Koichi Yuki

List of Publications by Year
in descending order

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82	2,841	331670	189892
papers	citations	21 h-index	50 g-index

84	84	84	4085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	COVID-19 pathophysiology: A review. Clinical Immunology, 2020, 215, 108427.	3.2	1,414
2	Anesthetic management of noncardiac surgery for patients with single ventricle physiology. Journal of Anesthesia, 2011, 25, 247-256.	1.7	112
3	Application of encoded library technology (ELT) to a proteinâ€“protein interaction target: Discovery of a potent class of integrin lymphocyte function-associated antigen 1 (LFA-1) antagonists. Bioorganic and Medicinal Chemistry, 2014, 22, 2353-2365.	3.0	88
4	An internal ligand-bound, metastable state of a leukocyte integrin, Î±XÎ²2. Journal of Cell Biology, 2013, 203, 629-642.	5.2	82
5	Post-Operative Outcomes in Children With and Without Congenital Heart Disease Undergoing Noncardiac Surgery. Journal of the American College of Cardiology, 2016, 67, 793-801.	2.8	80
6	Mechanisms of the Immunological Effects of Volatile Anesthetics: A Review. Anesthesia and Analgesia, 2016, 123, 326-335.	2.2	78
7	Sevoflurane Binds and Allosterically Blocks Integrin Lymphocyte Function-associated Antigen-1. Anesthesiology, 2010, 113, 600-609.	2.5	60
8	The effect of different anesthetics on tumor cytotoxicity by natural killer cells. Toxicology Letters, 2017, 266, 23-31.	0.8	52
9	The volatile anesthetic isoflurane perturbs conformational activation of integrin LFAâ€1 by binding to the allosteric regulatory cavity. FASEB Journal, 2008, 22, 4109-4116.	0.5	50
10	Non-invasive Assessment of Cerebral Blood Flow and Oxygen Metabolism in Neonates during Hypothermic Cardiopulmonary Bypass: Feasibility and Clinical Implications. Scientific Reports, 2017, 7, 44117.	3.3	41
11	Isoflurane binds and stabilizes a closed conformation of the leukocyte functionâ€associated antigenâ€1. FASEB Journal, 2012, 26, 4408-4417.	0.5	40
12	Sedative Drug Modulates T-Cell and Lymphocyte Function-Associated Antigen-1 Function. Anesthesia and Analgesia, 2011, 112, 830-838.	2.2	37
13	Isoflurane inhibits neutrophil recruitment in the cutaneous Arthus reaction model. Journal of Anesthesia, 2013, 27, 261-268.	1.7	35
14	Prolonged exposure to volatile anesthetic isoflurane worsens the outcome of polymicrobial abdominal sepsis. Toxicological Sciences, 2017, 156, kfw261.	3.1	35
15	The Role of Macrophage 1 Antigen in Polymicrobial Sepsis. Shock, 2014, 42, 532-539.	2.1	31
16	Sepsis Pathophysiology and Anesthetic Consideration. Cardiovascular & Hematological Disorders Drug Targets, 2015, 15, 57-69.	0.7	30
17	Cardiopulmonary bypass in the pediatric population. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2015, 29, 241-256.	4.0	29
18	Volatile anesthetics isoflurane and sevoflurane directly target and attenuate Tollâ€like receptor 4 system. FASEB Journal, 2019, 33, 14528-14541.	0.5	29

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19	Volatile Anesthetics, Not Intravenous Anesthetic Propofol Bind to and Attenuate the Activation of Platelet Receptor Integrin Î±IIbÎ²3. PLoS ONE, 2013, 8, e60415.	2.5	26
20	Volatile anesthetics affect macrophage phagocytosis. PLoS ONE, 2019, 14, e0216163.	2.5	25
21	Propofol Shares the Binding Site with Isoflurane and Sevoflurane on Leukocyte Functionâ€“Associated Antigen-1. Anesthesia and Analgesia, 2013, 117, 803-811.	2.2	23
22	SerpinB1 controls encephalitogenic T helper cells in neuroinflammation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20635-20643.	7.1	23
23	Ligand- and cation-induced structural alterations of the leukocyte integrin LFA-1. Journal of Biological Chemistry, 2018, 293, 6565-6577.	3.4	21
24	The immunomodulatory mechanism of dexmedetomidine. International Immunopharmacology, 2021, 97, 107709.	3.8	21
25	Differential effects of volatile anesthetics on leukocyte integrin macrophage-1 antigen. Journal of Immunotoxicology, 2016, 13, 148-156.	1.7	20
26	Incidence and Risk Factors for Perioperative Cardiovascular and Respiratory Adverse Events in Pediatric Patients With Congenital Heart Disease Undergoing Noncardiac Procedures. Anesthesia and Analgesia, 2018, 127, 724-729.	2.2	20
27	The volatile anesthetic sevoflurane reduces neutrophil apoptosisviaFas death domainâ€“Fasâ€associated death domain interaction. FASEB Journal, 2019, 33, 12668-12679.	0.5	20
28	Volatile Anesthetic Sevoflurane Attenuates Toll-Like Receptor 1/2 Activation. Anesthesia and Analgesia, 2020, 131, 631-639.	2.2	18
29	Volatile Anesthetic Attenuates Phagocyte Function and Worsens Bacterial Loads in Wounds. Journal of Surgical Research, 2019, 233, 323-330.	1.6	17
30	CCR6 and CXCR6 Identify the Th17 Cells With Cytotoxicity in Experimental Autoimmune Encephalomyelitis. Frontiers in Immunology, 2022, 13, 819224.	4.8	17
31	The Use of Volatile Anesthetics as Sedatives for Acute Respiratory Distress Syndrome. Translational Perioperative and Pain Medicine, 2019, 6, 27-38.	0.1	16
32	Role of Î²2 Integrins in Neutrophils and Sepsis. Infection and Immunity, 2020, 88, .	2.2	14
33	The Differential Effects of Anesthetics on Bacterial Behaviors. PLoS ONE, 2017, 12, e0170089.	2.5	13
34	CD11c regulates hematopoietic stem and progenitor cells under stress. Blood Advances, 2020, 4, 6086-6097.	5.2	13
35	Intravenous anesthetic propofol binds to 5â€lipoxygenase and attenuates leukotriene B₄production. FASEB Journal, 2017, 31, 1584-1594.	0.5	11
36	Pattern recognition receptors as therapeutic targets for bacterial, viral and fungal sepsis. International Immunopharmacology, 2021, 98, 107909.	3.8	11

