

Thomas G Gries

List of Publications by Year in descending order

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papers

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all docs

390
docs citations

390
times ranked

4531
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional performance of Ti ₂ AlC MAX phase/2D braided alumina fiber laminates. Journal of the American Ceramic Society, 2022, 105, 120-130.	3.8	3
2	Development of Polymeric Textile Reinforced Concrete Structural Members. RILEM Bookseries, 2022, , 845-854.	0.4	0
3	3D Knitted Preforms Using Large Circular Weft Knitting Machines. Applied Composite Materials, 2022, 29, 273-288.	2.5	2
4	Hemp From Disordered Lines for New Staple Fibre Yarns and High-Performance Composite Applications. Frontiers in Materials, 2022, 8, .	2.4	6
5	Monitoring the Remodeling of Biohybrid Tissue-Engineered Vascular Grafts by Multimodal Molecular Imaging. Advanced Science, 2022, 9, e2105783.	11.2	10
6	Bismuth oxybromide/reduced graphene oxide heterostructure sensitized with Zn-tetracarboxyphthalocyanine as a highly efficient photocatalyst for the degradation of Orange II and phenol. Journal of Environmental Chemical Engineering, 2022, 10, 107332.	6.7	22
7	Melt-Spun, Cross-Section Modified Polycaprolactone Fibers for Use in Tendon and Ligament Tissue Engineering. Fibers, 2022, 10, 23.	4.0	5
8	4D-textiles: development of bistable textile structures using rapid prototyping and the bionic approach. Rapid Prototyping Journal, 2022, 28, 1589-1597.	3.2	3
9	Damping Properties of Hybrid Composites Made from Carbon, Vectran, Aramid and Cellulose Fibers. Journal of Composites Science, 2022, 6, 13.	3.0	6
10	Preparation of Hollow Fiber Membranes Based On Poly(4-methyl-1-pentene) for Gas Separation. Fibers, 2022, 10, 1.	4.0	6
11	Designing 3D Membrane Modules for Gas Separation Based on Hollow Fibers from Poly(4-methyl-1-pentene). Membranes, 2022, 12, 36.	3.0	7
12	Aachen Technology Overview of 3D Textile Materials and Recent Innovation and Applications. Applied Composite Materials, 2022, 29, 43-64.	2.5	9
13	A Study of the Mechanical Response of Nonwovens Excited by Plate Vibration. Applied Mechanics, 2022, 3, 496-516.	1.5	3
14	Customized Woven Carbon Fiber Electrodes for Bioelectrochemical Systems- A Study of Structural Parameters. Frontiers in Chemical Engineering, 2022, 4, .	2.7	1
15	A review of polyethylene-based carbon fiber manufacturing. , 2022, 1, .		12
16	Novel Elastic Threads for Intestinal Anastomoses: Feasibility and Mechanical Evaluation in a Porcine and Rabbit Model. International Journal of Molecular Sciences, 2022, 23, 5389.	4.1	1
17	Review- Human-Body Powered Biosensing Textiles: Body-Power Generating Wearables Based on Textiles for Human Biomonitoring. Journal of the Electrochemical Society, 2022, 169, 067502.	2.9	2
18	Manufacturing, characterization, and degradation of a poly(lactic acid) warp-knitted spacer fabric scaffold as a candidate for tissue engineering applications. Biomaterials Science, 2022, 10, 3793-3807.	5.4	6

