

Chongdu Cho

List of Publications by Year in descending order

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113
papers

1,068
citations

516215

16
h-index

525886

27
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113
all docs

113
docs citations

113
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale analysis and experimental research for turbine guide vanes made of 2D braided SiCf/SiC composites in high-cycle fatigue regime. <i>International Journal of Fatigue</i> , 2022, 156, 106697.	2.8	6
2	Investigations for Design Estimation of an Anisotropic Polymer Matrix Composite Plate with a Central Circular Hole under Uniaxial Tension. <i>Polymers</i> , 2022, 14, 1977.	2.0	1
3	A Novel Electronic Wedge Brake Based on Active Disturbance Rejection Control. <i>Energies</i> , 2022, 15, 5096.	1.6	1
4	Development of Modeling Method for Computational Analysis of 3D Printing Model. <i>Transactions of the Korean Society of Automotive Engineers</i> , 2021, 29, 257-264.	0.1	0
5	Review and Suggestion of Failure Theories in Voids Scenario for VARTM Processed Composite Materials. <i>Polymers</i> , 2021, 13, 969.	2.0	10
6	Effect of Ankle Torque on the Ankleâ€œFoot Orthosis Joint Design Sustainability. <i>Materials</i> , 2021, 14, 2975.	1.3	3
7	Torque Measurement Technology by Using a Magnetostrictive Ring and Multiple Magnets. <i>Actuators</i> , 2021, 10, 124.	1.2	4
8	Investigation on Mechanical Properties of a Carbon Paper Gas Diffusion Layer through a 3-D Nonlinear and Orthotropic Constitutive Model. <i>Energies</i> , 2021, 14, 6341.	1.6	2
9	An Enhanced Genetic Algorithm for Parameter Estimation of Sinusoidal Signals. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5110.	1.3	6
10	Modeling and Two-Step Homogenization of Aperiodic Heterogenous 3D Four-Directional Braided Composites. <i>Journal of Composites Science</i> , 2020, 4, 179.	1.4	11
11	Characterization of Effective In-Plane Electrical Resistivity of a Gas Diffusion Layer in Polymer Electrolyte Membrane Fuel Cells through Freezeâ€œThaw Thermal Cycles. <i>Energies</i> , 2020, 13, 145.	1.6	12
12	The influence of graphene on the dynamic mechanical behaviour of shear thickening fluids. <i>Advanced Powder Technology</i> , 2019, 30, 2416-2421.	2.0	23
13	A Three-Dimensional Finite Element Analysis Model for SH-SAW Torque Sensors. <i>Sensors</i> , 2019, 19, 4290.	2.1	10
14	Study of Dynamic Behavior of Magnetostrictively Patterned Flexible Micro-Wings. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	1.2	1
15	An experimental investigation of three-dimensional mechanical characteristics of gas diffusion layers in proton electrolyte membrane fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2021-2030.	1.2	6
16	Effects of Freezeâ€œThaw Thermal Cycles on the Mechanical Degradation of the Gas Diffusion Layer in Polymer Electrolyte Membrane Fuel Cells. <i>Polymers</i> , 2019, 11, 428.	2.0	10
17	Quasi-static compressive behaviour of aluminium cenosphere syntactic foams. <i>Materials Science and Technology</i> , 2019, 35, 856-864.	0.8	20
18	Effect of Heat Treatment on Crack Propagation and Performance of Disk Brake with Cross Drilled Holes. <i>International Journal of Automotive Technology</i> , 2019, 20, 177-185.	0.7	3

