

Leif Asp

List of Publications by Year in descending order

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86
papers

3,442
citations

136950

32
h-index

144013

57
g-index

86
all docs

86
docs citations

86
times ranked

1822
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational modelling of structural batteries accounting for stress-assisted convection in the electrolyte. <i>International Journal of Solids and Structures</i> , 2022, 238, 111343.	2.7	12
2	A multicell structural battery composite laminate. <i>EcoMat</i> , 2022, 4, .	11.9	23
3	X-ray computed tomography data structure tensor orientation mapping for finite element models "STXAE. <i>Software Impacts</i> , 2022, 11, 100216.	1.4	7
4	Experimental and computational characterization of carbon fibre based structural battery electrode laminae. <i>Composites Science and Technology</i> , 2022, 220, 109283.	7.8	14
5	Identification of Representative Equivalent Volumes on the Microstructure of 3D-Printed Fiber-Reinforced Thermoplastics Based on Statistical Characterization. <i>Polymers</i> , 2022, 14, 972.	4.5	2
6	On the coupled thermo"electro"chemo"mechanical performance of structural batteries with emphasis on thermal effects. <i>European Journal of Mechanics, A/Solids</i> , 2022, 94, 104586.	3.7	12
7	Robust numerical analysis of fibrous composites from X-ray computed tomography image data enabling low resolutions. <i>Composites Science and Technology</i> , 2022, 224, 109458.	7.8	8
8	Automated X-ray computer tomography segmentation method for finite element analysis of non-crimp fabric reinforced composites. <i>Composite Structures</i> , 2021, 256, 113136.	5.8	26
9	A Structural Battery and its Multifunctional Performance. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000093.	5.8	74
10	A Structural Battery and its Multifunctional Performance. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2170008.	5.8	32
11	Characterisation of tape-based carbon fibre thermoplastic discontinuous composites for energy absorption. <i>Plastics, Rubber and Composites</i> , 2021, 50, 351-361.	2.0	4
12	Electrophoretic coating of LiFePO ₄ /Graphene oxide on carbon fibers as cathode electrodes for structural lithium ion batteries. <i>Composites Science and Technology</i> , 2021, 208, 108768.	7.8	61
13	Mapping nitrogen heteroatoms in carbon fibres using atom probe tomography and photoelectron spectroscopy. <i>Carbon</i> , 2021, 179, 20-27.	10.3	10
14	Multifunctional approaches for safe structural batteries. <i>Journal of Energy Storage</i> , 2021, 40, 102747.	8.1	33
15	A screen-printing method for manufacturing of current collectors for structural batteries. <i>Multifunctional Materials</i> , 2021, 4, 035002.	3.7	12
16	Mechanism based failure of 3D-printed continuous carbon fiber reinforced thermoplastic composites. <i>Composites Science and Technology</i> , 2021, 213, 108962.	7.8	8
17	Effect of lithiation on the elastic moduli of carbon fibres. <i>Carbon</i> , 2021, 185, 234-241.	10.3	20
18	Compressive strength assessment of a CFRP aero-engine component " An approach based on measured fibre misalignment angles. <i>Composite Structures</i> , 2020, 233, 111632.	5.8	11

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19	Characterization of the adhesive properties between structural battery electrolytes and carbon fibers. <i>Composites Science and Technology</i> , 2020, 188, 107962.	7.8	25
20	Determination of transverse and shear moduli of single carbon fibres. <i>Carbon</i> , 2020, 158, 772-782.	10.3	34
21	Dataset of non-crimp fabric reinforced composites for an X-ray computer tomography aided engineering process. <i>Data in Brief</i> , 2020, 33, 106518.	1.0	2
22	Performance of bicontinuous structural electrolytes. <i>Multifunctional Materials</i> , 2020, 3, 025001.	3.7	32
23	Ultra-strong and stiff randomly-oriented discontinuous composites: Closing the gap to quasi-isotropic continuous-fibre laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105826.	7.6	15
24	Performance analysis framework for structural battery composites in electric vehicles. <i>Composites Part B: Engineering</i> , 2020, 186, 107822.	12.0	82
25	Electro-chemo-mechanically coupled computational modelling of structural batteries. <i>Multifunctional Materials</i> , 2020, 3, 045002.	3.7	20
26	Fractographic study to characterise the interaction between intralaminar and interlaminar fracture from embedded defects under compression loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105557.	7.6	3
27	Structural battery composites: a review. <i>Functional Composites and Structures</i> , 2019, 1, 042001.	3.4	133
28	Industrial Framework for Identification and Verification of Hot Spots in Automotive Composite Structures. <i>SAE International Journal of Materials and Manufacturing</i> , 2019, 12, .	0.3	0
29	X-ray tomography data of compression tested unidirectional fibre composites with different off-axis angles. <i>Data in Brief</i> , 2019, 25, 104263.	1.0	4
30	Influence of in-plane shear on kink-plane orientation in a unidirectional fibre composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 283-290.	7.6	22
31	Compressive strength assessment of fibre composites based on a defect severity model. <i>Composites Science and Technology</i> , 2019, 181, 107685.	7.8	23
32	Experimental characterization of multifunctional polymer electrolyte coated carbon fibres. <i>Functional Composites and Structures</i> , 2019, 1, 025001.	3.4	12
33	Thermal and diffusion induced stresses in a structural battery under galvanostatic cycling. <i>Composites Science and Technology</i> , 2019, 179, 69-78.	7.8	45
34	Effects of state of charge on elastic properties of 3D structural battery composites. <i>Composites Science and Technology</i> , 2019, 169, 26-33.	7.8	48
35	Hot spot analysis in complex composite material structures. <i>Composite Structures</i> , 2019, 207, 776-786.	5.8	4
36	An experimental study of fibre waviness and its effects on compressive properties of unidirectional NCF composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 665-674.	7.6	72