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19	Ultra-Fine Polyethylene Hernia Meshes Improve Biocompatibility and Reduce Intraperitoneal Adhesions in IPOM Position in Animal Models. Biomedicines, 2022, 10, 1294.	3.2	2
20	A Framework for the Classification of Human-Robot Interactions Within the Internet of Production. Lecture Notes in Computer Science, 2022, , 427-454.	1.3	3
21	4D textiles: Materials, processes, and future applications. , 2022, , 229-249.		0
22	Costs and Benefits of a Market-Based Model of Ideological Choice: Responding to Consumers and Critics. Psychological Inquiry, 2022, 33, 123-137.	0.9	0
23	The Market for Belief Systems: A Formal Model of Ideological Choice. Psychological Inquiry, 2022, 33, 65-83.	0.9	10
24	Experimental and numerical studies of process variabilities in biaxial carbon fiber braids. International Journal of Material Forming, 2021, 14, 39-54.	2.0	12
25	Melt spinning and characterization of hollow fibers from poly(4-methylpentene). Journal of Applied Polymer Science, 2021, 138, 49630.	2.6	11
26	Model-based predictive brake control during weft insertion in air-jet weaving. International Journal of Production Research, 2021, 59, 4090-4107.	7.5	1
27	Assessing hyperthermia performance of hybrid textile filaments: The impact of different heating agents. Journal of Magnetism and Magnetic Materials, 2021, 519, 167486.	2.3	4
28	Cross-section modified and highly elastic sutures reduce tissue incision and show comparable biocompatibility: in vitro and in vivo evaluation of novel thermoplastic urethane surgical threads. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 693-702.	3.4	6
29	Mehrwert durch Verknüpfung von Produkt- und Prozessdaten am Beispiel einer textilen Prozesskette. , 2021, , 349-363.		0
30	Commingled composites. , 2021, , 439-460.		3
31	Estimating the Probability Density Function of New Fabrics for Fabric Anomaly Detection. , 2021, , .		2
32	4D Textiles Made by Additive Manufacturing on Pre-Stressed Textiles – An Overview. Actuators, 2021, 10, 31.	2.3	34
33	Numerical Analysis of Filament Wound Cylindrical Composite Pressure Vessels Accounting for Variable Dome Contour. Journal of Composites Science, 2021, 5, 56.	3.0	16
34	Nanomagnetic Actuation of Hybrid Stents for Hyperthermia Treatment of Hollow Organ Tumors. Nanomaterials, 2021, 11, 618.	4.1	14
35	Structural Analysis of Melt-Spun Polymer-Optical Poly(Methyl Methacrylate) Fibres by Small-Angle X-ray Scattering and Monte-Carlo Simulation. Polymers, 2021, 13, 779.	4.5	1
36	Analysis of Fibre Cross-Coupling Mechanisms in Fibre-Optical Force Sensors. Sensors, 2021, 21, 2402.	3.8	3

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37	Monitoring capabilities of various smart self sensory carbon-based textiles to detect water infiltration. Journal of Intelligent Material Systems and Structures, 2021, 32, 2566-2581.	2.5	10
38	Investigation of structural properties of melt-spun graded-index polymer optical fibers made from PMMA. , 2021, , .		0
39	Innovation in 3D Braiding Technology and Its Applications. Textiles, 2021, 1, 185-205.	4.1	12
40	Extreme Events, Entrepreneurial Start-Ups, and Innovation: Theoretical Conjectures. Economics of Disasters and Climate Change, 2021, 5, 329-353.	2.2	5
41	Human Digital Shadow: Data-based Modeling of Users and Usage in the Internet of Production. , 2021, , .		21
42	Distributed parameter modeling and model predictive control of weft insertion in air-jet weaving. Automatisierungstechnik, 2021, 69, 695-707.	0.8	0
43	Investigating the feasibility of using carbon fiber tapes as reinforcement for 3D concrete printing. Civil Engineering Design, 2021, 3, 136-142.	1.9	0
44	Innovative Textiles Used in Face Masks: Filtration Efficiency and Self-Disinfecting Properties against Coronaviruses. Nanomaterials, 2021, 11, 2088.	4.1	5
45	An Overview on Methods for Producing Side-Emitting Polymer Optical Fibers. Textiles, 2021, 1, 337-360.	4.1	13
46	Faserschonende Carbonfaserproduktion durch innovatives Galetten-Oberflächen-Design - CarboGerd. Tribologie Und Schmierungstechnik, 2021, 68, .	0.1	0
47	Gas separating hollow fibres from Poly(4-methyl-1-pentene): A new development. Separation and Purification Technology, 2021, 278, 119534.	7.9	5
48	Metal fiber reinforced composites. , 2021, , 479-513.		6
49	Experimental Investigation of Mechanical Properties of Smart Textile Reinforced Concrete Pipes. RILEM Bookseries, 2021, , 991-1000.	0.4	1
50	Process Chain Development for the Fabrication of Three-Dimensional Braided Oxide Ceramic Matrix Composites. Materials, 2021, 14, 6338.	2.9	4
51	Novel Low-Twist Bast Fibre Yarns from Flax Tow for High-Performance Composite Applications. Materials, 2021, 14, 105.	2.9	11
52	â€œPay for It Heavilyâ€™: Does U.S. Support for Israel Lead to Anti-American Terrorism?. Defence and Peace Economics, 2020, 31, 160-176.	1.9	1
53	Influence of transcrystalline layer on finite element mesoscale modeling of polyamide 6 based single polymer laminate composites. Composite Structures, 2020, 232, 111555.	5.8	4
54	Application prospects of dense gas separation hollow fibers based on poly(4-methyl-1-pentene). Chemical Papers, 2020, 74, 1917-1921.	2.2	6

