

Adrian W Gelb

List of Publications by Year in descending order

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114
papers

4,712
citations

101543

36
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106344

65
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119
all docs

119
docs citations

119
times ranked

3866
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | CT Assessment of Cerebral Perfusion: Experimental Validation and Initial Clinical Experience. <i>Radiology</i> , 1999, 213, 141-149. | 7.3 | 239 |
| 2 | Cardiac Output and Cerebral Blood Flow. <i>Anesthesiology</i> , 2015, 123, 1198-1208. | 2.5 | 225 |
| 3 | Cervical Spine Motion: A Fluoroscopic Comparison During Intubation with Lighted Stylet, GlideScope, and Macintosh Laryngoscope. <i>Anesthesia and Analgesia</i> , 2005, 101, 910-915. | 2.2 | 215 |
| 4 | Regulation of Cerebral Autoregulation by Carbon Dioxide. <i>Anesthesiology</i> , 2015, 122, 196-205. | 2.5 | 207 |
| 5 | Preoperative anxiety: detection and contributing factors. <i>Canadian Journal of Anaesthesia</i> , 1990, 37, 444-447. | 1.6 | 202 |
| 6 | Mild Hypothermia as a Protective Therapy during Intracranial Aneurysm Surgery: A Randomized Prospective Pilot Trial. <i>Neurosurgery</i> , 1999, 44, 23-32. | 1.1 | 199 |
| 7 | Situation Awareness in Anesthesia. <i>Anesthesiology</i> , 2013, 118, 729-742. | 2.5 | 196 |
| 8 | Perioperative Care of Patients at High Risk for Stroke during or after Non-Cardiac, Non-Neurologic Surgery. <i>Journal of Neurosurgical Anesthesiology</i> , 2014, 26, 273-285. | 1.2 | 117 |
| 9 | Preoperative Medical Testing in Medicare Patients Undergoing Cataract Surgery. <i>New England Journal of Medicine</i> , 2015, 372, 1530-1538. | 27.0 | 117 |
| 10 | Perfusion Mapping Using Computed Tomography Allows Accurate Prediction of Cerebral Infarction in Experimental Brain Ischemia. <i>Stroke</i> , 2001, 32, 175-183. | 2.0 | 112 |
| 11 | Free Radicals, Antioxidants, and Neurologic Injury: Possible Relationship to Cerebral Protection by Anesthetics. <i>Journal of Neurosurgical Anesthesiology</i> , 2002, 14, 66-79. | 1.2 | 107 |
| 12 | The effect of high-dose mannitol on serum and urine electrolytes and osmolality in neurosurgical patients. <i>Canadian Journal of Anaesthesia</i> , 1987, 34, 442-446. | 1.6 | 103 |
| 13 | Quantitative Assessment of Cerebral Hemodynamics Using CT: Stability, Accuracy, and Precision Studies in Dogs. <i>Journal of Computer Assisted Tomography</i> , 1999, 23, 506-515. | 0.9 | 102 |
| 14 | Glutamate stimulates ascorbate transport by astrocytes. <i>Brain Research</i> , 2000, 858, 61-66. | 2.2 | 100 |
| 15 | World Health Organization-World Federation of Societies of Anaesthesiologists (WHO-WFSA) International Standards for a Safe Practice of Anesthesia. <i>Canadian Journal of Anaesthesia</i> , 2018, 65, 698-708. | 1.6 | 100 |
| 16 | Propofol Sedation During Awake Craniotomy for Seizures. <i>Anesthesia and Analgesia</i> , 1997, 84, 1285-1291. | 2.2 | 97 |
| 17 | The use of motor evoked potential monitoring during cerebral aneurysm surgery to predict pure motor deficits due to subcortical ischemia. <i>Clinical Neurophysiology</i> , 2011, 122, 648-655. | 1.5 | 96 |
| 18 | Blood Pressure Targets in Perioperative Care. <i>Hypertension</i> , 2018, 72, 806-817. | 2.7 | 96 |

