

Hung-Yao Hsu

List of Publications by Year in descending order

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52
papers

599
citations

687220

13
h-index

642610

23
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52
all docs

52
docs citations

52
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on fruit harvesting method for potential use of automatic fruit harvesting systems. <i>Procedia Engineering</i> , 2011, 23, 351-366.	1.2	135
2	Long-term lubrication of momentum wheels used in spacecrafts—An overview. <i>Tribology International</i> , 2010, 43, 259-267.	3.0	53
3	Bearing Retainer Designs and Retainer Instability Failures in Spacecraft Moving Mechanical Systems. <i>Tribology Transactions</i> , 2012, 55, 503-511.	1.1	42
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	Experimental study of fabricating a microball tip on an optical fibre. <i>Journal of Optics</i> , 2006, 8, 782-787.	1.5	32
6	Development of a contact probe incorporating a Bragg grating strain sensor for nano coordinate measuring machines. <i>Measurement Science and Technology</i> , 2009, 20, 095304.	1.4	28
7	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
8	A faster path planner using accelerated particle swarm optimization. <i>Artificial Life and Robotics</i> , 2012, 17, 233-240.	0.7	23
9	Stretchable and calibratable graphene sensors for accurate strain measurement. <i>Materials Advances</i> , 2020, 1, 235-243.	2.6	22
10	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
11	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
12	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
13	Development of a Lubrication System for Momentum Wheels Used in Spacecrafts. <i>Tribology Letters</i> , 2008, 32, 99-107.	1.2	14
14	Superior piezoelectric composite films: taking advantage of carbon nanomaterials. <i>Nanotechnology</i> , 2014, 25, 045501.	1.3	13
15	Quantitative measurement of component accessibility and product assemblability for design for assembly application. <i>Robotics and Computer-Integrated Manufacturing</i> , 2002, 18, 13-27.	6.1	11
16	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
17	A Design-for-assembly-based Product Redesign Approach. <i>Journal of Engineering Design</i> , 1998, 9, 171-195.	1.1	9
18	Study on citrus fruit image data separability by segmentation methods. <i>Procedia Engineering</i> , 2011, 23, 408-416.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Literature review on the creativity of CBR applications. <i>Artificial Intelligence Review</i> , 2013, 40, 379-390.	9.7	9
20	Enhanced image-based coordinate measurement using a super-resolution method. <i>Robotics and Computer-Integrated Manufacturing</i> , 2005, 21, 579-588.	6.1	8
21	Development of a Positive Lubrication System for Space Application. <i>Tribology Online</i> , 2010, 5, 40-45.	0.2	7
22	Nonlinear Fusion of Multispectral Citrus Fruit Image Data with Information Contents. <i>Sensors</i> , 2017, 17, 142.	2.1	7
23	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
24	Development of a Centrifugal Oil Lubricator for Long-Term Lubrication of Spacecraft Attitude Control Systems—Experimental Evaluation. <i>Tribology Transactions</i> , 2011, 54, 832-839.	1.1	5
25	TOWARD A CREATIVE PROBLEM-SOLVING METHODOLOGY WITH KNOWLEDGE PROVISION. <i>Applied Artificial Intelligence</i> , 2011, 25, 836-881.	2.0	4
26	Development of a Fabrication Process for the Manufacturing of a Microspherical Probe for Coordinate Measuring Machine Applications. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	1.7	4
27	Use of a cold mirror system for citrus fruit identification. , 2011, , .		4
28	Concept Justification of Future 3DPVS and Novel Approach towards its Conceptual Development. <i>Designs</i> , 2018, 2, 23.	1.3	4
29	Generate basic conceptual solutions for 3DPVS via utilizing TRIZ. <i>Bio-Design and Manufacturing</i> , 2019, 2, 76-95.	3.9	4
30	Concept design of a novel tactile probe tip for down scaled 3D CMMs. , 2005, 6037, 182.		3
31	Recognition of quadratic surface of revolution using a robotic vision system. <i>Robotics and Computer-Integrated Manufacturing</i> , 2006, 22, 134-143.	6.1	3
32	Development of A MEMS Based Manometric Catheter for Diagnosis of Functional Swallowing Disorders.. <i>Journal of Physics: Conference Series</i> , 2006, 34, 955-960.	0.3	3
33	Molecular photo-thermal optical coherence phase microscopy using gold nanorods. <i>RSC Advances</i> , 2014, 4, 27067-27073.	1.7	3
34	A high-sensitivity optical touch trigger probe for down scaled 3D CMMs. , 2006, , .		2
35	The Development of a Creativity-Enhancing Model for Innovative Design Concepts. , 2008, , .		2
36	Creating Micro-Orifice Using a Modified Ophthalmic Laser System. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1188-1195.	2.7	2

#	ARTICLE	IF	CITATIONS
37	Fabrication of integrated optic fibre tip for micron CMMs touch trigger probe application. , 2005, 6035, 27.		1
38	A potential application of a piezoelectric atomiser for ophthalmic drug delivery. Applied Bionics and Biomechanics, 2007, 4, 9-17.	0.5	1
39	Modification of an ophthalmic laser for micro-joining on MEMS. , 2008, , .		1
40	Essential elements of biosensor development for water quality monitoring. , 2011, , .		1
41	Effect of surface modification of lead zirconate titanate particles on the properties of piezoelectric composite sensors. Proceedings of SPIE, 2013, , .	0.8	1
42	Finite element analysis of fluid behavior under micro surface waves. , 2005, , .		0
43	Design and simulation of an ultrasonic transducer. , 2005, , .		0
44	Development of Positioning Jig for Glass Capillary Bending Mechanism. , 2006, , .		0
45	Managing design for manufacture and assembly in the development of MEMS-based products. , 2006, 6415, 265.		0
46	Preliminary Numerical Modelling of Non-Newtonian Fluid Behaviour Under Surface Microwaves. , 2006, , 763.		0
47	A new disposable MEMS-based manometric catheter for in-vivo medical tests. , 2006, , .		0
48	Flexible pressure sensor on polymeric materials. Proceedings of SPIE, 2007, , .	0.8	0
49	Towards Creative Case Based Reasoning. , 2010, , .		0
50	Study on citrus fruit image using fisher linear discriminant analysis. , 2011, , .		0
51	Design of a Bistable Compliant Locking Mechanism for New Generation Mirror Actuators. , 2005, , .		0
52	Use of Bi-Camera and Fusion of Pairwise Real Time Citrus Fruit Image for Classification Application. Advances in Computational Intelligence and Robotics Book Series, 2014, , 54-81.	0.4	0