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55	Poly(4-methyl-1-pentene) as a semicrystalline polymeric matrix for gas separating membranes. Journal of Membrane Science, 2020, 598, 117754.	8.2	25
56	Investigation of surface modification and volume content of glass and carbon fibres from fibre reinforced polymer waste for reinforcing concrete. Journal of Hazardous Materials, 2020, 390, 121797.	12.4	33
57	Sustainable composites: Processing of coir fibres and application in hybrid-fibre composites. Journal of Composite Materials, 2020, 54, 1947-1960.	2.4	13
58	Long-Term Bonding and Tensile Strengths of Carbon Textile Reinforced Mortar. Materials, 2020, 13, 4485.	2.9	4
59	Increasing the sustainability of composite manufacturing processes by using algorithm-based optimisation and evaluation for process chain design. International Journal of Sustainable Manufacturing, 2020, 4, 350.	0.3	6
60	Heterostructured g-CN/TiO ₂ Photocatalysts Prepared by Thermolysis of g-CN/MIL-125(Ti) Composites for Efficient Pollutant Degradation and Hydrogen Production. Nanomaterials, 2020, 10, 1387.	4.1	27
61	Warp-Knitted Spacer Fabrics: A Versatile Platform to Generate Fiber-Reinforced Hydrogels for 3D Tissue Engineering. Materials, 2020, 13, 3518.	2.9	11
62	Fiber Cross-Coupling Mechanisms in Optical Pressure Sensor Arrays. , 2020, , .		0
63	Experimental analysis of the mechanical properties of concrete using alternative binding agents. Civil Engineering Design, 2020, 2, 177-181.	1.9	0
64	Accurate Stitch Position Identification of Sewn Threads in Textiles. , 2020, , .		1
65	Experiencing the potential of closed-loop PLM systems enabled by Industrial Internet of Things. Procedia Manufacturing, 2020, 45, 177-182.	1.9	8
66	Self-learning Expert Systems in Textile Technology: Development of a Socio-Technical Approach. Procedia Manufacturing, 2020, 45, 429-435.	1.9	2
67	Mutual Effect of Textile Binding and Coating on the Structural Performance of TRC Beams. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	17
68	Heterostructured thin LaFeO ₃ /g-C ₃ N ₄ films for efficient photoelectrochemical hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 17468-17479.	7.1	42
69	Renal Blood Monitoring System Using Bio-impedance Measurement:Pilot Study. , 2020, , .		1
70	Incorporating crystallinity distributions into a thermo-mechanically coupled constitutive model for semi-crystalline polymers. International Journal of Plasticity, 2020, 135, 102751.	8.8	30
71	Bioimpedance Spectroscopy for the Postmastectomy Lymphedema Diagnostics. , 2020, , .		0
72	Automated Segmentation of Profiled Fibers in cross-sectional Micrographs for Quality Control. , 2020, , .		1

