

Peer-Reviewed Journal Articles

- C. Andriß, A. Kenf, and S. Schmeer, "Experimental characterization and phenomenological modeling of nonlinear viscoelasticity, plasticity and damage of continuous carbon fiber-reinforced thermoplastics", *Composites, Part B, Engineering*, vol. 259, p. 110734, 2023, doi: 10.1016/j.compositesb.2023.110734
- S. Arweiler-Böllert, M. Liesegang, T. Beck, J. Jungbluth, and S. Schmeer, "Relation between interface geometry and tensile shear strength of ultrasonically welded joints", *The Journal of Materials Engineering and Performance*, vol. 32, p. 10469-10485, 2023, doi: 10.1007/s11665-023-08325-2
- C. Becker, J. Hausmann, J. Krummenacker, and N. Motsch-Eichmann, "First conclusions on damage behaviour of recycled carbon staple fibre yarn using x-ray and acoustic emission techniques", *MDPI Materials*, vol. 16, no. 13, p. 4842, 2023, doi: 10.3390/ma16134842
- Y. Chen, A. Klingler, K. Fu, and L. Ye, "3D printing and modelling of continuous carbon fibre reinforced composite grids with enhanced shear modulus", *Engineering Structures*, vol. 286, p. 116165, 2023, doi: 10.1016/j.engstruct.2023.116165
- M. Detzel, P. Mitschang, and U. Breuer, "New approach for processing recycled carbon staple fiber yarns to unidirectionally reinforced recycled carbon staple fiber tape", *MDPI Polymers Journal*, Special Issue "Manufacturing of Polymer-Matrix Composites", vol. 15, no. 23, p. 4575, 2023, doi: 10.3390/polym1523457
- M. Eckrich, P. A. Arrabiyeh, A. M. Dlugaj, and D. May, "Placement defects in thermoset-impregnated rovings deposited along curved paths", *Polymer Composites*, vol. 44, no. 6, p. 3634-3645, 2023, doi: 10.1002/pc.27350
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- G. Ferreres, S. Pérez-Rafael, A. G. Morena, T. Tzanov, and L. Gryshchuk, "Influence of enzymatically hydrophobized hemp protein on morphology and mechanical properties of bio-based polyurethane and epoxy foams", *MDPI Polymers Journal*, vol. 15, no. 17, p. 3608, 2023, doi: 10.3390/polym15173608
- J. Hausmann, S. Schmidt, and Esha, "Improved mean value-amplitude method for determination of orientation-dependent modulus of short fiber-reinforced thermoplastics", *Advanced Engineering Materials*, vol. 25, no. 12, p. 2300221, 2023, doi: 10.1002/adem.202300221
- J. Janzen and D. May, "Solid epoxy prepregs with patterned resin distribution: Influence of pattern and process parameters on part quality in vacuum-bag-only processing", *Polymer Composites*, vol. 44, no. 11, p. 8153-8167, 2023, doi: 10.1002/pc.27696
- J. Jungbluth, S. Bruns, C. Schmidt, F. Beckmann, J. Moosmann, A. Gapeeva, J. Carstensen, R. Adelung, B. Zeller-Plumhoff, and M. Gurka, "Interface failure analysis of embedded NiTi SMA wires using in situ high-resolution X-ray synchrotron tomography", *Materials Characterization*, vol. 205, p. 113345, 2023, doi: 10.1016/j.matchar.2023.113345
- M. Kaiser, M. Kunzler, and M. Gurka, "Experimentally characterization and theoretical modeling of the electro-thermomechanical coupling of unimorph Shape Memory Active Hybrid composites", *Composites Science and Technology*, vol. 242, p. 110186, 2023, doi: 10.1016/j.compscitech.2023.110186
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F. M. G. Ramírez, R. D. F. Moreira, and M. F. S. F. de Moura, “Influence of adhesive fillets on fatigue behaviour of single-strap composite repairs“, *Strain*, vol. 59, no. 5, p. 12454, 2023, doi: 10.1111/str.12454