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19	Establishing RVE model composed of dry fibers and matrix for 3D four-directional braided composites. Journal of Composite Materials, 2019, 53, 1917-1931.	1.2	9
20	Numerical Study for Brake Squeal by Machining Patterns on Frictional Surface. International Journal of Automotive Technology, 2018, 19, 281-289.	0.7	5
21	Modelling and analysis of diaphragm integrated SU8/CB nanocomposite piezoresistive polymer microcantilever biosensor. Microsystem Technologies, 2018, 24, 3061-3068.	1.2	12
22	A Novel Genetic Algorithm Applied to Parameter Estimation of Passive Surface Acoustic Wave Torque Sensing Signal. , 2018, , .		0
23	An Investigation of the Compressive Behavior of Polymer Electrode Membrane Fuel Cell's Gas Diffusion Layers under Different Temperatures. Polymers, 2018, 10, 971.	2.0	13
24	Modeling and Numerical Characterization of High Sensitive Microcantilever Biosensors with Parabolic Piezoresistor. Nano, 2018, 13, 1850055.	0.5	2
25	Effect of Protection Design Parameters on Mine Blast Impact Characteristics. Journal of the Korean Society for Precision Engineering, 2018, 35, 521-529.	0.1	1
26	A novel approach to impose periodic boundary condition on braided composite RVE model based on RPIM. Composite Structures, 2017, 163, 77-88.	3.1	47
27	Evaluation of three unit cell models in predicting the mechanical behaviour of 3D four-directional braided composites. Journal of Composite Materials, 2017, 51, 3757-3767.	1.2	12
28	Development of a Reinforced Bend with Shear Control Ring for District Heating. Energy Procedia, 2017, 116, 510-517.	1.8	0
29	Integrated approach to an optimal automotive timing chain system design. International Journal of Automotive Technology, 2017, 18, 1037-1045.	0.7	3
30	Adaptive fuzzy sliding mode control for electric power steering system. Journal of Mechanical Science and Technology, 2017, 31, 2643-2650.	0.7	14
31	Progressive damage simulation in 3D four-directional braided composites considering the jamming-action-induced yarn deformation. Composite Structures, 2017, 178, 330-340.	3.1	32
32	Failure behavior / characteristics of fabric reinforced polymer matrix composite and aluminum6061 on dynamic tensile loading. Journal of Mechanical Science and Technology, 2017, 31, 3661-3664.	0.7	3
33	An Experimental Study for Machined Patterns of Friction Surface on Two-pieces Disc Brake Rotor in Performance Aspect. Transactions of the Korean Society of Automotive Engineers, 2017, 25, 581-589.	0.1	1
34	Transmission Error Influences by Initial Tension of Timing Chain System. Transactions of the Korean Society of Automotive Engineers, 2017, 25, 133-139.	0.1	3
35	Effect of High Hardness Armor Plate Sequences on Ballistic Impact Response. Journal of the Korean Society for Precision Engineering, 2017, 34, 417-424.	0.1	0
36	An optimised silicon piezoresistive microcantilever sensor for surface stress studies. Microsystem Technologies, 2016, 22, 2279-2285.	1.2	5

