

# Yoshiyasu Hirano

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,273  
citations

257450

24  
h-index

233421

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2015  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printing of Continuous Fiber Reinforced Polymer Composites: Development, Application, and Prospective. , 2022, 1, 100016.		22
2	Compressive strength degradation of the curved sections of 3D-printed continuous carbon fiber composite. Composites Part A: Applied Science and Manufacturing, 2021, 142, 106244.	7.6	10
3	Reinforcing in the lay-up direction with self-heating for carbon fiber composites fabricated using a fused filament fabrication 3D printer. Composite Structures, 2021, 266, 113815.	5.8	15
4	Testing method for evaluating mechanical properties of 3D printed CFRP with curved fibers by four-point bending test of L-shaped specimen. Composites Part C: Open Access, 2021, 6, 100187.	3.2	3
5	Modified moving particle semi-implicit method for 3D print process simulations of short carbon fiber/polyamide-6 composites. Composites Part C: Open Access, 2021, 6, 100195.	3.2	2
6	Tensile property evaluations of 3D printed continuous carbon fiber reinforced thermoplastic composites. Advanced Composite Materials, 2020, 29, 147-162.	1.9	65
7	3D printing of optimized composites with variable fiber volume fraction and stiffness using continuous fiber. Composites Science and Technology, 2020, 186, 107905.	7.8	117
8	Mechanism of folding a fiber bundle in the curved section of 3D printed carbon fiber reinforced plastics. Advanced Composite Materials, 2020, 29, 247-257.	1.9	29
9	Experimental and analytical validation of mode II fracture toughness tests for a type of double-lap joint. Composite Structures, 2020, 234, 111757.	5.8	8
10	3D compaction printing of a continuous carbon fiber reinforced thermoplastic. Composites Part A: Applied Science and Manufacturing, 2020, 137, 105985.	7.6	91
11	Effect of Plate Thickness and Paint on Lightning Strike Damage of Aluminum Alloy Sheet. Lecture Notes in Mechanical Engineering, 2020, , 966-975.	0.4	0
12	Damage behavior of CFRP subjected to simulated lightning current under air, reduced-pressure air, and N <sub>2</sub> environments. Composite Structures, 2019, 230, 111519.	5.8	14
13	In-situ observation of microscopic damage in adhesively bonded CFRP joints under mode I and mode II loading. Composite Structures, 2019, 227, 111330.	5.8	13
14	Polyaniline-based all-polymeric adhesive layer: An effective lightning strike protection technology for high residual mechanical strength of CFRPs. Composites Science and Technology, 2019, 172, 49-57.	7.8	42
15	Tensile-test-Property Evaluations of 3D Printed Continuous Carbon Fiber Reinforced Thermoplastic Composites. Journal of the Japan Society for Composite Materials, 2019, 45, 141-148.	0.2	1
16	Lightning strike damage behavior of carbon fiber reinforced epoxy, bismaleimide, and polyetheretherketone composites. Composites Science and Technology, 2018, 161, 107-114.	7.8	61
17	Effects of Set Curvature and Fiber Bundle Size on the Printed Radius of Curvature by a Continuous Carbon Fiber Composite 3D Printer. Additive Manufacturing, 2018, 24, 93-102.	3.0	42
18	Cutting Edge of Molding Techniques of Composite Materials. Zairyo/Journal of the Society of Materials Science, Japan, 2018, 67, 885-888.	0.2	1

