

# Shou-Zen Fan

## List of Publications by Year in descending order

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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	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
2	Nervous System Deletion of <i>Mammalian Indy</i> 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
3	Deceleration capacity of heart rate variability as a predictor of sedation related hypotension. Scientific Reports, 2021, 11, 10850.	1.6	1
4	Deep learning via ECG and PPG signals for prediction of depth of anesthesia. Biomedical Signal Processing and Control, 2021, 68, 102663.	3.5	17
5	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
6	Non-Invasive Hemodynamics Monitoring System Based on Electrocardiography via Deep Convolutional Autoencoder. Sensors, 2021, 21, 6264.	2.1	5
7	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
8	Effects of dexmedetomidine on renal microcirculation in ischemia/reperfusion-induced acute kidney injury in rats. Scientific Reports, 2021, 11, 2026.	1.6	7
9	Electroencephalogram variability analysis for monitoring depth of anesthesia. Journal of Neural Engineering, 2021, 18, .	1.8	5
10	Dietary citrate supplementation enhances longevity, metabolic health, and memory performance through promoting ketogenesis. Aging Cell, 2021, 20, e13510.	3.0	27
11	Comparing effects of intraoperative fluid and vasopressor infusion on intestinal microcirculation. Scientific Reports, 2020, 10, 19856.	1.6	3
12	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
13	Genetic Deep Convolutional Autoencoder Applied for Generative Continuous Arterial Blood Pressure via Photoplethysmography. Sensors, 2020, 20, 3829.	2.1	23
14	Multi-timescale phase-amplitude couplings in transitions of anesthetic-induced unconsciousness. Scientific Reports, 2019, 9, 7815.	1.6	5
15	Serotonin receptor HTR6-mediated mTORC1 signaling regulates dietary restriction-induced memory enhancement. PLoS Biology, 2019, 17, e2007097.	2.6	24
16	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
17	Insulin signaling in female <i>Drosophila</i> links diet and sexual attractiveness. FASEB Journal, 2018, 32, 3870-3877.	0.2	7
18	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

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19	Insulin signaling in female <i>Drosophila</i> links diet and sexual attractiveness. <i>FASEB Journal</i> , 2018, 32, 3870-3877.	0.2	14
20	Electroencephalogram Similarity Analysis Using Temporal and Spectral Dynamics Analysis for Propofol and Desflurane Induced Unconsciousness. <i>Symmetry</i> , 2018, 10, 15.	1.1	4
21	Frontal EEG Temporal and Spectral Dynamics Similarity Analysis between Propofol and Desflurane Induced Anesthesia Using Hilbert-Huang Transform. <i>BioMed Research International</i> , 2018, 2018, 1-16.	0.9	10
22	Sample entropy analysis for the estimating depth of anaesthesia through human EEG signal at different levels of unconsciousness during surgeries. <i>PeerJ</i> , 2018, 6, e4817.	0.9	60
23	The Performance of Supraglottic Airway Devices at Different Head and Neck Rotation Angles. <i>Asian Journal of Anesthesiology</i> , 2018, 56, 115-120.	0.6	0
24	Quasi-Periodicities Detection Using Phase-Rectified Signal Averaging in EEG Signals as a Depth of Anesthesia Monitor. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1773-1784.	2.7	27
25	Improved spectrum analysis in EEG for measure of depth of anesthesia based on phase-rectified signal averaging. <i>Physiological Measurement</i> , 2017, 38, 116-138.	1.2	13
26	EEG artifacts reduction by multivariate empirical mode decomposition and multiscale entropy for monitoring depth of anaesthesia during surgery. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1435-1450.	1.6	20
27	Prospective observational pharmacogenetic study of side effects induced by intravenous morphine for postoperative analgesia. <i>Medicine (United States)</i> , 2017, 96, e7009.	0.4	5
28	The use of tenoxicam to prevent symptoms of discomfort induced by vagotonia during uterus manipulation in cesarean sections. <i>Medicine (United States)</i> , 2017, 96, e7624.	0.4	0
29	I-Gel is a suitable alternative to endotracheal tubes in the laparoscopic pneumoperitoneum and trendelenburg position. <i>BMC Anesthesiology</i> , 2017, 17, 3.	0.7	24
30	Ludwigia octovalvis extract improves glycemic control and memory performance in diabetic mice. <i>Journal of Ethnopharmacology</i> , 2017, 207, 211-219.	2.0	19
31	HRV-derived data similarity and distribution index based on ensemble neural network for measuring depth of anaesthesia. <i>PeerJ</i> , 2017, 5, e4067.	0.9	10
32	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. <i>PLoS ONE</i> , 2016, 11, e0168108.	1.1	27
33	Analyzing heart rate variability using a photoplethysmographic signal measuring system. , 2016, , .		0
34	Comparison of FFT and marginal spectra of EEG using empirical mode decomposition to monitor anesthesia. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 137, 77-85.	2.6	25
35	A comparison of five different algorithms for EEG signal analysis in artifacts rejection for monitoring depth of anesthesia. <i>Biomedical Signal Processing and Control</i> , 2016, 25, 24-34.	3.5	24
36	Sample Entropy Analysis of EEG Signals via Artificial Neural Networks to Model Patients' Consciousness Level Based on Anesthesiologists Experience. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	40

