Shou-Zen Fan

List of Publications by Year
in descending order

96 papers	1,441 citations	304602 22 h-index	434063 31 g-index
98 all docs	98 docs citations	98 times ranked	1677 citing authors

#	Article	IF	Citations
1	Application of Multivariate Empirical Mode Decomposition and Sample Entropy in EEG Signals via Artificial Neural Networks for Interpreting Depth of Anesthesia. Entropy, 2013, 15, 3325-3339.	1.1	62
2	Sample entropy analysis for the estimating depth of anaesthesia through human EEG signal at different levels of unconsciousness during surgeries. PeerJ, 2018, 6, e4817.	0.9	60
3	Successful Cardiopulmonary Resuscitation of Two Patients in the Prone Position Using Reversed Precordial Compression. Anesthesiology, 1992, 77, 202-204.	1.3	59
4	Dental anesthesia for patients with special needs. Acta Anaesthesiologica Taiwanica, 2012, 50, 122-125.	1.0	50
5	Human heart beat analysis using a modified algorithm of detrended fluctuation analysis based on empirical mode decomposition. Medical Engineering and Physics, 2009, 31, 92-100.	0.8	46
6	Adaptive Computation of Multiscale Entropy and Its Application in EEG Signals for Monitoring Depth of Anesthesia During Surgery. Entropy, 2012, 14, 978-992.	1.1	44
7	Propofol Concentration Monitoring in Plasma or Whole Blood by Gas Chromatography and High-Performance Liquid Chromatography. Anesthesia and Analgesia, 1995, 81, 175-178.	1.1	43
8	Sample Entropy Analysis of EEG Signals via Artificial Neural Networks to Model Patients' Consciousness Level Based on Anesthesiologists Experience. BioMed Research International, 2015, 2015, 1-8.	0.9	40
9	EEG Signals Analysis Using Multiscale Entropy for Depth of Anesthesia Monitoring during Surgery through Artificial Neural Networks. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-16.	0.7	40
10	Dexmedetomidine Prevents Alterations of Intestinal Microcirculation That Are Induced by Surgical Stress and Pain in a Novel Rat Model. Anesthesia and Analgesia, 2012, 115, 46-53.	1.1	35
11	Hierarchical rule-based monitoring and fuzzy logic control for neuromuscular block. Journal of Clinical Monitoring and Computing, 2000, 16, 583-592.	0.7	32
12	Analgesic Effect of Lidocaine Patch 5% in the Treatment of Acute Herpes Zoster: A Double-Blind and Vehicle-Controlled Study. Regional Anesthesia and Pain Medicine, 2008, 33, 320-325.	1.1	29
13	Using a short-term parameter of heart rate variability to distinguish awake from isoflurane anesthetic states. Medical and Biological Engineering and Computing, 2008, 46, 977-984.	1.6	28
14	Investigating Power Density and the Degree of Nonlinearity in Intrinsic Components of Anesthesia EEG by the Hilbert-Huang Transform: An Example Using Ketamine and Alfentanil. PLoS ONE, 2016, 11, e0168108.	1.1	27
15	Quasi-Periodicities Detection Using Phase-Rectified Signal Averaging in EEG Signals as a Depth of Anesthesia Monitor. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1773-1784.	2.7	27
16	Dietary citrate supplementation enhances longevity, metabolic health, and memory performance through promoting ketogenesis. Aging Cell, 2021, 20, e13510.	3.0	27
17	Computational Depth of Anesthesia via Multiple Vital Signs Based on Artificial Neural Networks. BioMed Research International, 2015, 2015, 1-13.	0.9	26
18	Emergency Airway Management with Fiberoptic Intubation in the Prone Position with a Fixed Flexed Neck. Anesthesia and Analgesia, 2008, 107, 1704-1706.	1.1	25