M. Salmins and P. Mitschang, “Investigation of an optimal hot press process design for manufacturing structural polyethersulfone foams“, *Advanced Manufacturing: Polymer & Composite Sciences (AMPCS)*, vol. 9, no. 1, p. 2269021, 2023, doi: 10.1080/20550340.2023.2269021

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E. Syerko, T. Schmidt, D. May et al., “Benchmark exercise on image-based permeability determination of engineering textiles: Microscale predictions“, *Composites Part A*, vol. 167, p. 107397, 2023, doi: 10.1016/j.compositesa.2022.107397

D. G. Vyshnevsky, V. N. Ovdenko, V. A. Pavlov, L. Y. Gryshchuk, N. A. Davidenko, and A. A. Ishchenko, “New substituted pentazadienes as initiators of free-radical polymerization: synthesis, photochemical properties and perspectives for holographic media“, *Journal of Macromolecular Science, Part A*, vol. 60, no. 10, p. 717-729, 2023, doi: 10.1080/10601325.2023.2257741

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Special Publications

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F. M. González Ramírez, L. G. M. Lise, A. Baumann, F. Nowacki, I. Kunzler, and J. Hausmann. “Stacking sequence effect on the fatigue behavior of single lap shear bonded joints“, presented at the Symposium – ICAF, The International Committee on Aeronautical Fatigue and Structural Integrity, Delft, Netherlands, 2023, https://www.icafe.aero/icafe2023/proceedings/display_manuscript/31.htm

Specialized Conferences

- A. Baumann and J. Hausmann, "Correlating composite fatigue to its matrix properties", presented at the *Fatigue 2022+1*, Hiroshima, Japan, 2023.
- A. Baumann and J. Hausmann, "Effect of high energy radiation on technical polymers" presented at the *60th ISC, Ilmenau Scientific Colloquium of Technische Universität Ilmenau*, Ilmenau, 2023.
- U. Blass, T. Heydt, N. Motsch-Eichmann, J. Hausmann, "Development of a hybrid process for the production of personalized and structurally optimized 3D-printed orthoses", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.
- U. Blass, T. Heydt, N. Motsch-Eichmann, and J. Hausmann, "Development of a hybrid process for the production of personalized and structurally optimized 3D-printed ankle-foot orthoses", presented at the *WCORT, 7th Annual World Congress of Orthopaedics*, Lisbon, Portugal, 2023.
- C. Becker, N. Motsch-Eichmann, and J. Hausmann, "Mechanical performance of unidirectional rCFRP for load-bearing applications", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.
- C. Becker, N. Motsch-Eichmann, and J. Hausmann, "Influence of recycled carbon fiber (rCF) matrix interphase on mechanical properties and damage behavior", presented at the *FEMS EUROMAT 23, Materials Science and Technology in Europe Conference of Federation of European Materials Societies*, Frankfurt/Main, 2023.
- C. Becker, N. Motsch-Eichmann, and J. Hausmann, "Characterization of the damage behavior of recycled carbon fiber with x-ray and acoustic emission techniques", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.
- B. Bergmann, M. Päßler, and J. Schlimbach, "Novel process for the wet filament winding", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.
- B. Bergmann and J. Schlimbach, "Friction measurement on fibers for the filament winding", presented at the *FEMS EUROMAT 23, Materials Science and Technology in Europe Conference 2023 of Federation of European Materials Societies*, Frankfurt/Main, 2023.
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- B. Boos, H. Yagdjian, L. Mix, and M. Gurka, "Amplitude reduction analysis of guided ultrasonic waves in anisotropic composite structures with complex geometry", presented at the *Schall 23*, Wetzlar, 2023.
- P. Cabulis, U. Cabulis, M. Kirpluks, A. Bansal, M. Sanchez-Hernandez, and L. Gryshchuk, "Demonstration of the benefits of thermal insulation from renewable materials for the building industry", presented at the *RRB2023, International Conference on Renewable Resources & Biorefineries*, Riga, Latvia, 2023.
- S. Cassola, Tim Schmidt, Miro Duhovic, David May, Dinesh Natarajan, and Denis Korolev, "Machine learning assisted multiscale simulation for liquid composite molding", presented at the *Leibniz MMS Days 2023, 6th Leibniz Network Mathematical Modelling and Simulation 2023*, Potsdam, 2023.
- S. Cassola, M. Duhovic, M. Salmins, and P. Mitschang, "Simulating the hot press processing of structural thermoplastic foams", presented at the *14th European LS-DYNA Conference*, Baden-Baden, 2023.
- M. Chijiwa, M. Schäfer, P. Mitschang, and J. A. L'huillier, "The effect of temporal pulse overlaps to the morphology on stainless steel 304 by ps laser micro structuring", presented at the *LiM 2023, Lasers in Manufacturing Conference 2023*, Munich, 2023.
- A. Dlugaj, C. de Vita, P. A. Arrabiyeh, and D. May, "Characterization of sequential trial-curable off-stoichiometric amine-epoxy thermosets with ionic liquids", presented at the *11th Conference on Times of Polymers & Composites*, Ischia, Italy, 2023.
- A. Faas and D. May, "Resin transfer molding of hollow parts with in situ generation of polyurethane cores", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.

