

# Gerhard Schneider

## List of Publications by Year in descending order

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Version: 2024-02-01

128  
papers

5,865  
citations

117453

34  
h-index

82410

72  
g-index

148  
all docs

148  
docs citations

148  
times ranked

5696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mortality after surgery in Europe: a 7 day cohort study. <i>Lancet, The</i> , 2012, 380, 1059-1065.	6.3	1,614
2	General anaesthesia versus local anaesthesia for carotid surgery (GALA): a multicentre, randomised controlled trial. <i>Lancet, The</i> , 2008, 372, 2132-2142.	6.3	514
3	Spatiotemporal Reconfiguration of Large-Scale Brain Functional Networks during Propofol-Induced Loss of Consciousness. <i>Journal of Neuroscience</i> , 2012, 32, 12832-12840.	1.7	175
4	Time Delay of Index Calculation. <i>Anesthesiology</i> , 2006, 104, 488-494.	1.3	156
5	Simultaneous Electroencephalographic and Functional Magnetic Resonance Imaging Indicate Impaired Cortical Top-down Processing in Association with Anesthetic-induced Unconsciousness. <i>Anesthesiology</i> , 2013, 119, 1031-1042.	1.3	153
6	Capnographic Monitoring Reduces the Incidence of Arterial Oxygen Desaturation and Hypoxemia During Propofol Sedation for Colonoscopy: A Randomized, Controlled Study (ColoCap Study). <i>American Journal of Gastroenterology</i> , 2012, 107, 1205-1212.	0.2	131
7	Awareness and the EEG power spectrum: analysis of frequencies. <i>British Journal of Anaesthesia</i> , 2004, 93, 806-809.	1.5	124
8	Detection of awareness in surgical patients with EEG-based indices—bispectral index and patient state index. <i>British Journal of Anaesthesia</i> , 2003, 91, 329-335.	1.5	121
9	Electroencephalographic Order Pattern Analysis for the Separation of Consciousness and Unconsciousness. <i>Anesthesiology</i> , 2008, 109, 1014-1022.	1.3	117
10	Rates of bacterial co-infections and antimicrobial use in COVID-19 patients: a retrospective cohort study in light of antibiotic stewardship. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 859-869.	1.3	98
11	Time delay of electroencephalogram index calculation: analysis of cerebral state, bispectral, and Narcotrend indices using perioperatively recorded electroencephalographic signals. <i>British Journal of Anaesthesia</i> , 2009, 103, 394-399.	1.5	96
12	Oxytocin levels in saliva correlate better than plasma levels with concentrations in the cerebrospinal fluid of patients in neurocritical care. <i>Journal of Neuroendocrinology</i> , 2018, 30, e12596.	1.2	81
13	Bispectral Index (BIS) May Not Predict Awareness Reaction to Intubation in Surgical Patients. <i>Journal of Neurosurgical Anesthesiology</i> , 2002, 14, 7-11.	0.6	78
14	Esmolol Potentiates Reduction of Minimum Alveolar Isoflurane Concentration by Alfentanil. <i>Anesthesia and Analgesia</i> , 1998, 87, 671-676.	1.1	77
15	Increasing isoflurane concentration may cause paradoxical increases in the EEG bispectral index in surgical patients. <i>British Journal of Anaesthesia</i> , 2000, 84, 33-37.	1.5	76
16	Invasive pulmonary aspergillosis in critically ill patients with severe COVID-19 pneumonia: Results from the prospective AspCOVID-19 study. <i>PLoS ONE</i> , 2021, 16, e0238825.	1.1	72
17	Spectral and Entropic Features Are Altered by Age in the Electroencephalogram in Patients under Sevoflurane Anesthesia. <i>Anesthesiology</i> , 2020, 132, 1003-1016.	1.3	71
18	Visual attention of anaesthetists during simulated critical incidents. <i>British Journal of Anaesthesia</i> , 2011, 106, 807-813.	1.5	67

