

Jin-Shin Lai

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,859
citations

218592

26
h-index

189801

50
g-index

96
all docs

96
docs citations

96
times ranked

2316
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 12-month Tai Chi training in the elderly: its effect on health fitness. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 345-351. | 0.2 | 247 |
| 2 | Cardiorespiratory function, flexibility, and body composition among geriatric Tai Chi Chuan practitioners. <i>Archives of Physical Medicine and Rehabilitation</i> , 1996, 77, 612-616. | 0.5 | 179 |
| 3 | Tai Chi Chuan. <i>Sports Medicine</i> , 2002, 32, 217-224. | 3.1 | 171 |
| 4 | Tai Chi Chuan to improve muscular strength and endurance in elderly individuals: A pilot study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 604-607. | 0.5 | 165 |
| 5 | Two-Year Trends in Cardiorespiratory Function Among Older Tai Chi Chuan Practitioners and Sedentary Subjects. <i>Journal of the American Geriatrics Society</i> , 1995, 43, 1222-1227. | 1.3 | 147 |
| 6 | The effect of Tai Chi on cardiorespiratory function in patients with coronary artery bypass surgery. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 634-638. | 0.2 | 119 |
| 7 | Tai Chi Chuan in Medicine and Health Promotion. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-17. | 0.5 | 107 |
| 8 | The relation between standing balance and walking function in children with spastic diplegic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 1997, 39, 106-112. | 1.1 | 102 |
| 9 | The application of cepstral coefficients and maximum likelihood method in EMG pattern recognition [movements classification]. <i>IEEE Transactions on Biomedical Engineering</i> , 1995, 42, 777-785. | 2.5 | 100 |
| 10 | Isokinetic elbow joint torques estimation from surface EMG and joint kinematic data: using an artificial neural network model. <i>Journal of Electromyography and Kinesiology</i> , 1999, 9, 173-183. | 0.7 | 99 |
| 11 | A neuro-control system for the knee joint position control with quadriceps stimulation. <i>IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society</i> , 1997, 5, 2-11. | 1.4 | 96 |
| 12 | The Exercise Intensity of Tai Chi Chuan. , 2008, 52, 12-19. | | 77 |
| 13 | Heart Rate Responses and Oxygen Consumption during Tai Chi Chuan Practice. <i>The American Journal of Chinese Medicine</i> , 2001, 29, 403-410. | 1.5 | 71 |
| 14 | The Aerobic Capacity and Ventilatory Efficiency During Exercise in Qigong and Tai Chi Chuan Practitioners. <i>The American Journal of Chinese Medicine</i> , 2004, 32, 141-150. | 1.5 | 70 |
| 15 | Relative Exercise Intensity of Tai Chi Chuan is Similar in Different Ages and Gender. <i>The American Journal of Chinese Medicine</i> , 2004, 32, 151-160. | 1.5 | 62 |
| 16 | Real-time implementation of electromyogram pattern recognition as a control command of man-machine interface. <i>Medical Engineering and Physics</i> , 1996, 18, 529-537. | 0.8 | 61 |
| 17 | Bidirectional and Multi-User Telerehabilitation System: Clinical Effect on Balance, Functional Activity, and Satisfaction in Patients with Chronic Stroke Living in Long-Term Care Facilities. <i>Sensors</i> , 2014, 14, 12451-12466. | 2.1 | 60 |