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19	A Novel Inspection Protocol to Detect Volatile Compounds in Breast Surgery Electrocautery Smoke. Journal of the Formosan Medical Association, 2010, 109, 511-516.	0.8	25
20	Changes in endotracheal tube cuff pressure during laparoscopic surgery in head-up or head-down position. BMC Anesthesiology, 2014, 14, 75.	0.7	25
21	Comparison of FFT and marginal spectra of EEG using empirical mode decomposition to monitor anesthesia. Computer Methods and Programs in Biomedicine, 2016, 137, 77-85.	2.6	25
22	Target†controlled infusion of propofol <i>versus</i> intermittent bolus of a sedative cocktail regimen in deep sedation for gastrointestinal endoscopy: Comparison of cardiovascular and respiratory parameters. Journal of Digestive Diseases, 2014, 15, 18-26.	0.7	24
23	A comparison of five different algorithms for EEG signal analysis in artifacts rejection for monitoring depth of anesthesia. Biomedical Signal Processing and Control, 2016, 25, 24-34.	3.5	24
24	I-Gel is a suitable alternative to endotracheal tubes in the laparoscopic pneumoperitoneum and trendelenburg position. BMC Anesthesiology, 2017, 17, 3.	0.7	24
25	Serotonin receptor HTR6-mediated mTORC1 signaling regulates dietary restriction†induced memory enhancement. PLoS Biology, 2019, 17, e2007097.	2.6	24
26	Genetic Deep Convolutional Autoencoder Applied for Generative Continuous Arterial Blood Pressure via Photoplethysmography. Sensors, 2020, 20, 3829.	2.1	23
27	Correlation between early sublingual small vessel density and late blood lactate level in critically ill surgical patients. Journal of Surgical Research, 2013, 180, 317-321.	0.8	22
28	Title is missing!. Journal of Medical and Biological Engineering, 2011, 31, 359.	1.0	22
29	EEG artifacts reduction by multivariate empirical mode decomposition and multiscale entropy for monitoring depth of anaesthesia during surgery. Medical and Biological Engineering and Computing, 2017, 55, 1435-1450.	1.6	20
30	Ludwigia octovalvis extract improves glycemic control and memory performance in diabetic mice. Journal of Ethnopharmacology, 2017, 207, 211-219.	2.0	19
31	An Optimized Type-2 Self-Organizing Fuzzy Logic Controller Applied in Anesthesia for Propofol Dosing to Regulate BIS. IEEE Transactions on Fuzzy Systems, 2020, 28, 1062-1072.	6.5	19
32	Cervicofacial Subcutaneous Emphysema Following Tonsillectomy: Implications for Anesthesiologists. Acta Anaesthesiologica Taiwanica, 2009, 47, 134-137.	1.0	17
33	Enoxaparin sodium prevents intestinal microcirculatory dysfunction in endotoxemic rats. Critical Care, 2012, 16, R59.	2.5	17
34	Deep learning via ECG and PPG signals for prediction of depth of anesthesia. Biomedical Signal Processing and Control, 2021, 68, 102663.	3.5	17
35	Instantaneous 3D EEG Signal Analysis Based on Empirical Mode Decomposition and the Hilbert†Huang Transform Applied to Depth of Anaesthesia. Entropy, 2015, 17, 928-949.	1.1	16
36	Influence of morphine on host immunity. Acta Anaesthesiologica Taiwanica, 2011, 49, 105-108.	1.0	14

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37	Insulin signaling in female *Drosophila* links diet and sexual attractiveness. FASEB Journal, 2018, 32, 3870-3877.	0.2	14
38	Nervous System Deletion of *Mammalian INDY* in Mice Mimics Dietary Restriction-Induced Memory Enhancement. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 50-56.	1.7	14
39	Compatibility and Stability of Binary Mixtures of Ketorolac Tromethamine and Tramadol Hydrochloride Injection Concentrate and Diluted Infusion Solution. Acta Anaesthesiologica Taiwanica, 2010, 48, 117-121.	1.0	13
40	Effects of Eritoran Tetrasodium, a Toll-Like Receptor 4 Antagonist, on Intestinal Microcirculation in Endotoxemic Rats. Shock, 2012, 37, 556-561.	1.0	13
41	Patient-Controlled Epidural Levobupivacaine with or without Fentanyl for Post-Cesarean Section Pain Relief. BioMed Research International, 2014, 2014, 1-5.	0.9	13
42	Improved spectrum analysis in EEG for measure of depth of anesthesia based on phase-rectified signal averaging. Physiological Measurement, 2017, 38, 116-138.	1.2	13
43	A comparison of patients' heart rate variability and blood flow variability during surgery based on the Hilbert–Huang Transform. Biomedical Signal Processing and Control, 2012, 7, 465-473.	3.5	12
44	The effects of different epidural analgesia formulas on labor and mode of delivery in nulliparous women. Taiwanese Journal of Obstetrics and Gynecology, 2014, 53, 8-11.	0.5	12
45	An Adaptive Monitoring Scheme for Automatic Control of Anaesthesia in dynamic surgical environments based on Bispectral Index and Blood Pressure. Journal of Medical Systems, 2018, 42, 95.	2.2	12
46	Glycine Encephalopathy and Delayed Emergence from Anesthesia. Anesthesia and Analgesia, 2006, 103, 1631.	1.1	11
47	Intraoperative Assessment of Partial Atrioventricular Septal Defect with a Cleft Mitral Valve by Real-Time Three-Dimensional Transesophageal Echocardiography. Anesthesia and Analgesia, 2012, 114, 731-734.	1.1	11
48	Performance Analysis of Extracted Rule-Base Multivariable Type-2 Self-Organizing Fuzzy Logic Controller Applied to Anesthesia. BioMed Research International, 2014, 2014, 1-19.	0.9	10
49	Frontal EEG Temporal and Spectral Dynamics Similarity Analysis between Propofol and Desflurane Induced Anesthesia Using Hilbert-Huang Transform. BioMed Research International, 2018, 2018, 1-16.	0.9	10
50	HRV-derived data similarity and distribution index based on ensemble neural network for measuring depth of anaesthesia. PeerJ, 2017, 5, e4067.	0.9	10
51	Rule extraction by fuzzy modeling algorithm for fuzzy logic control of cisatracurium as a neuromuscular block. Engineering Applications of Artificial Intelligence, 2009, 22, 129-140.	4.3	9
52	Design and Evaluation of a Real Time Physiological Signals Acquisition System Implemented in Multi-Operating Rooms for Anesthesia. Journal of Medical Systems, 2018, 42, 148.	2.2	9
53	Patient -controlled epidural ropivacaine as a post-Cesarean analgesia: A comparison with epidural morphine. Taiwanese Journal of Obstetrics and Gynecology, 2011, 50, 441-446.	0.5	8
54	Impact of anesthetic methods on neonatal outcome in women receiving temporary balloon occlusion of the common iliac artery during cesarean section for placenta accreta. Taiwanese Journal of Obstetrics and Gynecology, 2011, 50, 515-517.	0.5	8

