Alex A Skordos

List of Publications by Year
in descending order

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53	1,592	257450 24	302126 39
papers	citations	h-index	g-index

53	53	53	1400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formulation based predictive cure kinetics modelling of epoxy resins. Polymer, 2021, 236, 124304.	3.8	12
2	Real-time inverse solution of the compositesâ€™ cure heat transfer problem under uncertainty. Inverse Problems in Science and Engineering, 2020, 28, 1011-1030.	1.2	4
3	Real time uncertainty estimation in filling stage of resin transfer molding process. Polymer Composites, 2020, 41, 5387-5402.	4.6	14
4	Functional nanocomposites for energy storage: chemistry and new horizons. Materials Today Chemistry, 2020, 17, 100304.	3.5	29
5	Multi-objective optimization of Resin Infusion. Advanced Manufacturing: Polymer and Composites Science, 2019, 5, 17-28.	0.4	10
6	Numerical optimisation of thermoset composites manufacturing processes: A review. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105499.	7.6	42
7	A novel dielectric sensor for process monitoring of carbon fibre composites manufacture. Composites Part A: Applied Science and Manufacturing, 2019, 123, 180-189.	7.6	24
8	Measurement of thermal conductivity of epoxy resins during cure. Journal of Applied Polymer Science, 2019, 136, 47015.	2.6	25
9	Heat transfer simulation of the cure of thermoplastic particle interleaf carbon fibre epoxy prepregs. Journal of Composite Materials, 2019, 53, 2053-2064.	2.4	15
10	Lightning strike and delamination performance of metal tufted carbon composites. Composite Structures, 2019, 209, 694-699.	5.8	18
11	Stochastic multi-objective optimisation of the cure process of thick laminates. Composites Part A: Applied Science and Manufacturing, 2018, 112, 383-394.	7.6	31
12	Stochastic simulation of the influence of fibre path variability on the formation of residual stress and shape distortion. Polymer Composites, 2017, 38, 2642-2652.	4.6	9
13	Multi-objective optimisation of the cure of thick components. Composites Part A: Applied Science and Manufacturing, 2017, 93, 126-136.	7.6	67
14	Stochastic heat transfer simulation of the cure of advanced composites. Journal of Composite Materials, 2016, 50, 2971-2986.	2.4	14
15	In-situ Curing Strain Monitoring of a Flat Plate Residual Stress Specimen Using a Chopped Stand Mat Glass/Epoxy Composite as Test Material. Applied Composite Materials, 2015, 22, 805-822.	2.5	7
16	Stochastic simulation of the influence of cure kinetics uncertainty on composites cure. Composites Science and Technology, 2015, 110, 145-151.	7.8	26
17	Uncertainty in the manufacturing of fibrous thermosetting composites: A review. Composites Part A: Applied Science and Manufacturing, 2014, 57, 67-75.	7.6	148
18	Multiplexed fibre optic sensors for monitoring resin infusion, flow, and cure in composite material processing. , 2013, , .		5

