

Ryosuke Matsuzaki

List of Publications by Year in descending order

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157
papers

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172457

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docs citations

158
times ranked

3102
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated interlaminar reinforcement with thickness directional fiber arrangement for 3D printing. <i>Composite Structures</i> , 2022, 286, 115321.	5.8	7
2	Matrix stiffness: A key parameter to control hydro-elasticity and morphing of 3D printed biocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 156, 106882.	7.6	12
3	3D Printing of Continuous Fiber Reinforced Polymer Composites: Development, Application, and Prospective. , 2022, 1, 100016.		22
4	Experimental evaluation of variable thickness 3D printing of continuous carbon fiber-reinforced composites. <i>Composite Structures</i> , 2022, 288, 115391.	5.8	13
5	3D printing of composite materials using ultralow-melt-viscosity polymer and continuous carbon fiber. <i>Composites Part C: Open Access</i> , 2022, 8, 100250.	3.2	4
6	Efficient estimation of thermal conductivity distribution during curing of thermoset composites. <i>Advanced Composite Materials</i> , 2021, 30, 34-49.	1.9	1
7	Optimization of curvilinear fiber orientation of composite plates and its experimental validation. <i>Composite Structures</i> , 2021, 255, 112956.	5.8	21
8	Compressive strength degradation of the curved sections of 3D-printed continuous carbon fiber composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 142, 106244.	7.6	10
9	Variable thickness design for composite materials using curvilinear fiber paths. <i>Composite Structures</i> , 2021, 263, 113723.	5.8	15
10	Reinforcing in the lay-up direction with self-heating for carbon fiber composites fabricated using a fused filament fabrication 3D printer. <i>Composite Structures</i> , 2021, 266, 113815.	5.8	15
11	Predicting thickness impregnation in a VaRTM resin flow simulation using machine learning. <i>Composites Part C: Open Access</i> , 2021, 5, 100158.	3.2	3
12	Testing method for evaluating mechanical properties of 3D printed CFRP with curved fibers by four-point bending test of L-shaped specimen. <i>Composites Part C: Open Access</i> , 2021, 6, 100187.	3.2	3
13	Multi-objective optimization of weight and strength of laminated composites using gap-less and overlap-less variable thickness fiber placement. <i>Composite Structures</i> , 2021, 276, 114562.	5.8	4
14	Elucidation of high permeability water among VACNFs using molecular dynamics. <i>Scientific Reports</i> , 2021, 11, 554.	3.3	0
15	Modified moving particle semi-implicit method for 3D print process simulations of short carbon fiber/polyamide-6 composites. <i>Composites Part C: Open Access</i> , 2021, 6, 100195.	3.2	2
16	Mesoscale draping simulation of carbon fiber mat for arbitrary weave architecture. <i>Journal of Composite Materials</i> , 2021, 55, 1867-1878.	2.4	1
17	Tensile property evaluations of 3D printed continuous carbon fiber reinforced thermoplastic composites. <i>Advanced Composite Materials</i> , 2020, 29, 147-162.	1.9	65
18	3D printing of optimized composites with variable fiber volume fraction and stiffness using continuous fiber. <i>Composites Science and Technology</i> , 2020, 186, 107905.	7.8	117