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55	A critical care monitoring system for depth of anaesthesia analysis based on entropy analysis and physiological information database. Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 591-605.	1.4	8
56	Depth of anesthesia prediction via EEG signals using convolutional neural network and ensemble empirical mode decomposition. Mathematical Biosciences and Engineering, 2021, 18, 5047-5068.	1.0	8
57	Polymorphism of Î¼-Opioid Receptor Gene (OPRM1:c.118A>G) Might Not Protect against or Enhance Morphine-Induced Nausea or Vomiting. Pain Research and Treatment, 2013, 2013, 1-7.	1.7	7
58	Performance of central venous catheterization by medical students: a retrospective study of studentsâ€™ logbooks. BMC Medical Education, 2014, 14, 168.	1.0	7
59	Myomectomy of a massive uterine myoma during cesarean section under regional anesthesia. Taiwanese Journal of Obstetrics and Gynecology, 2015, 54, 196-197.	0.5	7
60	Insulin signaling in female <i>Drosophila</i> links diet and sexual attractiveness. FASEB Journal, 2018, 32, 3870-3877.	0.2	7
61	Effects of dexmedetomidine on renal microcirculation in ischemia/reperfusion-induced acute kidney injury in rats. Scientific Reports, 2021, 11, 2026.	1.6	7
62	Cardiopulmonary Resuscitation in the Lateral Position for an Infant with an Anterior Mediastinal Mass. Acta Anaesthesiologica Taiwanica, 2009, 47, 40-43.	1.0	6
63	Delayed Onset of Contralateral Pulmonary Edema Following Reexpansion Pulmonary Edema of a Collapsed Lung After Video-assisted Thoracoscopic Surgery. Acta Anaesthesiologica Taiwanica, 2009, 47, 87-91.	1.0	6
64	Recombinant activated factor VII as a promising adjuvant therapy for postpartum hemorrhage in the practice of obstetric anesthesia: Experience from a university hospital in Taiwan. Journal of Obstetrics and Gynaecology Research, 2011, 37, 901-907.	0.6	6
65	Developing a monitoring psychological stress index system via photoplethysmography. Artificial Life and Robotics, 2011, 16, 430-433.	0.7	6
66	The admission systemic inflammatory response syndrome predicts outcome in patients undergoing emergency surgery. Asian Journal of Surgery, 2013, 36, 99-103.	0.2	6
67	Comparison of the efficacy of supraglottic airway devices in low-risk adult patients: a network meta-analysis and systematic review. Scientific Reports, 2021, 11, 15074.	1.6	6
68	Right ventricular exclusion for hepatocellular carcinoma metastatic to the heart. Journal of Cardiothoracic Surgery, 2010, 5, 95.	0.4	5
69	The role of transesophageal echocardiography in transplantation of an adult-sized kidney to a small child. Acta Anaesthesiologica Taiwanica, 2012, 50, 185-187.	1.0	5
70	Prospective observational pharmacogenetic study of side effects induced by intravenous morphine for postoperative analgesia. Medicine (United States), 2017, 96, e7009.	0.4	5
71	Multi-timescale phase-amplitude couplings in transitions of anesthetic-induced unconsciousness. Scientific Reports, 2019, 9, 7815.	1.6	5
72	Non-Invasive Hemodynamics Monitoring System Based on Electrocardiography via Deep Convolutional Autoencoder. Sensors, 2021, 21, 6264.	2.1	5