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|----|---|-----|-----------|
| 19 | Evoked potential monitoring during posterior fossa aneurysm surgery: a comparison of two modalities. <i>Canadian Journal of Anaesthesia</i> , 1994, 41, 92-97. | 1.6 | 88 |
| 20 | Does Hyperventilation Improve Operating Condition During Supratentorial Craniotomy? A Multicenter Randomized Crossover Trial. <i>Anesthesia and Analgesia</i> , 2008, 106, 585-594. | 2.2 | 84 |
| 21 | Improving perioperative brain health: an expert consensus review of key actions for the perioperative care team. <i>British Journal of Anaesthesia</i> , 2021, 126, 423-432. | 3.4 | 78 |
| 22 | The Effects of Propofol in the Area Postrema of Rats. <i>Anesthesia and Analgesia</i> , 2001, 92, 934-942. | 2.2 | 76 |
| 23 | Comparison of fentanyl, sufentanil and alfentanil during awake craniotomy for epilepsy. <i>Canadian Journal of Anaesthesia</i> , 1993, 40, 421-424. | 1.6 | 75 |
| 24 | Cardiovascular Predictors of In-Patient Mortality After Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2006, 5, 102-107. | 2.4 | 71 |
| 25 | Chinese Anesthesiologists Have High Burnout and Low Job Satisfaction: A Cross-Sectional Survey. <i>Anesthesia and Analgesia</i> , 2018, 126, 1004-1012. | 2.2 | 65 |
| 26 | Action of propofol on central sympathetic mechanisms controlling blood pressure. <i>Canadian Journal of Anaesthesia</i> , 1993, 40, 761-769. | 1.6 | 63 |
| 27 | Propofol Sedation During Awake Craniotomy for Seizures. <i>Anesthesia and Analgesia</i> , 1997, 84, 1280-1284. | 2.2 | 62 |
| 28 | Independent Associations Between Electrocardiographic Abnormalities and Outcomes in Patients With Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2009, 40, 412-418. | 2.0 | 53 |
| 29 | The Potential Benefits of Awake Craniotomy for Brain Tumor Resection. <i>Journal of Neurosurgical Anesthesiology</i> , 2015, 27, 310-317. | 1.2 | 53 |
| 30 | Propofol Protection of Sodium-Hydrogen Exchange Activity Sustains Glutamate Uptake During Oxidative Stress. <i>Anesthesia and Analgesia</i> , 2001, 93, 1199-1204. | 2.2 | 47 |
| 31 | Sedative Doses of Remifentanil Have Minimal Effect on ECoG Spike Activity During Awake Epilepsy Surgery. <i>Journal of Neurosurgical Anesthesiology</i> , 2002, 14, 55-58. | 1.2 | 44 |
| 32 | Anaesthetic management of the brain dead for organ donation. <i>Canadian Journal of Anaesthesia</i> , 1990, 37, 806-812. | 1.6 | 41 |
| 33 | Cerebral Blood Volume and Blood Flow at Varying Arterial Carbon Dioxide Tension Levels in Rabbits During Propofol Anesthesia. <i>Anesthesia and Analgesia</i> , 2000, 90, 1376-1383. | 2.2 | 41 |
| 34 | Perspectives on Dexmedetomidine Use for Neurosurgical Patients. <i>Journal of Neurosurgical Anesthesiology</i> , 2019, 31, 366-377. | 1.2 | 39 |
| 35 | Mild Sedation Exacerbates or Unmasks Focal Neurologic Dysfunction in Neurosurgical Patients with Supratentorial Brain Mass Lesions in a Drug-specific Manner. <i>Anesthesiology</i> , 2016, 124, 598-607. | 2.5 | 38 |
| 36 | Choice of ANesthesia for EndoVAscular Treatment of Acute Ischemic Stroke (CANVAS): Results of the CANVAS Pilot Randomized Controlled Trial. <i>Journal of Neurosurgical Anesthesiology</i> , 2020, 32, 41-47. | 1.2 | 38 |

