Joseph B Rinehart

List of Publications by Year
in descending order

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90 papers	2,379 citations	236925 25 h-index	223800 46 g-index
91 all docs	91 docs citations	91 times ranked	1501 citing authors

#	Article	IF	Citations
1	Detection of arterial pressure waveform error using machine learning trained algorithms. Journal of Clinical Monitoring and Computing, 2022, 36, 227-237.	1.6	1
2	In-silico analysis of closed-loop vasopressor control of phenylephrine versus norepinephrine. Journal of Clinical Monitoring and Computing, 2022, 36, 1305-1313.	1.6	2
3	Control of Postoperative Hypotension Using a Closed-Loop System for Norepinephrine Infusion in Patients After Cardiac Surgery: A Randomized Trial. Anesthesia and Analgesia, 2022, 134, 964-973.	2.2	15
4	Prospective clinical evaluation of a machine-learning trained algorithm for detection of arterial pressure transducer drop. Intelligence-based Medicine, 2022, , 100063.	2.4	0
5	Automated Blood Pressure Control. Seminars in Respiratory and Critical Care Medicine, 2021, 42, 047-058.	2.1	2
6	Automated closed-loop versus manually controlled norepinephrine infusion in patients undergoing intermediate- to high-risk abdominal surgery: a randomised controlled trial. British Journal of Anaesthesia, 2021, 126, 210-218.	3.4	33
7	Intraoperative hypotension during liver transplant surgery is associated with postoperative acute kidney injury: a historical cohort study. BMC Anesthesiology, 2021, 21, 12.	1.8	21
8	Closed-Loop Hemodynamic Management. , 2021, , 275-285.		0
9	Mild increases in plasma creatinine after intermediate to high-risk abdominal surgery are associated with long-term renal injury. BMC Anesthesiology, 2021, 21, 135.	1.8	2
10	Computer-assisted Individualized Hemodynamic Management Reduces Intraoperative Hypotension in Intermediate- and High-risk Surgery: A Randomized Controlled Trial. Anesthesiology, 2021, 135, 258-272.	2.5	47
11	Clinical Validation of a Soft Wireless Continuous Blood Pressure Sensor During Surgery. Frontiers in Digital Health, 2021, 3, 696606.	2.8	2
12	Preexisting right ventricular systolic dysfunction in high-risk patients undergoing non.emergent open abdominal surgery: A retrospective cohort study. Annals of Cardiac Anaesthesia, 2021, 24, 62.	0.6	1
13	Effectiveness of onabotulinumtoxinA (BOTOX) in pediatric patients experiencing migraines: a randomized, double-blinded, placebo-controlled crossover study in the pediatric pain population. Regional Anesthesia and Pain Medicine, 2021, 46, 41-48.	2.3	21
14	Individualized Fluid and Vasopressor Therapy: Reply. Anesthesiology, 2021, , .	2.5	0
15	Pulse pressure variation using a novel smartphone application (Capstesia) versus invasive pulse contour analysis in patients undergoing cardiac surgery: a secondary analysis focusing on clinical decision making. Journal of Clinical Monitoring and Computing, 2020, 34, 379-380.	1.6	4
16	Automated systems for perioperative goal-directed hemodynamic therapy. Journal of Anesthesia, 2020, 34, 104-114.	1.7	19
17	Anesthetic Management Using Multiple Closed-loop Systems and Delayed Neurocognitive Recovery. Anesthesiology, 2020, 132, 253-266.	2.5	69
18	Closed-Loop Control of Vasopressor Administration in Patients Undergoing Cardiac Revascularization Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 3081-3085.	1.3	11

