

Michael J Avram

List of Publications by Year in descending order

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96
papers

4,674
citations

94269

37
h-index

102304

66
g-index

97
all docs

97
docs citations

97
times ranked

3293
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual Neuromuscular Blockade and Critical Respiratory Events in the Postanesthesia Care Unit. <i>Anesthesia and Analgesia</i> , 2008, 107, 130-137.	1.1	540
2	A microfluidic culture model of the human reproductive tract and 28-day menstrual cycle. <i>Nature Communications</i> , 2017, 8, 14584.	5.8	327
3	Intraoperative Acceleromyographic Monitoring Reduces the Risk of Residual Neuromuscular Blockade and Adverse Respiratory Events in the Postanesthesia Care Unit. <i>Anesthesiology</i> , 2008, 109, 389-398.	1.3	272
4	Cerebral Oxygen Desaturation Events Assessed by Near-Infrared Spectroscopy During Shoulder Arthroscopy in the Beach Chair and Lateral Decubitus Positions. <i>Anesthesia and Analgesia</i> , 2010, 111, 496-505.	1.1	226
5	Intraoperative Acceleromyography Monitoring Reduces Symptoms of Muscle Weakness and Improves Quality of Recovery in the Early Postoperative Period. <i>Anesthesiology</i> , 2011, 115, 946-954.	1.3	146
6	Preoperative Dexamethasone Enhances Quality of Recovery after Laparoscopic Cholecystectomy. <i>Anesthesiology</i> , 2011, 114, 882-890.	1.3	145
7	Postoperative Residual Neuromuscular Blockade Is Associated with Impaired Clinical Recovery. <i>Anesthesia and Analgesia</i> , 2013, 117, 133-141.	1.1	137
8	Gastric Emptying of Water in Term Pregnancy. <i>Anesthesiology</i> , 2002, 96, 1395-1400.	1.3	133
9	Gastric Emptying of Water in Obese Pregnant Women at Term. <i>Anesthesia and Analgesia</i> , 2007, 105, 751-755.	1.1	121
10	Residual Paralysis at the Time of Tracheal Extubation. <i>Anesthesia and Analgesia</i> , 2005, 100, 1840-1845.	1.1	114
11	Residual Neuromuscular Block in the Elderly. <i>Anesthesiology</i> , 2015, 123, 1322-1336.	1.3	106
12	Plasma microbiome-modulated indole- and phenyl-derived metabolites associate with advanced atherosclerosis and postoperative outcomes. <i>Journal of Vascular Surgery</i> , 2018, 68, 1552-1562.e7.	0.6	105
13	Postanesthesia Care Unit Recovery Times and Neuromuscular Blocking Drugs: A Prospective Study of Orthopedic Surgical Patients Randomized to Receive Pancuronium or Rocuronium. <i>Anesthesia and Analgesia</i> , 2004, 98, 193-200.	1.1	91
14	Pharmacokinetics of midazolam, propofol, and fentanyl transfer to human breast milk. <i>Clinical Pharmacology and Therapeutics</i> , 2006, 79, 549-557.	2.3	87
15	Intraoperative Methadone for the Prevention of Postoperative Pain. <i>Anesthesiology</i> , 2015, 122, 1112-1122.	1.3	87
16	Age-Stratified Pharmacokinetics of Ketorolac Tromethamine in Pediatric Surgical Patients. <i>Anesthesia and Analgesia</i> , 2002, 94, 266-270.	1.1	86
17	Using Front-end Kinetics to Optimize Target-controlled Drug Infusions. <i>Anesthesiology</i> , 2003, 99, 1078-1086.	1.3	81
18	Clinical Effectiveness and Safety of Intraoperative Methadone in Patients Undergoing Posterior Spinal Fusion Surgery. <i>Anesthesiology</i> , 2017, 126, 822-833.	1.3	78

