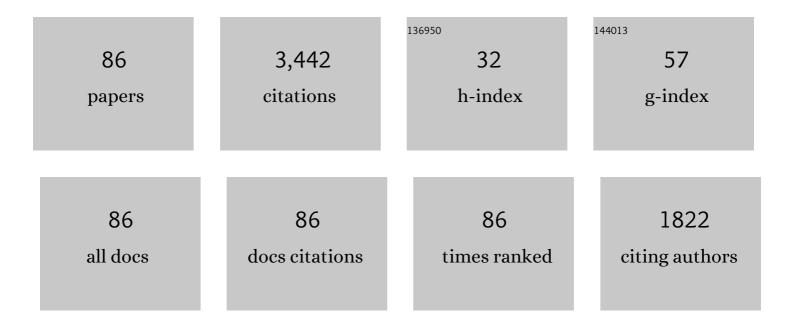
Leif Asp

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7482477/publications.pdf Version: 2024-02-01



I FIF ACD

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Structural power composites. Composites Science and Technology, 2014, 101, 41-61. | 7.8 | 241 |
| 2 | Prediction of matrix-initiated transverse failure in polymer composites. Composites Science and Technology, 1996, 56, 1089-1097. | 7.8 | 175 |
| 3 | A criterion for crack initiation in glassy polymers subjected to a composite-like stress state. Composites Science and Technology, 1996, 56, 1291-1301. | 7.8 | 152 |
| 4 | Structural battery composites: a review. Functional Composites and Structures, 2019, 1, 042001. | 3.4 | 133 |
| 5 | Delamination Growth and Thresholds in a Carbon/Epoxy Composite Under Fatigue Loading. Journal of Composites Technology and Research, 2001, 23, 55. | 0.4 | 133 |
| 6 | The effects of moisture and temperature on the interlaminar delamination toughness of a carbon/epoxy composite. Composites Science and Technology, 1998, 58, 967-977. | 7.8 | 126 |
| 7 | Mixed-mode delamination growth in carbon–fibre composite laminates under cyclic loading. International Journal of Solids and Structures, 2004, 41, 4219-4235. | 2.7 | 126 |
| 8 | Structural capacitor materials made from carbon fibre epoxy composites. Composites Science and Technology, 2010, 70, 1135-1140. | 7.8 | 107 |
| 9 | Effects of a composite-like stress state on the fracture of epoxies. Composites Science and Technology, 1995, 53, 27-37. | 7.8 | 104 |
| 10 | Delamination buckling and growth for delaminations at different depths in a slender composite panel. International Journal of Solids and Structures, 2001, 38, 3039-3071. | 2.7 | 103 |
| 11 | Formation of damage and its effects on non-crimp fabric reinforced composites loaded in tension. Composites Science and Technology, 2004, 64, 675-692. | 7.8 | 103 |
| 12 | Multifunctional performance of a carbon fiber UD lamina electrode for structural batteries. Composites Science and Technology, 2018, 168, 81-87. | 7.8 | 96 |
| 13 | Performance analysis framework for structural battery composites in electric vehicles. Composites Part B: Engineering, 2020, 186, 107822. | 12.0 | 82 |
| 14 | A Structural Battery and its Multifunctional Performance. Advanced Energy and Sustainability Research, 2021, 2, 2000093. | 5.8 | 74 |
| 15 | Effects of fiber and interphase on matrix-initiated transverse failure in polymer composites. Composites Science and Technology, 1996, 56, 657-665. | 7.8 | 72 |
| 16 | An experimental study of fibre waviness and its effects on compressive properties of unidirectional NCF composites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 665-674. | 7.6 | 72 |
| 17 | Structural batteries made from fibre reinforced composites. Plastics, Rubber and Composites, 2010, 39, 148-150. | 2.0 | 71 |
| 18 | Mechanical, electrical and microstructural characterisation of multifunctional structural power composites. Journal of Composite Materials, 2015, 49, 1823-1834. | 2.4 | 69 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Solid polymer electrolyte-coated carbon fibres for structural and novel micro batteries. Composites Science and Technology, 2013, 89, 149-157. | 7.8 | 68 |
| 20 | Effects of temperature on delamination growth in a carbon/epoxy composite under fatigue loading. International Journal of Fatigue, 2002, 24, 179-184. | 5.7 | 67 |
