

Jae-Kwang Shim

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

1,791
citations

361045

20
h-index

315357

38
g-index

96
all docs

96
docs citations

96
times ranked

2507
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Single Recombinant Human Erythropoietin Injection on Transfusion Requirements in Preoperatively Anemic Patients Undergoing Valvular Heart Surgery. <i>Anesthesiology</i> , 2011, 115, 929-937.	1.3	173
2	Clopidogrel Responsiveness Regardless of the Discontinuation Date Predicts Increased Blood Loss and Transfusion Requirement After Off-Pump Coronary Artery Bypass Graft Surgery. <i>Journal of the American College of Cardiology</i> , 2010, 56, 1994-2002.	1.2	116
3	Perioperative dexmedetomidine reduces the incidence and severity of acute kidney injury following valvular heart surgery. <i>Kidney International</i> , 2016, 89, 693-700.	2.6	115
4	Anesthetics influence the incidence of acute kidney injury following valvular heart surgery. <i>Kidney International</i> , 2014, 86, 414-422.	2.6	80
5	Postoperative Cognitive Dysfunction and the Change of Regional Cerebral Oxygen Saturation in Elderly Patients Undergoing Spinal Surgery. <i>Anesthesia and Analgesia</i> , 2016, 123, 436-444.	1.1	65
6	Effect of atorvastatin on the incidence of acute kidney injury following valvular heart surgery: a randomized, placebo-controlled trial. <i>Intensive Care Medicine</i> , 2016, 42, 1398-1407.	3.9	63
7	Respirophasic carotid artery peak velocity variation as a predictor of fluid responsiveness in mechanically ventilated patients with coronary artery disease. <i>British Journal of Anaesthesia</i> , 2014, 113, 61-66.	1.5	61
8	Dexmedetomidine added to an opioid-based analgesic regimen for the prevention of postoperative nausea and vomiting in highly susceptible patients. <i>European Journal of Anaesthesiology</i> , 2016, 33, 75-83.	0.7	60
9	Effect of erythropoietin on the incidence of acute kidney injury following complex valvular heart surgery: a double blind, randomized clinical trial of efficacy and safety. <i>Critical Care</i> , 2013, 17, R254.	2.5	47
10	Improved sedation with dexmedetomidine-remifentanil compared with midazolam-remifentanil during catheter ablation of atrial fibrillation: a randomized, controlled trial. <i>Europace</i> , 2014, 16, 1000-1006.	0.7	44
11	Combination of Pregabalin and Dexamethasone for Postoperative Pain and Functional Outcome in Patients Undergoing Lumbar Spinal Surgery. <i>Clinical Journal of Pain</i> , 2013, 29, 9-14.	0.8	42
12	Ultrasound-Guided Lumbar Medial-Branch Block: A Clinical Study With Fluoroscopy Control. <i>Regional Anesthesia and Pain Medicine</i> , 2006, 31, 451-454.	1.1	39
13	Effect of Combined Remote Ischemic Preconditioning and Postconditioning on Pulmonary Function in Valvular Heart Surgery. <i>Chest</i> , 2012, 142, 467-475.	0.4	39
14	Effects of Renin-Angiotensin System Inhibitors on the Occurrence of Acute Kidney Injury Following Off-Pump Coronary Artery Bypass Grafting. <i>Circulation Journal</i> , 2010, 74, 1852-1858.	0.7	36
15	Propofol attenuates renal ischemia-reperfusion injury aggravated by hyperglycemia. <i>Journal of Surgical Research</i> , 2013, 183, 783-791.	0.8	36
16	Chronic progression of cardiac surgery associated acute kidney injury: Intermediary role of acute kidney disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 161, 681-688.e3.	0.4	34
17	Protective Effect of Ethyl Pyruvate against Myocardial Ischemia Reperfusion Injury through Regulations of ROS-Related NLRP3 Inflammasome Activation. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-8.	1.9	33
18	Effect of dexmedetomidine on acute kidney injury after aortic surgery: a single-centre, placebo-controlled, randomised controlled trial. <i>British Journal of Anaesthesia</i> , 2020, 124, 386-394.	1.5	27