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19	Mechanism of folding a fiber bundle in the curved section of 3D printed carbon fiber reinforced plastics. <i>Advanced Composite Materials</i> , 2020, 29, 247-257.	1.9	29
20	Gate optimization for resin transfer molding in dual-scale porous media: Numerical simulation and experiment measurement. <i>Journal of Composite Materials</i> , 2020, 54, 2131-2145.	2.4	6
21	Sequential estimation of the generated curing heat of composite materials by data assimilation: A numerical study. <i>Heliyon</i> , 2020, 6, e05147.	3.2	1
22	3D compaction printing of a continuous carbon fiber reinforced thermoplastic. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 105985.	7.6	91
23	A review of 3D and 4D printing of natural fibre biocomposites. <i>Materials and Design</i> , 2020, 194, 108911.	7.0	146
24	Progressive damage simulation for a 3D-printed curvilinear continuous carbon fiber-reinforced thermoplastic based on continuum damage mechanics. <i>Advanced Composite Materials</i> , 2020, 29, 459-474.	1.9	13
25	Prediction of Fill Time in Compression Resin Transfer Molding of Composite Structures. <i>Journal of the Japan Society for Composite Materials</i> , 2020, 46, 92-97.	0.2	1
26	Estimation of impregnation in the thickness direction in VaRTM flow simulation. <i>The Proceedings of the Materials and Processing Conference</i> , 2020, 2020.28, 302.	0.0	0
27	Data assimilation-based state estimation of composites during molding. <i>Advanced Composite Materials</i> , 2019, 28, 225-243.	1.9	5
28	Multi-material additive manufacturing of polymers and metals using fused filament fabrication and electroforming. <i>Additive Manufacturing</i> , 2019, 29, 100812.	3.0	18
29	Evaluation of permeability applicability based on continuum mechanics law in fluid flow through graphene membrane. <i>Scientific Reports</i> , 2019, 9, 12677.	3.3	3
30	Multi-objective curing optimization of carbon fiber composite materials using data assimilation and localized heating. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 61-72.	7.6	27
31	Particle simulation of dual-scale flow in resin transfer molding for process analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 283-288.	7.6	12
32	Stiffness and permeability multi-objective optimization of carbon-fiber-reinforced plastic mesostructures using homogenization method. <i>Journal of Composite Materials</i> , 2019, 53, 1865-1880.	2.4	0
33	Bending fracture rule for 3D-printed curved continuous-fiber composite. <i>Advanced Composite Materials</i> , 2019, 28, 383-395.	1.9	29
34	Tensile-test-Property Evaluations of 3D Printed Continuous Carbon Fiber Reinforced Thermoplastic Composites. <i>Journal of the Japan Society for Composite Materials</i> , 2019, 45, 141-148.	0.2	1
35	Estimation of state and material properties during heat-curing molding of composite materials using data assimilation: A numerical study. <i>Heliyon</i> , 2018, 4, e00554.	3.2	10
36	Analysis of structure characteristics in laminated graphene oxide nanocomposites using molecular dynamics simulation. <i>Advanced Composite Materials</i> , 2018, 27, 427-438.	1.9	15

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37	Effects of slit width on water permeation through graphene membrane by molecular dynamics simulations. <i>Scientific Reports</i> , 2018, 8, 339.	3.3	14
38	Stretchable and insulating characteristics of chemically bonded graphene and carbon nanotube composite materials. <i>Journal of Materials Science</i> , 2018, 53, 1148-1156.	3.7	2
39	Effects of Set Curvature and Fiber Bundle Size on the Printed Radius of Curvature by a Continuous Carbon Fiber Composite 3D Printer. <i>Additive Manufacturing</i> , 2018, 24, 93-102.	3.0	42
40	Cutting Edge of Molding Techniques of Composite Materials. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2018, 67, 885-888.	0.2	1
41	3D printing of discontinuous and continuous fibre composites using stereolithography. <i>Additive Manufacturing</i> , 2018, 24, 521-527.	3.0	69
42	3D printing of composite sandwich structures using continuous carbon fiber and fiber tension. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 114-121.	7.6	179
43	Data Assimilation-Based State Estimation of Composites during Molding. <i>Journal of the Japan Society for Composite Materials</i> , 2018, 44, 62-71.	0.2	0
44	Delamination detection in carbon fiber reinforced plastic cross-ply laminates using crack swarm inspection: Experimental verification. <i>Composite Structures</i> , 2017, 173, 127-135.	5.8	8
45	Data assimilation for three-dimensional flow monitoring in non-flat composite structures during vacuum-assisted resin transfer molding: A numerical study. <i>Composite Structures</i> , 2017, 172, 155-165.	5.8	14
46	Crack swarm inspection for estimation of crack location in carbon fiber reinforced plastics: A numerical study. <i>Composite Structures</i> , 2017, 160, 36-42.	5.8	7
47	Visualization of metal tube damage using double helical microstrip lines and self-sensing time-domain reflectometry method. <i>NDT and E International</i> , 2017, 85, 20-26.	3.7	0
48	Multi-objective optimization for resin transfer molding process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 1-9.	7.6	26
49	Numerical simulation of molding-defect formation during resin transfer molding. <i>Advanced Composite Materials</i> , 2016, 25, 17-32.	1.9	9
50	Process design for heat fusion of thermoplastic composites using molecular dynamics and a response surface method. <i>Advanced Composite Materials</i> , 2016, 25, 33-49.	1.9	10
51	Three-dimensional printing of continuous-fiber composites by in-nozzle impregnation. <i>Scientific Reports</i> , 2016, 6, 23058.	3.3	749
52	Simulation of water impregnation through vertically aligned CNT forests using a molecular dynamics method. <i>Scientific Reports</i> , 2016, 6, 32262.	3.3	10
53	Process Design for Heat Fusion of Thermoplastic Composites Using Molecular Dynamics and a Response Surface Method. <i>Journal of the Japan Society for Composite Materials</i> , 2016, 42, 67-75.	0.2	1
54	Analysis of Structure Characteristics in Laminated Graphene Oxide Nanocomposites Using Molecular Dynamics Simulation. <i>Journal of the Japan Society for Composite Materials</i> , 2016, 42, 76-81.	0.2	0

