

Jia-Yush Yen

List of Publications by Year in descending order

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139
papers

1,155
citations

430442

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h-index

500791

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140
all docs

140
docs citations

140
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-lens fabrication by a long-stroke precision stage with switching control based on model response prediction. <i>Microsystem Technologies</i> , 2022, 28, 45-58.	1.2	2
2	Effect of Static and Dynamic Stretching on Corneal Fibroblast Cell. <i>Processes</i> , 2022, 10, 605.	1.3	5
3	Correlation between corneal dynamic responses and keratoconus topographic parameters. <i>Journal of International Medical Research</i> , 2022, 50, 030006052211081.	0.4	0
4	Changes in Intraocular Pressure after Transepithelial Photorefractive Keratectomy and Femtosecond Laser In Situ Keratomileusis. <i>Journal of Ophthalmology</i> , 2021, 2021, 1-10.	0.6	3
5	Improved Haptic Transparency of Bilateral Control Using Torque-Measured Magnetic Coupling. <i>Machines</i> , 2021, 9, 172.	1.2	2
6	Functional assistance for stress distribution in cell culture membrane under periodically stretching. <i>Journal of Biomechanics</i> , 2021, 125, 110564.	0.9	4
7	Iterative Parameter Optimization for Multiple Switching Control Applied to a Precision Stage for Microfabrication. <i>Machines</i> , 2021, 9, 153.	1.2	0
8	Decoupled Multi-Loop Robust Control for a Walk-Assistance Robot Employing a Two-Wheeled Inverted Pendulum. <i>Machines</i> , 2021, 9, 205.	1.2	1
9	Needle Driver Control for a Robotic MIS Suturing System. <i>IFAC-PapersOnLine</i> , 2021, 54, 527-532.	0.5	0
10	Adaptation-Enhanced Model-Based Control with Charge Feedback for Piezo-Actuated Stage. <i>Asian Journal of Control</i> , 2020, 22, 104-116.	1.9	2
11	Keratoconus Screening Based on Deep Learning Approach of Corneal Topography. <i>Translational Vision Science and Technology</i> , 2020, 9, 53.	1.1	52
12	Active Transmission Module for Generator Speed Regulation. <i>IEEE Access</i> , 2020, 8, 203787-203792.	2.6	1
13	Study on the transient response to the point-to-point motion controls on a dual-axes air-bearing planar stage. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 2759-2772.	1.5	2
14	Precision positioning control of a long-stroke stage employing multiple switching control. <i>Microsystem Technologies</i> , 2020, , 1.	1.2	3
15	Featured Surface Matching Method for Liver Image Registration. <i>IEEE Access</i> , 2020, 8, 59723-59731.	2.6	3
16	A Survey of Suspension Component Specifications and Vehicle Vibration Measurements in an Operational Railway System. <i>Journal of Vibration Engineering and Technologies</i> , 2019, 7, 415-431.	1.3	2
17	Dynamic human object recognition by combining color and depth information with a clothing image histogram. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141982810.	1.3	1
18	Precise railway alignment measurements of the horizontal circular curves and the vertical parabolic curves using the chord method. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2019, 233, 537-549.	1.3	10