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37	Computational Depth of Anesthesia via Multiple Vital Signs Based on Artificial Neural Networks. <i>BioMed Research International</i> , 2015, 2015, 1-13.	0.9	26
38	EEG Signals Analysis Using Multiscale Entropy for Depth of Anesthesia Monitoring during Surgery through Artificial Neural Networks. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-16.	0.7	40
39	Instantaneous 3D EEG Signal Analysis Based on Empirical Mode Decomposition and the Hilbert–Huang Transform Applied to Depth of Anaesthesia. <i>Entropy</i> , 2015, 17, 928-949.	1.1	16
40	Genetic type-2 self-organising fuzzy logic controller applied to anaesthesia. , 2015, , .		3
41	Myomectomy of a massive uterine myoma during cesarean section under regional anesthesia. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2015, 54, 196-197.	0.5	7
42	Performance Analysis of Extracted Rule-Base Multivariable Type-2 Self-Organizing Fuzzy Logic Controller Applied to Anesthesia. <i>BioMed Research International</i> , 2014, 2014, 1-19.	0.9	10
43	Patient-Controlled Epidural Levobupivacaine with or without Fentanyl for Post-Cesarean Section Pain Relief. <i>BioMed Research International</i> , 2014, 2014, 1-5.	0.9	13
44	Changes in endotracheal tube cuff pressure during laparoscopic surgery in head-up or head-down position. <i>BMC Anesthesiology</i> , 2014, 14, 75.	0.7	25
45	Target-controlled infusion of propofol versus intermittent bolus of a sedative cocktail regimen in deep sedation for gastrointestinal endoscopy: Comparison of cardiovascular and respiratory parameters. <i>Journal of Digestive Diseases</i> , 2014, 15, 18-26.	0.7	24
46	A critical care monitoring system for depth of anaesthesia analysis based on entropy analysis and physiological information database. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014, 37, 591-605.	1.4	8
47	Performance of central venous catheterization by medical students: a retrospective study of students' logbooks. <i>BMC Medical Education</i> , 2014, 14, 168.	1.0	7
48	The effects of different epidural analgesia formulas on labor and mode of delivery in nulliparous women. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2014, 53, 8-11.	0.5	12
49	The Alaris auditory evoked potential monitor as an indicator of seizure inducibility and duration during electroconvulsive therapy: an observational study. <i>BMC Anesthesiology</i> , 2014, 14, 34.	0.7	0
50	Multivariable Type-2 Self-Organizing Fuzzy Logic Controllers for Regulating Anesthesia with Rule Base Extraction. , 2013, , .		2
51	Changes in biomarkers of hepatic and renal function after prolonged general anesthesia for oral cancer surgery: A cohort comparison between desflurane and sevoflurane. <i>Journal of Dental Sciences</i> , 2013, 8, 385-391.	1.2	2
52	The admission systemic inflammatory response syndrome predicts outcome in patients undergoing emergency surgery. <i>Asian Journal of Surgery</i> , 2013, 36, 99-103.	0.2	6
53	Ultralow dose combined spinal–epidural anesthesia for cesarean section in ritodrine-related severe pulmonary hypertension. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2013, 52, 617.	0.5	3
54	Correlation between early sublingual small vessel density and late blood lactate level in critically ill surgical patients. <i>Journal of Surgical Research</i> , 2013, 180, 317-321.	0.8	22