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55	Structural optimization for CFRP cryogenic tank based on energy release rate. <i>Composite Structures</i> , 2016, 152, 883-890.	5.8	13
56	Data assimilation through integration of stochastic resin flow simulation with visual observation during vacuum-assisted resin transfer molding: A numerical study. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 43-52.	7.6	20
57	Self-sensing time-domain reflectometry for detection of the bearing failure of a CFRP laminate fastener hole: effect of peeling of the insulator. <i>Advanced Composite Materials</i> , 2016, 25, 457-469.	1.9	4
58	Mechanical interlocking by imprinting of undercut micropatterns for improving adhesive strength of polypropylene. <i>International Journal of Adhesion and Adhesives</i> , 2016, 68, 124-132.	2.9	27
59	3D Printing of Continuous Carbon Fibre Reinforced Thermo-Plastic (CFRTP) Tensile Test Specimens. <i>Open Journal of Composite Materials</i> , 2016, 06, 18-27.	0.8	370
60	Fiber Line Optimization in Single Ply for 3D Printed Composites. <i>Open Journal of Composite Materials</i> , 2016, 06, 121-131.	0.8	54
61	Manufacturing the CFRTP by using FDM 3D printer and evaluation. <i>The Proceedings of the Materials and Processing Conference</i> , 2016, 2016.24, 107.	0.0	0
62	Numerical Study on Damage Behavior of CFRP Laminate Subjected to Simulated Lightning Current. <i>Journal of the Japan Society for Composite Materials</i> , 2015, 41, 149-158.	0.2	0
63	Numerical Simulation of Molding-Defect Formation during Resin Transfer Molding. <i>Journal of the Japan Society for Composite Materials</i> , 2015, 41, 176-184.	0.2	3
64	Intelligent tires for identifying coefficient of friction of tire/road contact surfaces using three-axis accelerometer. <i>Smart Materials and Structures</i> , 2015, 24, 025010.	3.5	33
65	Three-dimensional reconstruction of resin flow using capacitance sensor data assimilation during a liquid composite molding process: A numerical study. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 1-10.	7.6	20
66	Analytical prediction of void formation in geometrically anisotropic woven fabrics during resin transfer molding. <i>Composites Science and Technology</i> , 2015, 107, 154-161.	7.8	31
67	Impact damage detection of a carbon-fibre-reinforced-polymer plate employing self-sensing time-domain reflectometry. <i>Composite Structures</i> , 2015, 130, 174-179.	5.8	33
68	Prediction of the macroscopic fracture toughness of a composite/adhesive interface with periodic surface microstructures. <i>International Journal of Adhesion and Adhesives</i> , 2015, 60, 16-22.	2.9	11
69	Highly Stretchable, Global, and Distributed Local Strain Sensing Line Using GaInSn Electrodes for Wearable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 3806-3813.	14.9	131
70	Uncertainty Visualization of Estimated Damage Using Kriging Model: Application to Time-Domain Reflectometry Sensing. <i>Journal of Nondestructive Evaluation</i> , 2015, 34, 1.	2.4	1
71	Lightning strike damage detection at a fastener using self-sensing TDR of composite plate. <i>Composite Structures</i> , 2015, 132, 1105-1112.	5.8	21
72	Intelligent tires for identifying coefficient of friction of tire/road contact surfaces. , 2015, , .		0

