## **Gerhard Schneider**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4742704/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Always Assess the Raw Electroencephalogram: Why Automated Burst Suppression Detection May Not Detect All Episodes. Anesthesia and Analgesia, 2023, 136, 346-354.	2.2	3
2	Targeted Interventions to Increase Blood Pressure and Decrease Anaesthetic Concentrations Reduce Intraoperative Burst Suppression: A Randomised, Interventional Clinical Trial. Frontiers in Systems Neuroscience, 2022, 16, 786816.	2.5	3
3	Evaluation of Anesthetic Specific EEG Dynamics during State Transitions between Loss and Return of Responsiveness. Brain Sciences, 2022, 12, 37.	2.3	6
4	Technical considerations when using the EEG export of the SEDLine Root device. Journal of Clinical Monitoring and Computing, 2021, 35, 1047-1054.	1.6	22
5	Time delay of the qCON monitor and its performance during state transitions. Journal of Clinical Monitoring and Computing, 2021, 35, 379-386.	1.6	7
6	Rates of bacterial co-infections and antimicrobial use in COVID-19 patients: a retrospective cohort study in light of antibiotic stewardship. European Journal of Clinical Microbiology and Infectious Diseases, 2021, 40, 859-869.	2.9	98
7	Invasive pulmonary aspergillosis in critically ill patients with severe COVID-19 pneumonia: Results from the prospective AspCOVID-19 study. PLoS ONE, 2021, 16, e0238825.	2.5	72
8	Rapid clinical evolution for COVID-19 translates into early hospital admission and unfavourable outcome: A preliminary report. Multidisciplinary Respiratory Medicine, 2021, 16, 744.	1.5	0
9	Combined implanted central venous access and cortical recording electrode array in freely behaving mice. MethodsX, 2021, 8, 101466.	1.6	1
10	Association of Troponin T levels and functional outcome 3Âmonths after subarachnoid hemorrhage. Scientific Reports, 2021, 11, 16154.	3.3	5
11	Machine learning identifies ICU outcome predictors in a multicenter COVID-19 cohort. Critical Care, 2021, 25, 295.	5.8	39
12	Dynamic Patterns of Global Brain Communication Differentiate Conscious From Unconscious Patients After Severe Brain Injury. Frontiers in Systems Neuroscience, 2021, 15, 625919.	2.5	7
13	The influence of age on EEG-based anaesthesia indices. Journal of Clinical Anesthesia, 2021, 73, 110325.	1.6	22
14	The First Derivative of the Electroencephalogram Facilitates Tracking of Electroencephalographic Alpha Band Activity During General Anesthesia. Anesthesia and Analgesia, 2021, Publish Ahead of Print, .	2.2	2
15	Dexamethasone therapy and rates of secondary pulmonary and bloodstream infections in critically ill COVID-19 patients. Multidisciplinary Respiratory Medicine, 2021, 16, 793.	1.5	12
16	The Strength of Alpha Oscillations in the Electroencephalogram Differently Affects Algorithms Used for Anesthesia Monitoring. Anesthesia and Analgesia, 2021, 133, 1577-1587.	2.2	7
17	Targeted temperature management in cardiac surgery: a systematic review and meta-analysis on postoperative cognitive outcomes. British Journal of Anaesthesia, 2021, , .	3.4	11
18	Identifying perioperative volume-related risk factors in head and neck surgeries with free flap reconstructions – An investigation with focus on the influence of red blood cell concentrates and noradrenaline use, Journal of Cranio-Maxillo-Facial Surgery, 2020, 48, 67-74.	1.7	13

#	Article	IF	CITATIONS
19	Propofol Affects Cortico-Hippocampal Interactions via $\hat{I}^2$ 3 Subunit-Containing GABAA Receptors. International Journal of Molecular Sciences, 2020, 21, 5844.	4.1	3