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19	Feasibility of computer-assisted vasopressor infusion using continuous non-invasive blood pressure monitoring in high-risk patients undergoing renal transplant surgery. Anaesthesia, Critical Care & Pain Medicine, 2020, 39, 623-624.	1.4	11
20	Autonomous Systems in Anesthesia: Where Do We Stand in 2020? A Narrative Review. Anesthesia and Analgesia, 2020, 130, 1120-1132.	2.2	55
21	Impact of Closed-loop Anesthesia on Cognitive Function: Reply. Anesthesiology, 2020, 133, 946-948.	2.5	0
22	Personalized Versus Protocolized Fluid Management Using Noninvasive Hemodynamic Monitoring (Clearsight System) in Patients Undergoing Moderate-Risk Abdominal Surgery. Anesthesia and Analgesia, 2019, 129, e8-e12.	2.2	29
23	Feasibility of Fully Automated Hypnosis, Analgesia, and Fluid Management Using 2 Independent Closed-Loop Systems During Major Vascular Surgery: A Pilot Study. Anesthesia and Analgesia, 2019, 128, e88-e92.	2.2	34
24	Practical impact of a decision support for goal-directed fluid therapy on protocol adherence: a clinical implementation study in patients undergoing major abdominal surgery. Journal of Clinical Monitoring and Computing, 2019, 33, 15-24.	1.6	30
25	Feasibility of closed-loop titration of norepinephrine infusion in patients undergoing moderate- and high-risk surgery. British Journal of Anaesthesia, 2019, 123, 430-438.	3.4	33
26	Humanistic medicine in anaesthesiology: development and assessment of a curriculum in humanism for postgraduate anaesthesiology trainees. British Journal of Anaesthesia, 2019, 123, 887-897.	3.4	17
27	Lack of impact of nil-per-os (NPO) time on goal-directed fluid delivery in first case versus afternoon case starts: a retrospective cohort study. BMC Anesthesiology, 2019, 19, 191.	1.8	1
28	Long-term Impact of Crystalloid versus Colloid Solutions on Renal Function and Disability-free Survival after Major Abdominal Surgery. Anesthesiology, 2019, 130, 227-236.	2.5	39
29	Reply to the letter to the editor. Anaesthesia, Critical Care & Pain Medicine, 2019, 38, 403-404.	1.4	0
30	Closed-loop hemodynamic management. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2019, 33, 199-209.	4.0	9
31	Ability of a New Smartphone Pulse Pressure Variation and Cardiac Output Application to Predict Fluid Responsiveness in Patients Undergoing Cardiac Surgery. Anesthesia and Analgesia, 2019, 128, 1145-1151.	2.2	13
32	Blood Pressure Monitoring in Obese Patients. Anesthesia and Analgesia, 2019, 128, 391-392.	2.2	3
33	Machine learning of physiological waveforms and electronic health record data to predict, diagnose and treat haemodynamic instability in surgical patients: protocol for a retrospective study. BMJ Open, 2019, 9, e031988.	1.9	13
34	Automated Titration of Vasopressor Infusion Using a Closed-loop Controller. Anesthesiology, 2019, 130, 394-403.	2.5	35
35	Crystalloid/Colloid Renal and Disability Outcomes: Reply. Anesthesiology, 2019, 131, 755-756.	2.5	0
36	Reply to. European Journal of Anaesthesiology, 2019, 36, 304-305.	1.7	1

