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	Machine-learning Algorithm to Predict Hypotension Based on High-fidelity Arterial Pressure Waveform Analysis. Anesthesiology, 2018, 129, 663-674.	2.5	334
2	Accuracy and Precision of Continuous Noninvasive Arterial Pressure Monitoring Compared with Invasive Arterial Pressure. Anesthesiology, 2014, 120, 1080-1097.	2.5	160
3	Crystalloid versus Colloid for Intraoperative Goal-directed Fluid Therapy Using a Closed-loop System. Anesthesiology, 2018, 128, 55-66.	2.5	112
4	Respiratory Variation in Pulse Pressure and Plethysmographic Waveforms. Anesthesia and Analgesia, 2011, 112, 94-96.	2.2	108
5	Closed-Loop Systems in Anesthesia. Anesthesia and Analgesia, 2012, 114, 130-143.	2.2	91
6	Accuracy of Continuous Noninvasive Hemoglobin Monitoring. Anesthesia and Analgesia, 2014, 119, 332-346.	2.2	90
7	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
8	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
9	Anesthetic Management Using Multiple Closed-loop Systems and Delayed Neurocognitive Recovery. Anesthesiology, 2020, 132, 253-266.	2.5	69
10	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
11	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
12	Autonomous Systems in Anesthesia: Where Do We Stand in 2020? A Narrative Review. Anesthesia and Analgesia, 2020, 130, 1120-1132.	2.2	55
13	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
14	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
15	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
16	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
17	Closed-Loop Fluid Resuscitation. Anesthesia and Analgesia, 2013, 117, 1110-1118.	2.2	39
18	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

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19	Total Joint Replacement Perioperative Surgical Home Program. Anesthesia and Analgesia, 2016, 123, 51-62.	2.2	35
20	Automated Titration of Vasopressor Infusion Using a Closed-loop Controller. Anesthesiology, 2019, 130, 394-403.	2.5	35
21	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
22	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
23	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
24	Comparison of Pneumoperitoneum Stability Between a Valveless Trocar System and Conventional Insufflation: A Prospective Randomized Trial. Urology, 2016, 94, 274-280.	1.0	30
25	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
26	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
27	Onabotulinumtoxin A (BOTOXÂ®) for ProphylaCTIC Treatment of Pediatric Migraine: A Retrospective Longitudinal Analysis. Journal of Child Neurology, 2018, 33, 580-586.	1.4	25
28	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
29	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
30	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
31	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
32	Perioperative goal directed therapy using automated closed-loop fluid management: the future?. Anaesthesiology Intensive Therapy, 2015, 47, 517-523.	1.0	22
33	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
34	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
35	Perioperative blood ordering optimization process using information from an anesthesia information management system. Transfusion, 2016, 56, 938-945.	1.6	20
36	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

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37	Automated systems for perioperative goal-directed hemodynamic therapy. Journal of Anesthesia, 2020, 34, 104-114.	1.7	19
38	An Ambulatory Surgery Perioperative Surgical Home in Kaiser Permanente Settings. Anesthesia and Analgesia, 2017, 124, 768-774.	2.2	18
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	Joint arthroplasty Perioperative Surgical Home: Impact of patient characteristics on postoperative outcomes. World Journal of Orthopedics, 2016, 7, 376.	1.8	12
49	Health Care Costs and the Perioperative Surgical Home. Anesthesia and Analgesia, 2015, 121, 1344-1349.	2.2	11
50	Improving Trainee Competency and Comfort Level with Needle Driving Using Simulation Training. Pain Medicine, 2016, 17, pnv056.	1.9	11
51	Closed-Loop Propofol Administration. Anesthesia and Analgesia, 2016, 122, 4-6.	2.2	11
52	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
53	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
54	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

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55	Can tranexamic acid change preoperative anemia management during total joint arthroplasty?. World Journal of Orthopedics, 2015, 6, 521.	1.8	11
56	Postoperative Global Amnesia Reversed With Flumazenil. Neurologist, 2012, 18, 216-218.	0.7	9
57	Closed-loop hemodynamic management. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2019, 33, 199-209.	4.0	9
58	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
59	Using Anesthesia AIMS Data in Quality Management. International Anesthesiology Clinics, 2014, 52, 42-52.	0.8	5
60	Closed-Loop Pharmacology in Anesthesia and Critical Care. International Anesthesiology Clinics, 2015, 53, 91-101.	0.8	5
61	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
62	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
63	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
64	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
65	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
66	Technology, Social Engineering, and Clinical Anesthesiology. Anesthesia and Analgesia, 2015, 121, 591-593.	2.2	3
67	Blood Pressure Monitoring in Obese Patients. Anesthesia and Analgesia, 2019, 128, 391-392.	2.2	3
68	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
69	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
70	Decision support and closed-loop systems for hemodynamic optimization and fluid management. , 0, , 267-274.		2
71	In Reply. Anesthesiology, 2015, 122, 209-210.	2.5	2
72	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

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73	View of U.S. spine surgeons regarding cost reduction measures. Journal of Spine Surgery, 2018, 4, 311-318.	1.2	2
74	Automated Blood Pressure Control. Seminars in Respiratory and Critical Care Medicine, 2021, 42, 047-058.	2.1	2
75	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
76	Clinical Validation of a Soft Wireless Continuous Blood Pressure Sensor During Surgery. Frontiers in Digital Health, 2021, 3, 696606.	2.8	2
77	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
78	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
79	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
80	Reply to. European Journal of Anaesthesiology, 2019, 36, 304-305.	1.7	1
81	Detection of arterial pressure waveform error using machine learning trained algorithms. Journal of Clinical Monitoring and Computing, 2022, 36, 227-237.	1.6	1
82	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
83	Closed-Loop Fluid Management and Hemodynamic Optimization. , 2014, , 147-157.		1
84	In Reply. Anesthesiology, 2018, 129, 386-387.	2.5	0
85	Reply to the letter to the editor. Anaesthesia, Critical Care & Pain Medicine, 2019, 38, 403-404.	1.4	0
86	Crystalloid/Colloid Renal and Disability Outcomes: Reply. Anesthesiology, 2019, 131, 755-756.	2.5	0
87	Closed-Loop Hemodynamic Management. , 2021, , 275-285.		0
88	Impact of Closed-loop Anesthesia on Cognitive Function: Reply. Anesthesiology, 2020, 133, 946-948.	2.5	0
89	Individualized Fluid and Vasopressor Therapy: Reply. Anesthesiology, 2021, , .	2.5	0
90	Prospective clinical evaluation of a machine-learning trained algorithm for detection of arterial pressure transducer drop. Intelligence-based Medicine, 2022, , 100063.	2.4	0