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19	Determinants of Thiopental Induction Dose Requirements. <i>Anesthesia and Analgesia</i> , 1993, 76, 1077-1081.	1.1	67
20	Opioids and Cardioprotection: The Impact of Morphine and Fentanyl on Recovery of Ventricular Function After Cardiopulmonary Bypass. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2006, 20, 493-502.	0.6	67
21	Small-Dose Dexamethasone Improves Quality of Recovery Scores After Elective Cardiac Surgery: A Randomized, Double-Blind, Placebo-Controlled Study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2011, 25, 950-960.	0.6	67
22	What Determines Anesthetic Induction Dose? It's the Front-End Kinetics, Doctor!. <i>Anesthesia and Analgesia</i> , 1999, 89, 541.	1.1	65
23	The Failure of Retrograde Autologous Priming of the Cardiopulmonary Bypass Circuit to Reduce Blood Use After Cardiac Surgical Procedures. <i>Anesthesia and Analgesia</i> , 2004, 98, 1201-1207.	1.1	55
24	The relationship between alfentanil distribution kinetics and cardiac output. <i>Clinical Pharmacology and Therapeutics</i> , 1992, 52, 190-196.	2.3	54
25	Impact of Shorter-acting Neuromuscular Blocking Agents on Fast-track Recovery of the Cardiac Surgical Patient. <i>Anesthesiology</i> , 2002, 96, 600-606.	1.3	52
26	Postoperative Pain and Analgesic Requirements in the First Year after Intraoperative Methadone for Complex Spine and Cardiac Surgery. <i>Anesthesiology</i> , 2020, 132, 330-342.	1.3	52
27	Development and Validation of a Generalizable Model for Predicting Major Transfusion During Spine Fusion Surgery. <i>Journal of Neurosurgical Anesthesiology</i> , 2014, 26, 205-215.	0.6	50
28	Extracranial contamination in the INVOS 5100C versus the FORE-SIGHT ELITE cerebral oximeter: a prospective observational crossover study in volunteers. <i>Canadian Journal of Anaesthesia</i> , 2016, 63, 24-30.	0.7	50
29	Midazolam kinetics in women of two age groups. <i>Clinical Pharmacology and Therapeutics</i> , 1983, 34, 505-508.	2.3	49
30	Recovery of Neuromuscular Function After Cardiac Surgery: Pancuronium Versus Rocuronium. <i>Anesthesia and Analgesia</i> , 2003, 96, 1301-1307.	1.1	49
31	The Effects of Morphine and Fentanyl on the Inflammatory Response to Cardiopulmonary Bypass in Patients Undergoing Elective Coronary Artery Bypass Graft Surgery. <i>Anesthesia and Analgesia</i> , 2007, 104, 1334-1342.	1.1	49
32	Premedication of Pediatric Tonsillectomy Patients with Oral Transmucosal Fentanyl Citrate. <i>Anesthesia and Analgesia</i> , 1998, 86, 66-70.	1.1	45
33	The Effect of Single Low-Dose Dexamethasone on Blood Glucose Concentrations in the Perioperative Period. <i>Anesthesia and Analgesia</i> , 2014, 118, 1204-1212.	1.1	41
34	Synthesis and anticancer activities of 6-amino amonafide derivatives. <i>Anti-Cancer Drugs</i> , 2008, 19, 23-36.	0.7	40
35	Uptake pharmacokinetics of the Fentanyl OraletR in children scheduled for central venous access removal: implications for the timing of initiating painful procedures. <i>Paediatric Anaesthesia</i> , 2002, 12, 594-599.	0.6	39
36	Comparison of the TOFscan and the TOF-Watch SX during Recovery of Neuromuscular Function. <i>Anesthesiology</i> , 2018, 129, 880-888.	1.3	39

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37	Intravascular mixing and drug distribution: The concurrent disposition of thiopental and indocyanine green. <i>Clinical Pharmacology and Therapeutics</i> , 1989, 45, 56-65.	2.3	38
38	Midazolam versus hydroxyzine as intramuscular premedicant. <i>Canadian Anaesthetists' Society Journal</i> , 1983, 30, 136-141.	0.5	37
39	Neostigmine Administration after Spontaneous Recovery to a Train-of-Four Ratio of 0.9 to 1.0. <i>Anesthesiology</i> , 2018, 128, 27-37.	1.3	36
40	A recirculatory model of the pulmonary uptake and pharmacokinetics of lidocaine based on analysis of arterial and mixed venous data from dogs. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1997, 25, 169-190.	0.6	35
41	A Randomized Controlled Trial of Low-Dose Tranexamic Acid versus Placebo to Reduce Red Blood Cell Transfusion During Complex Multilevel Spine Fusion Surgery. <i>World Neurosurgery</i> , 2018, 110, e572-e579.	0.7	33
42	β_2 -Adrenergic Blockade Affects Initial Drug Distribution Due to Decreased Cardiac Output and Altered Blood Flow Distribution. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 311, 617-624.	1.3	32
43	A Pharmacokinetically Designed Etomidate Infusion Regimen for Hypnosis. <i>Anesthesia and Analgesia</i> , 1983, 62, 654-660.	1.1	31
44	What Determines Anesthetic Induction Dose? It's the Front-End Kinetics, Doctor!. <i>Anesthesia and Analgesia</i> , 1999, 89, 541.	1.1	31
45	Indocyanine green kinetics characterize blood volume and flow distribution and their alteration by propranolol. <i>Clinical Pharmacology and Therapeutics</i> , 2000, 67, 342-350.	2.3	31
46	Perioperative Methadone and Ketamine for Postoperative Pain Control in Spinal Surgical Patients: A Randomized, Double-blind, Placebo-controlled Trial. <i>Anesthesiology</i> , 2021, 134, 697-708.	1.3	31
47	The Use of Neuromuscular Blocking Drugs in Adult Cardiac Surgery: Results of a National Postal Survey. <i>Anesthesia and Analgesia</i> , 2002, 95, 1534-1539.	1.1	29
48	Determination of ketorolac in human plasma by reversed-phase high-performance liquid chromatography using solid-phase extraction and ultraviolet detection. <i>Biomedical Applications</i> , 2001, 755, 383-386.	1.7	28
49	Retrograde Autologous Priming of the Cardiopulmonary Bypass Circuit: Safety and Impact on Postoperative Outcomes. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2006, 20, 156-161.	0.6	28
50	Morphine Bioavailability from a Topical Gel Formulation in Volunteers. <i>Journal of Pain and Symptom Management</i> , 2008, 35, 314-320.	0.6	28
51	Morphine-Based Cardiac Anesthesia Provides Superior Early Recovery Compared with Fentanyl in Elective Cardiac Surgery Patients. <i>Anesthesia and Analgesia</i> , 2009, 109, 311-319.	1.1	27
52	Postoperative Intravenous Acetaminophen for Craniotomy Patients: A Randomized Controlled Trial. <i>World Neurosurgery</i> , 2018, 109, e554-e562.	0.7	25
53	Pharmacokinetics and pharmacodynamics of vecuronium administered by bolus and infusion during halothane or balanced anesthesia. <i>Clinical Pharmacology and Therapeutics</i> , 1987, 42, 459-464.	2.3	23
54	Cyclosporine-inhibitable Blood-Brain Barrier Drug Transport Influences Clinical Morphine Pharmacodynamics. <i>Anesthesiology</i> , 2013, 119, 941-953.	1.3	22

