Nahiene Hamila

List of Publications by Year
in descending order

76	2,325	279798	214800
papers	citations	23 h-index	47 g-index

77	77	77	678
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of wrinkling during textile composite reinforcement forming. Influence of tensile, in-plane shear and bending stiffnesses. Composites Science and Technology, 2011, 71, 683-692.	7.8	333
2	The bias-extension test for the analysis of in-plane shear properties of textile composite reinforcements and prepregs: a review. International Journal of Material Forming, 2017, 10, 473-492.	2.0	152
3	A semiâ€discrete shell finite element for textile composite reinforcement forming simulation. International Journal for Numerical Methods in Engineering, 2009, 79, 1443-1466.	2.8	142
4	Bending and wrinkling of composite fiber preforms and prepregs. A review and new developments in the draping simulations. Composites Part B: Engineering, 2018, 141, 234-249.	12.0	139
5	Experimental and numerical analyses of textile reinforcement forming of a tetrahedral shape. Composites Part A: Applied Science and Manufacturing, 2011, 42, 612-622.	7.6	135
6	Analysis of thermoplastic prepreg bending stiffness during manufacturing and of its influence on wrinkling simulations. Composites Part A: Applied Science and Manufacturing, 2014, 67, 111-122.	7.6	123
7	Thermoforming simulation of multilayer composites with continuous fibres and thermoplastic matrix. Composites Part B: Engineering, 2013, 52, 127-136.	12.0	117
8	Simulation of thermoplastic prepreg thermoforming based on a visco-hyperelastic model and a thermal homogenization. Materials and Design, 2016, 93, 431-442.	7.0	101
9	Thermomechanical analysis, modelling and simulation of the forming of pre-impregnated thermoplastics composites. Composites Part A: Applied Science and Manufacturing, 2015, 78, 211-222.	7.6	94
10	Simulations of textile composite reinforcement draping using a new semi-discrete three node finite element. Composites Part B: Engineering, 2008, 39, 999-1010.	12.0	91
11	Finite element model for NCF composite reinforcement preforming: Importance of inter-ply sliding. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2269-2277.	7.6	79
12	Experimental and numerical analysis of wrinkling during forming of multi-layered textile composites. Composite Structures, 2019, 208, 213-223.	5.8	70
13	Different approaches for woven composite reinforcement forming simulation. International Journal of Material Forming, 2008, 1, 21-29.	2.0	65
14	A Mesoâ€“Macro Three Node Finite Element for Draping of Textile Composite Preforms. Applied Composite Materials, 2007, 14, 235-250.	2.5	58
15	Enhanced modeling of 3D composite preform deformations taking into account local fiber bending stiffness. Composites Science and Technology, 2015, 117, 322-333.	7.8	58
16	Hypoelastic, hyperelastic, discrete and semi-discrete approaches for textile composite reinforcement forming. International Journal of Material Forming, 2010, 3, 1229-1240.	2.0	55
17	Thermomechanical analysis of thermoplastic composite prepregs using bias-extension test. Journal of Thermoplastic Composite Materials, 2014, 27, 679-698.	4.2	48
18	Locking in simulation of composite reinforcement deformations. Analysis and treatment. Composites Part A: Applied Science and Manufacturing, 2013, 53, 109-117.	7.6	47