| 21 | Graphitic microstructure and performance of carbon fibre Li-ion structural battery electrodes. Multifunctional Materials, 2018, 1, 015003. | 3.7 | 65 |
| 22 | Electrophoretic coating of LiFePO4/Graphene oxide on carbon fibers as cathode electrodes for structural lithium ion batteries. Composites Science and Technology, 2021, 208, 108768. | 7.8 | 61 |
| 23 | Multifunctional composite materials for energy storage in structural load paths. Plastics, Rubber and Composites, 2013, 42, 144-149. | 2.0 | 55 |
| 24 | Compressive Failure of Impacted NCF Composite Sandwich Panels - Characterisation of the Failure Process. Journal of Composite Materials, 2004, 38, 495-514. | 2.4 | 54 |
| 25 | Effects of state of charge on elastic properties of 3D structural battery composites. Composites Science and Technology, 2019, 169, 26-33. | 7.8 | 48 |
| 26 | Failure of NCF composites subjected to combined compression and shear loading. Composites Science and Technology, 2006, 66, 2865-2877. | 7.8 | 46 |
| 27 | Structural carbon fibre composite/PET capacitors – Effects of dielectric separator thickness. Composites Part B: Engineering, 2013, 49, 16-21. | 12.0 | 45 |
| 28 | Thermal and diffusion induced stresses in a structural battery under galvanostatic cycling. Composites Science and Technology, 2019, 179, 69-78. | 7.8 | 45 |
| 29 | Assessment of Evaluation Methods for the Mixed-Mode Bending Test. Journal of Composites Technology and Research, 1999, 21, 37. | 0.4 | 44 |
| 30 | Damage tolerance analysis of NCF composite sandwich panels. Composites Science and Technology, 2008, 68, 2635-2645. | 7.8 | 35 |
| 31 | Determination of transverse and shear moduli of single carbon fibres. Carbon, 2020, 158, 772-782. | 10.3 | 34 |
| 32 | Multifunctional approaches for safe structural batteries. Journal of Energy Storage, 2021, 40, 102747. | 8.1 | 33 |
| 33 | Evaluation of Four Composite Shear Test Methods by Digital Speckle Strain Mapping and Fractographic Analysis. Journal of Composites Technology and Research, 2000, 22, 161. | 0.4 | 33 |
| 34 | A high resolution method for characterisation of fibre misalignment angles in composites. Composites Science and Technology, 2018, 165, 214-221. | 7.8 | 32 |
| 35 | Performance of bicontinuous structural electrolytes. Multifunctional Materials, 2020, 3, 025001. | 3.7 | 32 |
| 36 | A Structural Battery and its Multifunctional Performance. Advanced Energy and Sustainability Research, 2021, 2, 2170008. | 5.8 | 32 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Transverse strength of unidirectional non-crimp fabric composites: Multiscale modelling. Composites Part B: Engineering, 2014, 65, 47-56. | 12.0 | 28 |
| 38 | An experimental investigation of the influence of delamination growth on the residual strength of impacted laminates. Composites Part A: Applied Science and Manufacturing, 2001, 32, 1229-1235. | 7.6 | 27 |
| 39 | Automated X-ray computer tomography segmentation method for finite element analysis of non-crimp fabric reinforced composites. Composite Structures, 2021, 256, 113136. | 5.8 | 26 |
| 40 | Characterization of the adhesive properties between structural battery electrolytes and carbon fibers. Composites Science and Technology, 2020, 188, 107962. | 7.8 | 25 |
| 41 | CFRP structural capacitor materials for automotive applications. Plastics, Rubber and Composites, 2011, 40, 311-316. | 2.0 | 24 |
| 42 | High velocity impact on NCF reinforced composites. Composites Science and Technology, 2009, 69, 1478-1482. | 7.8 | 23 |