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55	A pharmacokinetic-pharmacodynamic model for quantal responses with thiopental. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1993, 21, 309-321.	0.6	20
56	Recirculatory Pharmacokinetic Model of the Uptake, Distribution, and Bioavailability of Prochlorperazine Administered as a Thermally Generated Aerosol in a Single Breath to Dogs. <i>Drug Metabolism and Disposition</i> , 2007, 35, 262-267.	1.7	20
57	Correlation of the Myocardial Performance Index with Conventional Echocardiographic Indices of Systolic and Diastolic Function: A Study in Cardiac Surgical Patients. <i>Echocardiography</i> , 2007, 24, 26-33.	0.3	19
58	A Minimal Physiological Model of Thiopental Distribution Kinetics Based on a Multiple Indicator Approach. <i>Drug Metabolism and Disposition</i> , 2007, 35, 1525-1532.	1.7	16
59	Dose-Finding and Pharmacokinetic Study of Intramuscular Midazolam. <i>Journal of Clinical Pharmacology</i> , 1987, 27, 314-317.	1.0	15
60	Transit time dispersion in pulmonary and systemic circulation: effects of cardiac output and solute diffusivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H861-H870.	1.5	15
61	Determination of D-tubocurarine chloride or metocurine iodide in human plasma by high-performance liquid chromatography with ultraviolet detection. <i>Biomedical Applications</i> , 1984, 306, 398-404.	1.7	14
62	Determination of sodium pentobarbital and either sodium methohexital or sodium thiopental in plasma by high-performance liquid chromatography with ultraviolet detection. <i>Biomedical Applications</i> , 1987, 414, 484-491.	1.7	14
63	Circulatory Transport and Capillary-Tissue Exchange as Determinants of the Distribution Kinetics of Inulin and Antipyrine in Dog. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 913-926.	1.6	14
64	The Concordance of Early Antipyrine and Thiopental Distribution Kinetics. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 302, 594-600.	1.3	12
65	Combined Recirculatory-compartmental Population Pharmacokinetic Modeling of Arterial and Venous Plasma S(+) and R(â€“) Ketamine Concentrations. <i>Anesthesiology</i> , 2018, 129, 260-270.	1.3	12
66	The Initial Rate of Change in Distribution Volume is the Sum of Intercompartmental Clearances. <i>Journal of Pharmaceutical Sciences</i> , 1986, 75, 919-920.	1.6	10
67	Recirculatory Pharmacokinetic Modeling. <i>Anesthesia and Analgesia</i> , 2012, 115, 223-226.	1.1	10
68	Procedural Timeout Compliance Is Improved With Real-Time Clinical Decision Support. <i>Journal of Patient Safety</i> , 2018, 14, 148-152.	0.7	10
69	Efficacy of Pregabalin in the Treatment of Radicular Pain: Results of a Controlled Trial. <i>Anesthesiology and Pain Medicine</i> , 2015, 5, e28110.	0.5	10
70	Neuromuscular and Clinical Recovery in Thoracic Surgical Patients Reversed With Neostigmine or Sugammadex. <i>Anesthesia and Analgesia</i> , 2021, 133, 435-444.	1.1	10
71	6-Methoxyethylamino- ϵ -monafide inhibits hepatocellular carcinoma xenograft growth as a single agent and in combination with sorafenib. <i>FASEB Journal</i> , 2017, 31, 5453-5465.	0.2	9
72	Pharmacokinetic studies in pregnancy. <i>Seminars in Perinatology</i> , 2020, 44, 151227.	1.1	9