#	ARTICLE	IF	CITATIONS
19	3D printing of discontinuous and continuous fibre composites using stereolithography. Additive Manufacturing, 2018, 24, 521-527.	3.0	69
20	Effect of through-thickness electrical conductivity of CFRPs on lightning strike damages. Composites Part A: Applied Science and Manufacturing, 2018, 114, 429-438.	7.6	60
21	Experimental method for mode I fracture toughness of composite laminates using wedge loaded double cantilever beam specimens. Composites Part A: Applied Science and Manufacturing, 2018, 112, 119-125.	7.6	16
22	3D printing of composite sandwich structures using continuous carbon fiber and fiber tension. Composites Part A: Applied Science and Manufacturing, 2018, 113, 114-121.	7.6	179
23	Delamination analysis of CFRP laminates exposed to lightning strike considering cooling process. Composite Structures, 2018, 196, 55-62.	5.8	34
24	Residual mechanical properties of carbon fibre reinforced thermoplastics with thin-ply prepreg after simulated lightning strike. Composites Part A: Applied Science and Manufacturing, 2017, 101, 185-194.	7.6	22
25	Lightning damage suppression in a carbon fiber-reinforced polymer with a polyaniline-based conductive thermoset matrix. Composites Science and Technology, 2016, 127, 1-7.	7.8	102
26	Development of variable camber wing with morphing leading and trailing sections using corrugated structures. Journal of Intelligent Material Systems and Structures, 2016, 27, 2827-2836.	2.5	60
27	Three-dimensional printing of continuous-fiber composites by in-nozzle impregnation. Scientific Reports, 2016, 6, 23058.	3.3	749
28	Through-thickness electric conductivity of toughened carbon-fibre-reinforced polymer laminates with resin-rich layers. Composites Science and Technology, 2016, 122, 67-72.	7.8	57
29	Effectiveness of Lightning Damage Protection of CFRP with Polyaniline-Based Conductive Thermoset Matrix. Journal of the Japan Society for Aeronautical and Space Sciences, 2016, 64, 223-228.	0.1	1
30	3D Printing of Continuous Carbon Fibre Reinforced Thermo-Plastic (CFRTP) Tensile Test Specimens. Open Journal of Composite Materials, 2016, 06, 18-27.	0.8	370
31	Fiber Line Optimization in Single Ply for 3D Printed Composites. Open Journal of Composite Materials, 2016, 06, 121-131.	0.8	54
32	Development and characterization of CFRP using a polyaniline-based conductive thermoset matrix. Composites Science and Technology, 2015, 117, 277-281.	7.8	70
33	Visualization of lightning impulse current discharge on CFRP laminate. , 2014, , .		13
34	Development of Variable Camber Morphing Airfoil Using Corrugated Structure. Journal of Aircraft, 2014, 51, 1023-1029.	2.4	93
35	Distributed strain and load monitoring of 6 m composite wing structure by FBG arrays and long-length FBGs. Proceedings of SPIE, 2012, , .	0.8	5
36	Instantaneous mechanical fastening of quasi-isotropic CFRP laminates by a self-piercing rivet. Composite Structures, 2012, 94, 3388-3393.	5.8	73

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37	Residual strain relief effect on the electrical resistance measurement for delamination monitoring of carbon/PEEK laminates. <i>Science and Engineering of Composite Materials</i> , 2011, 18, .	1.4	2
38	Mechanism of Electrical Resistance Change of a Thin CFRP Beam after Delamination Cracking. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 1-11.	0.5	27
39	Electrical Resistance Change of Thick CFRP Laminate for Self-Sensing. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 658-668.	0.5	14
40	Effect of Dent on Self-Sensing Method of CFRP. <i>Advanced Materials Research</i> , 2010, 123-125, 963-966.	0.3	1
41	Coupled thermal-electrical analysis for carbon fiber/epoxy composites exposed to simulated lightning current. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 973-981.	7.6	263
42	Artificial lightning testing on graphite/epoxy composite laminate. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1461-1470.	7.6	241
43	Effect of Dent on Electrical Resistance Change Method for Delamination Monitoring. , 2010, , .		0
44	Piezoresistivity of unidirectional carbon/epoxy composites for multiaxial loading. <i>Composites Science and Technology</i> , 2009, 69, 1841-1846.	7.8	79
45	Monitoring of a CFRP-Stiffened Panel Manufactured by VaRTM Using Fiber-Optic Sensors. <i>Advanced Composite Materials</i> , 2008, 17, 125-137.	1.9	18
46	High-speed imaging on static tensile test for unidirectional CFRP. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
47	Damage Identification of Woven Graphite/Epoxy Composite Beams using the Electrical Resistance Change Method. <i>Journal of Intelligent Material Systems and Structures</i> , 2007, 18, 253-263.	2.5	22
48	Multi-Objective Stacking Sequence Optimization of Composite Wing Structure Using FBBM. , 2007, , .		0
49	Stacking-Sequence Optimization of Composite Delta Wing to Improve Flutter Limit Using Fractal Branch and Bound Method. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2005, 48, 65-72.	0.4	12
50	Stacking sequence optimizations for composite laminates using fractal branch and bound method: Application for supersonic panel flutter problem with buckling load condition. <i>Advanced Composite Materials</i> , 2004, 13, 89-106.	1.9	23
51	Stacking Sequence Optimizations of Composites to Improve Panel Flutter at Supersonic Flow Using Fractal Branch and Bound Method.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2003, 69, 239-244.	0.2	7