- A. Gebhard and E. Kuksa, "The role of transfer films in the transition between abrasive and adhesive wear in dry sliding of PA6-GR15 on 52100 steel", presented at the *ECOTRIB 2023*, Bari, Italy, 2023.
- L. Gryshchuk, W. Almustafa, G. Grun, and S. Grishchuk, "New bio-based polyesters for biodegradable textile, packaging and shoe applications", presented at the *ISTRBPC-2023, 6th International Conference on Biopolymers and Polymer Chemistry*, online, 2023.
- L. Gryshchuk and C. Pirro, "Possible ways for chemical recycling of cyanate ester, epoxy and polyurethane composites, properties and application of recyclates", presented at the *PolyScience2023, 3rd Global Summit on Polymer Science and Composite Materials*, Lisbon, Portugal, 2023.
- L. Gryshchuk, "Bio-based composite epoxy foams for constructive applications", presented at the *Plastics and Composites, 3rd Global Conference on Polymers*, Barcelona, Spain, 2023.
- T. Hoffmann, M. Duhovic, P. Mang, and P. Mitschang, "Decoupled electromagnetic simulation of the induction welding process of CFRTP Composites", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.
- T. Hoffmann, M. Duhovic, and P. Mitschang, "A decoupled multiphysics approach for computationally efficient continuous induction welding simulation of CFRTPs", presented at the *14th European LS-DYNA Conference*, Baden-Baden, 2023.
- N. Hudzenko, V. Grishchenko, N. Busko, and Redko, "Polyurethane hybrid composites functionalized with bio-based components", presented at the *KyivTex & Fashion, VII International Scientific-Practical Conference*, Kyiv, Ukraine, 2023.
- N. Hudzenko and L. Gryshchuk, "Bio-based hybrid non-isocyanate polyurethane (NIPU)/epoxy foams", presented at the *4th International Scientific Conference Chemical Technology and Engineering*, Lviv, Ukraine, 2023.
- J. Hüppauff, V. Nagaraj, and N. Motsch-Eichmann, "Development of an innovative thermoplastic door-surround-structure for a single aisle-aircraft", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.
- J. Hüppauff, V. Nagaraj, N. Motsch-Eichmann, and J. Hausmann, "Entwicklung einer integralen thermoplastischen Türumgebung", presented at the *DLRK2023, Deutscher Luft- und Raumfahrtkongress 2023*, Stuttgart, 2023.
- J. Hüppauff, N. Motsch-Eichmann, T. Pfaff, and J. Hausmann, "Novel structure-integrated hydrogen storage systems for aerospace and automotive applications", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.
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- M. Kaiser, M. Kunzler, and M. Gurka, "Characterization of active shape control SMAHCS under the influence of various ambient temperatures", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.
- S. T. Kaysser, C. A. Keun, M. Ritschel, S. Steffen, J. Kürsten, B. Schug, and F. Gortner, "Development of translucent and flame retardant epoxy-SMC for aircraft cabin application", presented at the *SAMPE Conference 2023, North America Society for the Advancement of Material and Process Engineering*, Seattle, Washington, USA, 2023.
- A. Klingler, B. Wetzel, and J.-K. Krüger, "Vitriimer phase transitions from the perspective of ultra-slow volume changes", presented at the *EUPOC 2023*, Bertinoro, Italy, 2023.
- D. Korolev, S. Cassola, M. Hintermüller, T. Schmidt, M. Duhovic, and D. May "Physics informed neural networks for permeability predictions of fibrous microstructures", presented at the *AIMSE 2023, 1st Conference on Artificial Intelligence in Materials Science and Engineering*, Saarbrücken, 2023.