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73	Metocurine kinetics in patients undergoing operations requiring cardiopulmonary bypass. <i>Clinical Pharmacology and Therapeutics</i> , 1987, 42, 576-581.	2.3	8
74	A physiologically based model of hepatic ICG clearance: Interplay between sinusoidal uptake and biliary excretion. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 44, 359-365.	1.9	8
75	The pharmacokinetics of intravenous ketorolac in children aged 2Âmonths to 16Âyears: A population analysis. <i>Paediatric Anaesthesia</i> , 2018, 28, 80-86.	0.6	8
76	Residual Neuromuscular Block and Adverse Respiratory Events. <i>Anesthesia and Analgesia</i> , 2008, 107, 1756.	1.1	7
77	Consent for Anesthesia Clinical Trials on the Day of Surgery. <i>Anesthesiology</i> , 2016, 124, 1246-1255.	1.3	7
78	Pharmacokinetics and biodistribution of a collagenâ€targeted peptide amphiphile for cardiovascular applications. <i>Pharmacology Research and Perspectives</i> , 2020, 8, e00672.	1.1	7
79	Glucocorticoid Clearance and Metabolite Profiling in an In Vitro Human Airway Epithelium Lung Model. <i>Drug Metabolism and Disposition</i> , 2016, 44, 220-226.	1.7	6
80	Lithium Pharmacokinetics in the Perinatal Patient With Bipolar Disorder. <i>Journal of Clinical Pharmacology</i> , 2022, 62, 1385-1392.	1.0	5
81	Microbiota composition modulates inflammation and neointimal hyperplasia after arterial angioplasty. <i>Journal of Vascular Surgery</i> , 2020, 71, 1378-1389.e3.	0.6	4
82	Trajectories of Depressive and Anxiety Symptoms Across Pregnancy and Postpartum in Selective Serotonin Reuptake Inhibitorâ€Treated Women. <i>Psychiatric Research and Clinical Practice</i> , 2022, 4, 32-41.	1.3	4
83	The Pharmacokinetics and Pharmacodynamics of Zaleplon Delivered as a Thermally Generated Aerosol in a Single Breath to Volunteers. <i>Journal of Clinical Pharmacology</i> , 2013, 53, 140-150.	1.0	3
84	Factors Associated With Implantable Pulse Generator Site Pain: A Multicenter Crossâ€Sectional Study. <i>Neuromodulation</i> , 2020, , .	0.4	3
85	Research, Not Quality Assurance. <i>Anesthesia and Analgesia</i> , 2009, 108, 376-377.	1.1	2
86	Pharmacokinetics of opioids. , 0, , 509-530.		2
87	Initial Distribution Volume Estimates Affect The Kinetic Model and Targeted Infusions. <i>Clinical Pharmacology and Therapeutics</i> , 2003, 73, P85-P85.	2.3	1
88	Whatâ€™s New in Pharmacokinetics and Pharmacodynamics?. <i>Anesthesiology Clinics</i> , 1988, 6, 251-280.	1.4	1
89	Elimination Clearance of Dexmedetomidine: Cross-examining What the Data Say. <i>Anesthesiology</i> , 2022, 136, 258-260.	1.3	1
90	Pharmacokinetic and pharmacodynamic principles. <i>Bailliere's Clinical Anaesthesiology</i> , 1991, 5, 489-511.	0.2	0

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91	In Response. <i>Anesthesia and Analgesia</i> , 2014, 118, 692-693.	1.1	0
92	Beta blockade increases pulmonary and systemic transit time heterogeneity: evaluation based on indocyanine green kinetics in healthy volunteers. <i>Clinical Physiology and Functional Imaging</i> , 2017, 37, 270-275.	0.5	0
93	In Reply. <i>Anesthesiology</i> , 2018, 129, 384-385.	1.3	0
94	Journal-related Activities and Other Special Activities at the 2018 American Society of Anesthesiologists Meeting. <i>Anesthesiology</i> , 2018, 129, 634-643.	1.3	0
95	Journal-related Activities and Other Special Activities at the 2014 American Society of Anesthesiologists Annual Meeting. <i>Anesthesiology</i> , 2014, 121, 681-689.	1.3	0
96	Methadone and Chronic Pain: Reply. <i>Anesthesiology</i> , 2020, 133, 672-673.	1.3	0