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37	Two-dimensional dynamic analysis of sandwich plates with gradient foam cores. Journal of Mechanical Science and Technology, 2016, 30, 4083-4093.	0.7	4
38	Fast Bayesian approach to model calibration of vehicle occupant restraint systems. International Journal of Crashworthiness, 2016, 21, 1-8.	1.1	3
39	Sobol's sensitivity analysis for a fuel cell stack assembly model with the aid of structure-selection techniques. Journal of Power Sources, 2016, 301, 1-10.	4.0	21
40	Effect of p-type and n-type piezoresistors on characteristics of high sensitive silicon piezoresistive microcantilever designs. Microsystem Technologies, 2016, 22, 93-101.	1.2	6
41	Analysis of Real-Time Estimation Method Based on Hidden Markov Models for Battery System States of Health. Journal of Power Electronics, 2016, 16, 217-226.	0.9	20
42	An Experimental Study for Machined Patterns of Friction Surface on Disc Brake Rotor in Performance Aspect. Transactions of the Korean Society of Automotive Engineers, 2016, 24, 471-479.	0.1	4
43	Study of noncontact torque measurement method with magnetic sensor band. Journal of Mechanical Science and Technology, 2015, 29, 3897-3903.	0.7	5
44	Stability of Polymer Electrolyte Membranes In Fuel Cells: Initial Attempts To Bridge Physical And Chemical Degradation Modes. Fuel Cells, 2015, 15, 196-203.	1.5	12
45	A Feasibility Study of a Noncontact Torque Sensor with Multiple Hall Sensors. Journal of Sensors, 2015, 2015, 1-6.	0.6	6
46	An Investigation of the Mechanical Behaviors of [45/-45/0/90] _{ns} Satin Weave Composite at Different Loading Rates. Mechanics of Advanced Materials and Structures, 2015, 22, 367-375.	1.5	3
47	A study of the impact properties of adhesively-bonded aluminum alloy based on impact velocity. Journal of Mechanical Science and Technology, 2015, 29, 493-499.	0.7	12
48	Study on crack propagation of adhesively bonded DCB for aluminum foam using energy release rate. Journal of Mechanical Science and Technology, 2015, 29, 45-50.	0.7	21
49	Experimental and analytical verification of the characteristics of shear fatigue failure in the adhesive interface of porous foam materials. Journal of Mechanical Science and Technology, 2015, 29, 2333-2339.	0.7	11
50	Micromechanically motivated constitutive model to characterize the hygrothermomechanical response of polymer electrolyte membrane. Journal of Mechanical Science and Technology, 2015, 29, 1145-1150.	0.7	0
51	A method for epistemic uncertainty quantification and application to uniaxial tension modeling of polymers. Journal of Mechanical Science and Technology, 2015, 29, 1199-1206.	0.7	1
52	Dynamic response of beam-like composite sandwich plates with transversely flexible cores. Ocean Engineering, 2015, 108, 778-788.	1.9	7
53	Development of Computational Model for Spot Welding and Effect Analysis on Welding Conditions. Transactions of the Korean Society of Automotive Engineers, 2015, 23, 642-649.	0.1	2
54	Dynamic Compressive Behaviors of Multi Directional Woven Composite Laminates at Different Strain Rates. Polymers and Polymer Composites, 2014, 22, 169-176.	1.0	2

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55	Study on Stable Estimation Method for Lead-acid Battery SOC by Extended Kalman Filter. International Journal of Control and Automation, 2014, 7, 429-438.	0.3	10
56	On accuracy of sensitivity relations for piezoresistive microcantilevers used in surface stress studies. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2133-2140.	1.1	1
57	Ex-situ temperature and humidity aging effect on the tensile behavior of Nafion N117 membrane used in Ionic Polymerâ€Metal Composite actuators. Materials Letters, 2014, 124, 293-295.	1.3	6
58	Modeling and implementation of fixed switching frequency sliding mode control to two-stage DC-DC converter. International Journal of Control, Automation and Systems, 2014, 12, 1225-1233.	1.6	5
59	An effective inverse procedure for identifying viscoplastic material properties of polymer Nafion. Computational Materials Science, 2014, 95, 159-165.	1.4	11
60	Study on the Control Algorithm of Two-Stage DC-DC Converter for Electric Vehicles. Advances in Mechanical Engineering, 2014, 6, 203793.	0.8	4
61	Evaluation of Occupant Protection of Passenger Vehicles at IIHS Side Impact. Transactions of the Korean Society of Automotive Engineers, 2014, 22, 46-51.	0.1	1
62	A Study on Traffic Accident Reconstruction through Vehicle Crash Test. Transactions of the Korean Society of Automotive Engineers, 2013, 21, 58-63.	0.1	0
63	Stepped piezoresistive microcantilever designs for biosensors. Journal Physics D: Applied Physics, 2012, 45, 215401.	1.3	14
64	Robustly nano-tailored honeycomb structure for high-throughput antireflection polymer films. Journal of Materials Chemistry, 2012, 22, 17037.	6.7	22
65	Effect of compressive loading speed and stacking sequence on mechanical characteristics of satin weave Eâ€glass/epoxy composites. Polymer Composites, 2012, 33, 1603-1612.	2.3	5
66	Impact fracture behavior at the material of aluminum foam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 250-258.	2.6	64
67	On self-heating in piezoresistive microcantilevers with short piezoresistor. Journal Physics D: Applied Physics, 2011, 44, 285402.	1.3	12
68	Development of micromagnetostrictive wireless controllable actuator. Journal of Applied Physics, 2011, 109, 07E501.	1.1	3
69	Study on Edge Thickening Flow Forming Using the Finite Elements Analysis. , 2011, , .		1
70	Thermal Characteristics of Microcantilever Biosensors. Communications in Computer and Information Science, 2011, , 166-176.	0.4	3
71	An inscribed surface model for the elastic properties of armchair carbon nanotube. Journal of Mechanical Science and Technology, 2010, 24, 2233-2239.	0.7	5
72	Effect of bipolar plate materials on the stress distribution and interfacial contact resistance in PEM fuel cell. International Journal of Precision Engineering and Manufacturing, 2010, 11, 583-588.	1.1	11

