Research outputs

Phase-based Quantification of Sports Performance Metrics Using a Smart IoT Sensor

AI-Enabled Micro Motion Sensors for Revealing the Random Daily Activities of Caged Mice

Development of the high angular resolution 360° LiDAR based on scanning MEMS mirror

Mapping of Spatiotemporal Auricular Electrophysiological Signals Reveals Human Biometric Clusters

Wide-Bandwidth Nanocomposite-Sensor Integrated Smart Mask for Tracking Multiphase Respiratory Activities

Wireless AI-Powered IoT Sensors for Laboratory Mice Behavior Recognition

Sphygmopalpation using Tactile Robotic Fingers Reveals Fundamental Arterial Pulse Patterns

Wireless AI-Powered IoT Sensors for Laboratory Mice Behavior Recognition

Nanomaterials for Flexible Arterial Pulse Sensors
Nanotopography-induced Cell Growth with Enhanced Maturation on Polymer Substrates

In situ printing of liquid superlenses for subdiffraction-limited color imaging of nanobiostructures in nature

Micro-Dispensing of Graphene Oxide based Capacitive Tactile Sensors for Human Pressure-Pulse Detection

Robust control of dielectric elastomer diaphragm actuator for human pulse signal tracking

A low-cost reusable micro-Newton scale micro-thruster

3D Bio-printing of Cell-embedded Gelatin Methacrylate Hydrogel Micro-actuators

Atomization of High-Viscosity Fluids for Aromatherapy Using Micro-heaters for Heterogeneous Bubble Nucleation

Micro bubble generation using monolayer graphene heating elements

Robust control of dielectric elastomer diaphragm actuator for replicating human pulse

A pulse-sensing robotic hand for tactile arterial palpation

Improving atomic force microscopy imaging by a direct inverse asymmetric PI hysteresis model

Towards High Resolution Pico-Projector Applications: Design Improvements on MEMS Scanning Mirror

Design and Fabrication of a MEMS Scanning Mirror with and without Comb Offset
DESIGN OPTIMIZATION OF MEMS 2D SCANNING MIRRORS WITH HIGH RESONANT FREQUENCIES

基于光学聚焦方法的热驱动微执行器位移测量
缪磊, 董再励, 陈浩然, 李文荣 & 王越超, Dec 2005, In: 红外与激光工程/Infrared and Laser Engineering. 34, 6, p. 691-695

Identify the model of micro robotic gripper using the sequence of microscopic images

A biomimetic flying silicon microchip: feasibility study

Modeling the Micro Robotic Gripper Using Microscopic Images Sequence for Manipulation of Biological Cells

Structural and thermal analysis of a thermally actuated polymer micro robotic gripper

Displacement Measurement of A Thermally Actuated Polymer Micro Robotic Gripper Using The Optical Focus Method

Finite element modeling of a thermally actuated polymer micro robotic gripper

Measurement the Displacement of the Micro Robotic Gripper Using Microscopic Images

Polymer MEMS actuators for underwater micromanipulation

Design and fabrication of a micro thermal actuator for cellular grasping

Micromachined polymer actuators as tactors for tactile display

A thermally actuated polymer micro robotic gripper for manipulation of biological cells
A polymer-based micro thermal actuator for micromanipulations in aqueous environment
Scopus citations: 3

Grants

Projects

ITF: A MEMS-based Light Detection and Ranging (LIDAR) System with Super-resolution Microlens for Enhanced Structured-light 3D Imaging and Mapping
Li, W. J., Chan, H. Y., Cheung, N. & Wang, Z.
15/07/19 → 14/07/21

ITF: An Implantable Micro-Sensing System for Tracking Animal Motion Behaviors
Li, W. J., Chan, H. Y., Chan, H. M. & Chan, C. S.
1/11/17 → 30/09/19

ITF: A Pen-sized Biocompatible MEMS Atomizer for Aromatherapy and Wellbeing Applications
Li, W. J., Chan, H. Y. & Chau, B. F.
1/11/14 → 31/10/16

HMRF: Artificial Intelligence Recognitions for Traditional Chinese Medicine Pulse Patterns and its Correlation Study with Body Constitution Types in Healthy Human Subjects
Li, W. J., Chan, H. Y., Shen, J. & Siu, C. W.
1/07/20 → …

ITF: Audio-Fingerprint Activated Scent Releasing Platform
Li, W. J., Chan, H. Y. & Chan, K. M.
15/01/18 → 14/01/19

ITF: Eco-Cosmetic Intelligent Packaging System Based on Industrial IoT
Li, W. J., Chan, H. Y., Jen, A., Mah, J. S. & Zhang, G.
1/05/21 → 30/04/23