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37	Preexisting Right Ventricular Dysfunction Is Associated With Higher Postoperative Cardiac Complications and Longer Hospital Stay in High-Risk Patients Undergoing Nonemergent Major Vascular Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2019, 33, 1279-1286.	1.3	16
38	Monitoring of pulse pressure variation using a new smartphone application (Capstesia) versus stroke volume variation using an uncalibrated pulse wave analysis monitor: a clinical decision making study during major abdominal surgery. Journal of Clinical Monitoring and Computing, 2019, 33, 787-793.	1.6	17
39	Immediate haemodynamic impact response to a mini-fluid challenge is independent of fluid type: A post-hoc analysis of a randomised double blinded controlled trial. Anaesthesia, Critical Care & Pain Medicine, 2019, 38, 669-670.	1.4	3
40	Blood pressure variability in surgical and intensive care patients: Is there a potential for closed-loop vasopressor administration?. Anaesthesia, Critical Care & Pain Medicine, 2019, 38, 69-71.	1.4	24
41	Closed-loop vasopressor control: in-silico study of robustness against pharmacodynamic variability. Journal of Clinical Monitoring and Computing, 2019, 33, 795-802.	1.6	25
42	Computer simulated modeling of healthy and diseased right ventricular and pulmonary circulation. Journal of Clinical Monitoring and Computing, 2018, 32, 1015-1024.	1.6	4
43	Feasibility of automated titration of vasopressor infusions using a novel closed-loop controller. Journal of Clinical Monitoring and Computing, 2018, 32, 5-11.	1.6	42
44	Crystalloid versus Colloid for Intraoperative Goal-directed Fluid Therapy Using a Closed-loop System. Anesthesiology, 2018, 128, 55-66.	2.5	112
45	Two-Year Follow-up Survey: Views of US Anesthesiologists About Health Care Costs and Future Practice Roles. Anesthesia and Analgesia, 2018, 126, 611-614.	2.2	4
46	In Reply. Anesthesiology, 2018, 129, 386-387.	2.5	0
47	View of U.S. spine surgeons regarding cost reduction measures. Journal of Spine Surgery, 2018, 4, 311-318.	1.2	2
48	Implementation of closed-loop-assisted intra-operative goal-directed fluid therapy during major abdominal surgery. European Journal of Anaesthesiology, 2018, 35, 650-658.	1.7	40
49	Machine-learning Algorithm to Predict Hypotension Based on High-fidelity Arterial Pressure Waveform Analysis. Anesthesiology, 2018, 129, 663-674.	2.5	334
50	Onabotulinumtoxin A (BOTOXÂ®) for ProphylaCTIC Treatment of Pediatric Migraine: A Retrospective Longitudinal Analysis. Journal of Child Neurology, 2018, 33, 580-586.	1.4	25
51	Impact of advanced monitoring variables on intraoperative clinical decision-making: an international survey. Journal of Clinical Monitoring and Computing, 2017, 31, 205-212.	1.6	2
52	An Ambulatory Surgery Perioperative Surgical Home in Kaiser Permanente Settings. Anesthesia and Analgesia, 2017, 124, 768-774.	2.2	18
53	Randomized Clinical Trial of Epidural Compared with Conventional Analgesia after Minimally Invasive Colorectal Surgery. Journal of the American College of Surgeons, 2017, 225, 622-630.	0.5	22
54	Part of the Steamroller and Not Part of the Road: Better Blood Pressure Management Through Automation. Anesthesia and Analgesia, 2017, 125, 20-22.	2.2	15

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55	Anesthesiology Residency Curriculum and Implementation of a Perioperative Surgical Home Curriculum: A Survey Study. The Journal of Education in Perioperative Medicine: JEPM, 2017, 19, E609.	0.1	3
56	Improving Trainee Competency and Comfort Level with Needle Driving Using Simulation Training. Pain Medicine, 2016, 17, pnv056.	1.9	11
57	Perioperative blood ordering optimization process using information from an anesthesia information management system. Transfusion, 2016, 56, 938-945.	1.6	20
58	Closed-Loop Propofol Administration. Anesthesia and Analgesia, 2016, 122, 4-6.	2.2	11
59	A Novel Mobile Phone Application for Pulse Pressure Variation Monitoring Based on Feature Extraction Technology. Anesthesia and Analgesia, 2016, 123, 105-113.	2.2	23
60	Fully Automated Anesthesia and Fluid Management Using Multiple Physiologic Closed-Loop Systems in a Patient Undergoing High-Risk Surgery. A & A Case Reports, 2016, 7, 260-265.	0.7	20
61	Total Joint Replacement Perioperative Surgical Home Program. Anesthesia and Analgesia, 2016, 123, 51-62.	2.2	35
62	A case management report: a collaborative perioperative surgical home paradigm and the reduction of total joint arthroplasty readmissions. Perioperative Medicine (London, England), 2016, 5, 27.	1.5	11
63	Comparison of Pneumoperitoneum Stability Between a Valveless Trocar System and Conventional Insufflation: A Prospective Randomized Trial. Urology, 2016, 94, 274-280.	1.0	30
64	Effects of Modification of Pain Protocol on Incidence of Post Operative Nausea and Vomiting. The Open Orthopaedics Journal, 2016, 10, 505-511.	0.2	5
65	Joint arthroplasty Perioperative Surgical Home: Impact of patient characteristics on postoperative outcomes. World Journal of Orthopedics, 2016, 7, 376.	1.8	12
66	Health Care Costs and the Perioperative Surgical Home. Anesthesia and Analgesia, 2015, 121, 1344-1349.	2.2	11
67	Perioperative goal-directed therapy and postoperative outcomes in patients undergoing high-risk abdominal surgery: a historical-prospective, comparative effectiveness study. Critical Care, 2015, 19, 261.	5.8	75
68	Technology, Social Engineering, and Clinical Anesthesiology. Anesthesia and Analgesia, 2015, 121, 591-593.	2.2	3
69	In Reply. Anesthesiology, 2015, 122, 209-210.	2.5	2
70	Closed-loop assisted versus manual goal-directed fluid therapy during high-risk abdominal surgery: a caseâ€“control study with propensity matching. Critical Care, 2015, 19, 94.	5.8	58
71	Closed-Loop Pharmacology in Anesthesia and Critical Care. International Anesthesiology Clinics, 2015, 53, 91-101.	0.8	5
72	Can tranexamic acid change preoperative anemia management during total joint arthroplasty?. World Journal of Orthopedics, 2015, 6, 521.	1.8	11