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73	A New Extension of Cauchy's Born Rule for Monolayer Crystal Films. <i>Nanoscale Research Letters</i> , 2010, 5, 863-867.	3.1	0
74	Effect of gas-diffusion electrode material heterogeneity on the structural integrity of polymer electrolyte fuel cell. <i>Energy</i> , 2010, 35, 5241-5249.	4.5	24
75	THE STUDY OF INSCRIBED SURFACE OF ARMCHAIR CARBON NANOTUBES. <i>Modern Physics Letters B</i> , 2010, 24, 2021-2029.	1.0	1
76	SOC Estimation of Lead-Acid Batteries Based on UKF. , 2010, , .		0
77	Robust designed capacitive gas pressure sensor for harsh environment. , 2009, , .		5
78	Effect of Substrate Type on Overall Performance of Magnetostrictive Thin Film Cantilever Actuator for MEMS. , 2009, , .		0
79	Online statistical estimation methods for the internal resistance of nickel-hydrogen batteries. , 2009, , .		0
80	Comparison between Deflection and Vibration Characteristics of Rectangular and Trapezoidal profile Microcantilevers. <i>Sensors</i> , 2009, 9, 2706-2718.	2.1	38
81	A finite thin circular beam element for out-of-plane vibration analysis of curved beams. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 1396-1405.	0.7	13
82	STUDY ON SOFTENING CONSTITUTIVE MODEL OF SOFT ROCK USING STRAIN SPACE BASED UNIFIED STRENGTH THEORY. , 2009, , .		0
83	Modified boundary layer analysis for a mode III crack problem. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 653-661.	0.7	1
84	Investigation on the magnetomechanical behavior of trilayered GM actuator. <i>Journal of Rare Earths</i> , 2008, 26, 264-267.	2.5	2
85	The effect of biaxial load on stress and strain concentrations in a finite thickness elastic plate containing a circular hole. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 75, 103-126.	1.5	5
86	Feasibility study on a superelastic SMA damper with re-centring capability. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 473, 290-296.	2.6	65
87	Study on advanced multilayered magnetostrictive thin film coating techniques for MEMS application. <i>Journal of Materials Processing Technology</i> , 2008, 201, 678-682.	3.1	15
88	A numerical study on bolted end-plate connection using shape memory alloys. <i>Materials and Structures/Materiaux Et Constructions</i> , 2008, 41, 1419-1426.	1.3	24
89	Design and Analysis of a High Sensitive Microcantilever Biosensor for Biomedical Applications. , 2008, , .		21
90	Design and Analysis of Laminated Stainless Steel Membrane-Based Microsensors. <i>IEEE Sensors Journal</i> , 2008, 8, 182-187.	2.4	2

