

## LIST OF ALL PUBLICATIONS

Univ.Prof. Dipl.-Ing. Dr.mont Walter Friesenbichler

### 1. QUALITY ASSURED PUBLICATIONS

#### Publications in Peer-reviewed Journals

- [1] W. Friesenbichler, W. Knappe, R. Rabitsch: Injection Molding without Packing. *International Polymer Processing III* (1988) 4, S. 191-197
- [2] B. Hribernik, J. Stamberger, W. Friesenbichler: Verschleiß von Werkzeugstählen unter den Bedingungen des Spritzgießens. *International STEEL & METALS Magazine*, Vol. 27 (1989) 3, S. 180-183 und *WERKSTOFFE & KONSTRUKTION*, Vol. 3 (1989) 3, S. 308-311
- [3] P. Zipper, P. M. Abuja, A. Jánosi, E. Wrentschur, W. Geymayer, E. Ingolic, W. Friesenbichler: Comparative Wide-angle X-ray and Microscopical Studies on the Layered Structure in Injection Molded Polypropylene Disks. *Intern. Polymer Processing X* (1995) 4, S. 341-350
- [4] I. Duretek, G. R. Langecker, W. Friesenbichler: Auswirkung der Versuchsparameter auf die Meßergebnisse von p-v-T-Diagrammen für Thermoplaste und Kautschuke. *Polimery* 17 (4) (1996), S. 177-182
- [5] P. Zipper, A. Jánosi, E. Wrentschur, W. Geymayer, E. Ingolic, W. Friesenbichler, F. Eigl: Wide-angle X-ray, Densitometric and Microscopical Studies on Injection Molded Polypropylene Disks. *Intern. Polymer Processing XII* (1997) 2, S. 192-199
- [6] W. Obendrauf, G. R. Langecker, W. Friesenbichler: Temperature Measuring in Plastics Processing with Infrared Radiation Thermometers – The Influence of the Absorption Coefficient. *Intern. Polymer Processing XIII* (1998) 1, S. 71 –77
- [7] Cramer A., W. Michaeli, W. Friesenbichler, I. Duretek: Simulation des Spritzgießprozesses von Mikroteilen. *Zeitschrift Kunststofftechnik/Journal of Plastics Technology* 3 (2007) 1, *Zeitschrift Kunststofftechnik* 3 (2007) 1, archivierte, rezensierte online-Zeitschrift des WAK, [www.kunststofftech.com](http://www.kunststofftech.com), S. 1-26
- [8] Braun J., I. Duretek, U. Müller, W. Friesenbichler, A. Endesfelder: Investigations of the Rheology and Reactivity of Extrudable Wood Resin Compounds. *Monatshefte für Chemie* 138, 337–341 (2007), DOI 10.1007/s00706-007-0610-9
- [9] G.R. Berger, W.Friesenbichler, G. Schöfer, G. Freudenschuß: Demolding Forces and Coefficients of Friction in Injection Molding. A new instrumented Mold and first results, *Plastics Age*, Vol. 55, (2009) pp. 87-94
- [10] S. Laske, M. Kracalik, M. Gschweidl, M. Feuchter, G. Maier, G. Pinter, R. Thomann, W. Friesenbichler, G. Langecker: Estimation of reinforcement in compatibilized polypropylene nanocomposites by extensional rheology. *J. Appl. Polym. Sci.* 111 (5), S. 2253 – 2259. DOI: 10.1002/app.29163.
- [11] M. Kracalik, S. Laske, M. Gschweidl, W. Friesenbichler, G. Langecker: Advanced compounding: extrusion of polypropylene nanocomposites using the melt pump, *Journal of Applied Polymer Science* 113 (2009), 3, p. 1422-1428. DOI: 10.1002/app.29888.
- [12] L. Olah, W. Friesenbichler, L. Borbas: Wear of plastic mold steels under injection molding conditions, *Transactions of FAMENA XXXIII-3* (2009), pp. 15-24
- [13] G.R. Berger, W. Friesenbichler, M.Reiter, S. Jutz, G. Langecker: Hochglanzoberflächen beim Spritzgießen. Quantitative topographische Beurteilung der Formenstahl- und Kunststoffoberfläche. *MP Materials Testing* 4 (2010), Seite 211-221, Direct Link: <http://www.materialstesting.de/directlink.asp?MP110121>
- [14] D. P. Gruber, G. Berger, G. Pacher, W. Friesenbichler: Novel approach to the measurement of the visual perceptibility of sink marks on injection molding parts. *Polymer testing* (2011) 30, p. 651-656
- [15] G. Berger, D.P. Gruber, W. Friesenbichler, C. Teichert, M. Burgsteiner: Replication of Stochastic and Geometric Micro Structures. Aspects of Visual Appearance. *Intern. Pol. Processing XXVI* (2011) 3, p. 313-322
- [16] W. Friesenbichler, I. Duretek, J. Rajganesh, S. Ramesh Kumar: Measuring the pressure dependent viscosity at high shear rates using a new rheological injection mould. *Polimery* 2011, 56, Nr. 1, p. 58-62
- [17] Perko L., W. Friesenbichler, M. Fasching: Ausnutzung der Scher- und Dehnerwärmung zur Heizzeitverkürzung bei der Verarbeitung von Elastomeren. *GAK* 9 (2013) Jg. 66, S. 622-624