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19	Eye tracking for assessment of workload: a pilot study in an anaesthesia simulator environment. <i>British Journal of Anaesthesia</i> , 2011, 106, 44-50.	1.5	64
20	Evaluation of M-AIDÂ®, a first aid application for mobile phones. <i>Resuscitation</i> , 2007, 74, 487-494.	1.3	60
21	Monitoring Depth of Anesthesia Utilizing a Combination of Electroencephalographic and Standard Measures. <i>Anesthesiology</i> , 2014, 120, 819-828.	1.3	60
22	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. <i>Journal of Clinical Medicine</i> , 2020, 9, 1514.	1.0	60
23	Detection of Consciousness by Electroencephalogram and Auditory Evoked Potentials. <i>Anesthesiology</i> , 2005, 103, 934-943.	1.3	54
24	Changes in Whole Brain Dynamics and Connectivity Patterns during Sevoflurane- and Propofol-induced Unconsciousness Identified by Functional Magnetic Resonance Imaging. <i>Anesthesiology</i> , 2019, 130, 898-911.	1.3	54
25	Burst suppression-MAC and burst suppression-CP50 as measures of cerebral effects of anaesthetics. <i>British Journal of Anaesthesia</i> , 2014, 112, 1067-1074.	1.5	51
26	Patient State Index (PSI) measures depth of sedation in intensive care patients. <i>Intensive Care Medicine</i> , 2004, 30, 213-216.	3.9	47
27	NarcotrendÂ® Does Not Adequately Detect the Transition between Awareness and Unconsciousness in Surgical Patients. <i>Anesthesiology</i> , 2004, 101, 1105-1111.	1.3	46
28	Transcranial motor evoked potentials during anesthesia with desflurane versus propofol â€“ A prospective randomized trial. <i>Clinical Neurophysiology</i> , 2015, 126, 1825-1832.	0.7	43
29	Permutation Entropy: Too Complex a Measure for EEG Time Series?. <i>Entropy</i> , 2017, 19, 692.	1.1	43
30	Assessment of Regional Perfusion and Organ Function: Less and Non-invasive Techniques. <i>Frontiers in Medicine</i> , 2019, 6, 50.	1.2	43
31	Adapted variable precision rough set approach for EEG analysis. <i>Artificial Intelligence in Medicine</i> , 2009, 47, 239-261.	3.8	42
32	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.	0.7	42
33	A Program for Computing the Prediction Probability and the Related Receiver Operating Characteristic Graph. <i>Anesthesia and Analgesia</i> , 2010, 111, 1416-1421.	1.1	39
34	Impact of Goal-Directed Therapy on Delayed Ischemia After Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2020, 51, 2287-2296.	1.0	39
35	Machine learning identifies ICU outcome predictors in a multicenter COVID-19 cohort. <i>Critical Care</i> , 2021, 25, 295.	2.5	39
36	Time Delay of Monitors of the Hypnotic Component of Anesthesia. <i>Anesthesia and Analgesia</i> , 2012, 115, 315-319.	1.1	37

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37	Anaesthesia Monitoring by Recurrence Quantification Analysis of EEG Data. PLoS ONE, 2010, 5, e8876.	1.1	37
38	Fronto-Parietal Connectivity Is a Non-Static Phenomenon with Characteristic Changes during Unconsciousness. PLoS ONE, 2014, 9, e87498.	1.1	32
39	Intraoperative Multimodal Evoked Potential Monitoring During Carotid Endarterectomy. Anesthesia and Analgesia, 2015, 120, 1352-1360.	1.1	32
40	A Combination of Electroencephalogram and Auditory Evoked Potentials Separates Different Levels of Anesthesia in Volunteers. Anesthesia and Analgesia, 2009, 108, 1512-1521.	1.1	29
41	Cross-approximate entropy of cortical local field potentials quantifies effects of anesthesia - a pilot study in rats. BMC Neuroscience, 2010, 11, 122.	0.8	28
42	Capnographic monitoring of midazolam and propofol sedation during ERCP: a randomized controlled study (EndoBreath Study). Endoscopy, 2015, 48, 42-50.	1.0	28
43	Medical Errors and Patient Safety in Palliative Care: A Review of Current Literature. Journal of Palliative Medicine, 2010, 13, 1469-1474.	0.6	27
44	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.	0.6	26
45	Substance-Specific Differences in Human Electroencephalographic Burst Suppression Patterns. Frontiers in Human Neuroscience, 2018, 12, 368.	1.0	26
46	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.	1.5	25
47	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.	1.2	25
48	Coherence of <math>\langle \text{BOLD} \rangle</math> signal and electrical activity in the human brain during deep sevoflurane anesthesia. Brain and Behavior, 2017, 7, e00679.	1.0	25
49	Sevoflurane-induced Epileptiform Electroencephalographic Activity and Generalized Tonic-Clonic Seizures in a Volunteer Study. Anesthesiology, 2013, 119, 447-447.	1.3	24
50	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.	1.1	23
51	Construction of the Electroencephalogram Player: A Device to Present Electroencephalogram Data to Electroencephalogram-Based Anesthesia Monitors. Anesthesia and Analgesia, 2007, 104, 135-139.	1.1	23
52	Cognitive decline in Tg2576 mice shows sex-specific differences and correlates with cerebral amyloid-beta. Behavioural Brain Research, 2019, 359, 408-417.	1.2	23
53	High-frequency Components of Auditory Evoked Potentials Are Detected in Responsive but Not in Unconscious Patients. Anesthesiology, 2005, 103, 944-950.	1.3	22
54	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.	0.6	22