Specialized Conferences

A. Krämer, J. Broeining, and P. Mitschang, "Investigations on the mechanical property robustness of natural fibre reinforced polymer composites (NFRPC) under varying processing conditions", presented at the *FEMS EUROMAT 23, Materials Science and Technology in Europe Conference of Federation of European Materials Societies*, Frankfurt/Main, 2023.

A. Krämer and P. Mitschang, "Development of a thermoplastic prepreg based on a partially polymerized reactive resin system", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.

J.-K. Krüger, B. Wetzel, and A. Klingler, "The topology freezing phenomenon of vitrimers as seen by static and dynamic thermo-physical properties", presented at the *ACEX2023, 16th International Conference on Advanced Computational Engineering and Experimenting*, Heraklion, Greece, 2023.

M. Kunzler, C. Queck, and M. Gurka, "4D-printing of hybrid composites integration of shape memory alloy wires on material level using SLA printing technique", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.

J. Lee, M. Duhovic, T. Allen, D. May, and P. Kelly, "Rate-dependent effects in transverse liquid composite molding manufacturing processes", presented at the *FPCM-15, 15th International Conference on Flow Processes in Composite Materials*, West Lafayette, Indiana, USA, 2023.

J. Lee, M. Duhovic, T. Allen, D. May, and P. Kelly, "Transverse liquid composite molding: Development and comparison of process models", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.

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N. Motsch-Eichmann, T. Pfaff, and U. Blass, "Lasttragende Wasserstoffspeicher für Luftfahrtanwendungen", presented at the *DLRK2023, Deutscher Luft- und Raumfahrtkongress 2023*, Stuttgart, 2023.

N. Motsch-Eichmann, T. Rief, D. May, and J. Hausmann, "Hollow fiber-reinforced structural cores for complex part manufacturing", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.

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V. Nagaraj, N. Motsch-Eichmann, and J. Hüppauff, "Advancements in thermoplastic composites for next generation aircrafts: A study on topology optimization and simulation methodologies for the design of door surrounding structures", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.

V. Nagaraj, N. Motsch-Eichmann, J. Hausmann, and D. Peeters, "Structural optimization to derive feasible and manufacturable tailored fiber placement (TFP) designs", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.

D.K. Natarajan, T. Schmidt, M. Nuske, S. Cassola, M. Duhovic, and D. May, "Data-driven emulators for microscale permeability prediction", presented at the *AIMSE 2023, 1st Conference on Artificial Intelligence in Materials Science and Engineering*, Saarbrücken, 2023.

M. Salmins and P. Mitschang, "Optimized process design for the production of bio-based rPLA organo sheets with bast fiber reinforcement", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.