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|----|--|-----|-----------|
| 37 | Orthostatic Hypotension Occurs Frequently in the First Hour After Anesthesia. <i>Anesthesia and Analgesia</i> , 2004, 98, 40-45. | 2.2 | 37 |
| 38 | Perioperative Care of Patients at High Risk for Stroke During or After Non-cardiac, Non-neurological Surgery: 2020 Guidelines From the Society for Neuroscience in Anesthesiology and Critical Care. <i>Journal of Neurosurgical Anesthesiology</i> , 2020, 32, 210-226. | 1.2 | 36 |
| 39 | Propofol Induces Dilatation and Inhibits Constriction in Guinea Pig Basilar Arteries. <i>Anesthesia and Analgesia</i> , 1996, 83, 472-476. | 2.2 | 35 |
| 40 | Effects of Fentanyl, Sufentanil, and Alfentanil on Brain Retractor Pressure. <i>Anesthesia and Analgesia</i> , 1991, 72, 359-363. | 2.2 | 34 |
| 41 | Patient-controlled propofol sedation for elderly patients: safety and patient attitude toward control. <i>Canadian Journal of Anaesthesia</i> , 1996, 43, 1014-1018. | 1.6 | 34 |
| 42 | Propofol and Hyperventilation for the Treatment of Increased Intracranial Pressure in Rabbits. <i>Anesthesia and Analgesia</i> , 1998, 87, 564-568. | 2.2 | 34 |
| 43 | Propofol patient-controlled sedation during hip or knee arthroplasty in elderly patients. <i>Canadian Journal of Anaesthesia</i> , 1997, 44, 385-389. | 1.6 | 32 |
| 44 | The Need for a Global Perspective on Task-Sharing in Anesthesia. <i>Anesthesia and Analgesia</i> , 2017, 125, 1049-1052. | 2.2 | 32 |
| 45 | The stress response to induced hypotension for cerebral aneurysm surgery: a comparison of two hypotensive techniques. <i>Canadian Journal of Anaesthesia</i> , 1988, 35, 111-115. | 1.6 | 31 |
| 46 | Cerebral Blood Volume and Blood Flow Responses to Hyperventilation in Brain Tumors During Isoflurane or Propofol Anesthesia. <i>Anesthesia and Analgesia</i> , 2002, 94, 661-666. | 2.2 | 31 |
| 47 | The Comparative Effects of Desflurane and Isoflurane on Lumbar Cerebrospinal Fluid Pressure in Patients Undergoing Craniotomy for Supratentorial Tumors. <i>Anesthesia and Analgesia</i> , 2004, 98, 1127-1132. | 2.2 | 30 |
| 48 | Reflex-Mediated Reduction in Human Cerebral Blood Volume. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 136-143. | 4.3 | 30 |
| 49 | Global surgery, obstetric, and anaesthesia indicator definitions and reporting: An Utstein consensus report. <i>PLoS Medicine</i> , 2021, 18, e1003749. | 8.4 | 28 |
| 50 | Propofol Differentially Attenuates the Responses to Exogenous and Endogenous Norepinephrine in the Isolated Rat Femoral Artery In Vitro. <i>Anesthesia and Analgesia</i> , 1995, 80, 793-799. | 2.2 | 27 |
| 51 | Anesthesia for interventional neuroradiology. <i>Journal of Clinical Anesthesia</i> , 1995, 7, 448-452. | 1.6 | 26 |
| 52 | Anesthesia Provider Training and Practice Models. <i>Anesthesia and Analgesia</i> , 2019, 129, 839-846. | 2.2 | 26 |
| 53 | The Effect of Hypothermia on the Expression of the Apoptosis-Regulating Protein Bax After Incomplete Cerebral Ischemia and Reperfusion in Rats. <i>Journal of Neurosurgical Anesthesiology</i> , 2003, 15, 200-208. | 1.2 | 24 |
| 54 | Venous Oxygen Embolism Produced by Injection of Hydrogen Peroxide into an Enterocutaneous Fistula. <i>Anesthesia and Analgesia</i> , 2004, 99, 1861-1863. | 2.2 | 24 |