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19	The effect of 0.9% saline versus plasmalyte on coagulation in patients undergoing lumbar spinal surgery; a randomized controlled trial. <i>International Journal of Surgery</i> , 2015, 20, 128-134.	1.1	26
20	Postoperative Delirium in Elderly Patients Undergoing Major Spinal Surgery: Role of Cerebral Oximetry. <i>Journal of Neurosurgical Anesthesiology</i> , 2017, 29, 426-432.	0.6	24
21	Ethyl pyruvate is renoprotective against ischemia-reperfusion injury under hyperglycemia. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 1650-1658.	0.4	23
22	Evaluation of preoperative oral carbohydrate administration on insulin resistance in off-pump coronary artery bypass patients. <i>European Journal of Anaesthesiology</i> , 2017, 34, 740-747.	0.7	22
23	Myocardial protection by glucose-insulin-potassium in acute coronary syndrome patients undergoing urgent multivessel off-pump coronary artery bypass surgery. <i>British Journal of Anaesthesia</i> , 2013, 110, 47-53.	1.5	21
24	Influence of preoperative hemoglobin A1c on early outcomes in patients with diabetes mellitus undergoing off-pump coronary artery bypass surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, 568-576.	0.4	21
25	Erythropoietin protects myocardium against ischemia-reperfusion injury under moderate hyperglycemia. <i>European Journal of Pharmacology</i> , 2014, 745, 1-9.	1.7	20
26	Annexin A1 Bioactive Peptide Promotes Resolution of Neuroinflammation in a Rat Model of Exsanguinating Cardiac Arrest Treated by Emergency Preservation and Resuscitation. <i>Frontiers in Neuroscience</i> , 2019, 13, 608.	1.4	19
27	The immunomodulatory effect of ketamine in colorectal cancer surgery: a randomized-controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2021, 68, 683-692.	0.7	19
28	The uncalibrated pulse contour cardiac output during off-pump coronary bypass surgery: performance in patients with a low cardiac output status and a reduced left ventricular function. <i>Korean Journal of Anesthesiology</i> , 2011, 60, 237.	0.9	19
29	Pulse pressure variation is not a valid predictor of fluid responsiveness in patients with elevated left ventricular filling pressure. <i>Journal of Critical Care</i> , 2014, 29, 987-991.	1.0	17
30	Effect of pregabalin on cerebral outcome after cardiopulmonary bypass with deep hypothermic circulatory arrest in rats. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 298-303.	0.4	17
31	Dual antiplatelet therapy and non-cardiac surgery: evolving issues and anesthetic implications. <i>Korean Journal of Anesthesiology</i> , 2017, 70, 13.	0.9	17
32	Ventilation With High or Low Tidal Volume With PEEP Does Not Influence Lung Function After Spinal Surgery in Prone Position: A Randomized Controlled Trial. <i>Journal of Neurosurgical Anesthesiology</i> , 2018, 30, 237-245.	0.6	17
33	Efficacy comparison of ramosetron with ondansetron on preventing nausea and vomiting in high-risk patients following spine surgery with a single bolus of dexamethasone as an adjunct. <i>Korean Journal of Anesthesiology</i> , 2012, 62, 543.	0.9	16
34	Effect of 6% Hydroxyethyl Starch 130/0.4 as a Priming Solution on Coagulation and Inflammation Following Complex Heart Surgery. <i>Yonsei Medical Journal</i> , 2014, 55, 625.	0.9	15
35	Impact of preoperative nutritional scores on 1-year postoperative mortality in patients undergoing valvular heart surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022, 164, 1140-1149.e3.	0.4	15
36	Ethyl pyruvate attenuates myocardial ischemia-reperfusion injury exacerbated by hyperglycemia via retained inhibitory effect on HMGB1. <i>International Journal of Cardiology</i> , 2018, 252, 156-162.	0.8	15