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37	Multifunctional performance of a carbon fiber UD lamina electrode for structural batteries. Composites Science and Technology, 2018, 168, 81-87.	7.8	96
38	Graphitic microstructure and performance of carbon fibre Li-ion structural battery electrodes. Multifunctional Materials, 2018, 1, 015003.	3.7	65
39	A high resolution method for characterisation of fibre misalignment angles in composites. Composites Science and Technology, 2018, 165, 214-221.	7.8	32
40	Composite Design for a Foiling Optimist Dinghy. Proceedings (mdpi), 2018, 2, .	0.2	0
41	Implementation of failure criteria for transverse failure of orthotropic Non-Crimp Fabric composite materials. Composites Part A: Applied Science and Manufacturing, 2017, 92, 158-166.	7.6	8
42	Electrocoating of carbon fibres at ambient conditions. Composites Part B: Engineering, 2016, 91, 94-102.	12.0	14
43	Orthotropic criteria for transverse failure of non-crimp fabric-reinforced composites. Journal of Composite Materials, 2016, 50, 2445-2458.	2.4	16
44	Multifunctional structural battery and supercapacitor composites. , 2015, , 619-661.		5
45	Mechanical, electrical and microstructural characterisation of multifunctional structural power composites. Journal of Composite Materials, 2015, 49, 1823-1834.	2.4	69
46	Compression failure mechanism in small scale timber specimens. Construction and Building Materials, 2014, 50, 130-139.	7.2	7
47	Structural power composites. Composites Science and Technology, 2014, 101, 41-61.	7.8	241
48	Transverse strength of unidirectional non-crimp fabric composites: Multiscale modelling. Composites Part B: Engineering, 2014, 65, 47-56.	12.0	28
49	Solid polymer electrolyte-coated carbon fibres for structural and novel micro batteries. Composites Science and Technology, 2013, 89, 149-157.	7.8	68
50	Structural carbon fibre composite/PET capacitors " Effects of dielectric separator thickness. Composites Part B: Engineering, 2013, 49, 16-21.	12.0	45
51	High Velocity Hail Impact on Composite Laminates " Modelling and Testing. Solid Mechanics and Its Applications, 2013, , 393-426.	0.2	6
52	Multifunctional composite materials for energy storage in structural load paths. Plastics, Rubber and Composites, 2013, 42, 144-149.	2.0	55
53	An Experimental Study into the Effect of Damage on the Capacitance of Structural Composite Capacitors. Journal of Multifunctional Composites, 2013, 1, 1-7.	0.2	7
54	Mechanical performance and modelling of a fully recycled modified CF/PP composite. Journal of Composite Materials, 2012, 46, 1503-1517.	2.4	12