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37	Induction techniques for pediatric patients with congenital heart disease undergoing noncardiac procedures are influenced by cardiac functional status and residual lesion burden. Journal of Clinical Anesthesia, 2018, 50, 14-17.	1.6	10
38	Postoperative maladaptive behavioral changes in children. Middle East Journal of Anesthesiology, 2011, 21, 183-9.	0.2	10
39	Long QT Syndrome and Perioperative Torsades de Pointes: What the Anesthesiologist Should Know. Journal of Cardiothoracic and Vascular Anesthesia, 2022, 36, 286-302.	1.3	9
40	Pediatric Perioperative Stress Responses and Anesthesia. Translational Perioperative and Pain Medicine, 2017, 2, 1-12.	0.1	9
41	Incidence and risk factors for postoperative vomiting following atrial septal defect repair in children. Paediatric Anaesthesia, 2016, 26, 644-648.	1.1	8
42	Unanticipated hospital admission in pediatric patients with congenital heart disease undergoing ambulatory noncardiac surgical procedures. Paediatric Anaesthesia, 2018, 28, 607-611.	1.1	8
43	Mechanistic consideration of the effect of perioperative volatile anesthetics on phagocytes. Clinical Immunology, 2021, 222, 108635.	3.2	8
44	Leukocyte function-associated antigen-1 deficiency impairs responses to polymicrobial sepsis. World Journal of Clinical Cases, 2015, 3, 793.	0.8	8
45	Volatile Anesthetic Isoflurane Attenuates Liver Injury in Experimental Polymicrobial Sepsis Model. Translational Perioperative and Pain Medicine, 2018, 5, 63-74.	0.1	8
46	The Role of Anesthetic Management in Surgical Site Infections After Pediatric Intestinal Surgery. Journal of Surgical Research, 2021, 259, 546-554.	1.6	7
47	Risk factors for pediatric surgical site infection following neurosurgical procedures for hydrocephalus: a retrospective single-center cohort study. BMC Anesthesiology, 2021, 21, 124.	1.8	7
48	A Mathematical Model of Transitional Circulation Toward Biventricular Repair in Hypoplastic Left Heart Syndrome. Anesthesia and Analgesia, 2012, 115, 618-626.	2.2	7
49	The effect of left heart bypass on pulmonary blood flow and arterial oxygenation during one-lung ventilation in patients undergoing descending thoracic aortic surgery. Journal of Clinical Anesthesia, 2009, 21, 562-566.	1.6	6
50	Stereoselectivity of Isoflurane in Adhesion Molecule Leukocyte Function-Associated Antigen-1. PLoS ONE, 2014, 9, e96649.	2.5	6
51	SerpinB1 expression in Th17 cells depends on hypoxia-inducible factor 1-alpha. International Immunopharmacology, 2020, 87, 106826.	3.8	6
52	Ventricular-assist device therapy in children. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2012, 26, 247-264.	4.0	5
53	Validation of a Mathematical Model of Bidirectional Glenn Circulation With Aortopulmonary Collaterals and the Implications for Q P /Q S Calculation. Journal of Cardiothoracic and Vascular Anesthesia, 2018, 32, 395-401.	1.3	5
54	The role of propofol hydroxyl group in 5-lipoxygenase recognition. Biochemical and Biophysical Research Communications, 2020, 525, 909-914.	2.1	5