- [18] L. Perko, W. Friesenbichler, V. Buchebner, G. Chaloupka, and W. Obendrauf, "Elongational viscosity of rubber compounds and improving corresponding models", *Adv. Pr. Eng. Man.*, 8, 63 (2013)
- [19] M.G. Battisti, W. Friesenbichler, „Injection molding compounding of PP polymer nanocomposites”, *SV-JME Journal of Mechanical Engineering*, 2013
- [20] G.R. Berger, S. Roock, G. Steinbichler, J. Giessauf, D.P. Gruber, W. Friesenbichler. More gloss, fewer weld lines with variothermal molding. *Plastics Technology (March) 2013*, Gardner Publications.
- [21] Lucyshyn, T., Müller, F., Schuschnigg, S., Holzer, C., Perko, L., Fasching, M. & Friesenbichler, W.: Application and Development of Simulation Software in Polymer Processing. *Berg- und hüttenmännische Monatshefte: BHM*. 158, (2013), S. 200-205
- [22] Fasching, M., Berger, G., Friesenbichler, W., Filz, P., Helbich, B.: Robuste Prozessführung beim Kautschukspritzgießen unter Nutzung systematischer Simulation und verbesserter Materialdaten. *GAK Gummi Fasern Kunststoffe* 67 (2014), S. 640–644
- [23] Gruber D.P., J. Macher, D. Haba, G.R. Berger, G. Pacher, W. Friesenbichler: Measurement of the visual perceptibility of sink marks on injection molding parts by a new fast processing model, *Polymer Testing*, 33, 2014 p. 7-12
- [24] Johannes Macher, Dieter P. Gruber, Thomas Altenbuchner, Gernot A. Pacher, Gerald R. Berger, Walter Friesenbichler: A novel sink mark model for high gloss injection molded parts - Correlation of deflectometric and topographic measurements. *Polymer Testing* 39 (2014) 12-19; <http://dx.doi.org/10.1016/j.polymeresting.2014.07.001>
- [25] Macher J., D. P. Gruber, T. Altenbuchner, G.A. Pacher, G.R. Berger, W. Friesenbichler: Detection of visually perceptible sink marks on high gloss injection molded parts by phase measuring deflectometry. *Polymer Testing*, Volume 34, April 2014, Pages 42–48
- [26] Perko, L., Fasching, M., Friesenbichler, W., 2014, Model for the Prediction of Bulk Temperature Changes and Pressure Losses in Rubber Compounds Flowing Through Conical Dies: An Engineering Approach. *Pol. Eng. Sc.* (2014), DOI 10.1002/pen
- [27] Arunachalam S., Battisti, M.G., Vijayakumar C.T., Friesenbichler, W., 2015, An Investigation of Mechanical and Thermal Properties of Polypropylene Clay Nanocomposites Containing Different Nanoclays. *Macromol. Mater. Eng.* 2015, DOI: 10.1002/mame.201500107
