

# Matthias Kreuzer

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,096  
citations

430874

18  
h-index

454955

30  
g-index

64  
all docs

64  
docs citations

64  
times ranked

860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Delay of Index Calculation. <i>Anesthesiology</i> , 2006, 104, 488-494.	2.5	156
2	Spectral and Entropic Features Are Altered by Age in the Electroencephalogram in Patients under Sevoflurane Anesthesia. <i>Anesthesiology</i> , 2020, 132, 1003-1016.	2.5	71
3	Situation awareness errors in anesthesia and critical care in 200 cases of a critical incident reporting system. <i>BMC Anesthesiology</i> , 2015, 16, 4.	1.8	70
4	Monitoring Depth of Anesthesia Utilizing a Combination of Electroencephalographic and Standard Measures. <i>Anesthesiology</i> , 2014, 120, 819-828.	2.5	60
5	EEG Based Monitoring of General Anesthesia: Taking the Next Steps. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 56.	2.1	52
6	Narcotrend® Does Not Adequately Detect the Transition between Awareness and Unconsciousness in Surgical Patients. <i>Anesthesiology</i> , 2004, 101, 1105-1111.	2.5	46
7	Effects of noxious stimulation on the electroencephalogram during general anaesthesia: a narrative review and approach to analgesic titration. <i>British Journal of Anaesthesia</i> , 2021, 126, 445-457.	3.4	44
8	Non-stationarity of EEG during wakefulness and anaesthesia: advantages of EEG permutation entropy monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2014, 28, 573-580.	1.6	42
9	Time Delay of Monitors of the Hypnotic Component of Anesthesia. <i>Anesthesia and Analgesia</i> , 2012, 115, 315-319.	2.2	37
10	Transient electroencephalographic alpha power loss during maintenance of general anaesthesia. <i>British Journal of Anaesthesia</i> , 2019, 122, 635-642.	3.4	34
11	Involvement of GluN2B subunit containing N-methyl- d -aspartate (NMDA) receptors in mediating the acute and chronic synaptotoxic effects of oligomeric amyloid-beta (A $\beta$ ) in murine models of Alzheimer's disease (AD). <i>Neuropharmacology</i> , 2017, 123, 100-115.	4.1	29
12	Cross-approximate entropy of cortical local field potentials quantifies effects of anesthesia - a pilot study in rats. <i>BMC Neuroscience</i> , 2010, 11, 122.	1.9	28
13	Monitoring depth of sedation: evaluating the agreement between the Bispectral Index, qCON and the Entropy Module's State Entropy during flexible bronchoscopy. <i>Minerva Anestesiologica</i> , 2017, 83, 563-573.	1.0	26
14	Substance-Specific Differences in Human Electroencephalographic Burst Suppression Patterns. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 368.	2.0	26
15	Construction of the Electroencephalogram Player: A Device to Present Electroencephalogram Data to Electroencephalogram-Based Anesthesia Monitors. <i>Anesthesia and Analgesia</i> , 2007, 104, 135-139.	2.2	23
16	Technical considerations when using the EEG export of the SEDLine Root device. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 1047-1054.	1.6	22
17	The influence of age on EEG-based anaesthesia indices. <i>Journal of Clinical Anesthesia</i> , 2021, 73, 110325.	1.6	22
18	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. <i>Trials</i> , 2019, 20, 146.	1.6	21

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19	Differences between state entropy and bispectral index during analysis of identical electroencephalogram signals. <i>European Journal of Anaesthesiology</i> , 2015, 32, 354-365.	1.7	19
20	Of Parachutes, Speedometers, and EEG: What Evidence Do We Need to Use Devices and Monitors?. <i>Anesthesia and Analgesia</i> , 2020, 130, 1274-1277.	2.2	18
21	Does the Cerebral State Index Separate Consciousness from Unconsciousness?. <i>Anesthesia and Analgesia</i> , 2011, 113, 1403-1410.	2.2	16
22	Infrared pupillometry helps to detect and predict delirium in the post-anesthesia care unit. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 359-368.	1.6	16
23	Anesthetic Management of a Patient With Multiple Previous Episodes of Postanesthesia Care Unit Delirium. <i>A &amp; A Case Reports</i> , 2017, 8, 311-315.	0.7	15
24	Distinct Parameters in the EEG of the PLP $\hat{\pm}$ -SYN Mouse Model for Multiple System Atrophy Reinforce Face Validity. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 10, 252.	2.0	14
25	Brain Electrical Activity Obeys Benford's Law. <i>Anesthesia and Analgesia</i> , 2014, 118, 183-191.	2.2	13
26	Propofol and Sevoflurane Differentially Modulate Cortical Depolarization following Electric Stimulation of the Ventrobasal Thalamus. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 109.	2.1	13
27	Targeted temperature management in cardiac surgery: a systematic review and meta-analysis on postoperative cognitive outcomes. <i>British Journal of Anaesthesia</i> , 2021, , .	3.4	11
28	Altered sleep behavior in a genetic mouse model of impaired fear extinction. <i>Scientific Reports</i> , 2021, 11, 8978.	3.3	10
29	Missed Opportunities for Intervention in a Patient With Prolonged Postoperative Delirium. <i>Clinical Therapeutics</i> , 2015, 37, 2706-2710.	2.5	9
30	Age-Related EEG Features of Bursting Activity During Anesthetic-Induced Burst Suppression. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 599962.	2.5	9
31	Ketamine-Associated Intraoperative Electroencephalographic Signatures of Elderly Patients With and Without Preoperative Cognitive Impairment. <i>Anesthesia and Analgesia</i> , 2022, 135, 683-692.	2.2	9
32	Sleep/Wake Behavior and EEG Signatures of the TgF344-AD Rat Model at the Prodromal Stage. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9290.	4.1	8
33	The influence of induction speed on the frontal (processed) EEG. <i>Scientific Reports</i> , 2020, 10, 19444.	3.3	8
34	The anaesthetic xenon partially restores an amyloid beta-induced impairment in murine hippocampal synaptic plasticity. <i>Neuropharmacology</i> , 2019, 151, 21-32.	4.1	7
35	Time delay of the qCON monitor and its performance during state transitions. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 379-386.	1.6	7
36	State entropy and burst suppression ratio can show contradictory information. <i>European Journal of Anaesthesiology</i> , 2020, 37, 1084-1092.	1.7	7

