

Hung-Yao Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

599
citations

687220

13
h-index

642610

23
g-index

52
all docs

52
docs citations

52
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable and calibratable graphene sensors for accurate strain measurement. <i>Materials Advances</i> , 2020, 1, 235-243.	2.6	22
2	Generate basic conceptual solutions for 3DPVS via utilizing TRIZ. <i>Bio-Design and Manufacturing</i> , 2019, 2, 76-95.	3.9	4
3	Concept Justification of Future 3DPVS and Novel Approach towards its Conceptual Development. <i>Designs</i> , 2018, 2, 23.	1.3	4
4	Trinity of Three-Dimensional (3D) Scaffold, Vibration, and 3D Printing on Cell Culture Application: A Systematic Review and Indicating Future Direction. <i>Bioengineering</i> , 2018, 5, 57.	1.6	39
5	Development of a simplified approach for the fabrication of localised surface plasmon resonance sensors based on gold nanorods functionalized using mixed polyethylene glycol layers. <i>Analytica Chimica Acta</i> , 2017, 974, 87-92.	2.6	26
6	Nonlinear Fusion of Multispectral Citrus Fruit Image Data with Information Contents. <i>Sensors</i> , 2017, 17, 142.	2.1	7
7	Effects of Frequency and Acceleration Amplitude on Osteoblast Mechanical Vibration Responses: A Finite Element Study. <i>BioMed Research International</i> , 2016, 2016, 1-16.	0.9	16
8	A simple and inexpensive enteric-coated capsule for delivery of acid-labile macromolecules to the small intestine. <i>Journal of Zhejiang University: Science B</i> , 2015, 16, 586-592.	1.3	16
9	Smart thin-film piezoelectric composite sensors based on high lead zirconate titanate content. <i>Structural Health Monitoring</i> , 2015, 14, 214-227.	4.3	16
10	Superior piezoelectric composite films: taking advantage of carbon nanomaterials. <i>Nanotechnology</i> , 2014, 25, 045501.	1.3	13
11	Molecular photo-thermal optical coherence phase microscopy using gold nanorods. <i>RSC Advances</i> , 2014, 4, 27067-27073.	1.7	3
12	Use of Bi-Camera and Fusion of Pairwise Real Time Citrus Fruit Image for Classification Application. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2014, , 54-81.	0.4	0
13	Literature review on the creativity of CBR applications. <i>Artificial Intelligence Review</i> , 2013, 40, 379-390.	9.7	9
14	A feasibility study on the application of microwaves for online biofilm monitoring in the pipelines. <i>International Journal of Pressure Vessels and Piping</i> , 2013, 111-112, 99-105.	1.2	11
15	Effect of surface modification of lead zirconate titanate particles on the properties of piezoelectric composite sensors. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
16	Bearing Retainer Designs and Retainer Instability Failures in Spacecraft Moving Mechanical Systems. <i>Tribology Transactions</i> , 2012, 55, 503-511.	1.1	42
17	A faster path planner using accelerated particle swarm optimization. <i>Artificial Life and Robotics</i> , 2012, 17, 233-240.	0.7	23
18	Development of a Centrifugal Oil Lubricator for Long-Term Lubrication of Spacecraft Attitude Control Systems—Design and Theory. <i>Tribology Transactions</i> , 2011, 54, 770-778.	1.1	5