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37	Effect of pregabalin administration upon reperfusion in a rat model of hyperglycemic stroke: Mechanistic insights associated with high-mobility group box 1. <i>PLoS ONE</i> , 2017, 12, e0171147.	1.1	15
38	Effects of bisphenol A on the proliferation, migration, and tumor growth of colon cancer cells: In vitro and in vivo evaluation with mechanistic insights related to ERK and 5-HT3. <i>Food and Chemical Toxicology</i> , 2021, 158, 112662.	1.8	15
39	Efficacy of dexamethasone added to ramosetron for preventing postoperative nausea and vomiting in highly susceptible patients following spine surgery. <i>Korean Journal of Anesthesiology</i> , 2012, 62, 260.	0.9	14
40	Comparison of Ramosetron and Palonosetron for Preventing Nausea and Vomiting after Spinal Surgery: Association With ABCB1 Polymorphisms. <i>Journal of Neurosurgical Anesthesiology</i> , 2017, 29, 406-414.	0.6	14
41	Preoperative transcranial Doppler and cerebral oximetry as predictors of delirium following valvular heart surgery: a case-control study. <i>Journal of Clinical Monitoring and Computing</i> , 2020, 34, 715-723.	0.7	14
42	Monitored Anesthesia Care for Cardiovascular Interventions. <i>Korean Circulation Journal</i> , 2020, 50, 1.	0.7	14
43	Erythropoietin-activated ERK/MAP kinase enhances GATA4 acetylation via phosphorylation of serine 261 of GATA4. <i>Journal of Cellular Physiology</i> , 2013, 228, 190-197.	2.0	13
44	Effect of perioperative sodium bicarbonate administration on renal function following cardiac surgery for infective endocarditis: a randomized, placebo-controlled trial. <i>Critical Care</i> , 2017, 21, 3.	2.5	13
45	Association between Cerebral Oxygen Saturation with Outcome in Cardiac Surgery: Brain as an Index Organ. <i>Journal of Clinical Medicine</i> , 2020, 9, 840.	1.0	12
46	The effect of blood pressure on cerebral outcome in a rat model of cerebral air embolism during cardiopulmonary bypass. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011, 142, 424-429.	0.4	11
47	Effects of remote ischemic preconditioning in patients with concentric myocardial hypertrophy: A randomized, controlled trial with molecular insights. <i>International Journal of Cardiology</i> , 2017, 249, 36-41.	0.8	11
48	Effects of ulinastatin on coagulation in high-risk patients undergoing off-pump coronary artery bypass graft surgery. <i>Korean Journal of Anesthesiology</i> , 2013, 64, 105.	0.9	10
49	A Randomized, Double-blind, Non-inferiority Trial of Magnesium Sulphate versus Dexamethasone for Prevention of Postoperative Sore Throat after Lumbar Spinal Surgery in the Prone Position. <i>International Journal of Medical Sciences</i> , 2015, 12, 797-804.	1.1	10
50	Effects of Post Ischemia-Reperfusion Treatment with Trimetazidine on Renal Injury in Rats: Insights on Delayed Renal Fibrosis Progression. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-10.	1.9	10
51	Tissue Doppler Imaging Predicts Left Ventricular Reverse Remodeling After Surgery for Mitral Regurgitation. <i>Annals of Thoracic Surgery</i> , 2013, 96, 2109-2115.	0.7	9
52	Comparison of Early Clinical Outcomes Following Transcatheter Aortic Valve Implantation versus Surgical Aortic Valve Replacement versus Optimal Medical Therapy in Patients Older than 80 Years with Symptomatic Severe Aortic Stenosis. <i>Yonsei Medical Journal</i> , 2013, 54, 596.	0.9	9
53	Effect of Perioperative Intravenous Iron Supplementation for Complex Cardiac Surgery on Transfusion Requirements. <i>Annals of Surgery</i> , 2022, 275, 232-239.	2.1	9
54	Multidisciplinary Team Approach for Identifying Potential Candidate for Transcatheter Aortic Valve Implantation. <i>Yonsei Medical Journal</i> , 2014, 55, 1246.	0.9	8