| 18 | Optimization of walking in children. <i>Medicine and Science in Sports and Exercise</i> , 1997, 29, 370-376. | 0.2 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The Cardiorespiratory Response and Energy Expenditure of Tai-Chi-Qui-Gong. <i>The American Journal of Chinese Medicine</i> , 2002, 30, 451-461. | 1.5 | 45 |
| 20 | Tai Chi Chuan Exercise for Patients with Cardiovascular Disease. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-9. | 0.5 | 45 |
| 21 | A head movement image (HMI)-controlled computer mouse for people with disabilities Analysis of a time-out protocol and its applications in a single server environment. <i>Disability and Rehabilitation</i> , 2003, 25, 163-167. | 0.9 | 40 |
| 22 | Efficacy of a Home-Based Exercise Program for Orthotopic Heart Transplant Recipients. <i>Cardiology</i> , 2008, 111, 87-93. | 0.6 | 38 |
| 23 | Deep Learning based Motion Prediction for Exoskeleton Robot Control in Upper Limb Rehabilitation. , 2019, , . | | 34 |
| 24 | Decreased autonomic nervous system activity as assessed by heart rate variability in patients with chronic tetraplegia. <i>Archives of Physical Medicine and Rehabilitation</i> , 2000, 81, 1181-1184. | 0.5 | 33 |
| 25 | Effect of Tai Chi Chuan Training on Cardiovascular Risk Factors in Dyslipidemic Patients. <i>Journal of Alternative and Complementary Medicine</i> , 2008, 14, 813-819. | 2.1 | 32 |
| 26 | The hypothalamus-pituitary-ovary and hypothalamus-pituitary-thyroid axes in spinal cord injured women. <i>Metabolism: Clinical and Experimental</i> , 1996, 45, 718-722. | 1.5 | 31 |
| 27 | Serum adiponectin levels are associated with hepatitis B viral load in overweight to obese hepatitis B virus carriers. <i>Obesity</i> , 2013, 21, 291-296. | 1.5 | 30 |
| 28 | Tai Chi Training for Patients with Coronary Heart Disease. , 2008, 52, 182-194. | | 29 |
| 29 | Improvement of Cardiorespiratory Function After Percutaneous Transluminal Coronary Angioplasty or Coronary Artery Bypass Grafting. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2002, 81, 336-341. | 0.7 | 27 |
| 30 | Comparison of Pressure and Time Parameters in Evaluating Diabetic Footwear. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2002, 81, 822-829. | 0.7 | 25 |
| 31 | Electrophysiological and Functional Effects of Shock Waves on the Sciatic Nerve of Rats. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1688-1696. | 0.7 | 24 |
| 32 | Strain measurements of rabbit achilles tendons by ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 1241-1250. | 0.7 | 22 |
| 33 | Neural network and fuzzy control in FES-assisted locomotion for the hemiplegic. <i>Journal of Medical Engineering and Technology</i> , 2004, 28, 32-38. | 0.8 | 21 |
| 34 | Changes of Aerobic Capacity, Fat Ratio and Flexibility in Older TCC Practitioners: A Five-Year Follow-Up. <i>The American Journal of Chinese Medicine</i> , 2008, 36, 1041-1050. | 1.5 | 21 |
| 35 | The effect of electroacupuncture merged with rehabilitation for frozen shoulder syndrome: A single-blind randomized sham-acupuncture controlled study. <i>Journal of the Formosan Medical Association</i> , 2020, 119, 81-88. | 0.8 | 21 |
| 36 | Energy expenditure of wheeling and walking during prosthetic rehabilitation in a woman with bilateral transfemoral amputations. <i>Archives of Physical Medicine and Rehabilitation</i> , 2001, 82, 265-269. | 0.5 | 18 |