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19	Facile fabrication of superporous and biocompatible hydrogel scaffolds for artificial corneal periphery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 26-35.	2.5	21
20	Compensation for the Residual Error of the Voltage Drive of the Charge Control of a Piezoelectric Actuator. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	0.9	7
21	Modeling of railway turnout geometry in the frog area with the vehicle wheel trajectory. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 1598-1614.	1.3	4
22	An eight degree-of-freedom robotic endoscope holder. , 2018, , .		0
23	Battery cell modeling and online estimation of the state of charge of a lithium-ion battery. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2018, 41, 412-418.	0.6	4
24	Compensation of the residual error from the charge feedback control of a piezoelectric-actuated stage. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2017, 231, 414-424.	0.7	2
25	Fabrication of large-scale micro-structures by two-photon polymerization with a long-stroke precision stage. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769575.	0.8	3
26	High-performance and high-precision servo control of a single-deck dual-axis PMLSM stage. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 865-874.	1.5	4
27	Biomechanical Simulation of Stress Concentration and Intraocular Pressure in Corneas Subjected to Myopic Refractive Surgical Procedures. <i>Scientific Reports</i> , 2017, 7, 13906.	1.6	28
28	Integrating wavelet transformation with Markov random field analysis for the depth estimation of light-field images. <i>IET Computer Vision</i> , 2017, 11, 358-367.	1.3	6
29	Estimation of the Corneal Young's Modulus <i>In Vivo</i> Based on a Fluid-Filled Spherical-Shell Model with Scheimpflug Imaging. <i>Journal of Ophthalmology</i> , 2017, 2017, 1-11.	0.6	24
30	Robust State and Disturbance Observer Design for Linear Non-minimum-phase Systems. <i>Asian Journal of Control</i> , 2016, 18, 1135-1141.	1.9	7
31	Impacts of sensor layouts on the performance of a long-stroke nano-positioning stage. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401668019.	0.8	3
32	A corneal elastic dynamic model derived from Scheimpflug imaging technology. <i>Ophthalmic and Physiological Optics</i> , 2015, 35, 663-672.	1.0	20
33	A Novel Soundproof Ventilation Plant Design with High Performance and No Energy Consumption. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	0.6	2
34	A Turbidity Test Based Centrifugal Microfluidics Diagnostic System for Simultaneous Detection of HBV, HCV, and CMV. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8.	1.0	5
35	A Smart-Card E-paper Display System Based on RF Power Harvesting. <i>IETE Journal of Research</i> , 2015, 61, 201-212.	1.8	0
36	Computation of liver deformations for minimally invasive surgery. , 2015, , .		1

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37	A novel sound-blocking structure based on the muffler principle for rib-spring transcostal high-intensity focused ultrasound treatment. <i>International Journal of Hyperthermia</i> , 2015, 31, 507-527.	1.1	4
38	Temperature Effects on the Magnetic Properties of Silicon-Steel Sheets Using Standardized Toroidal Frame. <i>Scientific World Journal</i> , The, 2014, 2014, 1-18.	0.8	6
39	Robust loop-shaping control for a nano-positioning stage. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 885-900.	1.5	18
40	Precision tracking of a piezo-driven stage by charge feedback control. <i>Precision Engineering</i> , 2013, 37, 793-804.	1.8	20
41	Image based in situ electron-beam drift detection by silicon photodiodes in scanning-electron microscopy and an electron-beam lithography system. <i>Microelectronic Engineering</i> , 2013, 103, 137-143.	1.1	2
42	Solution-Refined Method for Electrostatic Potential Distribution of Large-Scale Electron Optics. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 055202.	0.8	0
43	Preliminary study of intracorporeal localization for endoscopy tracking. , 2013, , .		0
44	A Robust Variable Sampling Time BLDC Motor Control Design Based upon $\hat{1}/4$ -Synthesis. <i>Scientific World Journal</i> , The, 2013, 2013, 1-7.	0.8	1
45	ROBUST CONTROL FOR A PNEUMATIC MUSCLE ACTUATOR SYSTEM. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2013, 37, 581-590.	0.3	6
46	Construction of a High Frequency and High Reflectance Shutter for a Direct Write EUV Lithography System. <i>International Journal of Automation and Smart Technology</i> , 2013, 3, 107-115.	0.4	3
47	Dynamics Stress Analysis for a Minimal Invasive Scalpel Design. , 2013, , .		0
48	A Novel Design of High Intensity Focus Ultrasound (HIFU) for Enlarged Focus Area Application. , 2013, , .		0
49	Development of a system for mapping of thrust ripple induced by PMLSM drives in a single-deck, dual-axis precision stage. , 2012, , .		0
50	Ultrasound image-guided algorithms for tracking liver motion. , 2012, , .		2
51	Effectiveness of external respiratory surrogates for <i>in vivo</i> liver motion estimation. <i>Medical Physics</i> , 2012, 39, 5293-5301.	1.6	6
52	Line stitching in servo-assisted electron beam lithography system. , 2011, , .		0
53	Ultrasound Image-guided Tracking Algorithm for Moving-tumor Treatment. , 2011, , .		1
54	Longitudinal stitching of sub-micron periodic fringes on a roller. <i>Microelectronic Engineering</i> , 2011, 88, 3235-3243.	1.1	2