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73	Adsorption and superficial transport of oil on biological and bionic superhydrophobic surfaces: a novel technique for water separation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190447.	3.4	16
74	Getting Small Medium Enterprises started on Industry 4.0 using retrofitting solutions. Procedia Manufacturing, 2020, 45, 208-214.	1.9	16
75	Textile Multitouch Force-Sensor Array Based on Circular and Non-Circular Polymer Optical Fibers. IEEE Sensors Journal, 2020, 20, 7548-7555.	4.7	10
76	Combination of the Experimental and Theoretical Approaches for the Estimation of the C1-C4 Alkane Permeability Parameters in Poly (4-Methyl-2-Pentyne) and Poly (4-Methyl-1-Pentene). Applied Sciences (Switzerland), 2020, 10, 1735.	2.5	3
77	Potential for the Integration of Continuous Fiber-Based Reinforcements in Digital Concrete Production. RILEM Bookseries, 2020, , 701-711.	0.4	6
78	Data-driven local polynomial for the trend and its derivatives in economic time series. Journal of Nonparametric Statistics, 2020, 32, 510-533.	0.9	3
79	Graphitic carbon nitride/SmFeO ₃ composite Z-scheme photocatalyst with high visible light activity. Nanotechnology, 2020, 31, 465704.	2.6	32
80	Lichtleitende Polymerfasern. Konstruktion, 2020, 72, IW8-IW11.	0.0	1
81	Möglichkeiten und Grenzen multimodaler Kommunikation bei technischen Innovationen am Beispiel eines interdisziplinären Forschungsprojektes im Bereich Textiltechnik. , 2020, , 253-265.		0
82	A Research Framework for Human Aspects in the Internet of Production – An Intra-company Perspective. Advances in Intelligent Systems and Computing, 2020, , 3-17.	0.6	5
83	Textil 4.0. , 2020, , 603-617.		1
84	Systematic investigation of a modified melt spinning manufacturing parameters on the structural properties of graded index polymer optical fibers. , 2020, , .		0
85	Stability of basalt-fibres reinforcement in alkali-activated systems. Materiali in Tehnologije, 2020, 54, 203-210.	0.5	1
86	Estimation of Strength of Composites Reinforced with Woven Preform. Fibre Chemistry, 2019, 50, 538-542.	0.2	0
87	Textile Touch-Sensor Array based on Circular and Non-Circular Polymer Optical Fibers. , 2019, , .		0
88	Directed Illumination by Side-Emitting Fibers With Trilobal Cross Section. Journal of Lightwave Technology, 2019, 37, 5714-5721.	4.6	3
89	Controlling surface morphology by nanocrystalline/amorphous competitive self-phase separation in thin films: Thickness-modulated reflectance and interference phenomena. Acta Materialia, 2019, 181, 78-86.	7.9	11
90	Rational Selection of Carbon Fiber Properties for High-Performance Textile Electrodes in Bioelectrochemical Systems. Frontiers in Energy Research, 2019, 7, .	2.3	10

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91	Smart Stimuli-Responsive Polylactic Acid-Hydrogel Fibers Produced via Electrospinning. <i>Fibers and Polymers</i> , 2019, 20, 1857-1868.	2.1	11
92	Core/shell rGO/BiOBr particles with visible photocatalytic activity towards water pollutants. <i>Applied Surface Science</i> , 2019, 490, 580-591.	6.1	55
93	Secular stagnation? Is there statistical evidence of an unprecedented, systematic decline in growth?. <i>Economics Letters</i> , 2019, 181, 47-50.	1.9	8
94	Polymer fiber-based biocomposites for medical sensing applications. , 2019, , 57-88.		5
95	Poster. <i>Biomedizinische Technik</i> , 2019, 64, 75-155.	0.8	0
96	Utilization of basalt fabrics as reinforcement for alkali-activated blast furnace slag systems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 583, 012012.	0.6	0
97	Model Predictive Control of the Weft Insertion in Air-jet Weaving. <i>IFAC-PapersOnLine</i> , 2019, 52, 630-635.	0.9	6
98	Improved biocompatibility of profiled sutures through lower macrophages adhesion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1772-1778.	3.4	10
99	Growth Trends and Systematic Patterns of Booms and Busts—Testing 200 Years of Business Cycle Dynamics. <i>Oxford Bulletin of Economics and Statistics</i> , 2019, 81, 62-78.	1.7	7
100	One pot synthesis of bismuth oxide/graphitic carbon nitride composites with high photocatalytic activity. <i>Molecular Catalysis</i> , 2019, 463, 110-118.	2.0	39
101	Finite element modeling to predict the steady-state structural behavior of 4D textiles. <i>Textile Research Journal</i> , 2019, 89, 3484-3498.	2.2	13
102	Economic Retirement Age and Lifelong Learning: A Theoretical Model With Heterogeneous Labor, Biased Technical Change and International Sourcing. <i>German Economic Review</i> , 2019, 20, 129-170.	1.1	6
103	Design framework for model-based self-optimizing manufacturing systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 519-528.	3.0	15
104	New Age Advanced Smart Water Pipe Systems Using Textile Reinforced Concrete. <i>Procedia Manufacturing</i> , 2018, 21, 376-383.	1.9	8
105	Application of robotics in garment manufacturing. , 2018, , 179-197.		10
106	Interaction of textile variability and flow channel distribution systems on flow front progression in the RTM process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 106, 70-81.	7.6	14
107	Effect of coating type on the mechanical performance of warp-knitted fabrics and cement-based composites. <i>Journal of Composite Materials</i> , 2018, 52, 2563-2576.	2.4	17
108	Electro-spun Membranes as Scaffolds for Human Corneal Endothelial Cells. <i>Current Eye Research</i> , 2018, 43, 1-11.	1.5	52