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|----|--|-----|-----------|
| 55 | Recognition and Management of Perioperative Stroke in Hospitalized Patients. A & A Case Reports, 2016, 7, 55-56. | 0.7 | 24 |
| 56 | Predicting Perioperative Stroke. Journal of Neurosurgical Anesthesiology, 1995, 7, 211-215. | 1.2 | 23 |
| 57 | Awake brain tumor resection during pregnancy: Decision making and technical nuances. Journal of Clinical Neuroscience, 2016, 24, 160-162. | 1.5 | 22 |
| 58 | False Negatives, Muscle Relaxants, and Motor-evoked Potentials. Journal of Neurosurgical Anesthesiology, 2011, 23, 64. | 1.2 | 19 |
| 59 | Isoflurane Alters the Kinetics of Oral Cyclosporine. Anesthesia and Analgesia, 1991, 72, 801-804. | 2.2 | 18 |
| 60 | Choice of ANesthesia for EndoVAscular Treatment of Acute Ischemic Stroke: Protocol for a randomized controlled (CANVAS) trial. International Journal of Stroke, 2017, 12, 991-997. | 5.9 | 18 |
| 61 | Magnesium deficiency increases ketamine sensitivity in rats. Canadian Journal of Anaesthesia, 1997, 44, 883-890. | 1.6 | 17 |
| 62 | The need to collect, aggregate, and analyze global anesthesia and surgery data. Canadian Journal of Anaesthesia, 2019, 66, 218-229. | 1.6 | 17 |
| 63 | Isoflurane for the Management of Status Epilepticus. DICP: the Annals of Pharmacotherapy, 1989, 23, 579-581. | 0.2 | 16 |
| 64 | The Long-Term Effect of Four Hours of Hyperventilation on Neurocognitive Performance and Lesion Size After Controlled Cortical Impact in Rats. Anesthesia and Analgesia, 2010, 110, 181-187. | 2.2 | 16 |
| 65 | Effect of Nitrous Oxide on Cerebral Blood Flow Velocity After Induction of Hypocapnia. Journal of Neurosurgical Anesthesiology, 1998, 10, 142-145. | 1.2 | 15 |
| 66 | The Correlation Between Recordable MEPs and Motor Function During Spinal Surgery for Resection of Thoracic Spinal Cord Tumor. Journal of Neurosurgical Anesthesiology, 2018, 30, 39-43. | 1.2 | 15 |
| 67 | Impact of capnography on patient safety in high- and low-income settings: a scoping review. British Journal of Anaesthesia, 2020, 125, e88-e103. | 3.4 | 15 |
| 68 | The effects of a prophylactic bolus of lidocaine in focal cerebral ischaemia. Canadian Journal of Anaesthesia, 1988, 35, 489-493. | 1.6 | 14 |
| 69 | Perioperative Monitoring of the Electrocardiogram During Cerebral Aneurysm Surgery. Journal of Neurosurgical Anesthesiology, 1990, 2, 16-22. | 1.2 | 13 |
| 70 | Patient-Controlled Sedation Using Propofol During Interventional Neuroradiologic Procedures. Journal of Neurosurgical Anesthesiology, 1997, 9, 237-241. | 1.2 | 13 |
| 71 | Relating drug-induced changes in carotid artery mechanics to cardiovagal and sympathetic baroreflex control. Canadian Journal of Physiology and Pharmacology, 2005, 83, 439-446. | 1.4 | 13 |
| 72 | Awake craniotomy in a patient with ejection fraction of 10%: considerations of cerebrovascular and cardiovascular physiology. Journal of Clinical Anesthesia, 2015, 27, 256-261. | 1.6 | 13 |