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19	Experimental and numerical analyses of manufacturing process of a composite square box part: Comparison between textile reinforcement forming and surface 3D weaving. Composites Part B: Engineering, 2015, 78, 26-34.	12.0	46
20	The difficulties in modeling the mechanical behavior of textile composite reinforcements with standard continuum mechanics of Cauchy. Some possible remedies. International Journal of Solids and Structures, 2018, 154, 55-65.	2.7	39
21	Consolidation Modeling during Thermoforming of Thermoplastic Composite Prepregs. Materials, 2019, 12, 2853.	2.9	34
22	Modelling the development of defects during composite reinforcements and prepreg forming. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150269.	3.4	33
23	Thermo-mechanical behavior of stretch-broken carbon fiber and thermoplastic resin composites during manufacturing. Polymer Composites, 2015, 36, 694-703.	4.6	23
24	A dissipative constitutive model for woven composite fabric under large strain. Composites Part A: Applied Science and Manufacturing, 2018, 105, 165-179.	7.6	21
25	Mesoscopic analyses of the draping of 3D woven composite reinforcements based on macroscopic simulations. Composite Structures, 2020, 250, 112602.	5.8	21
26	Semi-discrete shell finite elements for textile composite forming simulation. International Journal of Material Forming, 2009, 2, 169-172.	2.0	20
27	Experimental and numerical analysis of textile composite draping on a square box. Influence of the weave pattern. Composite Structures, 2021, 267, 113844.	5.8	18
28	The Need to Use Generalized Continuum Mechanics to Model 3D Textile Composite Forming. Applied Composite Materials, 2018, 25, 761-771.	2.5	16
29	Tension locking in finite-element analyses of textile composite reinforcement deformation. Comptes Rendus - Mecanique, 2013, 341, 508-519.	2.1	15
30	A prismatic solid-shell finite element based on a DKT approach with efficient calculation of through the thickness deformation. Finite Elements in Analysis and Design, 2018, 151, 18-33.	3.2	15
31	Determination of the mechanical properties of textile-reinforced composites taking into account textile forming parameters. International Journal of Material Forming, 2010, 3, 1351-1361.	2.0	13
32	Simulation of Wrinkling during Bending of Composite Reinforcement Laminates. Materials, 2020, 13, 2374.	2.9	13
33	Stability of 3D Textile Composite Reinforcement Simulations: Solutions to Spurious Transverse Modes. Applied Composite Materials, 2016, 23, 739-760.	2.5	10
34	Finite element simulation of composite reinforcement draping using a three node semi discrete triangle. International Journal of Material Forming, 2008, 1, 867-870.	2.0	9
35	A Finite Element Method for the Forming Simulation of the Reinforcements of Thermoplastic Composite. International Journal of Material Forming, 2009, 2, 213-216.	2.0	7
36	Simulations Ã©lÃ©ments-finis de la dÃ©formation de textiles aux Ã©chelles macro et mÃ©soscopique. Mecanique Et Industries, 2009, 10, 15-19.	0.2	6

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37	A hysteretic model for fiber-reinforced composites at finite strains: fractional derivatives, computational aspects and analysis. Computational Materials Science, 2020, 181, 109716.	3.0	5
38	Simulation of the forming of tufted multilayer composite preforms. Composites Part B: Engineering, 2021, 220, 108981.	12.0	5
39	Locking and Stability of 3D Woven Composite Reinforcements. Key Engineering Materials, 2014, 611-612, 292-299.	0.4	4
40	Ultraviolet Digital Image Correlation for Molten Thermoplastic Composites under Finite Strain. Experimental Mechanics, 2019, 59, 439-451.	2.0	4
41	A nine nodes solid-shell finite element with enhanced pinching stress. Computational Mechanics, 2020, 65, 1377-1395.	4.0	4
42	Design and numerical modelling strategy to form Tailored Fibre Placement preforms: Application to the tetrahedral part with orthotropic final configuration. Composites Part A: Applied Science and Manufacturing, 2022, 158, 106952.	7.6	4
43	Intraply Shearing Characterization of Thermoplastic Composite Materials in Thermoforming Processes. Key Engineering Materials, 2012, 504-506, 243-248.	0.4	3
44	Consolidation modelling for thermoplastic composites forming simulation. AIP Conference Proceedings, 2016, , .	0.4	3
45	A dissipative model for deep-drawing simulations: Elastic springback prediction and incremental forming strategies. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106547.	7.6	3
46	Draping of Textile Composite Reinforcements: Continuous and Discrete Approaches. Advanced Composites Letters, 2007, 16, 096369350701600.	1.3	2
47	Simulation of mono-ply and multi-ply woven composite reinforcements forming. European Journal of Computational Mechanics, 2008, 17, 919-931.	0.6	2
48	Simulation of Forming and Wrinkling of Textile Composite Reinforcements. , 2011, , .		2
49	Numerical Analysis of Non-Isothermal Viscoelastic Materials for Thermoforming of Polymer Films. Key Engineering Materials, 0, 554-557, 1692-1698.	0.4	2
50	Analysis of Defect Developments in Composite Forming. , 2017, , 319-337.		2
51	Hot forming of composite prepreg: Numerical analyses. AIP Conference Proceedings, 2017, , .	0.4	2
52	PrÃ©diction par simulation des dÃ©fauts de plissement lors de la mise en forme des matÃ©riaux composites mono et multiplis. Materiaux Et Techniques, 2012, 100, 591-599.	0.9	2
53	Meso-Macro Simulations of the Forming of 3D Non-Crimp Woven Fabrics. Textiles, 2022, 2, 112-123.	4.1	2
54	Meso-Macro Simulations of Textile Composite Forming. , 2008, , .		1

