	4
103	Mobile Patient Monitoring for the Pediatric Intensive Care Unit Work Domain Analysis and Rapid Prototyping Results 2013 ,		7
102	Ultra-low-cost clinical pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2874-7	0.9	6
101	An evaluation of an expert system for detecting critical events during anesthesia in a human patient simulator: a prospective randomized controlled study. <i>Anesthesia and Analgesia</i> , 2013 , 117, 380-9	3.9	14
100	Pediatric post-discharge mortality in resource poor countries: a systematic review. <i>PLoS ONE</i> , 2013 , 8, e66698	3.7	63
99	Photoplethysmogram Processing Using an Adaptive Single Frequency Phase Vocoder Algorithm. <i>Communications in Computer and Information Science</i> , 2013 , 31-42	0.3	1
98	Usability testing of a prototype Phone Oximeter with healthcare providers in high- and low-medical resource environments. <i>Anaesthesia</i> , 2012 , 67, 957-67	6.6	33
97	A direct dynamic dose-response model of propofol for individualized anesthesia care. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 571-8	5	31
96	A monitor-decoupled pharmacodynamic model of propofol in children using state entropy as clinical endpoint. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 736-43	5	5
95	Closed-Loop Anesthesia in Children using a PID controller: A Pilot Study. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 317-322		8
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