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|----|---|-----|-----------|
| 73 | Midazolam Sedation Induces Upper Limb Coordination Deficits That Are Reversed by Flumazenil in Patients with Eloquent Area Gliomas. <i>Anesthesiology</i> , 2019, 131, 36-45. | 2.5 | 12 |
| 74 | Motor System Interactions in the Beta Band Decrease during Loss of Consciousness. <i>Journal of Cognitive Neuroscience</i> , 2016, 28, 84-95. | 2.3 | 11 |
| 75 | Anesthesia for intracranial aneurysm surgery. <i>Journal of Clinical Anesthesia</i> , 1992, 4, 73-85. | 1.6 | 10 |
| 76 | Methylparaben and propylparaben do not alter cerebral blood flow in humans. <i>Canadian Journal of Anaesthesia</i> , 1992, 39, 691-694. | 1.6 | 9 |
| 77 | The long-term survival of baboon-to-monkey kidney and liver xenografts*. <i>Xenotransplantation</i> , 2003, 10, 398-409. | 2.8 | 9 |
| 78 | ANESTHETIC CONSIDERATIONS FOR THE PREVIOUSLY TRANSPLANTED PATIENT. <i>Anesthesiology Clinics</i> , 1994, 12, 827-843. | 1.4 | 9 |
| 79 | The path to safe and accessible anaesthesia care. <i>Indian Journal of Anaesthesia</i> , 2019, 63, 965. | 1.0 | 9 |
| 80 | Hyponatremia and Subarachnoid Hemorrhage: Will That Be One Pinch or Two of Salt?. <i>Anesthesia and Analgesia</i> , 2009, 108, 1734-1735. | 2.2 | 8 |
| 81 | Brain tolerance to middle cerebral artery occlusion during hypotension in primates. <i>World Neurosurgery</i> , 1989, 31, 6-13. | 1.3 | 7 |
| 82 | Perceptions of Perioperative Stroke Among Chinese Anesthesiologists. <i>Anesthesia and Analgesia</i> , 2019, 128, 191-196. | 2.2 | 7 |
| 83 | The Amygdala and Cardiovascular Control. <i>Journal of Neurosurgical Anesthesiology</i> , 2001, 13, 285-287. | 1.2 | 7 |
| 84 | Electrocardiographic changes during and after isoflurane-induced hypotension for neurovascular surgery. <i>Canadian Journal of Anaesthesia</i> , 1987, 34, 549-554. | 1.6 | 6 |
| 85 | Succinylcholine Does Not Increase Serum Potassium Levels in Patients With Acutely Ruptured Cerebral Aneurysms. <i>Anesthesia and Analgesia</i> , 1990, 70, 172-175. | 2.2 | 6 |
| 86 | Assessment of Anesthesia Capacity in Public Surgical Hospitals in Guatemala. <i>Anesthesia and Analgesia</i> , 2021, 132, 536-544. | 2.2 | 6 |
| 87 | Actions of propofol on pontine neurons controlling arterial pressure in rats. <i>Canadian Journal of Anaesthesia</i> , 1995, 42, 150-157. | 1.6 | 5 |
| 88 | Rate of change of cerebral blood flow velocity with hyperventilation during anesthesia in humans. <i>Canadian Journal of Anaesthesia</i> , 2000, 47, 125-130. | 1.6 | 5 |
| 89 | Oximetr a cerebral: tres preguntas esenciales. <i>Colombian Journal of Anesthesiology</i> , 2015, 43, 52-56. | 0.1 | 5 |
| 90 | 72nd World Health Assembly, Geneva, Switzerland, 2019. <i>Anesthesia and Analgesia</i> , 2020, 130, e92-e94. | 2.2 | 5 |