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|----|---|-----|-----------|
| 37 | Poor functional recovery may indicate restenosis in patients after coronary angioplasty 11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the authors(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2003, 84, 1023-1027. | 0.5 | 18 |
| 38 | Evaluation of Rocker Sole by Pressure???Time Curves in Insensate Forefoot During Gait. American Journal of Physical Medicine and Rehabilitation, 2004, 83, 500-506. | 0.7 | 18 |
| 39 | Effect of a Cane on Sit-to-Stand Transfer in Subjects with Hemiparesis. American Journal of Physical Medicine and Rehabilitation, 2013, 92, 191-202. | 0.7 | 17 |
| 40 | The comparison of electromyographic pattern classifications with active and passive electrodes. Medical Engineering and Physics, 2004, 26, 605-610. | 0.8 | 15 |
| 41 | Patient-driven loop control for hand function restoration in a non-invasive functional electrical stimulation system. Disability and Rehabilitation, 2008, 30, 1499-1505. | 0.9 | 14 |
| 42 | The risky body mass index ranges for significant hepatitis B viral load: A campus-based study. Obesity Research and Clinical Practice, 2012, 6, e31-e38. | 0.8 | 14 |
| 43 | Neuromuscular electric stimulation enhances endothelial vascular control and hemodynamic function in paretic upper extremities of patients with stroke. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1112-1116. | 0.5 | 13 |
| 44 | Response of Taiwanese obese binge eaters to a hospital-based weight reduction program. Journal of Psychosomatic Research, 2004, 57, 279-285. | 1.2 | 13 |
| 45 | Pulse Energy as a Reliable Reference for Twitch Forces Induced by Transcutaneous Neuromuscular Electrical Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 574-583. | 2.7 | 12 |
| 46 | Spinal Cord Infarction Caused by Cardiac Tamponade. American Journal of Physical Medicine and Rehabilitation, 2002, 81, 68-71. | 0.7 | 11 |
| 47 | An Agile Enterprise Regulation Architecture for Health Information Security Management. Telemedicine Journal and E-Health, 2010, 16, 807-817. | 1.6 | 11 |
| 48 | The effects of physical activity, body mass index (BMI) and waist circumference (WC) on glucose intolerance in older people: A nationwide study from Taiwan. Archives of Gerontology and Geriatrics, 2011, 52, 54-59. | 1.4 | 11 |
| 49 | Low-Cost Tele-assessment System for Home-Based Evaluation of Reaching Ability Following Stroke. Telemedicine Journal and E-Health, 2013, 19, 973-978. | 1.6 | 11 |
| 50 | A Service-Oriented Healthcare Message Alerting Architecture in an Asia Medical Center: A Case Study. International Journal of Environmental Research and Public Health, 2009, 6, 1870-1881. | 1.2 | 10 |
| 51 | IMU-Based Estimation of Lower Limb Motion Trajectory With Graph Convolution Network. IEEE Sensors Journal, 2021, 21, 24549-24557. | 2.4 | 10 |
| 52 | Clinical effects of combined bilateral arm training with functional electrical stimulation in patients with stroke. , 2011, 2011, 5975367. | | 9 |
| 53 | Psychobehavioral response and weight loss prediction in a hospital-based weight reduction program. Journal of the Formosan Medical Association, 2002, 101, 705-11. | 0.8 | 9 |
| 54 | The effect of electrode arrangement on spectral distance measures for discrimination of EMG signals. IEEE Transactions on Biomedical Engineering, 1997, 44, 1020-1023. | 2.5 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Development of the FES System with Neural Network+PID Controller for the Stroke. , 0, , . | | 8 |
| 56 | In-shoe pressure measurements with a viscoelastic heel orthosis. Archives of Physical Medicine and Rehabilitation, 1999, 80, 805-810. | 0.5 | 7 |
| 57 | SEMG-controlled telephone interface for people with disabilities. Journal of Medical Engineering and Technology, 2002, 26, 173-176. | 0.8 | 7 |
| 58 | Usability Evaluation of Mobile Medical Treatment Carts: Another Explanation by Information Engineers. Journal of Medical Systems, 2012, 36, 1327-1334. | 2.2 | 7 |
| 59 | Application of SEMG in computer mouse access for the disabilities. Disability and Rehabilitation, 2003, 25, 218-223. | 0.9 | 6 |
| 60 | Interactive torque controller with electromyography intention prediction implemented on exoskeleton robot NTUH-II. , 2017, , . | | 6 |
| 61 | SUBMAXIMAL OXYGEN PULSE DIVIDED BY BODY WEIGHT DURING INCREMENTAL EXERCISE TEST1. American Journal of Physical Medicine and Rehabilitation, 1997, 76, 297-303. | 0.7 | 6 |
| 62 | Using time-frequency analysis technique in the classification of surface EMG signals. , 0, , . | | 5 |
| 63 | Mobile hospital: healthcare for anybody in anytime and anywhere. , 0, , . | | 5 |
| 64 | A VERSATILE LABVIEW-BASED TOOLBOX DESIGN AND MAN-MACHINE INTERFACE FOR THE ELECTRICAL STIMULATION SYSTEM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 144-152. | 0.3 | 5 |
| 65 | Infrared-based communication augmentation system for people with multiple disabilities. Disability and Rehabilitation, 2004, 26, 1105-1109. | 0.9 | 4 |
| 66 | Electric compass aided global positioning system navigation for powered wheelchairs. Disability and Rehabilitation: Assistive Technology, 2010, 5, 223-229. | 1.3 | 4 |
| 67 | Reducing anterior tibial translation by applying functional electrical stimulation in dynamic knee extension exercises: Quantitative results acquired via marker tracking. Clinical Biomechanics, 2013, 28, 549-554. | 0.5 | 4 |
| 68 | A pelvic motion driven electrical stimulator for drop-foot treatment. , 2009, 2009, 666-9. | | 3 |
| 69 | The Strategic Use of Standardized Information Exchange Technology in a University Health System. Telemedicine Journal and E-Health, 2010, 16, 314-326. | 1.6 | 3 |
| 70 | Cardiorespiratory Function of Pediatric Heart Transplant Recipients in the Early Postoperative Period. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 156-161. | 0.7 | 3 |
| 71 | Real-time mobile-to-mobile stethoscope for distant healthcare. , 2014, , . | | 3 |
| 72 | The feasibility study of mobile-to-mobile communication for auscultation of heart sound and lung sound. , 2015, , . | | 3 |