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73	Electroencephalogram variability analysis for monitoring depth of anesthesia. Journal of Neural Engineering, 2021, 18, .	1.8	5
74	MUSCLE RELAXATION CONTROLLED BY AUTOMATED ADMINISTRATION OF CISATRACURIUM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 284-295.	0.3	4
75	Modified lightwand intubation in a child with spondyloepiphyseal dysplasia congenita. Acta Anaesthesiologica Taiwanica, 2011, 49, 66-68.	1.0	4
76	Intravenous electrocardiography helps inexperienced operators to place totally implantable venous access device more accurately. Journal of Surgical Oncology, 2012, 105, 848-851.	0.8	4
77	Electroencephalogram Similarity Analysis Using Temporal and Spectral Dynamics Analysis for Propofol and Desflurane Induced Unconsciousness. Symmetry, 2018, 10, 15.	1.1	4
78	THE INTELLIGENT ARCHITECTURE FOR SIMULATION OF INHALATIONAL ANAESTHESIA. Biomedical Engineering - Applications, Basis and Communications, 2004, 16, 272-280.	0.3	3
79	Neurotoxicity of a Novel Local Anesthetic Agent, Ropivacaine: The Possible Roles of Bursts of Potential and Cytoplasmic Second Messenger. Journal of the Formosan Medical Association, 2007, 106, 815-825.	0.8	3
80	Restricted Motion of a Mechanical Mitral Valve. Anesthesia and Analgesia, 2010, 110, 1584-1586.	1.1	3
81	Ultralow dose combined spinalâ€"epidural anesthesia for cesarean section in ritodrine-related severe pulmonary hypertension. Taiwanese Journal of Obstetrics and Gynecology, 2013, 52, 617.	0.5	3
82	Genetic type-2 self-organising fuzzy logic controller applied to anaesthesia. , 2015, , .		3
83	Comparing effects of intraoperative fluid and vasopressor infusion on intestinal microcirculation. Scientific Reports, 2020, 10, 19856.	1.6	3
84	Nonlinear Analysis of Electroencephalogram Variability as a Measure of the Depth of Anesthesia. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	3
85	A Stenotic Bioprosthetic Valve in the Tricuspid Position. Anesthesia and Analgesia, 2012, 115, 253-256.	1.1	2
86	Multivariable Type-2 Self-Organizing Fuzzy Logic Controllers for Regulating Anesthesia with Rule Base Extraction. , 2013, , .		2
87	Changes in biomarkers of hepatic and renal function after prolonged general anesthesia for oral cancer surgery: A cohort comparison between desflurane and sevoflurane. Journal of Dental Sciences, 2013, 8, 385-391.	1.2	2
88	Alteration of Capnogram as the First Sign of Pneumothorax in an Infant Who Underwent Bronchoscopy with Jet Ventilation. Acta Anaesthesiologica Taiwanica, 2009, 47, 92-94.	1.0	1
89	Deceleration capacity of heart rate variability as a predictor of sedation related hypotension. Scientific Reports, 2021, 11, 10850.	1.6	1
90	Propofol Concentrations--An Alternative Explanation. Anesthesia and Analgesia, 1996, 82, 439.	1.1	0

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91	Coronary artery dissection in a patient with traumatic femoral shaft fracture. Acta Anaesthesiologica Taiwanica, 2010, 48, 191-193.	1.0	0
92	The Alaris auditory evoked potential monitor as an indicator of seizure inducibility and duration during electroconvulsive therapy: an observational study. BMC Anesthesiology, 2014, 14, 34.	0.7	0
93	Analyzing heart rate variability using a photoplethysmographic signal measuring system. , 2016, , .		0
94	The use of tenoxicam to prevent symptoms of discomfort induced by vagotonia during uterus manipulation in cesarean sections. Medicine (United States), 2017, 96, e7624.	0.4	0
95	Intelligent Real Time Data Mining of Depth of Anaesthesia. , 2011, , .		0
96	The Performance of Supraglottic Airway Devices at Different Head and Neck Rotation Angles. Asian Journal of Anesthesiology, 2018, 56, 115-120.	0.6	0