- [28] Berger, GR, Steffel, C and Friesenbichler, W, 2015, 'A study on the role of wetting parameters on friction in injection moulding' *International Journal of Materials and Product Technology*, Bd 52, Nr. 1/2, S. 193-211.
- [29] M. Fasching, G.R. Berger, W. Friesenbichler, P. Filz, B. Helbich. Robust process control for rubber injection moulding with use of systematic simulations and improved material data. *International Polymer Science and Technology* 42 (3) 2015.
- [30] Perko, L., Friesenbichler, W., 2015, Reduction of cure time in elastomer processing. *RFP* 2/2015 – Vol. 10, 117-122
- [31] Battisti, M., Perko, L., Arunachalam, S., Stieger, S., Friesenbichler, W., 2016, Influence of Elongational Flow Generating Nozzles on Material Properties of Polypropylene Nanocomposites. Part I. *Pol. Eng. & Sc.* (2016), DOI 10.1002/pen
- [32] Friesenbichler, W, Neunhäuserer, A & Duretek, I, 2016, Rheometry of Polymer Melt using Processing Machines. *Korea-Australia Rheology Journal*, 28(3), 167-174, DOI: 10.1007/s13367-016-0016-5
- [33] Köpplmayr, T., Luger, H-J., Burzic I., Battisti, M.G., Perko, L., Friesenbichler, W., Miethlinger, J., 2015, A novel online rheometer for elongational viscosity measurement of polymer melts. *Polymer Testing* 50 (2016) 208 – 215.
- [34] Mitsoulis E., M. Battisti, A. Neunhäuserer, L. Perko, W. Friesenbichler, M. Ansari, S.G. Hatzikiriakos (2017) Flow behaviour of rubber in capillary and injection moulding dies, *Plastics, Rubber and Composites*, 46:3, 110-118, DOI: 10.1080/14658011.2017.1298207
- [35] Mitsoulis, E., Battisti, M., Neunhäuserer, A., Perko, L., Friesenbichler, W., Flow behavior of PP-polymer nanocomposites in capillary and injection molding dies, *Intern. Polymer Processing XXXII* (2017) 2, p. 217 – 226
- [36] Mitsoulis E., Battisti, M., Neunhäuserer, A., Perko, L., Friesenbichler W.: Flow behavior of PP-polymer nanocomposites in injection molding hyperbolic dies, *Advances in Polymer Technology*, DOI: 10.1002/adv.21975, 2018
- [37] E. Mitsoulis Evan, H.-J. Luger, J. Miethlinger, W. Friesenbichler: Flow Behavior of a Polypropylene Melt in Capillary Dies, *Intern. Polymer Processing XXXIII* (2018) 5