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73	Effects of mixed-mode ratio and step-shaped micro pattern surface on crack-propagation resistance of carbon-fiber-reinforced plastic/adhesive interface. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 139-149.	7.6	11
74	OS13-2 Modeling of Void Formation in an Arbitrary Resin Impregnation Angle of VaRTM(Meso-scale) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 198.	0.0	0
75	Self-sensing time domain reflectometry method for damage monitoring of a CFRP plate using a narrow-strip transmission line. <i>Composites Part B: Engineering</i> , 2014, 58, 59-65.	12.0	16
76	Void formation in geometry- anisotropic woven fabrics in resin transfer molding. <i>Advanced Composite Materials</i> , 2014, 23, 99-114.	1.9	24
77	Mode II interfacial fracture toughness of composite/adhesive interfaces obtained by in-mold surface modification. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 191-198.	2.9	15
78	Cost-effective open microwave heating of polymer resin using interdigital electrode array film and dispersed carbon nanotubes. <i>Composites Science and Technology</i> , 2014, 92, 9-15.	7.8	8
79	Crack visualization of metallic structures using time-domain reflectometry with two-dimensional microstrip lines. <i>NDT and E International</i> , 2014, 66, 34-42.	3.7	4
80	Void Formation in Geometry-Anisotropic Woven Fabrics in Resin Transfer Molding. <i>Journal of the Japan Society for Composite Materials</i> , 2014, 40, 62-70.	0.2	1
81	<i>In-Situ</i> Void Content Measurements during Resin Transfer Molding. <i>Journal of the Japan Society for Composite Materials</i> , 2014, 40, 25-34.	0.2	3
82	Self-Sensing Curved Micro-Strip Line Method for Damage Detection of CFRP Composites. <i>Open Journal of Composite Materials</i> , 2014, 04, 131-139.	0.8	8
83	Crack growth analysis of a composite/adhesive interface toughened by in-mold surface preparation. <i>International Journal of Adhesion and Adhesives</i> , 2013, 42, 36-43.	2.9	19
84	Flow control by progressive forecasting using numerical simulation during vacuum-assisted resin transfer molding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 45, 79-87.	7.6	32
85	In situ void content measurements during resin transfer molding. <i>Advanced Composite Materials</i> , 2013, 22, 239-254.	1.9	19
86	Indentation-Damage Visualization in CFRP by Resistive Heating: Analytical Verification of The Inspection of Aircraft Using Its Lightning Protection Systems. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2012, 6, 213-226.	0.5	5
87	Strain Monitoring and Applied Load Estimation for the Development of Intelligent Tires Using a Single Wireless CCD Camera. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2012, 6, 935-949.	0.5	19
88	Impact-damage visualization in CFRP by resistive heating: Development of a new detection method for indentations caused by impact loads. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 53-64.	7.6	40
89	Cross-sectional monitoring of resin impregnation using an area-sensor array in an RTM process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 695-702.	7.6	15
90	Full-field monitoring of resin flow using an area-sensor array in a VaRTM process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 550-559.	7.6	49