20	Machine learning for a combined electroencephalographic anesthesia index to detect awareness under anesthesia. PLoS ONE, 2020, 15, e0238249.	2.5	9
21	Age-Related EEG Features of Bursting Activity During Anesthetic-Induced Burst Suppression. Frontiers in Systems Neuroscience, 2020, 14, 599962.	2.5	9
22	Do private German health insurers invest their capital reserves of â,¬353 billion according to environmental, social and governance criteria?. Journal of Medical Ethics, 2020, , medethics-2020-106381.	1.8	3
23	The association of the anesthesiologist's academic and educational status with self-confidence, self-rated knowledge and objective knowledge in rational antibiotic application. BMC Research Notes, 2020, 13, 161.	1.4	0
24	Impact of Goal-Directed Therapy on Delayed Ischemia After Aneurysmal Subarachnoid Hemorrhage. Stroke, 2020, 51, 2287-2296.	2.0	39
25	Attenuation of Native Hyperpolarization-Activated, Cyclic Nucleotide-Gated Channel Function by the Volatile Anesthetic Sevoflurane in Mouse Thalamocortical Relay Neurons. Frontiers in Cellular Neuroscience, 2020, 14, 606687.	3.7	5
26	Spectral and Entropic Features Are Altered by Age in the Electroencephalogram in Patients under Sevoflurane Anesthesia. Anesthesiology, 2020, 132, 1003-1016.	2.5	71
27	State entropy and burst suppression ratio can show contradictory information. European Journal of Anaesthesiology, 2020, 37, 1084-1092.	1.7	7
28	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. Journal of Clinical Medicine, 2020, 9, 1514.	2.4	60
29	Impact of PReOperative Midazolam on OuTcome of Elderly patients (I-PROMOTE): study protocol for a multicentre randomised controlled trial. Trials, 2019, 20, 430.	1.6	21
30	Medical ethics in the Anthropocene: how are â,¬100 billion of German physicians' pension funds invested?. Lancet Planetary Health, The, 2019, 3, e405-e406.	11.4	8
31	Modulation of frontal EEG alpha oscillations during maintenance and emergence phases of general anaesthesia to improve early neurocognitive recovery in older patients: protocol for a randomised controlled trial. Trials, 2019, 20, 146.	1.6	21
32	Differences in pain treatment between surgeons and anaesthesiologists in a physician staffed prehospital emergency medical service: a retrospective cohort analysis. BMC Anesthesiology, 2019, 19, 18.	1.8	13
33	Assessment of Regional Perfusion and Organ Function: Less and Non-invasive Techniques. Frontiers in Medicine, 2019, 6, 50.	2.6	43
34	Teaching Ordinal Patterns to a Computer: Efficient Encoding Algorithms Based on the Lehmer Code. Entropy, 2019, 21, 1023.	2.2	14
35	The German version of the Critical-Care Pain Observation Tool for critically ill adults. Der Anaesthesist, 2019, 68, 836-842.	1.2	6
36	Changes in Whole Brain Dynamics and Connectivity Patterns during Sevoflurane- and Propofol-induced Unconsciousness Identified by Functional Magnetic Resonance Imaging. Anesthesiology, 2019, 130, 898-911.	2.5	54

#	Article	IF	CITATIONS
37	Diazepam and ethanol differently modulate neuronal activity in organotypic cortical cultures. BMC Neuroscience, 2019, 20, 58.	1.9	5
38	Cognitive decline in Tg2576 mice shows sex-specific differences and correlates with cerebral amyloid-beta. Behavioural Brain Research, 2019, 359, 408-417.	2.2	23
39	Continuous chest compressions with a simultaneous triggered ventilator in the Munich Emergency Medical Services: a case series. GMS German Medical Science, 2019, 17, Doc06.	2.7	5
40	Oxytocin levels in saliva correlate better than plasma levels with concentrations in the cerebrospinal fluid of patients in neurocritical care. Journal of Neuroendocrinology, 2018, 30, e12596.	2.6	81