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55	Technical considerations when using the EEG export of the SEDLine Root device. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 1047-1054.	0.7	22
56	The influence of age on EEG-based anaesthesia indices. <i>Journal of Clinical Anesthesia</i> , 2021, 73, 110325.	0.7	22
57	Median Frequency Revisited. <i>Anesthesiology</i> , 2007, 107, 397-405.	1.3	22
58	Comparison of Enk Fiberoptic Atomizer with translaryngeal injection for topical anaesthesia for awake fiberoptic intubation in patients at risk of secondary cervical injury. <i>European Journal of Anaesthesiology</i> , 2015, 32, 615-623.	0.7	21
59	Impact of PReOperative Midazolam on OuTcome of Elderly patients (I-PROMOTE): study protocol for a multicentre randomised controlled trial. <i>Trials</i> , 2019, 20, 430.	0.7	21
60	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.	0.7	21
61	EEG parameters and their combination as indicators of depth of anaesthesia / EEG-Parameter und deren Kombination für das Narkosemonitoring. <i>Biomedizinische Technik</i> , 2006, 51, 89-94.	0.9	20
62	Effects of Propofol, Sevoflurane, Remifentanyl, and (S)-Ketamine in Subanesthetic Concentrations on Visceral and Somatosensory Pain-evoked Potentials. <i>Anesthesiology</i> , 2013, 118, 308-317.	1.3	20
63	Differences between state entropy and bispectral index during analysis of identical electroencephalogram signals. <i>European Journal of Anaesthesiology</i> , 2015, 32, 354-365.	0.7	19
64	Teletherapeutic drug administration by long distance closed-loop control of propofol. <i>British Journal of Anaesthesia</i> , 2007, 98, 189-195.	1.5	18
65	The Effect of Electroencephalogram-Targeted High- and Low-Dose Propofol Infusion on Histopathological Damage After Traumatic Brain Injury in the Rat. <i>Anesthesia and Analgesia</i> , 2006, 103, 1527-1533.	1.1	17
66	Does the Cerebral State Index Separate Consciousness from Unconsciousness?. <i>Anesthesia and Analgesia</i> , 2011, 113, 1403-1410.	1.1	16
67	The validity of linear and non-linear heart rate metrics as workload indicators of emergency physicians. <i>PLoS ONE</i> , 2017, 12, e0188635.	1.1	16
68	Self-confidence and knowledge of German ICU physicians in palliative care – a multicentre prospective study. <i>BMC Palliative Care</i> , 2017, 16, 57.	0.8	16
69	Monitoring anesthetic depth. , 2010, , 114-130.		14
70	The influence of anaesthetists' experience on workload, performance and visual attention during simulated critical incidents. <i>Journal of Clinical Monitoring and Computing</i> , 2014, 28, 475-480.	0.7	14
71	The impact of the patient's initial NACA score on subjective and physiological indicators of workload during pre-hospital emergency care. <i>PLoS ONE</i> , 2018, 13, e0202215.	1.1	14
72	Teaching Ordinal Patterns to a Computer: Efficient Encoding Algorithms Based on the Lehmer Code. <i>Entropy</i> , 2019, 21, 1023.	1.1	14