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55	Application of Multivariate Empirical Mode Decomposition and Sample Entropy in EEG Signals via Artificial Neural Networks for Interpreting Depth of Anesthesia. <i>Entropy</i> , 2013, 15, 3325-3339.	1.1	62
56	Polymorphism of $\mu$ -Opioid Receptor Gene (OPRM1:c.118A>G) Might Not Protect against or Enhance Morphine-Induced Nausea or Vomiting. <i>Pain Research and Treatment</i> , 2013, 2013, 1-7.	1.7	7
57	Dexmedetomidine Prevents Alterations of Intestinal Microcirculation That Are Induced by Surgical Stress and Pain in a Novel Rat Model. <i>Anesthesia and Analgesia</i> , 2012, 115, 46-53.	1.1	35
58	A Stenotic Bioprosthetic Valve in the Tricuspid Position. <i>Anesthesia and Analgesia</i> , 2012, 115, 253-256.	1.1	2
59	Intraoperative Assessment of Partial Atrioventricular Septal Defect with a Cleft Mitral Valve by Real-Time Three-Dimensional Transesophageal Echocardiography. <i>Anesthesia and Analgesia</i> , 2012, 114, 731-734.	1.1	11
60	Effects of Eritoran Tetrasodium, a Toll-Like Receptor 4 Antagonist, on Intestinal Microcirculation in Endotoxemic Rats. <i>Shock</i> , 2012, 37, 556-561.	1.0	13
61	Enoxaparin sodium prevents intestinal microcirculatory dysfunction in endotoxemic rats. <i>Critical Care</i> , 2012, 16, R59.	2.5	17
62	Dental anesthesia for patients with special needs. <i>Acta Anaesthesiologica Taiwanica</i> , 2012, 50, 122-125.	1.0	50
63	The role of transesophageal echocardiography in transplantation of an adult-sized kidney to a small child. <i>Acta Anaesthesiologica Taiwanica</i> , 2012, 50, 185-187.	1.0	5
64	A comparison of patients's heart rate variability and blood flow variability during surgery based on the Hilbert-Huang Transform. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 465-473.	3.5	12
65	Adaptive Computation of Multiscale Entropy and Its Application in EEG Signals for Monitoring Depth of Anesthesia During Surgery. <i>Entropy</i> , 2012, 14, 978-992.	1.1	44
66	Intravenous electrocardiography helps inexperienced operators to place totally implantable venous access device more accurately. <i>Journal of Surgical Oncology</i> , 2012, 105, 848-851.	0.8	4
67	Modified lightwand intubation in a child with spondyloepiphyseal dysplasia congenita. <i>Acta Anaesthesiologica Taiwanica</i> , 2011, 49, 66-68.	1.0	4
68	Influence of morphine on host immunity. <i>Acta Anaesthesiologica Taiwanica</i> , 2011, 49, 105-108.	1.0	14
69	Patient -controlled epidural ropivacaine as a post-Cesarean analgesia: A comparison with epidural morphine. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2011, 50, 441-446.	0.5	8
70	Impact of anesthetic methods on neonatal outcome in women receiving temporary balloon occlusion of the common iliac artery during cesarean section for placenta accreta. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2011, 50, 515-517.	0.5	8
71	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. <i>Journal of Obstetrics and Gynaecology Research</i> , 2011, 37, 901-907.	0.6	6
72	Developing a monitoring psychological stress index system via photoplethysmography. <i>Artificial Life and Robotics</i> , 2011, 16, 430-433.	0.7	6

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73	Title is missing!. Journal of Medical and Biological Engineering, 2011, 31, 359.	1.0	22
74	Intelligent Real Time Data Mining of Depth of Anaesthesia. , 2011, , .		0
75	Restricted Motion of a Mechanical Mitral Valve. Anesthesia and Analgesia, 2010, 110, 1584-1586.	1.1	3
76	Coronary artery dissection in a patient with traumatic femoral shaft fracture. Acta Anaesthesiologica Taiwanica, 2010, 48, 191-193.	1.0	0
77	Right ventricular exclusion for hepatocellular carcinoma metastatic to the heart. Journal of Cardiothoracic Surgery, 2010, 5, 95.	0.4	5
78	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
79	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
80	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
81	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
82	Cardiopulmonary Resuscitation in the Lateral Position for an Infant with an Anterior Mediastinal Mass. Acta Anaesthesiologica Taiwanica, 2009, 47, 40-43.	1.0	6
83	Delayed Onset of Contralateral Pulmonary Edema Following Reexpansion Pulmonary Edema of a Collapsed Lung After Video-assisted Thoroscopic Surgery. Acta Anaesthesiologica Taiwanica, 2009, 47, 87-91.	1.0	6
84	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
85	Cervicofacial Subcutaneous Emphysema Following Tonsillectomy: Implications for Anesthesiologists. Acta Anaesthesiologica Taiwanica, 2009, 47, 134-137.	1.0	17
86	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
87	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
88	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
89	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
90	Glycine Encephalopathy and Delayed Emergence from Anesthesia. Anesthesia and Analgesia, 2006, 103, 1631.	1.1	11

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91	MUSCLE RELAXATION CONTROLLED BY AUTOMATED ADMINISTRATION OF CISATRACURIUM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 284-295.	0.3	4
92	THE INTELLIGENT ARCHITECTURE FOR SIMULATION OF INHALATIONAL ANAESTHESIA. Biomedical Engineering - Applications, Basis and Communications, 2004, 16, 272-280.	0.3	3
93	Hierarchical rule-based monitoring and fuzzy logic control for neuromuscular block. Journal of Clinical Monitoring and Computing, 2000, 16, 583-592.	0.7	32
94	Propofol Concentrations--An Alternative Explanation. Anesthesia and Analgesia, 1996, 82, 439.	1.1	0
95	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
96	Successful Cardiopulmonary Resuscitation of Two Patients in the Prone Position Using Reversed Precordial Compression. Anesthesiology, 1992, 77, 202-204.	1.3	59