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55	Silicon photodiodes for electron beam position and drift detection in scanning electron microscopy and electron beam lithography system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 645, 84-89.	0.7	5
56	Bionic soft crystalline lens materials for MEMs applications based on self-assembling amphiphilic block copolymer/nanoparticle hybrids. Microelectronic Engineering, 2011, 88, 1737-1741.	1.1	3
57	Focal point tracking system for concentration solar power collection. Renewable and Sustainable Energy Reviews, 2011, 15, 3029-3033.	8.2	11
58	Structural design and analysis of a nano-positioning planar motion stage. , 2011, , .		2
59	Planar motion stage control using PDF controller. , 2011, , .		1
60	In situ beam drift detection using a two-dimensional electron-beam position monitoring system for multiple-electron-beam direct-write lithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, 041607.	0.6	7
61	MIMO variable structure control of a precision stage using PMLSM drives. , 2011, , .		1
62	High Performance FOV Switching Mechanism Design for an Infrared Zoom Lens. International Journal of Automation and Smart Technology, 2011, 1, 111-119.	0.4	1
63	Comparison of sensor fusion methods for an SMA-based hexapod biomimetic robot. Robotics and Autonomous Systems, 2010, 58, 737-744.	3.0	11
64	Novel Approach to Fuzzy-Wavelet ECG Signal Analysis for a Mobile Device. Journal of Medical Systems, 2010, 34, 71-81.	2.2	6
65	Development of a nano-positioning planar motion stage. , 2010, , .		2
66	Tracking Control of Shape-Memory-Alloy Actuators Based on Self-Sensing Feedback and Inverse Hysteresis Compensation. Sensors, 2010, 10, 112-127.	2.1	72
67	Robust Control Design for Vibration Isolation of an Electron Beam Projection Lithography System. Japanese Journal of Applied Physics, 2010, 49, 06GE04.	0.8	4
68	Modified Frequency-Partitioned Spectrum Estimation for a Wireless Health Advanced Monitoring Bio-Diagnosis System. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 611-622.	3.4	3
69	Architecture for next-generation massively parallel maskless lithography system (MPML2). Proceedings of SPIE, 2010, , .	0.8	9
70	Multivariable fixed-order robust control for a PEMFC system. , 2009, , .		0
71	Research on three dimensional machining effects using atomic force microscope. Review of Scientific Instruments, 2009, 80, 065105.	0.6	18
72	Hybrid servo design for large area nano pattern stitching. , 2009, , .		0