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73	Effect of renal function on neuromuscular block induced by continuous infusion of mivacurium. <i>British Journal of Anaesthesia</i> , 1995, 74, 452-454.	1.5	13
74	The Search for Structures and Mechanisms Controlling Anesthesia-induced Unconsciousness. <i>Anesthesiology</i> , 2007, 107, 195-198.	1.3	13
75	Brain Electrical Activity Obeys Benford's Law. <i>Anesthesia and Analgesia</i> , 2014, 118, 183-191.	1.1	13
76	Propofol and Sevoflurane Differentially Modulate Cortical Depolarization following Electric Stimulation of the Ventrobasal Thalamus. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 109.	1.2	13
77	Differences in pain treatment between surgeons and anaesthesiologists in a physician staffed prehospital emergency medical service: a retrospective cohort analysis. <i>BMC Anesthesiology</i> , 2019, 19, 18.	0.7	13
78	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. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2020, 48, 67-74.	0.7	13
79	Dexamethasone therapy and rates of secondary pulmonary and bloodstream infections in critically ill COVID-19 patients. <i>Multidisciplinary Respiratory Medicine</i> , 2021, 16, 793.	0.6	12
80	NeuMonD: a tool for the development of new indicators of anaesthetic effect. <i>Biomedizinische Technik</i> , 2007, 52, 96-101.	0.9	11
81	GTS-21 attenuates loss of body mass, muscle mass, and function in rats having systemic inflammation with and without disuse atrophy. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1647-1657.	1.3	11
82	Rough Set-Based Classification of EEG-Signals to Detect Intraoperative Awareness: Comparison of Fuzzy and Crisp Discretization of Real Value Attributes. <i>Lecture Notes in Computer Science</i> , 2004, , 825-834.	1.0	11
83	Targeted temperature management in cardiac surgery: a systematic review and meta-analysis on postoperative cognitive outcomes. <i>British Journal of Anaesthesia</i> , 2021, , .	1.5	11
84	Quality of perioperative AEP's variability of expert ratings. <i>British Journal of Anaesthesia</i> , 2003, 91, 905-908.	1.5	10
85	Concurrent recording of AEP, SSEP and EEG parameters during anaesthesia: a factor analysis. <i>British Journal of Anaesthesia</i> , 2005, 95, 197-206.	1.5	10
86	Assessment of subjective workload in an anaesthesia simulator environment: reliability and validity. <i>European Journal of Anaesthesiology</i> , 2011, 28, 502-505.	0.7	10
87	Comparison of Aintree and Fastrach techniques for low-skill fiberoptic intubation in patients at risk of secondary cervical injury. <i>European Journal of Anaesthesiology</i> , 2014, 31, 153-158.	0.7	10
88	BIS and state entropy of the EEG - comparing apples and oranges. <i>British Journal of Anaesthesia</i> , 2015, 115, 164-166.	1.5	10
89	Early recovery after remifentanyl-pronounced compared with propofol-pronounced total intravenous anaesthesia for short painful procedures –. <i>British Journal of Anaesthesia</i> , 2003, 91, 580-582.	1.5	9
90	Machine learning for a combined electroencephalographic anesthesia index to detect awareness under anesthesia. <i>PLoS ONE</i> , 2020, 15, e0238249.	1.1	9

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91	Age-Related EEG Features of Bursting Activity During Anesthetic-Induced Burst Suppression. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 599962.	1.2	9
92	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). <i>Trials</i> , 2018, 19, 480.	0.7	8
93	Medical ethics in the Anthropocene: how are ~100 billion of German physicians' pension funds invested?. <i>Lancet Planetary Health</i> , The, 2019, 3, e405-e406.	5.1	8
94	Time delay of the qCON monitor and its performance during state transitions. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 379-386.	0.7	7
95	Dynamic Patterns of Global Brain Communication Differentiate Conscious From Unconscious Patients After Severe Brain Injury. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 625919.	1.2	7
96	State entropy and burst suppression ratio can show contradictory information. <i>European Journal of Anaesthesiology</i> , 2020, 37, 1084-1092.	0.7	7
97	The Strength of Alpha Oscillations in the Electroencephalogram Differently Affects Algorithms Used for Anesthesia Monitoring. <i>Anesthesia and Analgesia</i> , 2021, 133, 1577-1587.	1.1	7
98	Signal Verification of Middle Latency Auditory Evoked Potentials by Automated Detection of the Brainstem Response. <i>Anesthesiology</i> , 2004, 101, 321-326.	1.3	6
99	The Narcotrend <sup>®</sup> Monitor and the Electroencephalogram in Propofol-Induced Sedation. <i>Anesthesia and Analgesia</i> , 2007, 105, 982-992.	1.1	6
100	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.	1.0	6
101	The German version of the Critical-Care Pain Observation Tool for critically ill adults. <i>Der Anaesthesist</i> , 2019, 68, 836-842.	0.5	6
102	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. <i>SSRN Electronic Journal</i> , 0, , .	0.4	6
103	Evaluation of Anesthetic Specific EEG Dynamics during State Transitions between Loss and Return of Responsiveness. <i>Brain Sciences</i> , 2022, 12, 37.	1.1	6
104	Tranexamic acid impairs hippocampal synaptic transmission mediated by gamma aminobutyric acid receptor type A. <i>European Journal of Pharmacology</i> , 2017, 815, 49-55.	1.7	5
105	Diazepam and ethanol differently modulate neuronal activity in organotypic cortical cultures. <i>BMC Neuroscience</i> , 2019, 20, 58.	0.8	5
106	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.	1.8	5
107	Association of Troponin T levels and functional outcome 3 months after subarachnoid hemorrhage. <i>Scientific Reports</i> , 2021, 11, 16154.	1.6	5
108	Continuous chest compressions with a simultaneous triggered ventilator in the Munich Emergency Medical Services: a case series. <i>GMS German Medical Science</i> , 2019, 17, Doc06.	2.7	5