J. Schlimbach, A. Nuhn, and Esha, "Hybrid injection molding for structurally parts", presented at the *AMI Reinforced Thermoplastics Conference 2023 of Applied Market Information Ltd.*, Cologne, 2023.

J. Schlimbach, "Additive manufacturing for advanced composite applications", presented at the *WCAM 2023, 9th Annual World Congress of Advanced Materials*, Tokyo, Japan, 2023.

J. Schlimbach, "FIFDM: Multi-material manufacturing for composite parts enabled by FIFDM", presented at the *WCSM 2023, World Congress of Smart Materials*, Barcelona, Spain, 2023.

T. Schmidt, D. K. Natarajan, S. Cassola, D. May, and M. Duhovic, "Machine learning for permeability determination of fibrous structures", presented at the *FPCM-15, 15th International Conference on Flow Processes in Composite Materials*, West Lafayette, Indiana, USA, 2023.

D. Schommer, M. Duhovic, T. Hoffmann, K. Schladitz, F. Gortner, D. May, J. Hausmann, and P. Mitschang, "Development of characterization and simulation methods for carbon fiber sheet molding compounds", presented at the *FPCM-15, 15th International Conference on Flow Processes in Composite Materials*, West Lafayette, Indiana, USA, 2023.

D. Schommer, M. Duhovic, D. May, J. Hausmann, H. Andrä, and K. Steiner, "A user-defined Folgar-Tucker-based fiber orientation material model for compression molding of fiber/polymer-compounds", presented at the *14th European LS-DYNA Conference*, Baden-Baden, 2023.

N. Sindhe Narayana Rao, D. Schommer, T. Rief, M. Duhovic, N. Motsch-Eichmann, and J. Hausmann, "Digital process chain for thermoplastic structural components with local unidirectional reinforcements for aerospace applications", presented at the *SE23, SAMPE Europe Conference 2023 of Society for the Advancement of Material and Process Engineering Europe*, Madrid, Spain, 2023.

N. Sindhe Narayana Rao, T. Pfaff, U. Schmitt, N. Motsch-Eichmann, and J. Hausmann, "A double-wall CFRP hydrogen storage and distribution system as a structural component in aircraft applications", presented at the *DLRK2023, Deutscher Luft- und Raumfahrtkongress 2023*, Stuttgart, 2023.

E. Syerko, T. Schmidt, K. Schladitz, D. May, C. Binetruy, L. Silva, S.V. Lomov, and S. Advani, "First insights from the second mesoscale stage of the virtual permeability benchmark on engineering textiles", presented at the *Workshop on benchmarking and standardization activities, FPCM-15, 15th International Conference on Flow Processes in Composite Materials*, West Lafayette, Indiana, USA, 2023.

M. O. Voltz, O. Zöllner, and P. Mitschang, "Methodology for characterizing the fiber print through and overall surface quality for unidirectional reinforced composites", presented at the *ICCM23, 23rd International Conference on Composite Materials*, Belfast, Northern Ireland, 2023.

S. Weidmann, T. Hoffmann, M. Duhovic, J. Weber, and P. Mitschang, "Cutting-edge joining processes for TP-FRPC and multi-material structures made of TP-FRPC and metals", presented at the *PIAE 2023, Plastics in Automotive Engineering Congress 2023 of VDI*, Mannheim, 2023.

N. Wurm, P. Frohn-Sörensen, J. Böcking, A. Faas, J. Janzen, H.-P. Hartmann, D. May, and B. Engel, "Umformverhalten faserverstärkter Thermoplasthalbzeuge beim ebenen Schwenkbiegen", presented at the *XLI. Verformungskundliches Kolloquium*, Leoben, Austria, 2023.

H. Yagdjian and M. Gurka, "Shock Response Spectrum (SRS) Analyse als alternative Methode zur Auswertung von Infrarot-Thermografie (IRT) Daten", presented at the *DACH Jahrestagung 2023*, Friedrichshafen, 2023.