

Project Category	Year	Project Title	Participant	Job Title	Period	Unit
Research Projects	2015	Low parasitic rotation of two-dimensional nano-positioner design (II)	Shao-Kang Hung	PI	2015.11 ~ 2015.11	Ministry of science and technology
Research Projects	2014	Low parasitic rotation of two-dimensional nano-positioner design	Shao-Kang Hung	PI	2015.11 ~ 2015.11	Ministry of science and technology
Research Projects	2012	Micro-Nano Rapid Prototyping	Shao-Kang Hung	PI	2015.11 ~ 2015.11	Ministry of science and technology
Research Projects	2011	Instant Design and Research of Nano Camera (3/3)	Shao-Kang Hung	PI	2015.11 ~ 2015.11	Ministry of science and technology
Research Projects	2010	Design and research of real-time nano-camera (2/3)	Shao-Kang Hung	Principle investigator	2010.08 ~ 2012.07	National Science Council
Research Projects	2009	Design and research of real-time nano-camera (1/3)	Shao-Kang Hung	Principle investigator	2009.08 ~ 2012.07	National Science Council
Research Projects	2008	Design and study of high-speed nanopositioning	Shao-Kang Hung	Principle investigator	2008.09 ~ 2009.07	National Science Council

Year	Paper Title
2017	Paper List of Shao-Kang Hung Prof. on MOST website
2016	Shao-Kang Hunga, Kung-Hsuan Linb, Cheng-Lung Chena, Chen-Hsun Choua, You-Chuan Lina, Total-internal-reflection-based photomask for large-area photolithography, Optics & Laser Technology, 79, pp39-44
2015	Hung-Ruei Lin, Chiao-Hua Cheng, Shao-Kang Hung, Design and quasi-static characteristics study on a planar piezoelectric nanopositioner with ultralow parasitic rotation, Mechatronics, 31, pp180-188
2015	Chiao-Hua Cheng and Shao-Kang Hung , A Piezoelectric 2-Degree-of-Freedom Nano-Stepping MotorWith Parallel Design, IEEE/ASME Transactions on Mechatronics, Published online
2015	Shao-Kang Hung, Chiao-Hua Cheng, Cheng-Lung Chen, Automatic-Patterned Sapphire Substrate Nanometrology Using Atomic Force Microscope, IEEE TRANSACTIONS ON NANOTECHNOLOGY, 14, 2
2014	Shao-Kang Hung, Chiao-Hua Cheng, Ming-Li Chiang, and Jih-Wei Chieh, Transforming an Optical Pick-up-Head into an Accelerometer With UltraHigh Sensitivity, IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, 63, 3, pp687-693
2013	Y.C. Lin, C.Y. Hsu, S.K. Hung, D.C. Wen, Influence of TiO2 buffer layer and post-annealing on the quality of Ti-doped ZnO thin films, Ceramics International, 39, 5, pp5795-5803
2012	Mei-Yung Chen, Tzuo-Bo Lin, Shao-Kang Hung, Li-Chen Fu, Design and Experiment of a Macro – Micro Planar Maglev Positioning System, IEEE Transactions on Industrial Electronics, 59, 11, pp4128-4139
2012	Y.C. Lin, C.Y. Hsu, S.K. Hung, C.H. Chang, D.C. Wen, The structural and optoelectronic properties of Ti-doped ZnO thin films prepared by introducing a Cr buffer layer and post-annealing, Applied Surface Science, 258, 24, pp9891-9895
2011	Y.C.Lin, C.C.Tsao, C.Y.Hsu, S.K.Hung, D.C.Wen, Evaluation of the characteristics of the microelectrical discharge machining process using response surface methodology based on the central composite design , The International Journal of Advanced Manufacturing

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	Technology, 62, 9, pp1013-1023
2011	Mei-Yung Chen; Sheng-Chih Huang; Shao-Kang Hung; Li-Chen Fu, Design and Implementation of a New Six-DOF Maglev Positioner With a Fluid Bearing, IEEE/ASME Transactions on Mechatronics, 16, 3, pp449-458
2010	Mei-Yung Chen; Hsuan-Han Huang; Shao-Kang Hung, A New Design of a Submicropositioner Utilizing Electromagnetic Actuators and Flexure Mechanism , IEEE Transactions on Industrial Electronics, 57, 1, pp99-106
2010	Hung Shao-Kang, Spiral Scanning Method for Atomic Force Microscopy, Journal of Nanoscience and Nanotechnology, 10, 7, pp4511-4516
2010	Shiue Jessie; Hung Shao-Kang, A TEM phase plate loading system with loading monitoring and nano-positioning functions, Ultramicroscopy, 110, 9, pp1238-1242
2008	Hwu En-Te; Hung Shao-Kang; Yang Chih-Wen; et al, Real-time detection of linear and angular displacements with a modified DVD optical head, Nanotechnology, 19, 11
2007	Mei-Yung Chen, Huan-Wen Tzeng, and Shao-Kang Hung, “A New Mechanism Design of Electromagnetic Actuator for a Micropositioner,” , ISA Transactions , Vol. 46, pp41-48, (SCI, EI)
2007	En-Te Hwu, Shao-Kang Hung, Chih-Wen Yang, Kuang-Yuh Huang, and Ing-Shouh Hwang, “Simultaneous Detection of Translational and Angular Displacements of Micromachined Elements,” , Applied Physics Letters , Vol. 91, pp221908-, (SCI)
2007	Shao-Kang Hung, En-Te Hwu, Mei-Yung Chen, and Li-Chen Fu, “Dual-Stage Piezoelectric Nano-Positioner Utilizing a Range-Extended Optical Fiber Fabry-Perot Interferometer,” , IEEE/ASME Transactions on Mechatronics , Vol. 12, No. 3, pp291-298, (SCI, EI)
2006	En-Te Hwu, Kuang-Yuh Huang, Shao-Kang Hung, and Ing-Shouh Hwang, “Measurement of the Cantilever Displacement Using a CD/DVD Pickup Head,” , Japanese Journal of Applied Physics , Vol. 45, No. 3B, pp2368-2371, (SCI)

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2006 [Shao-Kang Hung, En-Te Hwu, Ing-Shouh Hwang, and Li-Chen Fu, “Postfitting Control Scheme for Periodic Piezoscanner Driving,” , Japanese Journal of Applied Physics , Vol. 45, No. 3B, pp1917-1921, \(SCI\)](#)

2006 [Shao-Kang Hung and Li-Chen Fu, “Novel Three-Dimensional Beam Tracking System for Stationary-Sample Type Atomic Force Microscopy,” , IEEE Transactions on Instrumentation and Measurement , Vol. 55, No. 5, pp1648-1654, \(SCI, EI\)](#)