Jan Ivens

List of Publications by Year
in descending order

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54 papers	3,993 citations	279778 23 h-index	175241 52 g-index
54 all docs	54 docs citations	54 times ranked	3594 citing authors

#	Article	IF	Citations
1	Natural fibres: can they replace glass in fibre reinforced plastics?. Composites Science and Technology, 2003, 63, 1259-1264.	7.8	2,165
2	Influence of processing and chemical treatment of flax fibres on their composites. Composites Science and Technology, 2003, 63, 1241-1246.	7.8	411
3	Bamboo fibres for reinforcement in composite materials: Strength Weibull analysis. Composites Part A: Applied Science and Manufacturing, 2014, 61, 115-125.	7.6	107
4	Interlaminar fracture toughness of CFRP influenced by fibre surface treatment: Part 1. Experimental results. Composites Science and Technology, 1995, 54, 133-145.	7.8	105
5	Production and characterization of bamboo and flax fiber reinforced polylactic acid filaments for fused deposition modeling (FDM). Polymer Composites, 2019, 40, 1951-1963.	4.6	87
6	A three-dimensional micromechanical analysis of woven-fabric composites: I. Geometric analysis. Composites Science and Technology, 1996, 56, 1303-1315.	7.8	82
7	Mechanical properties of composite panels based on woven sandwich-fabric preforms. Composites Part A: Applied Science and Manufacturing, 2000, 31, 671-680.	7.6	79
8	A three-dimensional micromechanical analysis of woven-fabric composites: II. Elastic analysis. Composites Science and Technology, 1996, 56, 1317-1327.	7.8	74
9	Determination of the optimal flax fibre preparation for use in unidirectional flaxâ€“epoxy composites. Journal of Reinforced Plastics and Composites, 2014, 33, 493-502.	3.1	68
10	The fatigue behaviour and damage development of 3D woven sandwich composites. Composite Structures, 1998, 43, 35-45.	5.8	51
11	In-depth study of the microstructure of bamboo fibres and their relation to the mechanical properties. Journal of Reinforced Plastics and Composites, 2018, 37, 1099-1113.	3.1	45
12	Micro-Stress Analysis of Woven Fabric Composites by Multilevel Decomposition. Journal of Composite Materials, 1998, 32, 623-651.	2.4	42
13	Enzymatic treatment of flax for use in composites. Biotechnology Reports (Amsterdam, Netherlands), 2018, 20, e00294.	4.4	38
14	Evaluation of the head-helmet sliding properties in an impact test. Journal of Biomechanics, 2018, 75, 28-34.	2.1	37
15	Structural and mechanical characterisation of bridging veins: A review. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 222-240.	3.1	35
16	Deformation response of EPS foam under combined compression-shear loading. Part I: Experimental design and quasi-static tests. International Journal of Mechanical Sciences, 2018, 144, 480-489.	6.7	33
17	Digital image correlation as a strain measurement technique for fibre tensile tests. Composites Part A: Applied Science and Manufacturing, 2017, 99, 76-83.	7.6	31
18	Low velocity impact characteristics of 3D integrated core sandwich composites. Textile Reseach Journal, 2012, 82, 945-962.	2.2	30