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55	Erythropoietin Prevents Hypoxia-Induced GATA-4 Ubiquitination & Phosphorylation of Serine 105 of GATA-4. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 1126-1133.	0.6	7
56	The Influence of Hypothermia on Transfusion Requirement in Patients Who Received Clopidogrel in Proximity to Off-Pump Coronary Bypass Surgery. <i>Yonsei Medical Journal</i> , 2014, 55, 224.	0.9	7
57	Impact of Preoperative Fibrinogen Concentration on Postoperative Outcome in Patients Who Received Dual Antiplatelet Therapy in Proximity to Off-Pump Coronary Bypass Surgery. <i>Circulation Journal</i> , 2014, 78, 1661-1666.	0.7	7
58	Efficacy of Goal-Directed Therapy Using Bioreactance Cardiac Output Monitoring after Valvular Heart Surgery. <i>Yonsei Medical Journal</i> , 2015, 56, 913.	0.9	7
59	Patient-controlled Analgesia With Propacetamol-Fentanyl Mixture for Prevention of Postoperative Nausea and Vomiting in High-risk Patients Undergoing Spine Surgery: A Randomized Controlled Trial. <i>Journal of Neurosurgical Anesthesiology</i> , 2016, 28, 316-322.	0.6	7
60	Rotational Thromboelastometry Predicts Increased Bleeding After Off-Pump Coronary Bypass Surgery. <i>Annals of Thoracic Surgery</i> , 2017, 104, 1318-1324.	0.7	7
61	The effect of perioperative intravenously administered iron isomaltoside 1000 (Monofer®) on transfusion requirements for patients undergoing complex valvular heart surgery: study protocol for a randomized controlled trial. <i>Trials</i> , 2018, 19, 350.	0.7	7
62	Association of Carotid Arterial Circumferential Strain With Left Ventricular Function and Hemodynamic Compromise During Off-Pump Coronary Artery Bypass Surgery. <i>Circulation Journal</i> , 2014, 78, 2422-2430.	0.7	6
63	Anesthetic Efficacy of Dexmedetomidine versus Midazolam When Combined with Remifentanyl for Percutaneous Transluminal Angioplasty in Patients with Peripheral Artery Disease. <i>Journal of Clinical Medicine</i> , 2019, 8, 472.	1.0	6
64	Perioperative Nadir Hemoglobin Concentration and Outcome in Off-Pump Coronary Artery Bypass Surgery: A Retrospective Review. <i>Circulation Journal</i> , 2020, 85, 37-43.	0.7	6
65	Transcatheter Aortic Valve Replacement versus Sutureless Aortic Valve Replacement: A Single Center Retrospective Cohort Study. <i>Yonsei Medical Journal</i> , 2021, 62, 885.	0.9	5
66	Perioperative management of patients receiving non-vitamin K antagonist oral anticoagulants: up-to-date recommendations. <i>Anesthesia and Pain Medicine</i> , 2020, 15, 133-142.	0.5	5
67	Transcatheter Aortic Valve Implantation in a Patient with Previous Mitral Valve Replacement. <i>Korean Circulation Journal</i> , 2014, 44, 344.	0.7	4
68	Migration of Calcium and Atheromatous Plaque in Computed Tomography. <i>Journal of the American College of Cardiology</i> , 2014, 63, e23.	1.2	4
69	Skin perfusion pressure as an indicator of tissue perfusion in valvular heart surgery: Preliminary results from a prospective, observational study. <i>PLoS ONE</i> , 2017, 12, e0184555.	1.1	4
70	Changes in Hepcidin Levels in an Animal Model of Anemia of Chronic Inflammation: Mechanistic Insights Related to Iron Supplementation and Hepcidin Regulation. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-15.	1.9	4
71	Prognostic role of carotid intima-media thickness in off-pump coronary artery bypass surgery. <i>Scientific Reports</i> , 2018, 8, 11385.	1.6	3
72	The efficacy of intramuscular ephedrine in preventing hemodynamic perturbations in patients with spinal anesthesia and dexmedetomidine sedation. <i>International Journal of Medical Sciences</i> , 2020, 17, 2285-2291.	1.1	3