41	The impact of the patient's initial NACA score on subjective and physiological indicators of workload during pre-hospital emergency care. PLoS ONE, 2018, 13, e0202215.	2.5	14
42	Substance-Specific Differences in Human Electroencephalographic Burst Suppression Patterns. Frontiers in Human Neuroscience, 2018, 12, 368.	2.0	26
43	Effect of a combined brief narrative exposure therapy with case management versus treatment as usual in primary care for patients with traumatic stress sequelae following intensive care medicine: study protocol for a multicenter randomized controlled trial (PICTURE). Trials, 2018, 19, 480.	1.6	8
44	GTS-21 attenuates loss of body mass, muscle mass, and function in rats having systemic inflammation with and without disuse atrophy. Pflugers Archiv European Journal of Physiology, 2018, 470, 1647-1657.	2.8	11
45	Intracerebroventricular injection of beta-amyloid in mice is associated with long-term cognitive impairment in the modified hole-board test. Behavioural Brain Research, 2017, 324, 15-20.	2.2	25
46	Coherence of <scp>BOLD</scp> signal and electrical activity in the human brain during deep sevoflurane anesthesia. Brain and Behavior, 2017, 7, e00679.	2.2	25
47	Tranexamic acid impairs hippocampal synaptic transmission mediated by gamma aminobutyric acid receptor type A. European Journal of Pharmacology, 2017, 815, 49-55.	3.5	5
48	The Power of Raw Data. Journal of Neurosurgical Anesthesiology, 2017, 29, 73-73.	1.2	0
49	The Input Is Reflected in the Output. Anesthesia and Analgesia, 2017, 124, 1734-1735.	2.2	2
50	Monitoring depth of sedation: evaluating the agreement between the Bispectral Index, qCON and the Entropy Module's State Entropy during flexible bronchoscopy. Minerva Anestesiologica, 2017, 83, 563-573.	1.0	26
51	Permutation Entropy: Too Complex a Measure for EEG Time Series?. Entropy, 2017, 19, 692.	2.2	43
52	Propofol and Sevoflurane Differentially Modulate Cortical Depolarization following Electric Stimulation of the Ventrobasal Thalamus. Frontiers in Computational Neuroscience, 2017, 11, 109.	2.1	13
53	The validity of linear and non-linear heart rate metrics as workload indicators of emergency physicians. PLoS ONE, 2017, 12, e0188635.	2.5	16
54	Self-confidence and knowledge of German ICU physicians in palliative care – a multicentre prospective study. BMC Palliative Care, 2017, 16, 57.	1.8	16

#	Article	IF	CITATIONS
55	Surgery for Infratentorial Mass. , 2017, , 385-394.		О
56	Intraoperative Mutimodal Evoked Potential Monitoring During Carotid Endarterectomy. Survey of Anesthesiology, 2016, 60, 40.	0.1	0
57	Intraoperative Multimodal Evoked Potential Monitoring During Carotid Endarterectomy. Anesthesia and Analgesia, 2015, 120, 1352-1360.	2.2	32
58	Differences between state entropy and bispectral index during analysis of identical electroencephalogram signals. European Journal of Anaesthesiology, 2015, 32, 354-365.	1.7	19
59	Comparison of Enk Fibreoptic Atomizer with translaryngeal injection for topical anaesthesia for awake fibreoptic intubation in patients at risk of secondary cervical injury. European Journal of Anaesthesiology, 2015, 32, 615-623.	1.7	21
60	BIS and state entropy of the EEG - comparing apples and oranges. British Journal of Anaesthesia, 2015, 115, 164-166.	3.4	10
61	Bispectral index aware or minimum alveolar concentration aware?. European Journal of Anaesthesiology, 2015, 32, 301-302.	1.7	2
