

蘇芳慶特聘教授近年研究成果截錄

【2020~2022 SCI 期刊論文】總計: 37 篇

1. Lin YC, Chou P PH, Lin HT, Shih CL, Lu CC, Su FC, 2021, "A New Method for Evaluating Pelvic and Trunk Rotational Pitching Mechanics: From Qualitative to Quantitative Approaches", *International journal of environmental research and public health*, 18(3):1-15. DOI:10.3390/ijerph18030905. (SCI)
2. Cheng, IF, Kuo LC, Tsai Y J, Su, FC, 2021 Apr 1, "The comparisons of physical functional performances between older adults with and without regular physical activity in two different living settings", *International journal of environmental research and public health*. 18, 7, 3561. (SCI)
3. Lin CW, Kuo LC, Lin YC, Su FC, Lin YA, Hsu HY, 2021, "Development and Testing of a Virtual Reality Mirror Therapy System for the Sensorimotor Performance of Upper Extremity: A Pilot Randomized Controlled Trial", *IEEE Access*, 9:14725-14734 IDO: 10.1109/ACCESS.2021.3050656 (SCI)
4. Lin CC, Yeh CH, Tsai YC, Kuo LC, Hsu HY, Chuang PH, Chang K, Su FC, 2021, "Evidence-based Customized Ankle-Foot Orthosis with Energy Storage", *J Med Biol Eng* 41:126–136). (SCI)
5. Jou IM, Wu TT, Hsu CC, Yang CC, Huang JS, Tu YK, Lee JS, Su FC, Kuo YL, 2021, "High molecular weight form of hyaluronic acid reduces neuroinflammatory response in injured sciatic nerve via the intracellular domain of CD44", *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, 109(5):673-680. IDO:10.1002/jbm.b.34731. (SCI)
6. Hsu HY, Kuan TS, Tsai CL, Wu PT, Kuo YL, Su FC, Kuo LC, 2021, "Effect of a Novel Perturbation-Based Pinch Task Training on Sensorimotor Performance of Upper Extremity for Patients with Chronic Stroke: A Pilot Randomized Controlled Trial", *Archives of Physical Medicine and Rehabilitation* 102 (5), 811-818, DOI:10.1016/j.apmr.2020.11.004. (SCI)
7. Chen PY, Yang TH, Kuo LC, Hsu HY, Su FC, Huang CC, 2021, "Evaluation of Hand Tendon Elastic Properties During Rehabilitation Through High-Frequency Ultrasound Shear Elastography," *IEEE Trans Ultrason Ferroelectr Freq Control*, 68(8):2716-2726 (SCI)
8. Cheng IF, Lin CJ, Kuo LC, Hsue BJ, Su FC, 2021, "Dynamic Anthropometrics of Preschool Children in Taiwan for Playground Equipment Designs, 2021," *J Med Biol Eng*, 41:273-284. (SCI)
9. Wu HW, Chang YS, Arefin MS, You YL, Su FC, Lin CF, 2021, "Six-Week Remodeled Bike Pedal Training Improves Dynamic Control of Lateral Shuffling in Athletes with Functional Ankle Instability", *Sports Health*. August 2021. doi:10.1177/194173812111035781. (SCI)
10. Hsu HY, Yang KC, Yeh CH, Lin YC, Lin KR, Su FC, Kuo LC, 2021, "A Tenodesis-Induced-Grip exoskeleton robot (TIGER) for assisting upper extremity functions in stroke patients: a randomized control study", *Disabil. Rehabil.*, DOI: 10.1080/09638288.2021.1980915. (SCI)
11. Tsou JY, Kao CL, Hong MY, Chang CJ, Su FC, Chi CH, 2021, "How does the side of approach impact the force delivered during external chest compression? ", *Am. J. Emerg. Med.*, 48: 67-72. (SCI)
12. Wang LH, Lo KC, Su FC, 2021, "Skill level and forearm muscle fatigue effects on ball speed in tennis serve," *Sports Biomechanics*, 7:1-12. (SCI)
13. Wang, L. H., Lo, K. C., Jou, I. M. & Su, F. C., Forearm muscle activation, ulnar nerve at the elbow and forearm fatigue in overhand sports, 2020, *Sports Biomechanics*. 19, 6, p. 792-807 16 p. (SCI)
14. You, Y. L., Lin, C. J., Chieh, H. F., Tsai, Y. J., Lee, S. Y., Lin, C. F., Hsu, Y. C., Kuo, L. C. & Su, F. C., Comparison of knee biomechanical characteristics during exercise between pinnacle and step trainers, 2020, *Gait and Posture*. 77, p. 201-206 6 p. (SCI)
15. Cheng, P. Y., Chieh, H. F., Lin, C. J., Hsu, H. Y., Chen, J. J., Kuo, L. C. & Su, F. C., Digit force

controls and corresponding brain activities in finger pressing performance: A comparison between older adults and young individuals, 2020, Journal of Aging and Physical Activity. 28, 1, p. 94-103 10 p. (SCI)

【2020~2022 研究計畫】總經費: 5369 萬

1. 擴增實境互動手持療癒裝置之開發與應用 (3/3)(109/08-110/07, 主持人, 科技部, 961 萬)
2. 銀髮智慧長照及科技服務創新模式開發計畫-(三)居家輔具創新應用模式之開發(109/01-109/12/31, 主持人, 國衛院, 500 萬)
3. 創新樂齡智慧健康照護生態鏈之建立 (2/3) (3/3) (109/08 - 111/07/31, 主持人, 科技部, 1200 萬)
4. 臺灣細胞治療技術國際接軌平台規劃案(108/10/01 ~ 109/09/30, 主持人, 科技部, 700 萬)
5. 我國二至六歲兒童人體動態計測值於兒童遊戲場安全、建築法規以及兒童用品設計之應用 (109/09/01 ~ 111/08/31, 主持人, 教育部, 1487 萬)
6. 國際學者邀訪-日本東北大學 Masaaki Sato 教授(109/11/15 ~ 109/12/14, 主持人, 科技部, 14 萬)
7. 新南向學海築夢-大專校院選送優秀學生赴國外專業實習計畫(109/07/01 ~ 111/10/31, 主持人 教育部, 35 萬)
8. 歐盟智慧健康長照(AAL)計畫- HeAlthy Ageing eco-system for peopLe with dementia(110/06-113/05, 主持人, 科技部, 838 萬)
9. 運用無人機建立居家三維視覺空間感知與運動訓練系統 (110/08 ~ 113/07, 主持人, 科技部, 334 萬)

【國內外學術組織委員】

- (1) 世界華人生物醫學工程協會 理事長(2017-2020)
- (2) 世界最大生物力學學術組織 理事 World Council of Biomechanics; Council Member (2014-2026)
- (3) 台灣經濟部標準檢驗局 技術委員(108/7/1-110/6/30)
- (4) 成大研發基金會 董事長(109/10/1-112/9/30)
- (5) 科技部國合策略委員(109/7/1-112/6/30)

【其它事蹟】

- (1) 2022 科技部傑出研究獎
- (2) 2020 臺灣生物科技與醫學名人錄

2019 年代表代表科技部出席 AAL Forum 2019 會議正式成爲會員國。