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|----|--|-----|-----------|
| 73 | Active control with force sensor and shoulder circumduction implemented on exoskeleton robot NTUH-II. , 2016, , . | | 3 |
| 74 | Velocity Field based Active-Assistive Control for Upper Limb Rehabilitation Exoskeleton Robot. , 2020, , . | | 3 |
| 75 | EXERCISE TEST IN ACUTE MYOCARDIAL INFARCTION1. American Journal of Physical Medicine and Rehabilitation, 1996, 75, 263-269. | 0.7 | 3 |
| 76 | Cepstral coefficients as the new features for electromyography(EMG) pattern recognition. , 0, , . | | 2 |
| 77 | A digital signal processor based functional electrical stimulation system with its user interface design. , 0, , . | | 2 |
| 78 | A Unified Approach to Adoption of Laboratory LOIN in Taiwan. , 2007, , . | | 2 |
| 79 | Evolution and Integration of Medical Laboratory Information System in an Asia National Medical Center. IEICE Transactions on Communications, 2009, E92-B, 379-386. | 0.4 | 2 |
| 80 | A joint localizer for finger length measurements. , 2013, , . | | 2 |
| 81 | Using time-varying autoregressive filter to improve EMG amplitude estimator. , 0, , . | | 1 |
| 82 | A head orientated electric wheelchair for people with disabilities. , 0, , . | | 1 |
| 83 | The M3S-based electric wheelchair for the people with disabilities in Taiwan. Disability and Rehabilitation, 2005, 27, 1471-1477. | 0.9 | 1 |
| 84 | An Interflow System Requirement Analysis in Health Informatics Field. , 2009, , . | | 1 |
| 85 | Understanding Discrepancy: A Conceptual Persistent Healthcare Quality Improvement Process for Software Development Management. , 0, , . | | 1 |
| 86 | Categorized level management agent with forest-based data structures for accessing personal health records. , 2011, , . | | 1 |
| 87 | A gravity compensation-based upper limb rehabilitation robot. , 2012, , . | | 1 |
| 88 | A diagonal recurrent neural network based FES system for the knee joint position control. , 0, , . | | 0 |
| 89 | A Healthcare Pattern Collection for Rural Telemedicine Services. , 2006, , . | | 0 |
| 90 | A Healthcare Pattern Collection for Rural Telemedicine Services. , 0, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | RESIDUAL CAPABILITIES OF HEMIPLEGIC PATIENTS TO RESTORE HAND FUNCTIONS VIA A NON-INVASIVE FUNCTIONAL ELECTRICAL STIMULATION SYSTEM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 255-263. | 0.3 | 0 |
| 92 | A Conceptual Persistent Healthcare Quality Improvement Process for Software Development Management. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3673-6. | 0.5 | 0 |
| 93 | Safety measures implemented for modular functioning electrical stimulators. , 2009, 2009, 7220-3. | | 0 |
| 94 | Filtering performance of reducing the sampling rate of sound card: Perspectives on different signal-to-noise ratios. , 2014, , . | | 0 |
| 95 | Adaptive filter application for the safety of detecting lung sound on ambulance. , 2016, , . | | 0 |
| 96 | Adaptive filter application for the safety of detecting lung sound on ambulance. , 2016, , . | | 0 |