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73	Perioperative goal directed therapy using automated closed-loop fluid management: the future?. Anaesthesiology Intensive Therapy, 2015, 47, 517-523.	1.0	22
74	Principles of pharmacologic hemodynamic management and closed-loop systems. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2014, 28, 453-462.	4.0	3
75	Using Anesthesia AIMS Data in Quality Management. International Anesthesiology Clinics, 2014, 52, 42-52.	0.8	5
76	Accuracy of Continuous Noninvasive Hemoglobin Monitoring. Anesthesia and Analgesia, 2014, 119, 332-346.	2.2	90
77	Closed-loop systems and automation in the era of patients safety and perioperative medicine. Journal of Clinical Monitoring and Computing, 2014, 28, 1-3.	1.6	8
78	Closed-Loop Fluid Management and Hemodynamic Optimization. , 2014, , 147-157.		1
79	Accuracy and Precision of Continuous Noninvasive Arterial Pressure Monitoring Compared with Invasive Arterial Pressure. Anesthesiology, 2014, 120, 1080-1097.	2.5	160
80	New analyses of standard physiological signals: the old pipes give the sweetest smoke. Journal of Clinical Monitoring and Computing, 2013, 27, 103-104.	1.6	1
81	Closed-Loop Fluid Resuscitation. Anesthesia and Analgesia, 2013, 117, 1110-1118.	2.2	39
82	Closed-Loop Fluid Administration Compared to Anesthesiologist Management for Hemodynamic Optimization and Resuscitation During Surgery. Anesthesia and Analgesia, 2013, 117, 1119-1129.	2.2	62
83	Postoperative Global Amnesia Reversed With Flumazenil. Neurologist, 2012, 18, 216-218.	0.7	9
84	Closed-Loop Systems in Anesthesia. Anesthesia and Analgesia, 2012, 114, 130-143.	2.2	91
85	Innovative Technologies Applied to Anesthesia: How Will They Impact the Way Clinicians Practice?. Journal of Cardiothoracic and Vascular Anesthesia, 2012, 26, 711-720.	1.3	16
86	Visual estimation of pulse pressure variation is not reliable: a randomized simulation study. Journal of Clinical Monitoring and Computing, 2012, 26, 191-196.	1.6	14
87	Intraoperative Stroke Volume Optimization Using Stroke Volume, Arterial Pressure, and Heart Rate: Closed-Loop (Learning Intravenous Resuscitator) Versus Anesthesiologists. Journal of Cardiothoracic and Vascular Anesthesia, 2012, 26, 933-939.	1.3	51
88	Evaluation of a novel closed-loop fluid-administration system based on dynamic predictors of fluid responsiveness: an in silico simulation study. Critical Care, 2011, 15, R278.	5.8	73
89	Respiratory Variation in Pulse Pressure and Plethysmographic Waveforms. Anesthesia and Analgesia, 2011, 112, 94-96.	2.2	108
90	Decision support and closed-loop systems for hemodynamic optimization and fluid management. , 0, , 267-274.		2