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|-----|--|------|-----------|
| 91 | The World Federation of Societies of Anaesthesiologists Minimum Capnometer Specifications 2021â€”A Guide for Health Care Decision Makers. <i>Anesthesia and Analgesia</i> , 2021, 133, 1132-1137. | 2.2 | 5 |
| 92 | Phenylephrine Increases Cerebral Perfusion Pressure Without Increasing Intracranial Pressure in Rabbits With Balloon-Elevated Intracranial Pressure. <i>Journal of Neurosurgical Anesthesiology</i> , 2002, 14, 31-34. | 1.2 | 4 |
| 93 | Sex and Gender in the Perioperative Period: Wake Up to Reality. <i>Anesthesia and Analgesia</i> , 2008, 107, 1-3. | 2.2 | 4 |
| 94 | Preoperative Testing in Patients Undergoing Cataract Surgery. <i>New England Journal of Medicine</i> , 2015, 373, 285-286. | 27.0 | 4 |
| 95 | The Bare Minimum Requires Caution. <i>World Journal of Surgery</i> , 2016, 40, 2821-2822. | 1.6 | 4 |
| 96 | Anesthesia for the surgical treatment of cerebral aneurysms. <i>Colombian Journal of Anesthesiology</i> , 2015, 43, 45-51. | 0.1 | 3 |
| 97 | Global PRoMiSe (Perioperative Recommendations for Medication Safety): protocol for a mixed-methods study. <i>BMJ Open</i> , 2020, 10, e038313. | 1.9 | 3 |
| 98 | Local Anesthetics in Cerebral Ischemia. <i>Journal of Neurosurgical Anesthesiology</i> , 1989, 1, 383-386. | 1.2 | 2 |
| 99 | Perioperative Stroke. <i>Refresher Courses in Anesthesiology</i> , 2014, 42, 100-107. | 0.1 | 2 |
| 100 | Monitoring cerebral tissue oxygen saturation at frontal and parietal regions during carotid artery stenting. <i>Journal of Anesthesia</i> , 2016, 30, 340-344. | 1.7 | 2 |
| 101 | Myocardial Infarction After Noncardiac Surgery. <i>Survey of Anesthesiology</i> , 1999, 43, 94. | 0.1 | 1 |
| 102 | Cold Comfort From Tepid Temperatures. <i>Journal of Neurosurgical Anesthesiology</i> , 2002, 14, 277-278. | 1.2 | 1 |
| 103 | In Reply. <i>Anesthesiology</i> , 2016, 124, 1198-1198. | 2.5 | 1 |
| 104 | Initiatives to support rural access to anesthesia. <i>Canadian Journal of Anaesthesia</i> , 2022, , 1. | 1.6 | 1 |
| 105 | The in vitro and in vivo influence of propofol on hemorheological parameters: A randomised, double blind study in patients undergoing minor orthopedic surgery. <i>Clinical Hemorheology and Microcirculation</i> , 1996, 16, 533-541. | 1.7 | 0 |
| 106 | Propofol Sedation During Awake Craniotomy for Seizures. <i>Survey of Anesthesiology</i> , 1998, 42, 207. | 0.1 | 0 |
| 107 | Propofol Sedation During Awake Craniotomy for Seizures. <i>Survey of Anesthesiology</i> , 1998, 42, 208. | 0.1 | 0 |
| 108 | Effect of Nitrous Oxide on Cerebral Blood Flow Velocity After Induction of Hypocapnia. <i>Survey of Anesthesiology</i> , 1999, 43, 211-212. | 0.1 | 0 |

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|-----|--|-----|-----------|
| 109 | Neuroprotection During Carotid Endarterectomy. Seminars in Cardiothoracic and Vascular Anesthesia, 2002, 6, 21-25. | 1.0 | 0 |
| 110 | Chapter 5 Control of the Cerebral Circulation. Refresher Courses in Anesthesiology, 2003, 31, 35-45. | 0.1 | 0 |
| 111 | In Reply. Anesthesiology, 2016, 125, 606-606. | 2.5 | 0 |
| 112 | Anesthesia for meningioma surgery. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 169, 285-295. | 1.8 | 0 |
| 113 | Hemorheological changes associated with brain death and their implications for potential organ donors. Transplant International, 1995, 8, 147-151. | 1.6 | 0 |
| 114 | Anesthetic Considerations for Carotid Endarterectomy. International Anesthesiology Clinics, 1984, 22, 153-164. | 0.8 | 0 |