62	Capnographic monitoring of midazolam and propofol sedation during ERCP: a randomized controlled study (EndoBreath Study). Endoscopy, 2015, 48, 42-50.	1.8	28
63	Transcranial motor evoked potentials during anesthesia with desflurane versus propofol – A prospective randomized trial. Clinical Neurophysiology, 2015, 126, 1825-1832.	1.5	43
64	Restrict relaxants, be aware, and know the limitations of your depth of anaesthesia monitor. British Journal of Anaesthesia, 2015, 115, i11-i12.	3.4	2
65	Fronto-Parietal Connectivity Is a Non-Static Phenomenon with Characteristic Changes during Unconsciousness. PLoS ONE, 2014, 9, e87498.	2.5	32
66	Comparison of Aintree and Fastrach techniques for low-skill fibreoptic intubation in patients at risk of secondary cervical injury. European Journal of Anaesthesiology, 2014, 31, 153-158.	1.7	10
67	The influence of anaesthetists' experience on workload, performance and visual attention during simulated critical incidents. Journal of Clinical Monitoring and Computing, 2014, 28, 475-480.	1.6	14
68	Non-stationarity of EEG during wakefulness and anaesthesia: advantages of EEG permutation entropy monitoring. Journal of Clinical Monitoring and Computing, 2014, 28, 573-580.	1.6	42
69	Burst suppression-MAC and burst suppression-CP50 as measures of cerebral effects of anaesthetics. British Journal of Anaesthesia, 2014, 112, 1067-1074.	3.4	51
70	Monitoring Depth of Anesthesia Utilizing a Combination of Electroencephalographic and Standard Measures. Anesthesiology, 2014, 120, 819-828.	2.5	60
71	Brain Electrical Activity Obeys Benford's Law. Anesthesia and Analgesia, 2014, 118, 183-191.	2.2	13
72	Sevoflurane-induced loss of consciousness is paralleled by a prominent modification of neural activity during cortical down-states. Neuroscience Letters, 2013, 548, 149-154.	2.1	6

#	Article	IF	CITATIONS
73	Errors in Palliative Care: Kinds, Causes, and Consequences: A Pilot Survey of Experiences and Attitudes of Palliative Care Professionals. Journal of Palliative Medicine, 2013, 16, 74-81.	1.1	22
74	Effects of Propofol, Sevoflurane, Remifentanil, and (S)-Ketamine in Subanesthetic Concentrations on Visceral and Somatosensory Pain–evoked Potentials. Anesthesiology, 2013, 118, 308-317.	2.5	20
75	Simultaneous Electroencephalographic and Functional Magnetic Resonance Imaging Indicate Impaired Cortical Top–Down Processing in Association with Anesthetic-induced Unconsciousness. Anesthesiology, 2013, 119, 1031-1042.	2.5	153
76	Sevoflurane-induced Epileptiform Electroencephalographic Activity and Generalized Tonic–Clonic Seizures in a Volunteer Study. Anesthesiology, 2013, 119, 447-447.	2.5	24
77	Capnographic Monitoring Reduces the Incidence of Arterial Oxygen Desaturation and Hypoxemia During Propofol Sedation for Colonoscopy: A Randomized, Controlled Study (ColoCap Study). American Journal of Gastroenterology, 2012, 107, 1205-1212.	0.4	131
78	Spatiotemporal Reconfiguration of Large-Scale Brain Functional Networks during Propofol-Induced Loss of Consciousness. Journal of Neuroscience, 2012, 32, 12832-12840.	3.6	175
79	Time Delay of Monitors of the Hypnotic Component of Anesthesia. Anesthesia and Analgesia, 2012, 115, 315-319.	2.2	37
80	Mortality after surgery in Europe: a 7 day cohort study. Lancet, The, 2012, 380, 1059-1065.	13.7	1,614
81	Surgery for Infratentorial Mass. , 2012, , 417-431.		0
82	Eye tracking for assessment of workload: a pilot study in an anaesthesia simulator environment. British Journal of Anaesthesia, 2011, 106, 44-50.	3.4	64
83	A tool for immediate and automated assessment of resuscitation skills for a full-scale simulator. BMC Research Notes, 2011, 4, 550.	1.4	4