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109	A tool for immediate and automated assessment of resuscitation skills for a full-scale simulator. BMC Research Notes, 2011, 4, 550.	0.6	4
110	Auditory evoked potentials for the assessment of depth of anaesthesia: different configurations of artefact detection algorithms. Biomedizinische Technik, 2007, 52, 90-95.	0.9	3
111	Propofol Affects Cortico-Hippocampal Interactions via $\gamma$ 23 Subunit-Containing GABAA Receptors. International Journal of Molecular Sciences, 2020, 21, 5844.	1.8	3
112	Do private German health insurers invest their capital reserves of $\approx$ 353 billion according to environmental, social and governance criteria?. Journal of Medical Ethics, 2020, , medethics-2020-106381.	1.0	3
113	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.	1.2	3
114	Always Assess the Raw Electroencephalogram: Why Automated Burst Suppression Detection May Not Detect All Episodes. Anesthesia and Analgesia, 2023, 136, 346-354.	1.1	3
115	Bispectral index-guided administration of anaesthesia: comparison between remifentanyl/propofol and remifentanyl/isoflurane. European Journal of Anaesthesiology, 2003, 20, 624-630.	0.7	2
116	The Influence of Wavelets on Multiscale Analysis and Parametrization of Midlatency Auditory Evoked Potentials. Biological Cybernetics, 2006, 95, 193-203.	0.6	2
117	Bispectral index aware or minimum alveolar concentration aware?. European Journal of Anaesthesiology, 2015, 32, 301-302.	0.7	2
118	Restrict relaxants, be aware, and know the limitations of your depth of anaesthesia monitor. British Journal of Anaesthesia, 2015, 115, i11-i12.	1.5	2
119	The Input Is Reflected in the Output. Anesthesia and Analgesia, 2017, 124, 1734-1735.	1.1	2
120	The First Derivative of the Electroencephalogram Facilitates Tracking of Electroencephalographic Alpha Band Activity During General Anesthesia. Anesthesia and Analgesia, 2021, Publish Ahead of Print, .	1.1	2
121	Combined implanted central venous access and cortical recording electrode array in freely behaving mice. MethodsX, 2021, 8, 101466.	0.7	1
122	Intraoperative Multimodal Evoked Potential Monitoring During Carotid Endarterectomy. Survey of Anesthesiology, 2016, 60, 40.	0.1	0
123	The Power of Raw Data. Journal of Neurosurgical Anesthesiology, 2017, 29, 73-73.	0.6	0
124	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.	0.6	0
125	Rapid clinical evolution for COVID-19 translates into early hospital admission and unfavourable outcome: A preliminary report. Multidisciplinary Respiratory Medicine, 2021, 16, 744.	0.6	0
126	Brainstem infarction and locked in syndrome: A less recognized complication of atlantoaxial injury. American Journal of Case Reports, 0, 12, 90-94.	0.3	0



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127	Surgery for Infratentorial Mass. , 2012, , 417-431.		0
128	Surgery for Infratentorial Mass. , 2017, , 385-394.		0