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73	Prognostic role of serum high mobility group box 1 concentration in cardiac surgery. Scientific Reports, 2020, 10, 6293.	1.6	3
74	Associations of creatinine/cystatin C ratio and postoperative pulmonary complications in elderly patients undergoing off-pump coronary artery bypass surgery: a retrospective study. Scientific Reports, 2021, 11, 16881.	1.6	3
75	Effect of changes in inspired oxygen fraction on oxygen delivery during cardiac surgery: a substudy of the CARROT trial. Scientific Reports, 2021, 11, 17862.	1.6	3
76	Anesthetic-induced myocardial protection in cardiac surgery: relevant mechanisms and clinical translation. Anesthesia and Pain Medicine, 2018, 13, 1-9.	0.5	3
77	Successful resuscitation of cardiac arrest caused by CO ₂ embolism with intra-aortic injection of epinephrine during off-pump coronary bypass surgery -a case report-. Korean Journal of Anesthesiology, 2013, 65, 562.	0.9	2
78	Isolated central venous pressure elevation caused by hematoma formation compressing the superior vena cava following a Bentall operation: a case report. Korean Journal of Anesthesiology, 2014, 66, 71.	0.9	2
79	The Authors Reply. Kidney International, 2016, 89, 1164-1165.	2.6	2
80	Dynamic Indices Fail to Predict Fluid Responsiveness in Patients Undergoing One-Lung Ventilation for Thoracoscopic Surgery. Journal of Clinical Medicine, 2021, 10, 2335.	1.0	2
81	Current clinical application of dexmedetomidine for sedation and anesthesia. Anesthesia and Pain Medicine, 2017, 12, 306-319.	0.5	2
82	The First Case of Successful Transcatheter Aortic Valve Implantation Using CoreValve in Korea. Korean Circulation Journal, 2012, 42, 788.	0.7	1
83	The First Korean Patient With Severe Aortic Stenosis and Bilateral Iliofemoral Artery Disease Treated With Transcatheter Aortic Valve Implantation by Transsubclavian Approach. Korean Circulation Journal, 2012, 42, 796.	0.7	1
84	In Response. Anesthesia and Analgesia, 2017, 124, 698-698.	1.1	1
85	Periprocedural analgesic efficacy of a single, pre-emptive administration of propacetamol in catheter ablation for atrial fibrillation: a randomized controlled trial. Minerva Anestesiologica, 2018, 84, 675-683.	0.6	1
86	Increased Carotid Intima-Media Thickness was not Associated With Cognitive Dysfunction After Off-Pump Coronary Surgery in Older Adult Patients Without Carotid Stenosis. Seminars in Thoracic and Cardiovascular Surgery, 2021, , .	0.4	1
87	Comparison of Continuous, Stat, and Intermittent Bolus Cardiac Output Measurements during Cardiac Surgery. Daehan Macwi'gwa Haghoeji, 2008, 54, 603.	0.2	1
88	Effect of Intracoronary Shunt on Right Ventricular Function During Off-pump Grafting of Dominant Right Coronary Artery with Poor Collateral. Journal of Korean Medical Science, 2008, 23, 373.	1.1	0
89	Transcatheter Aortic Valve Implantation Using CoreValve by Transaortic Approach. Journal of Lipid and Atherosclerosis, 2013, 2, 85.	1.1	0
90	Unexpected thrombus migration obstructing the right coronary ostium after thoracic aorta graft replacement. Journal of Clinical Ultrasound, 2014, 42, 318-320.	0.4	0

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91	Combination of Static Echocardiographic Indices for the Prediction of Fluid Responsiveness in Patients Undergoing Coronary Surgery: A Pilot Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 1886.	1.0	0
92	Anesthesia for Off-pump Coronary Artery Bypass Grafting Surgery in a Child with Coronary Disease due to Kawasaki Disease. <i>Daehan Macwi'gwa Haghoeji</i> , 2008, 54, 449.	0.2	0
93	Echocardiographic detection of left atrial mobile calcium debris of trido valve surgery: a case report. <i>Korean Journal of Anesthesiology</i> , 2014, 66, 314.	0.9	0
94	Successful Treatment of Severe Aortic Stenosis With Transcatheter Aortic Valve Implantation in a Centenarian Patient. <i>Journal of the Korean Geriatrics Society</i> , 2014, 18, 44-47.	0.3	0
95	Anesthetic considerations for a patient with situs inversus totalis undergoing cardiac surgery - A case report -. <i>Anesthesia and Pain Medicine</i> , 2019, 14, 193-196.	0.5	0
96	Platelet Reactivity and Outcomes after Off-Pump Coronary Surgery in Acute Coronary Syndrome Patients. <i>Journal of Clinical Medicine</i> , 2022, 11, 3285.	1.0	0