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73	Stitching periodic submicron fringes by utilizing step-and-align interference lithography. Journal of Vacuum Science & Technology B, 2009, 27, 2951-2957.	1.3	8
74	The Application of Disturbance Response Decoupling to the Vibration Control of an Electron Beam Lithography System. Japanese Journal of Applied Physics, 2009, 48, 06FB04.	0.8	5
75	Using MPCA of spectra model for fault detection in a hot strip mill. Journal of Materials Processing Technology, 2009, 209, 4162-4168.	3.1	10
76	Application of the continuous no-reset switching iterative learning control on a novel optical scanning system. Mechatronics, 2009, 19, 65-75.	2.0	17
77	Preliminary design of a two-dimensional electron beam position monitor system for multiple-electron-beam-direct-write lithography. Proceedings of SPIE, 2009, , .	0.8	3
78	Multivariable robust control of a proton exchange membrane fuel cell system. Journal of Power Sources, 2008, 177, 393-403.	4.0	61
79	Parameter identification when designing a solid-modeling-based grinding-machine controller. International Journal of Machine Tools and Manufacture, 2008, 48, 851-857.	6.2	1
80	ACTIVE VIBRATION ISOLATION FOR A LONG RANGE SCANNING TUNNELING MICROSCOPE. Asian Journal of Control, 2008, 6, 179-186.	1.9	7
81	AN AFM PROBE CONTROLLER DESIGN BASED ON \hat{H}_∞ -SYNTHESIS. Asian Journal of Control, 2008, 7, 12-19.	1.9	2
82	Sensor fusion in a SMA-based hexapod bio-mimetic robot. , 2008, , .		4
83	A bio-mimetic snake-like robot: Sensor based gait control. , 2008, , .		2
84	Minimizing abdominal wall damage during high-intensity focused ultrasound ablation by inducing artificial ascites. Journal of the Acoustical Society of America, 2008, 124, 674-679.	0.5	16
85	Stitching Technology Using Hybrid Actuators in Nano Imprint. , 2008, , .		0
86	A Variable-Sampling Controller for Brushless DC Motor Drives With Low-Resolution Position Sensors. IEEE Transactions on Industrial Electronics, 2007, 54, 2846-2852.	5.2	51
87	Multivariable system identification and robust control of a proton exchange membrane fuel cell system. , 2007, , .		4
88	A single deck 2D magnet levitation platform. , 2007, , .		1
89	Design and Servo Control of a Single-Deck Planar Maglev Stage. IEEE Transactions on Magnetics, 2007, 43, 2600-2602.	1.2	24
90	A HEXAPOD ROBOT BASED ON SHAPE MEMORY ALLOY ACTUATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 689-693.	0.4	3

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91	Solid modeling based servo system design for a high speed micro grinding machine. International Journal of Machine Tools and Manufacture, 2006, 46, 208-217.	6.2	3
92	Design of a novel 6-DOF planar maglev system. Journal of Magnetism and Magnetic Materials, 2006, 304, e386-e390.	1.0	3
93	A Sub-band Spectral Analysis for Electrocardiography. , 2006, , .		1
94	A new optical disk driver fine-seek algorithm based on runout learning. , 2005, , .		0
95	A general-purpose development kit for optical storage system design. , 2005, , .		0
96	High performance motion control of the novel optical servo scanning platform. , 2005, 5873, 183.		1
97	Robust control in the three-dimensional optical pickup head for optical disk drive. , 2005, 5643, 396.		0
98	A novel high-speed optical scanning platform. , 2005, , .		2
99	Active vibration isolation of a large stroke scanning probe microscope by using discrete sliding mode control. Sensors and Actuators A: Physical, 2005, 121, 243-250.	2.0	19
100	Radial fine seek control with fault protection in a digital versatile disc player. Mechatronics, 2005, 15, 129-150.	2.0	3
101	Effect of force control algorithms on the scanning probe microscope lithography system. Review of Scientific Instruments, 2005, 76, 036103.	0.6	1
102	Sliding mode control for active vibration isolation of a long range scanning tunneling microscope. Review of Scientific Instruments, 2004, 75, 4367-4373.	0.6	16
103	Development of an Intelligent Energy Management Network for Building Automation. IEEE Transactions on Automation Science and Engineering, 2004, 1, 14-25.	3.4	31
104	Performance robustness and stiffness analysis on a machine tool servo design. International Journal of Machine Tools and Manufacture, 2004, 44, 523-531.	6.2	13
105	In vivo wireless biodiagnosis system for long-term bioactivity monitoring network. , 2004, 5394, 288.		0
106	A novel fine track-seeking scheme for optical storage device. IEEE Transactions on Consumer Electronics, 2003, 49, 382-387.	3.0	3
107	THERMAL LESION FORMATION AND DETERMINATION FOR EXTERNAL ULTRASOUND THERMAL THERAPY. Biomedical Engineering - Applications, Basis and Communications, 2003, 15, 124-132.	0.3	2
108	Treatment time reduction for large thermal lesions by using a multiple 1D ultrasound phased array system. Physics in Medicine and Biology, 2003, 48, 1173-1190.	1.6	13