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19	The Physical and Antimicrobial Effects of Microwave Heating and Alcohol Immersion on Catheters that Are Reused for Clean Intermittent Catheterisation. European Urology, 2004, 46, 641-646.	1.9	29
20	Interlaminar fracture toughness of CFRP influenced by fibre surface treatment: Part 2. Modelling of the interface effect. Composites Science and Technology, 1995, 54, 147-159.	7.8	28
21	Static behavior of three-dimensional Ä±ntegrated core sandwich composites subjected to three-point bending. Journal of Reinforced Plastics and Composites, 2013, 32, 664-678.	3.1	27
22	European bamboo fibres for composites applications, study on the seasonal influence. Industrial Crops and Products, 2019, 133, 304-316.	5.2	26
23	Effect of polymer foam anisotropy on energy absorption during combined shear-compression loading. Journal of Cellular Plastics, 2018, 54, 597-613.	2.4	25
24	Sorption behaviour of bamboo fibre reinforced composites, why do they retain their properties?. Composites Part A: Applied Science and Manufacturing, 2019, 119, 48-60.	7.6	25
25	Discontinuities as a way to influence the failure mechanisms and tensile performance of hybrid carbon fiber/self-reinforced polypropylene composites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 354-365.	7.6	24
26	Deformation response of EPS foam under combined compression-shear loading. Part II: High strain rate dynamic tests. International Journal of Mechanical Sciences, 2018, 145, 9-23.	6.7	22
27	Effect of enzymatic treatment of flax on fineness of fibers and mechanical performance of composites. Composites Part A: Applied Science and Manufacturing, 2019, 123, 190-199.	7.6	20
28	Bamboo fibres sourced from three global locations: A microstructural, mechanical and chemical composition study. Journal of Reinforced Plastics and Composites, 2019, 38, 397-412.	3.1	20
29	Quasi-static behavior of three-dimensional integrated core sandwich composites under compression loading. Journal of Reinforced Plastics and Composites, 2013, 32, 289-299.	3.1	19
30	Anisotropic polyethersulfone foam for bicycle helmet liners to reduce rotational acceleration during oblique impact. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 851-861.	1.8	17
31	One-shot production of large-scale 3D woven fabrics with integrated prismatic shaped cavities and their applications. Materials and Design, 2019, 165, 107578.	7.0	17
32	Effect of enzymatic treatment of flax on chemical composition and the extent of fiber separation. BioResources, 2019, 14, 3012-3030.	1.0	17
33	Localization of carbon nanotubes in resin rich zones of a woven composite linked to the dispersion state. Nanocomposites, 2015, 1, 204-213.	4.2	15
34	Methodology of dry and wet compressibility measurement. Composites Part A: Applied Science and Manufacturing, 2020, 128, 105672.	7.6	15
35	Novel Composite Foam Concept for Head Protection in Oblique Impacts. Advanced Engineering Materials, 2017, 19, 1700059.	3.5	13
36	On the assessment of bridging vein rupture associated acute subdural hematoma through finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 530-539.	1.6	12

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37	Designing safer composite helmets to reduce rotational accelerations during oblique impacts. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 479-491.	1.8	12
38	Split-disk test with 3D Digital Image Correlation strain measurement for filament wound composites. Composite Structures, 2021, 263, 113686.	5.8	11
39	Characterization of the Tensile Behavior of Expanded Polystyrene Foam as a Function of Density and Strain Rate. Advanced Engineering Materials, 2020, 22, 2000794.	3.5	10
40	Characterization of cork and cork agglomerates under compressive loads by means of energy absorption diagrams. European Journal of Wood and Wood Products, 2021, 79, 719-731.	2.9	9
41	Digital Image Correlation for On-Line Wall Thickness Measurements in Thick Gauge Thermoforming. Key Engineering Materials, 0, 554-557, 1583-1591.	0.4	8
42	Flax treatment with strategic enzyme combinations: Effect on fiber fineness and mechanical properties of composites. Journal of Reinforced Plastics and Composites, 2020, 39, 231-245.	3.1	8
43	Interfaces in polymer matrix composites from micromechanical tests to macromechanical properties. Makromolekulare Chemie Macromolecular Symposia, 1993, 75, 85-98.	0.6	7
44	Flax treatment with strategic enzyme combinations: Effect on chemical fiber composition and ease of fiber extraction. Biotechnology Reports (Amsterdam, Netherlands), 2019, 23, e00358.	4.4	6
45	The effect of the scalp on the effectiveness of bicycle helmets' anti-rotational acceleration technologies. Traffic Injury Prevention, 2021, 22, 51-56.	1.4	6
46	Optimization of Composite Foam Concept for Protective Helmets to Mitigate Rotational Acceleration of the Head in Oblique Impacts: A Parametric Study. Advanced Engineering Materials, 2018, 20, 1700443.	3.5	5
47	Experimental study of natural cork and cork agglomerates as a substitute for expanded polystyrene foams under compressive loads. Wood Science and Technology, 2021, 55, 419-443.	3.2	5
48	Benchmarking of depth of field for large out-of-plane deformations with single camera digital image correlation. Optics and Lasers in Engineering, 2017, 91, 134-143.	3.8	4
49	Interfacial Effects on the Mechanical Properties of Glass/Phenolic Composites. Advanced Composites Letters, 1999, 8, 096369359900800.	1.3	3
50	Decoupling shear and compression properties in composite polymer foams by introducing anisotropy at macro level. Journal of Reinforced Plastics and Composites, 2018, 37, 657-667.	3.1	3
51	Analysis of the capability of cork and cork agglomerates to absorb multiple compressive quasi-static loading cycles. European Journal of Wood and Wood Products, 2021, 79, 1195.	2.9	2
52	Deformation of EPS Foam Under Combined Compression-Shear Loading: Experimental and Computational Analysis. EPJ Web of Conferences, 2018, 183, 01009.	0.3	1
53	Machine compliance in compression tests. AIP Conference Proceedings, 2018, , .	0.4	1
54	Evaluation of the Extraction Efficiency of Enzymatically Treated Flax Fibers. , 2018, , 37-49.		1