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91	Control of resin flow/temperature using multifunctional interdigital electrode array film during a VaRTM process. Composites Part A: Applied Science and Manufacturing, 2011, 42, 782-793.	7.6	22
92	Damage Detection in CFRP without Data from Intact Structures Using Statistical Analysis of Resistance-Temperature Characteristics. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2011, 77, 181-189.	0.2	4
93	New Surrogate Model to Predict Fracture of Laminated CFRP for Structural Optimization. Journal of Computational Science and Technology, 2011, 5, 26-37.	0.4	4
94	Impact Damage Detection in CFRP Using Statistical Analysis of Resistance-Temperature Characteristics. Journal of Solid Mechanics and Materials Engineering, 2011, 5, 33-43.	0.5	13
95	Residual strain relief effect on the electrical resistance measurement for delamination monitoring of carbon/PEEK laminates. Science and Engineering of Composite Materials, 2011, 18, .	1.4	2
96	OS08F028 Impact damage visualization by resistive heating using lightning protection system for CFRP aircraft. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08F028-_OS08F028-.	0.0	1
97	OS08-4-2 Electrical Resistance Change of CFRP Caused by Compression Loading. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-4-2-.	0.0	0
98	OS08-5-1 A basic study on the way of welding of CFRTP joint using Joule heat of CFRTP. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-5-1-.	0.0	0
99	OS08-4-5 Electrical Resistance Change Method for Damage Accompanied by Dent Monitoring of Thick CFRP plate. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-4-5-.	0.0	0
100	OS08-2-5 Applied Load Estimation from Surface Strain for Intelligent Tire. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-2-5-.	0.0	0
101	OS16-2-2 Analysis of Void Generation in an Anisotropic Fiber during RTM Process. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS16-2-2-.	0.0	0
102	OS08-5-3 Improvement of interfacial properties of the CFRP/adhesive interface by in-mold surface preparation using Nanoimprint lithography. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-5-3-.	0.0	0
103	OS08-3-3 Impact damage visualization by resistive heating using lightning protection system for CFRP aircraft. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-3-3-.	0.0	0
104	OS08-2-6 Flow monitoring of VaRTM using electrical measurement and numerical simulation. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-2-6-.	0.0	0
105	OS08-5-4 Low-cycle fatigue damage evaluation of type 316 austenitic stainless steel by acoustic emission method. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-5-4-.	0.0	0
106	OS08-4-4 A temperature change effect on damage detection of CFRP laminates by electrical resistance change method. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS08-4-4-.	0.0	0
107	Electrical Resistance Change Measurement with Elevated Temperature due to Joule Heating for the Detection of Delamination in Graphite/Epoxy Composites. Journal of Environment and Engineering, 2010, 5, 15-26.	0.2	4
108	Mechanism of Electrical Resistance Change of a Thin CFRP Beam after Delamination Cracking. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1-11.	0.5	27

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109	Optical 3D Deformation Measurement Utilizing Non-planar Surface for the Development of an "Intelligent Tire", Journal of Solid Mechanics and Materials Engineering, 2010, 4, 520-532.	0.5	19
110	Durability Estimates of Copper Plated Electrodes for Self-sensing CFRP Composites. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 610-620.	0.5	30
111	A Fundamental Study on Static Strength Improvement of CFRP Bolted Joints by Increasing Friction Force. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 711-719.	0.5	8
112	Electrical Resistance Change of CFRP under a Compression Load. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 864-874.	0.5	16
113	Surface Modification by Nanoimprint Lithography for Improvement of the Joint Strength of Composites. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 963-973.	0.5	7
114	Analysis of Applied Load Estimation Using Strain for Intelligent Tires. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1496-1510.	0.5	22
115	Simultaneous Measurement of Multiple Electrical Resistance Changes with Strain of CFRP. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 557-567.	0.5	5
116	Fiber-waviness Model in Filament Winding Process. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 63-74.	0.5	9
117	Electrical Resistance Change of Thick CFRP Laminate for Self-Sensing. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 658-668.	0.5	14
118	Effect of Dent on Electrical Resistance Change Method for Delamination Monitoring. , 2010, , .		0
119	707 Resin flow monitoring in the thickness direction in a VaRTM process. The Proceedings of the Materials and Mechanics Conference, 2010, 2010, 424-426.	0.0	0
120	PS45 Evaluation of the interfacial properties of adhesively bonded composites with micro concavity and convexity. The Proceedings of the Materials and Mechanics Conference, 2010, 2010, 146-147.	0.0	0
121	Self-deployable Space Structure using Partially Flexible CFRP with SMA Wires. Journal of Intelligent Material Systems and Structures, 2009, 20, 1415-1424.	2.5	18
122	Antenna/sensor multifunctional composites for the wireless detection of damage. Composites Science and Technology, 2009, 69, 2507-2513.	7.8	52
123	Multipoint cure monitoring of CFRP laminates using a flexible matrix sensor. Composites Science and Technology, 2009, 69, 378-384.	7.8	25
124	Piezoresistivity of unidirectional carbon/epoxy composites for multiaxial loading. Composites Science and Technology, 2009, 69, 1841-1846.	7.8	79
125	Concurrent Monitoring of In-plane Strain and Out-of-plane Displacement of Tire Using Digital Image Correlation Method. Journal of Solid Mechanics and Materials Engineering, 2009, 3, 1148-1159.	0.5	15
126	Rubber-Based Capacitive Strain Sensor Fabricated Using Photolithography for Intelligent Tires. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 235-242.	0.2	1