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109	Electro-spun PLA-PEG-yarns for tissue engineering applications. Biomedizinische Technik, 2018, 63, 231-243.	0.8	13
110	Effect of Vibration Mechanism Operating Conditions on the Structure of a Braided Preform. Fibre Chemistry, 2018, 49, 330-333.	0.2	4
111	Fabrication and analysis of side-emitting poly(methyl methacrylate) fibres with non-circular cross-sections. Polymer International, 2018, 67, 1170-1178.	3.1	4
112	An averaging based hyperelastic modeling and experimental analysis of non-crimp fabrics. International Journal of Solids and Structures, 2018, 154, 43-54.	2.7	10
113	Design of Tailored Non-Crimp Fabrics Based on Stitching Geometry. Applied Composite Materials, 2018, 25, 113-127.	2.5	16
114	4D Textiles: Hybrid Textile Structures that Can Change Structural Form with Time by 3D Printing. , 2018, , 189-201.		19
115	Geometrical analysis of woven fabric microstructure based on micron-resolution computed tomography data. Applied Composite Materials, 2018, 25, 399-413.	2.5	8
116	Shear and drape behavior of non-crimp fabrics based on stitching geometry. International Journal of Material Forming, 2018, 11, 593-605.	2.0	11
117	Influence of process induced defects for biaxial carbon fiber braids. IOP Conference Series: Materials Science and Engineering, 2018, 406, 012047.	0.6	1
118	Innovative ecological agricultural textiles*. International Polymer Science and Technology, 2018, 45, 291-296.	0.1	1
119	Micro-scale model for a multi-scale modeling approach of thermoplastic fiber reinforced polymers. IOP Conference Series: Materials Science and Engineering, 2018, 406, 012049.	0.6	1
120	Mechanical and tribological properties of a novel hydrogel composite reinforced by three-dimensional woven textiles as a functional synthetic cartilage. Composites Part A: Applied Science and Manufacturing, 2018, 115, 123-133.	7.6	22
121	Fracture behavior of adhesively bonded carbon fabric composite plates with nano materials filled polymer matrix under DCB, ENF and SLS tests. Engineering Fracture Mechanics, 2018, 202, 275-287.	4.3	20
122	On the separation and recycling behaviour of textile reinforced concrete: an experimental study. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	11
123	Growth of ZnO Nanorods on Graphitic Carbon Nitride gCN Sheets for the Preparation of Photocatalysts with High Visible-Light Activity. ChemCatChem, 2018, 10, 4973-4983.	3.7	76
124	Development of a Polymer-Based Biodegradable Neurovascular Stent Prototype: A Preliminary In Vitro and In Vivo Study. Macromolecular Bioscience, 2018, 18, e1700292.	4.1	13
125	Copper octacarboxyphthalocyanine as sensitizer of graphitic carbon nitride for efficient dye degradation under visible light irradiation. Applied Catalysis A: General, 2018, 563, 127-136.	4.3	30
126	Automation in material handling. , 2018, , 165-177.		3

