Ismet Baran

List of Publications by Year
in descending order

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61 papers	1,421 citations	304743 22 h-index	345221 36 g-index
61 all docs	61 docs citations	61 times ranked	763 citing authors

#	Article	IF	Citations
1	Experimental Investigation of the Interlaminar Failure of Glass/EliumÂ® Thermoplastic Composites Manufactured With Different Processing Temperatures. Applied Composite Materials, 2022, 29, 1061-1082.	2.5	4
2	The Springer Model for Lifetime Prediction of Wind Turbine Blade Leading Edge Protection Systems: A Review and Sensitivity Study. Materials, 2022, 15, 1170.	2.9	15
3	Thermoset/Thermoplastic Interphases: The Role of Initiator Concentration in Polymer Interdiffusion. Polymers, 2022, 14, 1493.	4.5	2
4	On the temperature evolution during continuous laser-assisted tape winding of multiple C/PEEK layers: The effect of roller deformation. International Journal of Material Forming, 2021, 14, 203-221.	2.0	10
5	A fully coupled local and global optical-thermal model for continuous adjacent laser-assisted tape winding process of type-IV pressure vessels. Journal of Composite Materials, 2021, 55, 1073-1090.	2.4	3
6	Material characterization of a pultrusion specific and highly reactive polyurethane resin system: Elastic modulus, rheology, and reaction kinetics. Composites Part B: Engineering, 2021, 207, 108543.	12.0	31
7	Co-Bonded Hybrid Thermoplastic-Thermoset Composite Interphase: Process-Microstructure-Property Correlation. Materials, 2021, 14, 291.	2.9	11
8	Numerical and experimental analysis of resin-flow, heat-transfer, and cure in a resin-injection pultrusion process. Composites Part A: Applied Science and Manufacturing, 2021, 143, 106231.	7.6	22
9	The influence of inter-laminar thermal contact resistance on the cooling of material during laser assisted fiber placement. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106367.	7.6	11
10	Steady-state modelling and analysis of process-induced stress and deformation in thermoset pultrusion processes. Composites Part B: Engineering, 2021, 216, 108812.	12.0	9
11	Mesoscale Process Modeling of a Thick Pultruded Composite with Variability in Fiber Volume Fraction. Materials, 2021, 14, 3763.	2.9	14
12	Optical characterization of fiber-reinforced thermoplastic tapes for laser-based composite manufacturing. Composites Part A: Applied Science and Manufacturing, 2021, 146, 106402.	7.6	8
13	Residual bending behaviour of sandwich composites after impact. Journal of Sandwich Structures and Materials, 2020, 22, 402-422.	3.5	14
14	Temperature variation during continuous laser-assisted adjacent hoop winding of type-IV pressure vessels: An experimental analysis. Journal of Composite Materials, 2020, 54, 1717-1739.	2.4	12
15	Experimental and computational analysis of the polymerization overheating in thick glass/EliumÂ® acrylic thermoplastic resin composites. Composites Part B: Engineering, 2020, 202, 108430.	12.0	29
16	Characterization of interdiffusion mechanisms during co-bonding of unsaturated polyester resin to thermoplastics with different thermodynamic affinities. Polymer, 2020, 209, 122991.	3.8	11
17	Non-uniform crystallinity and temperature distribution during adjacent laser-assisted tape winding process of carbon/PA12 pipes. International Journal of Advanced Manufacturing Technology, 2020, 111, 3063-3082.	3.0	6
18	New process optimization framework for laser assisted tape winding of composite pressure vessels: Controlling the unsteady bonding temperature. Materials and Design, 2020, 196, 109130.	7.0	7

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19	3D Numerical Modeling of Laser Assisted Tape Winding Process of Composite Pressure Vessels and Pipesâ€"Effect of Winding Angle, Mandrel Curvature and Tape Width. Materials, 2020, 13, 2449.	2.9	11
20	Numerical modeling of the mechanics of pultrusion. , 2020, , 173-195.		8
21	Optimization of Laser-Assisted Tape Winding/Placement Process using Inverse Optical Model. Procedia Manufacturing, 2020, 47, 182-189.	1.9	3
22	A new global kinematic-optical-thermal process model for laser-assisted tape winding with an application to helical-wound pressure vessel. Materials and Design, 2020, 193, 108854.	7.0	13
23	Optimization of the laser-assisted tape winding process using an inverse kinematic-optical-thermal model. Advanced Manufacturing: Polymer and Composites Science, 2020, 6, 226-244.	0.4	0
24	Investigation of transverse residual stresses in a thick pultruded composite using digital image correlation with hole drilling. Composite Structures, 2019, 223, 110954.	5.8	25
25	Temperature analysis for the laser-assisted tape winding process of multi-layered composite pipes. Procedia CIRP, 2019, 85, 171-176.	1.9	13
26	X-ray computed tomography characterization of manufacturing induced defects in a glass/polyester pultruded profile. Composite Structures, 2018, 195, 74-82.	5.8	43
27	New analytical and numerical optical model for the laser assisted tape winding process. Composites Part A: Applied Science and Manufacturing, 2018, 107, 647-656.	7.6	23
28	Non-hoop winding effect on bonding temperature of laser assisted tape winding process. AIP Conference Proceedings, 2018, , .	0.4	4
29	Multiphysics modelling of manufacturing processes: A review. Advances in Mechanical Engineering, 2018, 10, 168781401876618.	1.6	25
30	Assessment of failure and cohesive zone length in co-consolidated hybrid C/PEKK butt joint. Engineering Structures, 2018, 168, 420-430.	5.3	11
31	Analysis of residual transverse stresses in a thick UD glass/polyester pultruded profile using hole drilling with strain gage and digital image correlation. AIP Conference Proceedings, 2018, , .	0.4	4
32	A Review on the Mechanical Modeling of Composite Manufacturing Processes. Archives of Computational Methods in Engineering, 2017, 24, 365-395.	10.2	206
33	Numerical modeling of laser assisted tape winding process. AIP Conference Proceedings, 2017, , .	0.4	4
34	Correlation of Process Parameters with Mechanical Properties of Laser Sintered PA12 Parts. Advances in Materials Science and Engineering, 2017, 2017, 1-11.	1.8	51
35	Analysis of the local fiber volume fraction variation in pultrusion process. AIP Conference Proceedings, 2017, , .	0.4	3
36	Analysis of pultrusion process for thick glass/polyester composites: transverse shear stress formations. Advanced Manufacturing: Polymer and Composites Science, 2016, 2, 124-132.	0.4	4