| 43 | Compressive strength assessment of fibre composites based on a defect severity model. Composites Science and Technology, 2019, 181, 107685. | 7.8 | 23 |
| 44 | A multicell structural battery composite laminate. EcoMat, 2022, 4, . | 11.9 | 23 |
| 45 | Influence of in-plane shear on kink-plane orientation in a unidirectional fibre composite. Composites Part A: Applied Science and Manufacturing, 2019, 119, 283-290. | 7.6 | 22 |
| 46 | Approximate analytical constitutive model for non-crimp fabric composites. Composites Part A: Applied Science and Manufacturing, 2005, 36, 173-181. | 7.6 | 22 |
| 47 | On transition of delamination growth behaviour for compression loaded composite panels. International Journal of Solids and Structures, 2001, 38, 8407-8440. | 2.7 | 21 |
| 48 | Reuse of polymer materials and carbon fibres in novel engineering composite materials. Plastics, Rubber and Composites, 2009, 38, 419-425. | 2.0 | 20 |
| 49 | Effect of lithiation on the elastic moduli of carbon fibres. Carbon, 2021, 185, 234-241. | 10.3 | 20 |
| 50 | Electro-chemo-mechanically coupled computational modelling of structural batteries. Multifunctional Materials, 2020, 3, 045002. | 3.7 | 20 |
| 51 | Orthotropic criteria for transverse failure of non-crimp fabric-reinforced composites. Journal of Composite Materials, 2016, 50, 2445-2458. | 2.4 | 16 |
| 52 | Ultra-strong and stiff randomly-oriented discontinuous composites: Closing the gap to quasi-isotropic continuous-fibre laminates. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105826. | 7.6 | 15 |
| 53 | Electrocoating of carbon fibres at ambient conditions. Composites Part B: Engineering, 2016, 91, 94-102. | 12.0 | 14 |
| 54 | Experimental and computational characterization of carbon fibre based structural battery electrode laminae. Composites Science and Technology, 2022, 220, 109283. | 7.8 | 14 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Effects of CFRP laminate thickness on bending after impact strength. Plastics, Rubber and Composites, 2009, 38, 61-66. | 2.0 | 12 |
| 56 | Mechanical performance and modelling of a fully recycled modified CF/PP composite. Journal of Composite Materials, 2012, 46, 1503-1517. | 2.4 | 12 |
| 57 | Experimental characterization of multifunctional polymer electrolyte coated carbon fibres. Functional Composites and Structures, 2019, 1, 025001. | 3.4 | 12 |
| 58 | A screen-printing method for manufacturing of current collectors for structural batteries. Multifunctional Materials, 2021, 4, 035002. | 3.7 | 12 |
| 59 | Computational modelling of structural batteries accounting for stress-assisted convection in the electrolyte. International Journal of Solids and Structures, 2022, 238, 111343. | 2.7 | 12 |
| 60 | On the coupled thermo–electro–chemo–mechanical performance of structural batteries with emphasis on thermal effects. European Journal of Mechanics, A/Solids, 2022, 94, 104586. | 3.7 | 12 |
| 61 | Compressive strength assessment of a CFRP aero-engine component – An approach based on measured fibre misalignment angles. Composite Structures, 2020, 233, 111632. | 5.8 | 11 |
| 62 | Mapping nitrogen heteroatoms in carbon fibres using atom probe tomography and photoelectron spectroscopy. Carbon, 2021, 179, 20-27. | 10.3 | 10 |
| 63 | 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 |
| 64 | Mechanism based failure of 3D-printed continuous carbon fiber reinforced thermoplastic composites. Composites Science and Technology, 2021, 213, 108962. | 7.8 | 8 |