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37	The Strength of Alpha Oscillations in the Electroencephalogram Differently Affects Algorithms Used for Anesthesia Monitoring. <i>Anesthesia and Analgesia</i> , 2021, 133, 1577-1587.	2.2	7
38	Sevoflurane-induced loss of consciousness is paralleled by a prominent modification of neural activity during cortical down-states. <i>Neuroscience Letters</i> , 2013, 548, 149-154.	2.1	6
39	Application of Referencing Techniques in EEG-Based Recordings of Contact Heat Evoked Potentials (CHEPS). <i>Frontiers in Human Neuroscience</i> , 2020, 14, 559969.	2.0	6
40	The impact of tethered recording techniques on activity and sleep patterns in rats. <i>Scientific Reports</i> , 2022, 12, 3179.	3.3	6
41	Evaluation of Anesthetic Specific EEG Dynamics during State Transitions between Loss and Return of Responsiveness. <i>Brain Sciences</i> , 2022, 12, 37.	2.3	6
42	Diazepam and ethanol differently modulate neuronal activity in organotypic cortical cultures. <i>BMC Neuroscience</i> , 2019, 20, 58.	1.9	5
43	Attenuation of Native Hyperpolarization-Activated, Cyclic Nucleotide-Gated Channel Function by the Volatile Anesthetic Sevoflurane in Mouse Thalamocortical Relay Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 606687.	3.7	5
44	Implicit Memory and Anesthesia: A Systematic Review and Meta-Analysis. <i>Life</i> , 2021, 11, 850.	2.4	5
45	Age influences on Propofol estimated brain concentration and entropy during maintenance and at return of consciousness during total intravenous anesthesia with target-controlled infusion in unparalyzed patients: An observational prospective trial. <i>PLoS ONE</i> , 2020, 15, e0244145.	2.5	5
46	Sensory testing and topical capsaicin can characterize patients with rheumatoid arthritis. <i>Clinical Rheumatology</i> , 2022, 41, 2351-2360.	2.2	5
47	A tool for immediate and automated assessment of resuscitation skills for a full-scale simulator. <i>BMC Research Notes</i> , 2011, 4, 550.	1.4	4
48	Propofol Affects Cortico-Hippocampal Interactions via $\hat{\gamma}23$ Subunit-Containing GABAA Receptors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5844.	4.1	3
49	Targeted Interventions to Increase Blood Pressure and Decrease Anaesthetic Concentrations Reduce Intraoperative Burst Suppression: A Randomised, Interventional Clinical Trial. <i>Frontiers in Systems Neuroscience</i> , 2022, 16, 786816.	2.5	3
50	Always Assess the Raw Electroencephalogram: Why Automated Burst Suppression Detection May Not Detect All Episodes. <i>Anesthesia and Analgesia</i> , 2023, 136, 346-354.	2.2	3
51	The Input Is Reflected in the Output. <i>Anesthesia and Analgesia</i> , 2017, 124, 1734-1735.	2.2	2
52	Intraoperative electroencephalographic burst suppression may help to identify patients at risk for long-term adverse outcome: Findings from a case of homozygous twins. <i>Anaesthesia, Critical Care &amp; Pain Medicine</i> , 2020, 39, 629-630.	1.4	2
53	The First Derivative of the Electroencephalogram Facilitates Tracking of Electroencephalographic Alpha Band Activity During General Anesthesia. <i>Anesthesia and Analgesia</i> , 2021, Publish Ahead of Print, .	2.2	2
54	Clinical implications of using non-invasive haemoglobin monitoring for red blood cell transfusion decision in hip arthroplasty. <i>Transfusion and Apheresis Science</i> , 2020, 59, 102770.	1.0	1

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55	Combined implanted central venous access and cortical recording electrode array in freely behaving mice. <i>MethodsX</i> , 2021, 8, 101466.	1.6	1
56	Inhalational Anesthetics Do Not Deteriorate Amyloid- $\beta^2$ -Derived Pathophysiology in Alzheimer's Disease: Investigations on the Molecular, Neuronal, and Behavioral Level. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 1193-1218.	2.6	1
57	Label Free Electrochemical Detection of Nucleic Acid on a Disposable Electrode. , 2005, , .		0
58	Title is missing!. , 2020, 15, e0244145.		0
59	Title is missing!. , 2020, 15, e0244145.		0
60	Title is missing!. , 2020, 15, e0244145.		0
61	Title is missing!. , 2020, 15, e0244145.		0