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37	Probabilistic analysis of a thermosetting pultrusion process. Science and Engineering of Composite Materials, 2016, 23, 67-76.	1.4	12
38	Computational Analysis of the Interaction between Impregnation, Forming and Curing in Pultrusion. Key Engineering Materials, 2015, 651-653, 889-894.	0.4	5
39	Constrained Efficient Global Optimization for Pultrusion Process. Materials and Manufacturing Processes, 2015, 30, 538-551.	4.7	29
40	Investigation of the Residual Stress State in an Epoxy Based Specimen. Key Engineering Materials, 2015, 651-653, 375-380.	0.4	0
41	Mechanical Modelling of Pultrusion Process: 2D and 3D Numerical Approaches. Applied Composite Materials, 2015, 22, 99-118.	2.5	25
42	Pultrusion of a vertical axis wind turbine blade part-I: 3D thermo-chemical process simulation. International Journal of Material Forming, 2015, 8, 379-389.	2.0	21
43	Pultrusion of a vertical axis wind turbine blade part-II: combining the manufacturing process simulation with a subsequent loading scenario. International Journal of Material Forming, 2015, 8, 367-378.	2.0	15
44	Investigation of process induced warpage for pultrusion of a rectangular hollow profile. Composites Part B: Engineering, 2015, 68, 365-374.	12.0	53
45	The Effect of Mandrel Configuration on the Warpage in Pultrusion of Rectangular Hollow Profiles. Key Engineering Materials, 2014, 611-612, 250-256.	0.4	1
46	The Effect of Product Size on the Pulling Force in Pultrusion. Key Engineering Materials, 2014, 611-612, 1763-1770.	0.4	4
47	Investigation of the Spring-In of a Pultruded L-Shaped Profile for Various Processing Conditions and Thicknesses. Key Engineering Materials, 2014, 611-612, 273-279.	0.4	2
48	DeepWind-from Idea to 5 MW Concept. Energy Procedia, 2014, 53, 23-33.	1.8	38
49	Modelling the pultrusion process of an industrial L-shaped composite profile. Composite Structures, 2014, 118, 37-48.	5.8	62
50	Material characterization of a polyester resin system for the pultrusion process. Composites Part B: Engineering, 2014, 64, 194-201.	12.0	52
51	Optimum design of pultrusion process via evolutionary multi-objective optimization. International Journal of Advanced Manufacturing Technology, 2014, 72, 1205-1217.	3.0	21
52	Thermo-Chemical Modelling Strategies for the Pultrusion Process. Applied Composite Materials, 2013, 20, 1247-1263.	2.5	39
53	Optimization of the Thermosetting Pultrusion Process by Using Hybrid and Mixed Integer Genetic Algorithms. Applied Composite Materials, 2013, 20, 449-463.	2.5	41
54	Reliability Estimation of the Pultrusion Process Using the First-Order Reliability Method (FORM). Applied Composite Materials, 2013, 20, 639-653.	2.5	48

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55	Design Optimization of a 5 MW Floating Offshore Vertical-axis Wind Turbine. Energy Procedia, 2013, 35, 22-32.	1.8	62
56	Process induced residual stresses and distortions in pultrusion. Composites Part B: Engineering, 2013, 51, 148-161.	12.0	95
57	The effect of thermal contact resistance on the thermosetting pultrusion process. Composites Part B: Engineering, 2013, 45, 995-1000.	12.0	53
58	Computational Approaches for Modeling the Multiphysics in Pultrusion Process. Advances in Mechanical Engineering, 2013, 5, 301875.	1.6	35
59	The Internal Stress Evaluation of Pultruded Blades for a Darrieus Wind Turbine. Key Engineering Materials, 0, 554-557, 2127-2137.	0.4	18
60	Utilizing Multiple Objectives for the Optimization of the Pultrusion Process Based on a Thermo-Chemical Simulation. Key Engineering Materials, 0, 554-557, 2165-2174.	0.4	18
61	Combatting rain erosion of offshore wind turbine blades by co-bonded thermoplastic-thermoset hybrid composites. IOP Conference Series: Materials Science and Engineering, 0, 942, 012024.	0.6	2