- [38] Blutmager, A., T. Schmidt, A. Pock, M. Varga, P.H. Mayrhofer, W. Friesenbichler, Abrasive/erosive wear on MMCs in plastic moulds as a function of volumetric flow rate and glass fibre distribution, *Pol. Eng. Sc.* (2018), DOI: 10.1002/pen.24952
- [39] Paramsamy Kannan Vimalathithan, Claudia Barile, Caterina Casavola, Vijayakumar C.T., Sundaresan Arunachalam, Markus Battisti, Walter Friesenbichler: Investigation on the Thermal Degradation Kinetics of Polypropylene/Organically Modified Montmorillonite Nanocomposites with Different Levels of Compatibilizer. *Macromolecular Materials and Engineering*, October 2018, DOI: 10.1002/mame.201800260
- [40] Luger Hans-Jürgen, B. Löw-Baselli, A. Neunhäuserer, W. Friesenbichler, J. Miethlinger: A novel hyperbolic slit contraction with constant strain rate for elongational rheology of polymer melts. *Polymer Testing* 73 (2018) doi: <https://doi.org/10.1016/j.polymertesting.2018.11.004>.
- [41] Berger G.R., D. Zorn, W. Friesenbichler: Efficient cooling of hot spots in injection molding. A biomimetic cooling channel versus a heat-conductive mold material and a heat conductive plastics, *Polymer Engineering and Science*, 2018, DOI: 10.1002/pen.25024
- [42] Paramsamy Kannan Vimalathithan, Claudia Barile, Caterina Casavola, Vijayakumar C.T., Sundaresan Arunachalam, Markus Battisti, Walter Friesenbichler: Thermal degradation kinetics of Polypropylene/clay nanocomposites prepared by injection moulding compounding (2019), *Journal of Polymer Composites*, DOI: 10.1002/pc.25226.
- [43] Blutmager Andreas, Thomas Spahn, Markus Varga, Walter Friesenbichler, Helmut Riedl, Paul Heinz Mayrhofer: Processing Fiber-Reinforced Polymers: Specific Wear Phenomena Caused by Filler Materials. *POLYM. ENG. SCI.*, DOI:10.1002/pen.25261, pp 78-85.
- [44] Kerschbaumer, R. C., Stieger, S., Gschwandl, M., Hutterer, T., Fasching, M., Lechner, B., Meinhart, L., Hildenbrandt, J., Schritteser, B., Fuchs, P. F., Berger-Weber, G. & Friesenbichler, W. (2019): Comparison of steady-state and transient thermal conductivity testing methods using different industrial rubber compounds. *Polymer Testing*. p. 1-8
- [45] Stieger Sebastian, Roman Christopher Kerschbaumer, Evan Mitsoulis, Michael Fasching, Gerald Roman Berger-Weber, Walter Friesenbichler, Joachim Sunder: Contraction and Capillary Flow of a Carbon Black Filled Rubber Compound. *POLYM. ENG. SCI.*, 60:32–43, 2020. <https://doi.org/10.1002/pen.25256>
- [46] Bandl, C., Kern, W., Krempel, N., Friesenbichler, W., Simple and rapid method for restoring anti-adhesive organosilane coatings on metal substrates. *Progress in organic coatings*. 2020, 140, POC\_105490
- [47] Hutterer Thomas, G. R. Berger-Weber, R. C. Kerschbaumer, W. Friesenbichler: Rubber injection molding: Applying multivariate statistics to identify quality issues solely from process signals. *Polym Eng Sci*. 2020;1–10. <https://doi.org/10.1002/pen.25604>
- [48] Gim Jinsu, Eunsu Han, Byungohk Rhee, Walter Friesenbichler, Dieter P. Gruber: Causes of the Gloss Transition Defect on High-Gloss Injection-Molded Surfaces, *Polymers* 2020, 12, 2100; doi:10.3390/polym12092100
- [49] Traintinger Martin, Roman Christopher Kerschbaumer, Bernhard Lechner, Walter Friesenbichler and Thomas Lucyshyn: Temperature Profile in Rubber Injection Molding: Application of a Recently Developed Testing Method to Improve the Process Simulation and Calculation of Curing Kinetics. *Polymers* 2021, 13(3), 380; doi:10.3390/polym13030380
- [50] Bandl Christine, Nina Krempel, Gerald Berger-Weber, Wolfgang Kern, Walter Friesenbichler (2021): Application of organosilane coatings for improved anti-adhesive properties enabling facilitated demolding in polymer processing, *J. Appl. Polym. Sci.* 2021, DOI 10.1002/app.50714
- [51] Stieger Sebastian, Mitsoulis Evan, Walluch Matthias, Ebner Catharina, Kerschbaumer Roman C., Haselmann Matthias, Mostafaiyan Mehdi, Kämpfe Markus, Kühnert Ines, Wießner Sven, Friesenbichler Walter: On the Influence of Viscoelastic Modeling in Fluid Flow Simulations of Gum Acrylonitrile Butadiene Rubber. *Polymers* 2021, 13, 2323. <https://doi.org/10.3390/polym13142323>
- [52] Blutmager A., Varga M., Cihak-Bayr U., Friesenbichler W., Mayrhofer P.H.: Wear in hard metal check valves: In-situ surface modification through tribolayer formation in dry contact. *Vacuum* (2021), doi: <https://doi.org/10.1016/j.vacuum.2021.11048>