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91	EFFECT OF COMPRESSIVE RESIDUAL STRESS INDUCED DURING FABRICATING PROCESS IN THE CORE OF CLAMPED SANDWICH PLATE UNDER SHOCK LOADING. International Journal of Modern Physics B, 2008, 22, 1195-1200.	1.0	0
92	Numerical Modeling and Characterization of Micromachined Flexible Magnetostrictive Thin Film Actuator. IEEE Transactions on Magnetics, 2008, 44, 3209-3212.	1.2	5
93	Prediction of Hot Spots by Correlating Finite Element Analysis and Measurement for an Automotive Disk Brake. Tribology Transactions, 2008, 51, 609-620.	1.1	5
94	Magnetoelastic Characteristics of the Multilayered Magnetostrictive Thin Film With Polyimide Substrate for Micro Actuator. IEEE Transactions on Magnetics, 2008, 44, 4049-4052.	1.2	5
95	A Study on Increasing Sensitivity of Rectangular Microcantilevers Used in Biosensors. Sensors, 2008, 8, 7530-7544.	2.1	34
96	The Investigation of a Shape Memory Alloy Micro-Damper for MEMS Applications. Sensors, 2007, 7, 1887-1900.	2.1	58
97	Magnetostrictive Micro Mirrors for an Optical Switch Matrix. Sensors, 2007, 7, 2174-2182.	2.1	7
98	Effect of SmFe and TbFe film thickness on magnetostriction for MEMS devices. Journal of Materials Science, 2007, 42, 384-388.	1.7	14
99	OS10-1-5 Heat flow analysis of judder in the disk brake by using thermocouple. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS10-1-5-_OS10-1-5-.	0.0	0
100	P-26 Estimation of Magnetostrictive Properties of Tb_{0.24}Dy_{0.76}Fe_{2-x}Ni_x Thin Films. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _P-26-1-_P-26-4_.	0.0	0
101	OS4-7-2 Life Cycle Analysis of Automotive Junction Box Fuse by One-side Excitation Durability Measurement. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, OS4-7-2-1- OS4-7-2-5.	0.0	0
102	Design and Analysis of Electro-mechanical Characteristics of Micromachined Stainless Steel Pressure Sensor. , 2006, , .		1
103	Path stability of a crack with an eigenstrain. Journal of Mechanical Science and Technology, 2006, 20, 1428-1435.	0.7	0
104	Design study of a small scale soft recovery system. Journal of Mechanical Science and Technology, 2006, 20, 1961-1971.	0.7	7
105	A proposed phenomenological model for shape memory alloys. Smart Materials and Structures, 2006, 15, 393-400.	1.8	11
106	Combined Fatigue Life Test and Extrapolation of Turbine Disk Mortise at Elevated Temperature. Journal of Engineering for Gas Turbines and Power, 2005, 127, 863-868.	0.5	8
107	Effects of elastic energy of thin films on bending of a cantilevered magnetostrictive film-substrate system. Journal of Mechanical Science and Technology, 2004, 18, 622-629.	0.4	2
108	Computational mechanics of laser cladding process. Journal of Materials Processing Technology, 2004, 153-154, 494-500.	3.1	37

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109	TRANSIENT THERMOELASTIC ANALYSIS OF DISK BRAKE USING THE FAST FOURIER TRANSFORM AND FINITE ELEMENT METHOD. <i>Journal of Thermal Stresses</i> , 2002, 25, 215-243.	1.1	26
110	Thermo-elastic analysis for chattering phenomenon of automotive disk brake. <i>Journal of Mechanical Science and Technology</i> , 2001, 15, 569-579.	0.4	12
111	Dynamic response and damage of composite shell under impact. <i>Journal of Mechanical Science and Technology</i> , 1999, 13, 596-608.	0.4	8
112	Ultimate strength prediction of continuous fiber-reinforced brittle matrix composites. <i>Journal of Mechanical Science and Technology</i> , 1996, 10, 49-56.	0.1	1
113	A Design Feasibility Study of a Turbine Blade Disc Interface (Dovetail) Made By Four-Directional Braided Ceramic Matrix Composite (Sic/Sic). <i>International Journal of Aeronautical and Space Sciences</i> , 0, , 1.	1.0	2