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127	Automation in quality monitoring of fabrics and garment seams. , 2018, , 353-376.		5
128	Fabrics for reinforcement of engineering composites. , 2018, , 489-512.		1
129	Automation in production of yarns, woven, and knitted fabrics —. , 2018, , 49-74.		2
130	Adaptronische Funktionselemente. , 2018, , 129-164.		0
131	Fully Automatic Faulty Weft Thread Detection using a Camera System and Feature-based Pattern Recognition. , 2018, , .		2
132	Noncircular side-emitting fibres for directed lighting. , 2018, , .		0
133	Characterization of shear behavior of warp-knitted fabrics applied to composite reinforcement. Journal of the Textile Institute, 2017, 108, 89-94.	1.9	7
134	Effect of nanomaterial on mode I and mode II interlaminar fracture toughness of woven carbon fabric reinforced polymer composites. Engineering Fracture Mechanics, 2017, 180, 73-86.	4.3	104
135	Improved electrical conductivity of NCF-reinforced CFRP for higher damage resistance to lightning strike. Composites Part A: Applied Science and Manufacturing, 2017, 100, 352-360.	7.6	47
136	Sensing capabilities of carbon based TRC beam from slack to pull-out mechanism. Composite Structures, 2017, 181, 294-305.	5.8	15
137	Towards Accepted Smart Interactive Textiles. Lecture Notes in Computer Science, 2017, , 279-298.	1.3	6
138	Integration of the vertical warp stop motion positioning in the model-based self-optimization of the weaving process. International Journal of Advanced Manufacturing Technology, 2017, 90, 3619-3632.	3.0	4
139	Process analysis of an in store production of knitted clothing. IOP Conference Series: Materials Science and Engineering, 2017, 254, 202001.	0.6	0
140	Combining material and structural elasticity — An approach to enhanced compliance of small-calibre vascular grafts. IOP Conference Series: Materials Science and Engineering, 2017, 254, 062007.	0.6	2
141	Influence of the fabric construction parameters and roving type on the tensile property retention of high-performance rovings in warp-knitted reinforced fabrics and cement-based composites. Journal of Industrial Textiles, 2017, 47, 453-471.	2.4	21
142	Cost efficient carbon fibre reinforced thermoplastics with in-situ polymerization of polyamide. IOP Conference Series: Materials Science and Engineering, 2017, 254, 042019.	0.6	0
143	3D knitting using large circular knitting machines. IOP Conference Series: Materials Science and Engineering, 2017, 254, 092004.	0.6	7
144	CNTs in polymer melt: The influence on dispersion by sonication. IOP Conference Series: Materials Science and Engineering, 2017, 254, 032001.	0.6	1

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145	Development of glass fibre reinforced composites using microwave heating technology. IOP Conference Series: Materials Science and Engineering, 2017, 254, 042020.	0.6	0
146	Micro and macro crack sensing in TRC beam under cyclic loading. Journal of Mechanics of Materials and Structures, 2017, 12, 579-601.	0.6	19
147	Wet spinning PAN-fibres from aqueous solutions of ZnCl ₂ and NaSCN. IOP Conference Series: Materials Science and Engineering, 2017, 254, 082016.	0.6	3
148	Development of PLA hybrid yarns for biobased self-reinforced polymer composites. IOP Conference Series: Materials Science and Engineering, 2017, 254, 042016.	0.6	1
149	Introduction – why we made this book. , 2017, , 1-8.		1
150	High strength and low weight hollow carbon fibres. IOP Conference Series: Materials Science and Engineering, 2017, 254, 042017.	0.6	3
151	Optimization of process parameters during carbonization for improved carbon fibre strength. IOP Conference Series: Materials Science and Engineering, 2017, 254, 042018.	0.6	2
152	Basics of light guidance. , 2017, , 9-46.		4
153	Slow Booms and Deep Busts: 160 Years of Business Cycles in Spain. Review of Economics, 2017, 68, 153-166.	0.6	1
154	Fabrication techniques for polymer optical fibres. , 2017, , 187-199.		4
155	Industry 4.0 – How will the nonwoven production of tomorrow look like?. IOP Conference Series: Materials Science and Engineering, 2017, 254, 132001.	0.6	4
156	Polymer-optical fibre (POF) integration into textile fabric structures. , 2017, , 337-348.		11
157	Individual customizable in-store textile production. IOP Conference Series: Materials Science and Engineering, 2017, 254, 082015.	0.6	0
158	Novel Melt-Spun Polymer-Optical Poly(methyl methacrylate) Fibers Studied by Small-Angle X-ray Scattering. Polymers, 2017, 9, 60.	4.5	9
159	Development and testing of a relay nozzle concept for air-jet weaving. IOP Conference Series: Materials Science and Engineering, 2017, 254, 132003.	0.6	2
160	Overview of the POF market. , 2017, , 349-400.		6
161	Applications of polymer-optical fibres in sensor technology, lighting and further applications. , 2017, , 311-335.		6
162	The future of textile production in high wage countries. IOP Conference Series: Materials Science and Engineering, 2017, 254, 202002.	0.6	3