84	Assessment of subjective workload in an anaesthesia simulator environment: reliability and validity. European Journal of Anaesthesiology, 2011, 28, 502-505.	1.7	10
85	Does the Cerebral State Index Separate Consciousness from Unconsciousness?. Anesthesia and Analgesia, 2011, 113, 1403-1410.	2.2	16
86	Visual attention of anaesthetists during simulated critical incidents. British Journal of Anaesthesia, 2011, 106, 807-813.	3.4	67
87	Cross-approximate entropy of cortical local field potentials quantifies effects of anesthesia - a pilot study in rats. BMC Neuroscience, 2010, 11, 122.	1.9	28
88	Monitoring anesthetic depth. , 2010, , 114-130.		14
89	A Program for Computing the Prediction Probability and the Related Receiver Operating Characteristic Graph. Anesthesia and Analgesia, 2010, 111, 1416-1421.	2.2	39
90	Medical Errors and Patient Safety in Palliative Care: A Review of Current Literature. Journal of Palliative Medicine, 2010, 13, 1469-1474.	1.1	27

#	Article	IF	CITATIONS
91	Anaesthesia Monitoring by Recurrence Quantification Analysis of EEG Data. PLoS ONE, 2010, 5, e8876.	2.5	37
92	Time delay of electroencephalogram index calculation: analysis of cerebral state, bispectral, and Narcotrend indices using perioperatively recorded electroencephalographic signals. British Journal of Anaesthesia, 2009, 103, 394-399.	3.4	96
93	Adapted variable precision rough set approach for EEG analysis. Artificial Intelligence in Medicine, 2009, 47, 239-261.	6.5	42
94	A Combination of Electroencephalogram and Auditory Evoked Potentials Separates Different Levels of Anesthesia in Volunteers. Anesthesia and Analgesia, 2009, 108, 1512-1521.	2.2	29
95	General anaesthesia versus local anaesthesia for carotid surgery (GALA): a multicentre, randomised controlled trial. Lancet, The, 2008, 372, 2132-2142.	13.7	514
96	Electroencephalographic Order Pattern Analysis for the Separation of Consciousness and Unconsciousness. Anesthesiology, 2008, 109, 1014-1022.	2.5	117
97	NeuMonD: a tool for the development of new indicators of anaesthetic effect. Biomedizinische Technik, 2007, 52, 96-101.	0.8	11
98	Teletherapeutic drug administration by long distance closed-loop control of propofol â€. British Journal of Anaesthesia, 2007, 98, 189-195.	3.4	18
99	Auditory evoked potentials for the assessment of depth of anaesthesia: different configurations of artefact detection algorithms. Biomedizinische Technik, 2007, 52, 90-95.	0.8	3
100	The Search for Structures and Mechanisms Controlling Anesthesia-induced Unconsciousness. Anesthesiology, 2007, 107, 195-198.	2.5	13
101	Construction of the Electroencephalogram Player: A Device to Present Electroencephalogram Data to Electroencephalogram-Based Anesthesia Monitors. Anesthesia and Analgesia, 2007, 104, 135-139.	2.2	23
102	The Narcotrendâ,"¢ Monitor and the Electroencephalogram in Propofol-Induced Sedation. Anesthesia and Analgesia, 2007, 105, 982-992.	2.2	6
103	Evaluation of M-AID®, a first aid application for mobile phones. Resuscitation, 2007, 74, 487-494.	3.0	60
104	Median Frequency Revisited. Anesthesiology, 2007, 107, 397-405.	2.5	22
105	The Discriminant Power of Simultaneous Monitoring of Spontaneous Electroencephalogram and Evoked Potentials as a Predictor of Different Clinical States of General Anesthesia. Anesthesia and Analgesia, 2006, 103, 894-901.	2.2	23
106	Time Delay of Index Calculation. Anesthesiology, 2006, 104, 488-494.	2.5	156
