

Yoshiyasu Hirano

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,273
citations

257450

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233421

45
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51
all docs

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docs citations

51
times ranked

2015
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Three-dimensional printing of continuous-fiber composites by in-nozzle impregnation. Scientific Reports, 2016, 6, 23058. | 3.3 | 749 |
| 2 | 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 |
| 3 | Coupled thermal-electrical analysis for carbon fiber/epoxy composites exposed to simulated lightning current. Composites Part A: Applied Science and Manufacturing, 2010, 41, 973-981. | 7.6 | 263 |
| 4 | Artificial lightning testing on graphite/epoxy composite laminate. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1461-1470. | 7.6 | 241 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Development of Variable Camber Morphing Airfoil Using Corrugated Structure. Journal of Aircraft, 2014, 51, 1023-1029. | 2.4 | 93 |
| 9 | 3D compaction printing of a continuous carbon fiber reinforced thermoplastic. Composites Part A: Applied Science and Manufacturing, 2020, 137, 105985. | 7.6 | 91 |
| 10 | Piezoresistivity of unidirectional carbon/epoxy composites for multiaxial loading. Composites Science and Technology, 2009, 69, 1841-1846. | 7.8 | 79 |
| 11 | Instantaneous mechanical fastening of quasi-isotropic CFRP laminates by a self-piercing rivet. Composite Structures, 2012, 94, 3388-3393. | 5.8 | 73 |
| 12 | Development and characterization of CFRP using a polyaniline-based conductive thermoset matrix. Composites Science and Technology, 2015, 117, 277-281. | 7.8 | 70 |
| 13 | 3D printing of discontinuous and continuous fibre composites using stereolithography. Additive Manufacturing, 2018, 24, 521-527. | 3.0 | 69 |
| 14 | Tensile property evaluations of 3D printed continuous carbon fiber reinforced thermoplastic composites. Advanced Composite Materials, 2020, 29, 147-162. | 1.9 | 65 |
| 15 | Lightning strike damage behavior of carbon fiber reinforced epoxy, bismaleimide, and polyetheretherketone composites. Composites Science and Technology, 2018, 161, 107-114. | 7.8 | 61 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Fiber Line Optimization in Single Ply for 3D Printed Composites. Open Journal of Composite Materials, 2016, 06, 121-131. | 0.8 | 54 |
| 20 | 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 |
| 21 | 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 |
| 22 | Delamination analysis of CFRP laminates exposed to lightning strike considering cooling process. Composite Structures, 2018, 196, 55-62. | 5.8 | 34 |
| 23 | 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 |
| 24 | 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 |
| 25 | Stacking sequence optimizations for composite laminates using fractal branch and bound method: Application for supersonic panel flutter problem with buckling load condition. Advanced Composite Materials, 2004, 13, 89-106. | 1.9 | 23 |
| 26 | Damage Identification of Woven Graphite/Epoxy Composite Beams using the Electrical Resistance Change Method. Journal of Intelligent Material Systems and Structures, 2007, 18, 253-263. | 2.5 | 22 |
| 27 | 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 |
| 28 | 3D Printing of Continuous Fiber Reinforced Polymer Composites: Development, Application, and Prospective. , 2022, 1, 100016. | | 22 |
| 29 | Monitoring of a CFRP-Stiffened Panel Manufactured by VaRTM Using Fiber-Optic Sensors. Advanced Composite Materials, 2008, 17, 125-137. | 1.9 | 18 |
| 30 | 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 |
| 31 | 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 |
| 32 | Electrical Resistance Change of Thick CFRP Laminate for Self-Sensing. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 658-668. | 0.5 | 14 |
| 33 | Damage behavior of CFRP subjected to simulated lightning current under air, reduced-pressure air, and N ₂ environments. Composite Structures, 2019, 230, 111519. | 5.8 | 14 |
| 34 | Visualization of lightning impulse current discharge on CFRP laminate. , 2014, , . | | 13 |
| 35 | 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 |
| 36 | Stacking-Sequence Optimization of Composite Delta Wing to Improve Flutter Limit Using Fractal Branch and Bound Method. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2005, 48, 65-72. | 0.4 | 12 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Stacking Sequence Optimizations of Composites to Improve Panel Flutter at Supersonic Flow Using Fractal Branch and Bound Method.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2003, 69, 239-244. | 0.2 | 7 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | High-speed imaging on static tensile test for unidirectional CFRP. Proceedings of SPIE, 2008, , . | 0.8 | 1 |
| 45 | Effect of Dent on Self-Sensing Method of CFRP. Advanced Materials Research, 2010, 123-125, 963-966. | 0.3 | 1 |
| 46 | Cutting Edge of Molding Techniques of Composite Materials. Zairyo/Journal of the Society of Materials Science, Japan, 2018, 67, 885-888. | 0.2 | 1 |
| 47 | 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 |
| 48 | 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 |
| 49 | Multi-Objective Stacking Sequence Optimization of Composite Wing Structure Using FBBM. , 2007, , . | | 0 |
| 50 | Effect of Dent on Electrical Resistance Change Method for Delamination Monitoring. , 2010, , . | | 0 |
| 51 | 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 |