

Fook Fah Yap

List of Publications by Year in descending order

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59
papers

1,195
citations

566801

15
h-index

395343

33
g-index

59
all docs

59
docs citations

59
times ranked

804
citing authors

#	ARTICLE	IF	CITATIONS
1	4D printed thermochromic Fresnel lenses for sensing applications. <i>Composites Part B: Engineering</i> , 2022, 230, 109514.	5.9	17
2	Polymer-based dampening layer application to improve the operating shock tolerance of hard disk drive. <i>Journal of Engineering and Applied Science</i> , 2022, 69, .	0.8	0
3	Compliant Mechanism-Based Sensor for Large Strain Measurements Employing Fiber Optics. <i>Sensors</i> , 2022, 22, 3987.	2.1	5
4	Vibration Analysis of the Third Rail Structure of a Mass Rapid Transit System with Structural Defects. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8410.	1.3	5
5	Implementation of a real-time, data-driven online Epidemic Calculator for tracking the spread of COVID-19 in Singapore and other countries. <i>Infectious Disease Modelling</i> , 2021, 6, 1159-1172.	1.2	2
6	Development of an improved design methodology and front steering design guideline for small-wheel bicycles for better stability and performance. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2020, 234, 227-244.	0.4	1
7	External Corrosion Detection of Oil Pipelines Using Fiber Optics. <i>Sensors</i> , 2020, 20, 684.	2.1	23
8	Safety assessment of personal mobility devices with different wheel size based on their dynamic stability performance. <i>International Journal of Sustainable Design</i> , 2020, 3, 227.	0.1	3
9	Safety assessment of personal mobility devices with different wheel size based on their dynamic stability performance. <i>International Journal of Sustainable Design</i> , 2020, 3, 227.	0.1	0
10	Reducing Fuel Consumption Using Flywheel Battery Technology for Rubber Tyred Gantry Cranes in Container Terminals. <i>Journal of Power and Energy Engineering</i> , 2017, 05, 15-33.	0.3	8
11	A knowledge-based web platform for collaborative physical system modeling and simulation. <i>Computer Applications in Engineering Education</i> , 2015, 23, 23-35.	2.2	6
12	Design and analysis of shock and random vibration isolation system for a discrete model of submerged jet impingement cooling system. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 468-482.	1.5	13
13	Shock and vibration protection of submerged jet impingement cooling systems: Theory and experiment. <i>Applied Thermal Engineering</i> , 2014, 73, 1076-1086.	3.0	10
14	Random vibration protection of a double-chamber submerged jet impingement cooling system: A continuous model. <i>Aerospace Science and Technology</i> , 2014, 35, 29-38.	2.5	15
15	An Investigation Into the Use of Four-Bar Linkage Mechanism as Actuator for Hard-Disk Drive. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 2466-2472.	1.2	3
16	ANALYTICAL RANDOM VIBRATION ANALYSIS OF BOUNDARY-EXCITED THIN RECTANGULAR PLATES. <i>International Journal of Structural Stability and Dynamics</i> , 2013, 13, 1250062.	1.5	26
17	Performance of spade-less wheeled military vehicles with passive and semi-active suspensions during mortar firing. <i>Vehicle System Dynamics</i> , 2012, 50, 1515-1537.	2.2	6
18	A new passive vibration isolator design for random base excitations in zero and non-zero G-loading situations. , 2011, , .		1

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19	Effect of Disk Clamping Conditions on the Operational Shock Response of Hard Disk Drives. IEEE Transactions on Magnetics, 2011, 47, 1874-1877.	1.2	2
20	Elimination of spades in wheeled military vehicles using MR-fluid dampers. Proceedings of SPIE, 2011, , .	0.8	1
21	Design and Analysis of Shock and Random Vibration Isolation of Operating Hard Disk Drive in Harsh Environment. Shock and Vibration, 2009, 16, 143-154.	0.3	14
22	Feasibility of Modeling Air Bearing as Linear Springs in Hard Disk Drive Dynamics Simulation. IEEE Transactions on Magnetics, 2009, 45, 4941-4944.	1.2	6
23	Airflow-Induced Noise and Prediction for High-Spinning-Speed Hard Disk Drive. Mechanics Based Design of Structures and Machines, 2009, 37, 413-429.	3.4	3
24	Dimple-flexure contact stiffness effect on operational hard disk drive shock tolerance. Microsystem Technologies, 2008, 14, 1157-1163.	1.2	5
25	A Model for a Hard Disk Drive for Vibration and Shock Analysis. IEEE Transactions on Magnetics, 2008, 44, 4764-4768.	1.2	12
26	Mathematical Model of Drum-type MR Brakes using Herschel-Bulkley Shear Model. Journal of Intelligent Material Systems and Structures, 2008, 19, 565-572.	1.4	117
27	MR-fluid yield surface determination in disc-type MR rotary brakes. Smart Materials and Structures, 2008, 17, 035021.	1.8	24
28	Shock analysis of a head actuator assembly subjected to half-sine acceleration pulses. International Journal of Impact Engineering, 2007, 34, 253-263.	2.4	37
29	Modeling of hard disk drives for shock and vibration analysis – consideration of nonlinearities and discontinuities. Nonlinear Dynamics, 2007, 50, 717-731.	2.7	12
30	Shock response analysis of hard disk drive using flexible multibody dynamics formulation. Microsystem Technologies, 2007, 13, 1039-1045.	1.2	6
31	A more efficient approach for investigation of effect of various HDD components on the shock tolerance. Microsystem Technologies, 2007, 13, 1331-1338.	1.2	7
32	Toward Efficient Op-Shock Simulation. , 2006, , .		0
33	The pulse width effect of single half-sine acceleration pulse on the peak response of an actuator arm of hard disk drive. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 199-203.	2.6	9
34	Design and analysis of vibration isolation systems for hard disk drives. Journal of Magnetism and Magnetic Materials, 2006, 303, e52-e56.	1.0	12
35	Numerical model of spindle/disks assembly – shaft – housing system for vibro-acoustic analysis of HDD in idle mode. Mechanical Systems and Signal Processing, 2006, 20, 438-462.	4.4	2
36	Shock analysis of non-operating hard disk drives based on a multibody dynamic formulation. Microsystem Technologies, 2006, 12, 247-257.	1.2	4