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109	Frequency-domain identification algorithms for servo systems with friction. IEEE Transactions on Control Systems Technology, 2002, 10, 654-665.	3.2	56
110	Optimization of power deposition and a heating strategy for external ultrasound thermal therapy. Medical Physics, 2001, 28, 2172-2181.	1.6	21
111	Servo parameter tuning for a 5-axis machine center based upon GA rules. International Journal of Machine Tools and Manufacture, 2001, 41, 1535-1550.	6.2	21
112	INTERRELATIONSHIP BETWEEN CONTROL PARAMETERS AND TUMOR/BONE CONDITIONS FOR EXTERNAL ULTRASOUND HYPERTHERMIA. Biomedical Engineering - Applications, Basis and Communications, 2001, 13, 199-212.	0.3	1
113	A mechatronics approach to the servo design for a maglev system. , 2001, , .		1
114	Adaptive nonlinear control of repulsive maglev suspension systems. Control Engineering Practice, 2000, 8, 1357-1367.	3.2	44
115	A theoretical study of cylindrical ultrasound transducers for intracavitary hyperthermia. International Journal of Radiation Oncology Biology Physics, 2000, 46, 1329-1336.	0.4	3
116	Treatable domain and optimal frequency for brain tumors during ultrasound hyperthermia. International Journal of Radiation Oncology Biology Physics, 2000, 46, 239-247.	0.4	9
117	Relationship between acoustic aperture size and tumor conditions for external ultrasound hyperthermia. Medical Physics, 1999, 26, 818-824.	1.6	28
118	Dual mode control of a system with friction. IEEE Transactions on Control Systems Technology, 1999, 7, 306-314.	3.2	18
119	Self-tuning fuzzy logic control for ultrasound hyperthermia with reference temperature based on objective functions. Medical Physics, 1999, 26, 825-833.	1.6	8
120	Optimal configuration of multiple-focused ultrasound transducers for external hyperthermia. Medical Physics, 1999, 26, 2007-2016.	1.6	9
121	Application of the least squares algorithm to the observer design for linear time-varying systems. IEEE Transactions on Automatic Control, 1999, 44, 1742-1745.	3.6	10
122	A decoupled path-following control algorithm based upon the decomposed trajectory error. International Journal of Machine Tools and Manufacture, 1999, 39, 1619-1630.	6.2	41
123	A New Compensator for Servo Systems With Position Dependent Friction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 612-618.	0.9	5
124	Specific absorption rate ratio patterns of cylindrical ultrasound transducers for breast tumors. Medical Physics, 1998, 25, 1041-1048.	1.6	4
125	Stability of PDF Controller With Stick-Slip Friction Device. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 486-490.	0.9	7
126	A trajectory feedback control for the computer disk file track-accessing/following servo. IEEE Transactions on Industrial Electronics, 1997, 44, 739-741.	5.2	1

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127	The design of a low cost motion chair for video games and MPEG video playback. IEEE Transactions on Consumer Electronics, 1996, 42, 991-997.	3.0	8
128	Servo Design for a 3-D Laser-Tracking Measurement System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1996, 118, 476-481.	0.9	4
129	BANG-BANG BASED FUZZY CONTROLLER FOR TIME OPTIMAL AND MINIMUM CHATTERING SERVO SYSTEMS. Electric Power Components and Systems, 1995, 23, 25-35.	0.1	10
130	Servo Design for a Laser 3D Measurement System. , 1993, , .		0
131	Computer Disk File Track Accessing Controller Design based upon Cell-to-Cell Mapping. , 1992, , .		9
132	Track-Following Controller Design for a Compound Disk Drive Actuator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1990, 112, 391-402.	0.9	27
133	Stability of PDF controller with stick-slip friction device. , 0, , .		1
134	Adaptive nonlinear control of repulsive Maglev suspension systems. , 0, , .		3
135	Variable sampling rate controller design for brushless DC motor. , 0, , .		11
136	A novel track jump controller with hybrid track position detector for the optical disk drives. , 0, , .		0
137	Design for control of a flexure jointed optical servo scanning platform. , 0, , .		0
138	Realization of Natural Human Motion on a 3D Biped Robot For Studying the Exoskeleton Effective. Journal of Medical and Biological Engineering, 0, , 1.	1.0	2
139	Lung image registration by featured surface matching method. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-10.	1.3	0