#	ARTICLE	IF	CITATIONS
19	TOWARD A CREATIVE PROBLEM-SOLVING METHODOLOGY WITH KNOWLEDGE PROVISION. Applied Artificial Intelligence, 2011, 25, 836-881.	2.0	4
20	Essential elements of biosensor development for water quality monitoring. , 2011, , .		1
21	Study on citrus fruit image using fisher linear discriminant analysis. , 2011, , .		0
22	Review on fruit harvesting method for potential use of automatic fruit harvesting systems. Procedia Engineering, 2011, 23, 351-366.	1.2	135
23	Study on citrus fruit image data separability by segmentation methods. Procedia Engineering, 2011, 23, 408-416.	1.2	9
24	Development of a Centrifugal Oil Lubricator for Long-Term Lubrication of Spacecraft Attitude Control Systemsâ€™Experimental Evaluation. Tribology Transactions, 2011, 54, 832-839.	1.1	5
25	Development of a Fabrication Process for the Manufacturing of a Microspherical Probe for Coordinate Measuring Machine Applications. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	4
26	Creating Micro-Orifice Using a Modified Ophthalmic Laser System. Materials and Manufacturing Processes, 2011, 26, 1188-1195.	2.7	2
27	Use of a cold mirror system for citrus fruit identification. , 2011, , .		4
28	Long-term lubrication of momentum wheels used in spacecraftsâ€™An overview. Tribology International, 2010, 43, 259-267.	3.0	53
29	Development of a Positive Lubrication System for Space Application. Tribology Online, 2010, 5, 40-45.	0.2	7
30	Towards Creative Case Based Reasoning. , 2010, , .		0
31	Development of a contact probe incorporating a Bragg grating strain sensor for nano coordinate measuring machines. Measurement Science and Technology, 2009, 20, 095304.	1.4	28
32	Development of a Lubrication System for Momentum Wheels Used in Spacecrafts. Tribology Letters, 2008, 32, 99-107.	1.2	14
33	Modification of an ophthalmic laser for micro-joining on MEMS. , 2008, , .		1
34	The Development of a Creativity-Enhancing Model for Innovative Design Concepts. , 2008, , .		2
35	Flexible pressure sensor on polymeric materials. Proceedings of SPIE, 2007, , .	0.8	0
36	A potential application of a piezoelectric atomiser for ophthalmic drug delivery. Applied Bionics and Biomechanics, 2007, 4, 9-17.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Development of Positioning Jig for Glass Capillary Bending Mechanism. , 2006, , .		0
38	Managing design for manufacture and assembly in the development of MEMS-based products. , 2006, 6415, 265.		0
39	A high-sensitivity optical touch trigger probe for down scaled 3D CMMs. , 2006, , .		2
40	Recognition of quadratic surface of revolution using a robotic vision system. Robotics and Computer-Integrated Manufacturing, 2006, 22, 134-143.	6.1	3
41	Preliminary Numerical Modelling of Non-Newtonian Fluid Behaviour Under Surface Microwaves. , 2006, , 763.		0
42	Development of A MEMS Based Manometric Catheter for Diagnosis of Functional Swallowing Disorders.. Journal of Physics: Conference Series, 2006, 34, 955-960.	0.3	3
43	Experimental study of fabricating a microball tip on an optical fibre. Journal of Optics, 2006, 8, 782-787.	1.5	32
44	A new disposable MEMS-based manometric catheter for in-vivo medical tests. , 2006, , .		0
45	Fabrication of integrated optic fibre tip for micron CMMs touch trigger probe application. , 2005, 6035, 27.		1
46	Finite element analysis of fluid behavior under micro surface waves. , 2005, , .		0
47	Concept design of a novel tactile probe tip for down scaled 3D CMMs. , 2005, 6037, 182.		3
48	Enhanced image-based coordinate measurement using a super-resolution method. Robotics and Computer-Integrated Manufacturing, 2005, 21, 579-588.	6.1	8
49	Design and simulation of an ultrasonic transducer. , 2005, , .		0
50	Design of a Bistable Compliant Locking Mechanism for New Generation Mirror Actuators. , 2005, , .		0
51	Quantitative measurement of component accessibility and product assemblability for design for assembly application. Robotics and Computer-Integrated Manufacturing, 2002, 18, 13-27.	6.1	11
52	A Design-for-assembly-based Product Redesign Approach. Journal of Engineering Design, 1998, 9, 171-195.	1.1	9