DIA-STRON
DELIVERING MEASUREMENT SOLUTIONS

Author	Published	Article Title	Institute	Reference/URL	Instrument	Fibre Type
Fall et al.	05/05/2022	Spinning of stiff and conductive filaments from cellulose nanofibrils and PEDOT:PSS nanocomplexes	RISE Research Institutes of Sweden	ACS Applied Polymer Materials 2022 4 (6), 4119-4130	LEX820	Cellulose
Bengtsson et al.	04/05/2022	Continuous Stabilization and Carbonization of a Lignin–Cellulose Precursor to Carbon Fiber	RISE Research Institutes of Sweden	ACS Omega 2022, 7, 19, 16793–16802	LEX820/ LDS	Cellulose/ Carbon
Gregoire et al.	11/09/2021	Comparing flax and hemp fibres yield and mechanical properties after scutching/hackling processing	Université de Toulouse, Università Cattolica del Sacro Cuore, FEMTO-ST Institute Université Bourgogne Franche-Comté	Industrial Crops and Products, Volume 172, 2021, 114045, ISSN 0926-6690	LEX820/ FDAS	Hemp, Flax
Mesquita et al.	15/04/2021	Large datasets of single carbon and glass fibre mechanical properties obtained with automated testing equipment	KU Leuven/Dia-Stron	Composites Part A: Applied Science and Manufacturing, Volume 145, June 2021, Pages 106389	LEX820/ LDS	Carbon, Glass
Kandemir et al.	04/05/2020	Characterisation of natural fibres for sustainable discontinuous fibre composite materials	Bristol Composites Institute/University of Bristol	Materials 2020, 13, 2129; doi:10.3390/ma13092129	LEX820/ IFSS	Jute, Kenaf, Curaua, Flax
Bengtsson et al.	15/04/2020	Carbon Fibers from Lignin–Cellulose Precursors: Effect of Carbonization Conditions	RISE Research Institutes of Sweden	ACS Sustainable Chem. Eng. 2020, 8, 17, 6826–6833	LEX820/ LDS	Cellulose/ Carbon
Gregoire et al.	02/03/2020	Investigation of the potential of hemp fibre straws harvested using a combine machine for the production of technical load-bearing textiles	University of Toulouse (INP-ENIT Tarbes and INRA, INPT Toulouse)	Industrial Crops and Products, Elsevier, 2020, 145, pp.111988	LEX820/ FDAS	Hemp

Feigel et al.	09/05/2019	Assessment of Mechanical Property Variation of As-Processed Bast Fibers	State University of New York at New Paltz	Sustainability 2019, 11(9), 2655	LEX/ FDAS	Flax, Hemp, Kenaf
Faisal et al.	18/12/2018	Improvements in determination of carbon fibre strength distribution using automation and statistical data analysis	MINES ParisTech/Dia-Stron	Fiber Society's Spring 2018 Conference, The Fiber Society, Jun 2018, Tokyo, Japan	LEX/ LDS	Carbon
Bengtsson et al.	27/07/2018	Improved yield of carbon fibres from cellulose and kraft lignin	RISE Innventia/KTH Royal Institute of Technology	Holzforschung, vol. 72, no. 12, 2018, pp. 1007-1016	LEX/LDS/ ALS	Carbon
Garat et al.	28/06/2018	Dimensional variations and mechanical behaviour of natural fibres from various plant species in controlled hygro/hydrothermal conditions	MINES Ales, Universite de Montpellier	ECCM18 - 18th European Conference on Composite Materials Athens, Greece, 24-28th June 2018	LEX/ FDAS	Flax, Hemp, Nettle, Sisal, Palm
Coscia et al.	11/12/2017	Manufacturing & characterization of regenerated cellulose/curcumin based sustainable composites fibers spun from environmentally benign solvents	University of Bristol	Industrial Crops and Products Volume 111, January 2018, Pages 536-543	LEX	Cellulose
Tan et al.	25/08/2017	Investigating the use of Chitosan as a coupling agent to improve the interfacial properties of phosphate glass fibre/polycaprolactone composites	University of Nottingham Ningbo China	21st International Conference on Composite Materials Xi'an, 20-25th August 2017	LEX820	Glass
Yue Z, Liu C, Vakili A	08/08/2017	Meltblown Solvated Mesophase Pitch-Based Carbon Fibers: Fiber Evolution and Characteristics	University of Tennessee Space Institute	MDPI Journal C. 2017; 3(3):26	LEX/ FDAS	Carbon
S Ahmed	2017	Mechanical and surface properties of technical and single flax fibre in micro and nano scale	North Dakota State University	PhD Thesis, North Dakota State University	LEX810	Flax

J-C Habeck	2017	Effect of Dew Retting and Maceration on Fibre Properties of Hemp and Flax in Manitoba	University of Manitoba	PhD Thesis, University of Manitoba	LEX/ FDAS	Flax, Hemp
Zhu et al.	22/07/2016	High modulus regenerated cellulose fibres spun from a low molecular weight microcrystalline cellulose solution	University of Bristol	ACS Sustainable Chem. Eng. 2016, 4, 4545−4553	LEX820	Cellulose
Fischer et al.	2016	Development of advanced compatible materials for the restoration of cultural heritage assets (Mythos): first results	Faserinstitut Bremen	Proc. Rom. Acad., Series B, 2016, 18(1), p. 43–49	LEX	Flax, Hemp
Andre et al.	2016	Elastic anisotropy of kenaf fibre and micromechanical modeling of nonwoven kenaf fibre/epoxy composites	Universiti Sains Malaysia	Journal of Reinforced plastics and composites, 2016, 35(19),1424-1433	LEX810	Kenaf
Pickering et al.	01/10/2015	Developments in the fluidised bed process for fibre recovery from thermoset composites	University of Nottingham	https://core.ac.uk/download/42585686.pdf	LEX/ LDS	Carbon
Liu et al.	22/07/2013	Magnesium coated bioresorbable phosphate glass fibres: investigation of the interface between fibre and polyester matrices	University of Nottingham	BioMed Research International, vol. 2013, Article ID 735981, 10 pages, 2013	LEX/ FDAS	Glass
T Sengloung, L Kaveeta, J Mussig	11/10/2008	Physical Properties of Traditional Thai Hemp Fiber (Cannabis sativa L.)	Kasetsart University, University of Applied Science Bremen	Journal of Industrial Hemp, 13:1, 20-36	LEX/ FDAS	Hemp
H D Cochran	01/08/2008	Analysis of Carbon Fiber Characterization Techniques	University of Tennessee, Knoxville	Master's Thesis, University of Tennessee, 2008	LEX810/ FDAS765	Carbon
Vehoff et al.	01/12/2007	Mechanical Properties of Spider Dragline Silk: Humidity, Hysteresis, and Relaxation	University of Göttingen	Biophysical Journal, Volume 93, Issue 12, P4425-4432, December 15, 2007	LEX810	Spider Silk