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163	Applying Multi-objective Optimization Algorithms to a Weaving Machine as Cyber-Physical Production System. Springer Series in Wireless Technology, 2017, , 505-517.	1.1	1
164	Self-optimizing Production Technologies. , 2017, , 745-875.		3
165	Poster session 13: Organ and patient support systems I. Biomedizinische Technik, 2017, 62, .	0.8	1
166	Analysis of the heat setting process. IOP Conference Series: Materials Science and Engineering, 2016, 141, 012018.	0.6	4
167	Manufacturing of textiles for civil engineering applications. , 2016, , 3-24.		28
168	Reduction of the Weaving Process Set-up Time through Multi-Objective Self-Optimization. Journal of Textile Science & Engineering, 2016, 6, .	0.2	1
169	Carbon rovings as strain sensors for structural health monitoring of engineering materials and structures. Journal of Strain Analysis for Engineering Design, 2016, 51, 482-492.	1.8	25
170	Reducing environmental impact in air jet weaving technology. International Journal of Clothing Science and Technology, 2016, 28, 283-292.	1.1	2
171	The entrepreneurship Beveridge curve. International Journal of Economic Theory, 2016, 12, 151-165.	0.6	0
172	Systematic development of technical textiles. IOP Conference Series: Materials Science and Engineering, 2016, 141, 012005.	0.6	0
173	Recommendation of RILEM TC 232-TDT: test methods and design of textile reinforced concrete. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4923-4927.	3.1	171
174	Weaving machine as cyber-physical production system: Multi-objective self-optimization of the weaving process. , 2016, , .		8
175	Textile Carbon Anodes for the Application of Microbial Fuel Cells for Paper Mill Wastewater Treatment. Chemie-Ingenieur-Technik, 2016, 88, 1252-1253.	0.8	0
176	Advanced fibre reinforced thermoplastic composites with reduced processing times by use of nanoscale fillers. IOP Conference Series: Materials Science and Engineering, 2016, 139, 012016.	0.6	0
177	INDUSTRIE 4.0 - Automation in weft knitting technology. IOP Conference Series: Materials Science and Engineering, 2016, 141, 012014.	0.6	17
178	Distributed cracking mechanisms in textile-reinforced concrete under high speed tensile tests. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2781-2798.	3.1	24
179	Increasing washing performance of wet-spun fibers. International Journal of Clothing Science and Technology, 2016, 28, 293-299.	1.1	2
180	Comparative low-velocity impact response of textile-reinforced concrete and steel-fiber-reinforced concrete beams. Journal of Composite Materials, 2016, 50, 2421-2431.	2.4	30

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181	Three-dimensional braiding of continuous regenerated cellulose fibres. Journal of Industrial Textiles, 2016, 45, 707-715.	2.4	7
182	Process-structure relationship of carbon/ polyphenylene sulfide commingled hybrid yarns used for thermoplastic composites. Journal of Industrial Textiles, 2016, 45, 1661-1673.	2.4	13
183	Explaining inter-provincial migration in China. Papers in Regional Science, 2016, 95, 709-732.	1.9	23
184	Carbon fiber production costing: a modular approach. Textile Research Journal, 2016, 86, 178-190.	2.2	31
185	Smart textile reinforcement with embedded stainless steel yarns for the detection of wetting and infiltration in TRC structures. Sensors and Actuators A: Physical, 2016, 243, 139-150.	4.1	13
186	Integrated self-monitoring of carbon based textile reinforced concrete beams under repeated loading in the un-cracked region. Carbon, 2016, 98, 238-249.	10.3	36
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