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55	Anesthetics isoflurane and sevoflurane attenuate flagellin-mediated inflammation in the lung. Biochemical and Biophysical Research Communications, 2021, 557, 254-260.	2.1	5
56	Neutrophil and T Cell Functions in Patients with Congenital Heart Diseases: A Review. Pediatric Cardiology, 2021, 42, 1478-1482.	1.3	5
57	Predictive Factors for Postoperative Intensive Care Unit Admission and Mechanical Ventilation After Cardiac Catheterization for Pediatric Pulmonary Vein Stenosis. Journal of Cardiothoracic and Vascular Anesthesia, 2022, , .	1.3	5
58	Incidence and predictors of postoperative nausea and vomiting in children undergoing electrophysiology ablation procedures. Paediatric Anaesthesia, 2020, 30, 147-152.	1.1	4
59	Intubation precautions in a pediatric patient with severe COVID-19. Journal of Pediatric Surgery Case Reports, 2020, 58, 101495.	0.2	4
60	The effect of anesthetics on toll like receptor 9. FASEB Journal, 2020, 34, 14645-14654.	0.5	3
61	Cathepsin L regulates pathogenic CD4 T cells in experimental autoimmune encephalomyelitis. International Immunopharmacology, 2021, 93, 107425.	3.8	3
62	The Role of General Anesthetic Drug Selection in Cancer Outcome. BioMed Research International, 2021, 2021, 1-8.	1.9	3
63	A translational consideration of intercellular adhesion molecule-1 biology in the perioperative setting. Translational Perioperative and Pain Medicine, 2016, 1, 17-23.	0.1	3
64	The Outcomes of Pediatric Hematopoietic Stem Cell Transplantation Recipients Requiring Intensive Care Unit Admission- A Single Center Experience. Translational Perioperative and Pain Medicine, 2019, 6, 75-80.	0.1	3
65	Improvement of PaO2 During One-Lung Ventilation With Partial Left-Heart Bypass in Pediatric Patients Is Caused by Increased Blood Flow to the Dependent Lung. Journal of Cardiothoracic and Vascular Anesthesia, 2013, 27, 542-545.	1.3	2
66	The Use of Regional Catheters in Children Undergoing Repair of Aortic Coarctation. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 3694-3699.	1.3	2
67	Surgical Site Infections and Perioperative Optimization of Host Immunity by Selection of Anesthetics. BioMed Research International, 2021, 2021, 1-9.	1.9	2
68	The Role of Anesthetic Selection in Perioperative Bleeding. BioMed Research International, 2021, 2021, 1-6.	1.9	2
69	Isoflurane attenuates sepsis-associated lung injury. Biochemical and Biophysical Research Communications, 2022, 599, 127-133.	2.1	2
70	Comparison of actual oxygen delivery kinetics to those predicted by mathematical modeling following stage 1 palliation just prior to superior cavopulmonary anastomosis. Paediatric Anaesthesia, 2015, 25, 174-179.	1.1	1
71	Incidence and Risk Factors of Perioperative Mortality in Pediatric ICU Patients. Translational Perioperative and Pain Medicine, 2018, 5, 49-54.	0.1	1
72	A simple screening test of filtration efficiency for protecting the gas sampling line from coronavirus using fluorescent microspheres. Paediatric Anaesthesia, 2020, 30, 1269-1274.	1.1	1

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73	The Characterization of Postoperative Mechanical Respiratory Requirement in Neonates and Infants Undergoing Cardiac Surgery on Cardiopulmonary Bypass in a Single Tertiary Institution. Journal of Cardiothoracic and Vascular Anesthesia, 2022, 36, 215-221.	1.3	1
74	Left Ventricular Outflow Tract Gradient Is Associated With Coronary Artery Obstruction in Children With Williams-Beuren Syndrome. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 3677-3680.	1.3	1
75	Anesthetic Management for Heart Transplantation in Adults with Congenital Heart Disease. Translational Perioperative and Pain Medicine, 2020, 7, 248-252.	0.1	1
76	Should we Routinely Reverse Neuromuscular Blockade with Sugammadex in Patients with a History of Heart Transplantation?. Translational Perioperative and Pain Medicine, 2020, 7, 185-189.	0.1	1
77	Model of Stretch-Induced Lung Injury to Study Different Lung Ventilation Regimens and the Role of Sedatives. Translational Perioperative and Pain Medicine, 2020, 7, 258-264.	0.1	1
78	Use of clindamycin as an alternative antibiotic prophylaxis. Perioperative Care and Operating Room Management, 2022, 28, 100278.	0.3	1
79	Cell-Free Ligand-Binding Assays for Integrin LFA-1. Methods in Molecular Biology, 2011, 757, 73-78.	0.9	0
80	The Microbial Flora in an Experimental Polymicrobial Abdominal Sepsis Model Probed by 16S rRNA Sequencing. Translational Perioperative and Pain Medicine, 2021, 8, 305-311.	0.1	0
81	Translational Role of Rodent Models to Study Ventilator-Induced Lung Injury.. Translational Perioperative and Pain Medicine, 2021, 8, 404-415.	0.1	0
82	How Should We Care for Patients with Congenital Heart Diseases Undergoing Surgical Procedures in Ambulatory Settings?. Translational Perioperative and Pain Medicine, 2022, 9, 416-420.	0.1	0