| 65 | Robust numerical analysis of fibrous composites from X-ray computed tomography image data enabling low resolutions. Composites Science and Technology, 2022, 224, 109458. | 7.8 | 8 |
| 66 | Compression failure mechanism in small scale timber specimens. Construction and Building Materials, 2014, 50, 130-139. | 7.2 | 7 |
| 67 | 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 |
| 68 | X-ray computed tomography data structure tensor orientation mapping for finite element models — STXAE. Software Impacts, 2022, 11, 100216. | 1.4 | 7 |
| 69 | High Velocity Hail Impact on Composite Laminates – Modelling and Testing. Solid Mechanics and Its Applications, 2013, , 393-426. | 0.2 | 6 |
| 70 | Recycled polypropylene aimed as composites precursor material. Plastics, Rubber and Composites, 2009, 38, 412-418. | 2.0 | 5 |
| 71 | Viscoelastic and viscoplastic behavior of a fully recycled carbon fiber-reinforced maleic anhydride grafted polypropylene modified polypropylene composite. Journal of Composite Materials, 2012, 46, 1633-1646. | 2.4 | 5 |
| 72 | Multifunctional structural battery and supercapacitor composites. , 2015, , 619-661. | | 5 |

72 ${\it Multifunctional\ structural\ battery\ and\ supercapacitor\ composites.\ ,\ 2015,\ ,\ 619-661.}$

5

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | X-ray tomography data of compression tested unidirectional fibre composites with different off-axis angles. Data in Brief, 2019, 25, 104263. | 1.0 | 4 |
| 74 | Hot spot analysis in complex composite material structures. Composite Structures, 2019, 207, 776-786. | 5.8 | 4 |
| 75 | Characterisation of tape-based carbon fibre thermoplastic discontinuous composites for energy absorption. Plastics, Rubber and Composites, 2021, 50, 351-361. | 2.0 | 4 |
| 76 | Two phase continuum modelling of composites consolidation. Plastics, Rubber and Composites, 2009, 38, 93-97. | 2.0 | 3 |
| 77 | Anisotropic and tension–compression asymmetric model for composites consolidation. Composites Part A: Applied Science and Manufacturing, 2010, 41, 284-294. | 7.6 | 3 |
| 78 | Microdamage in Composite Laminates: Experiments and Observation. Applied Mechanics and Materials, 0, 518, 84-89. | 0.2 | 3 |
| 79 | Fractographic study to characterise the interaction between intralaminar and interlaminar fracture from embedded defects under compression loading. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105557. | 7.6 | 3 |
| 80 | Delamination Criticality in Slender Compression-Loaded Composite Panels. Key Engineering Materials, 2001, 221-222, 3-16. | 0.4 | 2 |
| 81 | Modelling stiffness and strength of non-crimp fabric composites: semi-laminar analysis. , 2011, , 402-438. | | 2 |
| 82 | Dataset of non-crimp fabric reinforced composites for an X-ray computer tomography aided engineering process. Data in Brief, 2020, 33, 106518. | 1.0 | 2 |
| 83 | Identification of Representative Equivalent Volumes on the Microstructure of 3D-Printed Fiber-Reinforced Thermoplastics Based on Statistical Characterization. Polymers, 2022, 14, 972. | 4.5 | 2 |
| 84 | Stiffness and strength modelling of non-crimp fabric composites. , 2011, , . | | 0 |
| 85 | Composite Design for a Foiling Optimist Dinghy. Proceedings (mdpi), 2018, 2, . | 0.2 | 0 |
| 86 | Industrial Framework for Identification and Verification of Hot Spots in Automotive Composite Structures. SAE International Journal of Materials and Manufacturing, 2019, 12, . | 0.3 | 0 |