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37	Modeling of hard disk drives for vibration analysis using a flexible multibody dynamics formulation. IEEE Transactions on Magnetics, 2005, 41, 744-749.	1.2	16
38	Advanced Suspension Systems for Wheeled Military Vehicles. , 2005, , 593.		0
39	Study on Idle Noise Characteristics of Hard Disk Drives Based on a Multibody Dynamic Formulation. Mechanics Based Design of Structures and Machines, 2005, 33, 215-241.	3.4	5
40	Feedback control of rotating disk flutter in an enclosure. Journal of Fluids and Structures, 2004, 19, 917-932.	1.5	21
41	Vibro-acoustic interaction of components in hard disk drive under seek process. Microsystem Technologies, 2003, 9, 496-500.	1.2	7
42	Active Noise Control Using Piezoelectric Actuators in Hard Disk Drives. Mechanics Based Design of Structures and Machines, 2003, 31, 475-490.	3.4	5
43	Identification of Spring-Force Factors of Suspension Systems Using Progressive Neural Network on a Validated Computer Model. Inverse Problems in Science and Engineering, 2003, 11, 55-74.	0.5	7
44	Reliability of PBGA assemblies under out-of-plane vibration excitations. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 293-300.	1.4	35
45	On Determination of the Material Constants of Laminated Cylindrical Shells Based on an Inverse Optimal Approach. Inverse Problems in Science and Engineering, 2002, 10, 309-322.	0.5	10
46	MR damper and its application for semi-active control of vehicle suspension system. Mechatronics, 2002, 12, 963-973.	2.0	376
47	Feature-Based Component Models for Virtual Prototyping of Hydraulic Systems. International Journal of Advanced Manufacturing Technology, 2001, 18, 665-672.	1.5	6
48	A Fuzzy Neural Network Approach to Model Hydraulic Component from Input/Output Data. International Journal of Fluid Power, 2001, 2, 37-47.	0.7	4
49	A fuzzy neural network approach to model component behavior for virtual prototyping of hydraulic system. , 2001, , .		2
50	Computational tools for fluid power system design: towards distributed AI and virtual reality. International Journal of Computer Applications in Technology, 2000, 13, 295.	0.3	5
51	<title>Test and reliability analysis of PBGA assemblies under random vibration</title>. , 2000, , .		3
52	Vibration reliability characterization of PBGA assemblies. Microelectronics Reliability, 2000, 40, 1097-1107.	0.9	52
53	Electro-Rheological Multi-layer Squeeze Film Damper and Its Application to Vibration Control of Rotor System. Journal of Vibration and Acoustics, Transactions of the ASME, 2000, 122, 7-11.	1.0	34
54	Testing and steady state modeling of a linear MR damper under sinusoidal loading. Smart Materials and Structures, 2000, 9, 95-102.	1.8	157

#	ARTICLE	IF	CITATIONS
55	INVESTIGATION OF DAMPING EFFECTS ON STATISTICAL ENERGY ANALYSIS OF COUPLED STRUCTURES. Journal of Sound and Vibration, 1996, 197, 351-371.	2.1	25
56	Vibro-acoustic analysis of hard disk drives. , 0, , .		1
57	Modeling of hard disk drives for vibration analysis using a flexible multi-body dynamics formulation. , 0, , .		0
58	Study on vibro-acoustic characteristics of disks-spindle system of hard disk drives. , 0, , .		0
59	Front steering design guidelines formulation for e-scooters considering the influence of sitting and standing riders on self-stability and safety performance. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702199217.	1.1	7