107	The Effect of Electroencephalogram-Targeted High- and Low-Dose Propofol Infusion on Histopathological Damage After Traumatic Brain Injury in the Rat. Anesthesia and Analgesia, 2006, 103, 1527-1533.	2.2	17
108	The Influence of Wavelets on Multiscale Analysis and Parametrization of Midlatency Auditory Evoked Potentials. Biological Cybernetics, 2006, 95, 193-203.	1.3	2

#	Article	IF	CITATIONS
109	EEG parameters and their combination as indicators of depth of anaesthesia / EEG-Parameter und deren Kombination für das Narkosemonitoring. Biomedizinische Technik, 2006, 51, 89-94.	0.8	20
110	Detection of Consciousness by Electroencephalogram and Auditory Evoked Potentials. Anesthesiology, 2005, 103, 934-943.	2.5	54
111	High-frequency Components of Auditory Evoked Potentials Are Detected in Responsive but Not in Unconscious Patients. Anesthesiology, 2005, 103, 944-950.	2.5	22
112	Concurrent recording of AEP, SSEP and EEG parameters during anaesthesia: a factor analysis. British Journal of Anaesthesia, 2005, 95, 197-206.	3.4	10
113	Awareness and the EEG power spectrum: analysis of frequencies. British Journal of Anaesthesia, 2004, 93, 806-809.	3.4	124
114	Does bispectral analysis add anything but complexity? BIS sub-components may be superior to BIS for detection of awareness. British Journal of Anaesthesia, 2004, 93, 596-597.	3.4	25
115	Patient State Index (PSI) measures depth of sedation in intensive care patients. Intensive Care Medicine, 2004, 30, 213-216.	8.2	47
116	Signal Verification of Middle Latency Auditory Evoked Potentials by Automated Detection of the Brainstem Response. Anesthesiology, 2004, 101, 321-326.	2.5	6
117	Narcotrend® Does Not Adequately Detect the Transition between Awareness and Unconsciousness in Surgical Patients. Anesthesiology, 2004, 101, 1105-1111.	2.5	46
118	Rough Set-Based Classification of EEG-Signals to Detect Intraoperative Awareness: Comparison of Fuzzy and Crisp Discretization of Real Value Attributes. Lecture Notes in Computer Science, 2004, , 825-834.	1.3	11
119	Detection of awareness in surgical patients with EEG-based indices—bispectral index and patient state index †‡. British Journal of Anaesthesia, 2003, 91, 329-335.	3.4	121
120	Early recovery after remifentanil-pronounced compared with propofol-pronounced total intravenous anaesthesia for short painful procedures â€. British Journal of Anaesthesia, 2003, 91, 580-582.	3.4	9
121	Quality of perioperative AEP—variability of expert ratings. British Journal of Anaesthesia, 2003, 91, 905-908.	3.4	10
122	Bispectral index-guided administration of anaesthesia: comparison between remifentanil/propofol and remifentanil/isoflurane. European Journal of Anaesthesiology, 2003, 20, 624-630.	1.7	2
123	Bispectral Index (BIS) May Not Predict Awareness Reaction to Intubation in Surgical Patients. Journal of Neurosurgical Anesthesiology, 2002, 14, 7-11.	1.2	78
124	Increasing isoflurane concentration may cause paradoxical increases in the EEG bispectral index in surgical patients. British Journal of Anaesthesia, 2000, 84, 33-37.	3.4	76
125	Esmolol Potentiates Reduction of Minimum Alveolar Isoflurane Concentration by Alfentanil. Anesthesia and Analgesia, 1998, 87, 671-676.	2.2	77
126	Effect of renal function on neuromuscular block induced by continuous infusion of mivacurium. British Journal of Anaesthesia, 1995, 74, 452-454.	3.4	13

#	Article	IF	CITATIONS
127	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. SSRN Electronic Journal, 0, , .	0.4	6
128	Brainstem infarction and locked in syndrome: A less recognized complication of atlantoaxial injury. American Journal of Case Reports, 0, 12, 90-94.	0.8	0