#	Article	IF	Citations
19	Process and cost modelling applied to manufacture of complex aerospace composite part. Plastics, Rubber and Composites, 2013, 42, 427-436.	2.0	8
20	Methodology Applied to Integrate a Viscosity Model for Liquid Composites Molding Simulation in PAM-RTMÂ®. , 2012, , .		1
21	RTM processing and electrical performance of carbon nanotube modified epoxy/fibre composites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 593-602.	7.6	89
22	Influence of loading rate on the delamination response of untufted and tufted carbon epoxy non-crimp fabric composites/Mode II. Engineering Fracture Mechanics, 2012, 96, 1-10.	4.3	39
23	Influence of loading rate on the delamination response of untufted and tufted carbon epoxy non crimp fabric composites: Mode I. Engineering Fracture Mechanics, 2012, 96, 11-25.	4.3	35
24	The use of an electric field in the preparation of glass fibre/epoxy composites containing carbon nanotubes. Carbon, 2012, 50, 2493-2503.	10.3	46
25	Modelling flow and filtration in liquid composite moulding of nanoparticle loaded thermosets. Composites Science and Technology, 2012, 72, 799-805.	7.8	21
26	Design methodology for composite structures: A small low air-speed wind turbine blade case study. Materials & Design, 2012, 36, 296-305.	5.1	12
27	Cure kinetics, glass transition temperature development, and dielectric spectroscopy of a low temperature cure epoxy/amine system. Journal of Applied Polymer Science, 2012, 124, 1899-1905.	2.6	18
28	Rubber-toughened epoxy loaded with carbon nanotubes: structureâ€“property relationships. Journal of Materials Science, 2010, 45, 2633-2639.	3.7	30
29	Percolation threshold of carbon nanotubes filled unsaturated polyesters. Composites Science and Technology, 2010, 70, 633-637.	7.8	68
30	Toward a constitutive model for cure-dependent modulus of a high temperature epoxy during the cure. European Polymer Journal, 2010, 46, 1705-1712.	5.4	31
31	Dielectric monitoring of carbon nanotube network formation in curing thermosetting nanocomposites. Journal Physics D: Applied Physics, 2009, 42, 155402.	2.8	17
32	Monitoring cure in epoxies containing carbon nanotubes with an opticalâ€fiber Fresnel refractometer. Journal of Applied Polymer Science, 2009, 113, 730-735.	2.6	19
33	Monitoring dispersion of carbon nanotubes in a thermosetting polyester resin. Composites Science and Technology, 2009, 69, 1516-1520.	7.8	56
34	Evaluation of the mechanical and damage behaviour of tufted non crimped fabric composites using full field measurements. Composites Science and Technology, 2009, 69, 131-138.	7.8	39
35	Enhanced dc conductivity of low volume-fraction nano-particulate suspensions in silicone and perfluorinated oils. Journal Physics D: Applied Physics, 2009, 42, 062003.	2.8	4
36	Thermomechanical analysis of a toughened thermosetting system. Mechanics of Composite Materials, 2008, 44, 181-190.	1.4	8

#	Article	IF	Citations
37	Design selection methodology for composite structures. Materials & Design, 2008, 29, 418-426.	5.1	30
38	Stochastic simulation of woven composites forming. Composites Science and Technology, 2008, 68, 283-296.	7.8	55
39	Cure of a Carbon Nanotube Modified Multiphase Epoxy-Thermoplastic Resin System. , 2008, , .		1
40	Fibre grating refractometer sensors for composite process monitoring. , 2007, , .		0
41	A simplified rate dependent model of forming and wrinkling of pre-impregnated woven composites. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1318-1330.	7.6	110
42	Effects of tool-embedded dielectric sensors on heat transfer phenomena during composite cure. Polymer Composites, 2007, 28, 139-152.	4.6	5
43	Strain development in curing epoxy resin and glass fibre/epoxy composites monitored by fibre Bragg grating sensors in birefringent optical fibre. Smart Materials and Structures, 2005, 14, 354-362.	3.5	42
44	Parameter estimation in equivalent circuit analysis of dielectric cure monitoring signals using genetic algorithms. Inverse Problems in Science and Engineering, 2005, 13, 157-176.	1.2	7
45	Determination of catalyst active sites distributions in ionic polymerization. Inverse Problems in Science and Engineering, 2005, 13, 101-107.	1.2	1
46	Multidimensional strain and temperature measurements using a novel high-birefringent fiber Bragg grating interrogation system. , 2004, , .		0
47	Inverse heat transfer for optimization and on-line thermal properties estimation in composites curing. Inverse Problems in Science and Engineering, 2004, 12, 157-172.	1.2	28
48	Determination of the degree of cure under dynamic and isothermal curing conditions with electrical impedance spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 146-154.	2.1	34
49	Investigation of cure induced shrinkage in unreinforced epoxy resin. Plastics, Rubber and Composites, 2002, 31, 377-384.	2.0	59
50	A novel strain sensor based on the campaniform sensillum of insects. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 239-253.	3.4	61
51	Cure kinetics modeling of epoxy resins using a non-parametric numerical procedure. Polymer Engineering and Science, 2001, 41, 793-805.	3.1	40
52	A dielectric sensor for measuring flow in resin transfer moulding. Measurement Science and Technology, 2000, 11, 25-31.	2.6	57
53	Evaluation of the behaviour of particulate polymeric coatings in a corrosive environment. Influence of the concentration of metal particles. Progress in Organic Coatings, 1996, 28, 117-124.	3.9	21