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55	Viscoelastic and viscoplastic behavior of a fully recycled carbon fiber-reinforced maleic anhydride grafted polypropylene modified polypropylene composite. <i>Journal of Composite Materials</i> , 2012, 46, 1633-1646.	2.4	5
56	Stiffness and strength modelling of non-crimp fabric composites. , 2011, , .		0
57	Modelling stiffness and strength of non-crimp fabric composites: semi-laminar analysis. , 2011, , 402-438.		2
58	CFRP structural capacitor materials for automotive applications. <i>Plastics, Rubber and Composites</i> , 2011, 40, 311-316.	2.0	24
59	Structural capacitor materials made from carbon fibre epoxy composites. <i>Composites Science and Technology</i> , 2010, 70, 1135-1140.	7.8	107
60	Structural batteries made from fibre reinforced composites. <i>Plastics, Rubber and Composites</i> , 2010, 39, 148-150.	2.0	71
61	Anisotropic and tensionâ€“compression asymmetric model for composites consolidation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 284-294.	7.6	3
62	Two phase continuum modelling of composites consolidation. <i>Plastics, Rubber and Composites</i> , 2009, 38, 93-97.	2.0	3
63	Recycled polypropylene aimed as composites precursor material. <i>Plastics, Rubber and Composites</i> , 2009, 38, 412-418.	2.0	5
64	Effects of CFRP laminate thickness on bending after impact strength. <i>Plastics, Rubber and Composites</i> , 2009, 38, 61-66.	2.0	12
65	Reuse of polymer materials and carbon fibres in novel engineering composite materials. <i>Plastics, Rubber and Composites</i> , 2009, 38, 419-425.	2.0	20
66	High velocity impact on NCF reinforced composites. <i>Composites Science and Technology</i> , 2009, 69, 1478-1482.	7.8	23
67	Damage tolerance analysis of NCF composite sandwich panels. <i>Composites Science and Technology</i> , 2008, 68, 2635-2645.	7.8	35
68	Failure of NCF composites subjected to combined compression and shear loading. <i>Composites Science and Technology</i> , 2006, 66, 2865-2877.	7.8	46
69	Approximate analytical constitutive model for non-crimp fabric composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 173-181.	7.6	22
70	Compressive Failure of Impacted NCF Composite Sandwich Panels - Characterisation of the Failure Process. <i>Journal of Composite Materials</i> , 2004, 38, 495-514.	2.4	54
71	Formation of damage and its effects on non-crimp fabric reinforced composites loaded in tension. <i>Composites Science and Technology</i> , 2004, 64, 675-692.	7.8	103
72	Mixed-mode delamination growth in carbonâ€“fibre composite laminates under cyclic loading. <i>International Journal of Solids and Structures</i> , 2004, 41, 4219-4235.	2.7	126

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73	Effects of temperature on delamination growth in a carbon/epoxy composite under fatigue loading. <i>International Journal of Fatigue</i> , 2002, 24, 179-184.	5.7	67
74	An experimental investigation of the influence of delamination growth on the residual strength of impacted laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001, 32, 1229-1235.	7.6	27
75	Delamination buckling and growth for delaminations at different depths in a slender composite panel. <i>International Journal of Solids and Structures</i> , 2001, 38, 3039-3071.	2.7	103
76	On transition of delamination growth behaviour for compression loaded composite panels. <i>International Journal of Solids and Structures</i> , 2001, 38, 8407-8440.	2.7	21
77	Delamination Criticality in Slender Compression-Loaded Composite Panels. <i>Key Engineering Materials</i> , 2001, 221-222, 3-16.	0.4	2
78	Delamination Growth and Thresholds in a Carbon/Epoxy Composite Under Fatigue Loading. <i>Journal of Composites Technology and Research</i> , 2001, 23, 55.	0.4	133
79	Evaluation of Four Composite Shear Test Methods by Digital Speckle Strain Mapping and Fractographic Analysis. <i>Journal of Composites Technology and Research</i> , 2000, 22, 161.	0.4	33
80	Assessment of Evaluation Methods for the Mixed-Mode Bending Test. <i>Journal of Composites Technology and Research</i> , 1999, 21, 37.	0.4	44
81	The effects of moisture and temperature on the interlaminar delamination toughness of a carbon/epoxy composite. <i>Composites Science and Technology</i> , 1998, 58, 967-977.	7.8	126
82	Effects of fiber and interphase on matrix-initiated transverse failure in polymer composites. <i>Composites Science and Technology</i> , 1996, 56, 657-665.	7.8	72
83	Prediction of matrix-initiated transverse failure in polymer composites. <i>Composites Science and Technology</i> , 1996, 56, 1089-1097.	7.8	175
84	A criterion for crack initiation in glassy polymers subjected to a composite-like stress state. <i>Composites Science and Technology</i> , 1996, 56, 1291-1301.	7.8	152
85	Effects of a composite-like stress state on the fracture of epoxies. <i>Composites Science and Technology</i> , 1995, 53, 27-37.	7.8	104
86	Microdamage in Composite Laminates: Experiments and Observation. <i>Applied Mechanics and Materials</i> , 0, 518, 84-89.	0.2	3