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55	The Bending Behaviour Characterisation of Thermoplastic Prepregs and its Influence on the Wrinkling. Key Engineering Materials, 2015, 651-653, 356-362.	0.4	1
56	Thermoforming Modelling and Simulation of Multilayer Composites with Continuous Fibre and Thermoplastic Matrix. Key Engineering Materials, 2015, 651-653, 387-392.	0.4	1
57	Simulations of 3D textile composite reinforcements. Specificities of the mechanical behavior. AIP Conference Proceedings, 2017, , .	0.4	1
58	Wrinkling and bending during forming of multi-layered textile composite. AIP Conference Proceedings, 2019, , .	0.4	1
59	A First Step Towards the Numerical Simulation of the Forming of flat TFP Preforms. Procedia Manufacturing, 2020, 47, 126-128.	1.9	1
60	ModÃ©lisation du procÃ©dÃ© de thermoestampage de composites prÃ©imprÃ©gnÃ©s Ã matrice thermoplastique. Revue Des Composites Et Des Materiaux Avances, 2018, 28, 9-33.	0.6	1
61	Simulations of one-layer and multi-layer composite forming. AIP Conference Proceedings, 2007, , .	0.4	0
62	Modelling composite reinforcement forming processes. , 2011, , 651-671.		0
63	Numerical simulation of multi-layered textile composite reinforcement forming. , 2011, , .		0
64	Analysis of Non-Crimp Fabric Composite Reinforcements Forming. Key Engineering Materials, 2012, 504-506, 219-224.	0.4	0
65	Mechanical Analysis and Simulation of the Thermoforming Process of Thin Polymer Sheets. Key Engineering Materials, 2012, 504-506, 1111-1116.	0.4	0
66	Thermoforming Simulation of Multilayer Composites with Continuous Fibre and Thermoplastic Matrix. Key Engineering Materials, 2014, 611-612, 368-374.	0.4	0
67	Bias Extension Test for In-Plane Shear Properties during Forming - Use at High Temperature and Limits of the Test. Key Engineering Materials, 2015, 651-653, 369-374.	0.4	0
68	Simulations of composite reinforcement forming taking into account local fiber bending stiffness. AIP Conference Proceedings, 2016, , .	0.4	0
69	Viscous and thermal modelling of thermoplastic composites forming process. AIP Conference Proceedings, 2016, , .	0.4	0
70	Modelling and simulation of the consolidation behavior during thermoplastic prepreg composites forming process. AIP Conference Proceedings, 2017, , .	0.4	0
71	A dissipative constitutive model for the hysteritical behaviour of a woven composite fabric under large strain. IOP Conference Series: Materials Science and Engineering, 2018, 406, 012017.	0.6	0
72	Prediction of wrinklings and porosities of thermoplastic composits after thermostamping. AIP Conference Proceedings, 2018, , .	0.4	0

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73	Hysteresis behavior modelling of woven fabric under large strain. AIP Conference Proceedings, 2019, , .	0.4	0
74	Combination of Hexahedral and Prismatic Solid-shell Finite Elements. Procedia Manufacturing, 2020, 47, 1424-1428.	1.9	0
75	Modeling composite reinforcement forming processes. , 2021, , 671-691.		0
76	Characterization of Surgical Tools for Specific Endovascular Navigation. Cardiovascular Engineering and Technology, 2022, , 1.	1.6	0