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127	Intelligent tires for improved tire safety based on strain measurements. , 2009, , .		4
128	PS17 Strength evaluation of the joint modified by using Nanoimprint lithography in adhesion area. The Proceedings of the Materials and Mechanics Conference, 2009, 2009, 466-467.	0.0	0
129	Rubber-based strain sensor fabricated using photolithography for intelligent tires. Sensors and Actuators A: Physical, 2008, 148, 1-9.	4.1	74
130	Wireless Monitoring of Automobile Tires for Intelligent Tires. Sensors, 2008, 8, 8123-8138.	3.8	97
131	Improving performance of CFRP/aluminum single lap joints using bolted/co-cured hybrid method. Composites Part A: Applied Science and Manufacturing, 2008, 39, 154-163.	7.6	132
132	Reinforcing an aluminum/GFRP co-cured single lap joint using inter-adherend fiber. Composites Part A: Applied Science and Manufacturing, 2008, 39, 786-795.	7.6	30
133	Time-synchronized wireless strain and damage measurements at multiple locations in CFRP laminate using oscillating frequency changes and spectral analysis. Smart Materials and Structures, 2008, 17, 055001.	3.5	14
134	Multipoint Cure Monitoring of CFRP Laminates Using Flexible Matrix Sensor. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 1104-1110.	0.2	1
135	Intelligent Tires Based on Measurement of Tire Deformation. Journal of Solid Mechanics and Materials Engineering, 2008, 2, 269-280.	0.5	30
136	Delamination Detection for CFRP Structure Using Electrical Resistance Change Due to Joule Heating. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 1565-1572.	0.2	2
137	Simultaneous Measurement of Multiple Electrical Resistance Changes with Strain of CFRP. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 1573-1579.	0.2	2
138	Intelligent tires for improved tire safety using wireless strain measurement. Proceedings of SPIE, 2008, , .	0.8	1
139	OS17-2-4 Wireless flexible capacitive sensor based on ultra-flexible epoxy resin for strain measurement of automobile tires. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, OS17-2-4-- OS17-2-4-.	0.0	0
140	Stacking-sequence optimization using fractal branch-and-bound method for unsymmetrical laminates. Composite Structures, 2007, 78, 537-550.	5.8	43
141	Wireless flexible capacitive sensor based on ultra-flexible epoxy resin for strain measurement of automobile tires. Sensors and Actuators A: Physical, 2007, 140, 32-42.	4.1	136
142	OS17-3-3 Investigation of measurement method for damage monitoring of quasi-isotropic graphite/epoxy laminates using ERCM. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, OS17-3-3-- OS17-3-3-.	0.0	0
143	OS17-3-4 Detection of damage in CFRP laminates using the eddy current method. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, OS17-3-4-- OS17-3-4-.	0.0	0
144	OS17-2-3 Foldable CFRP structure using Partially-flexible composites for Morphing wing. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, OS17-2-3-- OS17-2-3-.	0.0	0

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145	Time-synchronized Wireless Strain and Damage Measurements at Multiple Locations in CFRP Laminate Using Oscillating Frequency Changes and Spectral Analysis. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2006, 72, 1904-1911.	0.2	2
146	Passive wireless strain monitoring of actual tire using capacitanceâ€™resistance change and multiple spectral features. Sensors and Actuators A: Physical, 2006, 126, 277-286.	4.1	52
147	Wireless detection of internal delamination cracks in CFRP laminates using oscillating frequency changes. Composites Science and Technology, 2006, 66, 407-416.	7.8	45
148	Stacking Sequence Optimizations using Fractal Branch and Bound Method for Unsymmetrical Laminates. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2005, 71, 1348-1355.	0.2	1
149	Passive Wireless Strain Monitoring of Actual Tire using Tuning Circuit and Spectral Features. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2005, 71, 1587-1594.	0.2	0
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