#### **Publications in peer-reviewed Conference Proceedings**

- [1] G. R. Berger, G. A. Pacher, et al.: Influence of mold surface temperature on polymer part warpage in rapid heat cycle molding. *AIP Conference Proceedings* 1593.1 (Mai 2014), S. 189–194. url: <http://dx.doi.org/10.1063/1.4873761>, pp. 179–182.

- [2] G. A. Pacher, G. R. Berger et al.: In-Mold Sensor Concept to Calculate Process- Specific Rheological Properties. AIP Conference Proceedings 1593.1 (Mai 2014), S. 179–182. url: <http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4873759>
- [3] Friesenbichler, W., Battisti, M. G., Neunhäuserer, A.: A study on material optimization for polypropylene nanocomposites based on layered silicates using elongational flow devices. AIP Conference Proceedings 1779, 040005 (2016); doi: 10.1063/1.4965496
- [4] Schuschnigg, S., Battisti, M., Winkler-Ebner, J., Friesenbichler, W., Holzer, C., Optimization of twin screw extrusion using CFD for polymer/nanoclay composites, AIP Conference Proceedings 1779, 030002 (2016); doi: 10.1063/1.4965472
- [5] Pacher, G. A., Berger, G R., Friesenbicher, W., Gruber, D.P., Influence of rapid heat cycle molding and filler type on warpage of injection molded parts out of PP-based compounds, AIP Conference Proceedings 1779, 020005 (2016); doi: 10.1063/1.4965456
- [6] Berger, G. R., Steffel, C., Friesenbichler, W., On the use of interfacial tension parameter to predict reduction of friction by mold coatings in injection molding of polyamide 6, AIP Conference Proceedings 1779, 020006 (2016); doi: 10.1063/1.4965457
- [7] Steffel, C., Berger, G. R., Friesenbichler, W., Determination of a robust process for a union nut. Why D-optimal DoE did not solve random impact behavior? AIP Conference Proceedings 1779, 020007 (2016); doi: 10.1063/1.4965458
- [8] Fasching, M., Friesenbichler, W., Berger, G. R., Change of processing behavior of rubbers in injection molding caused by material storage, AIP Conference Proceedings 1779, 070005 (2016); doi: 10.1063/1.4965537
- [9] T. Hutterer, G. R. Berger, C. Mager, M. A. Fasching, G.A. Pacher, W. Friesenbichler (2019), Simulative and experimental investigation of rapid heat cycle molding for rubbers, AIP Conference Proceedings 2055, 080003 (2019); <https://doi.org/10.1063/1.5084877>, 22 January 2019
- [10] W. Friesenbichler, D. Zidar, A. Blutmager, T. Gebauer (2019): Influence of dissipation on abrasive wear of a powder metallurgical mold steel in plastics injection molding. Conference Proceedings of the 11th Tooling 2019 conference and exhibition, RWTH Aachen, Germany, 2019, p. 1-8
- [11] Friesenbichler Walter, S. Stieger, R. Kerschbaumer, G. Berger-Weber, A. Neunhaeuserer, E. Mitsoulis (2020): Viscoelastic Modelling of Polymer Melts and Rubber Compounds, in Hopmann C., Dahlmann R.: Advances in Polymer Processing 2020, Proceedings of the International Symposium on Plastics Technology, Springer-Verlag GmbH Germany, Book ISBN: 978-3-662-60809-8, Chapter 22, p. 1/13

## 2. OTHER PUBLICATIONS

### Publications in Non-Reviewed Journals

- [1] B. Friedrichs, W. Friesenbichler, K. Gissing: Spritzgießparameter On-Line mit dem PC messen. *Plastverarbeiter* 39 (1988) 8, S. 24-26
- [2] B. Friedrichs, W. Friesenbichler, K. Gissing: Spritzprägen dünnwandiger thermoplastischer Formteile. *Kunststoffe* 80/5 (1990), S. 583-587
- [3] B. Hribernik, W. Friesenbichler: Slijtage matrijzen bij spuitgieten vezelversterkte kunststoffen. *Metaal & Kunststof* 2 (1991), S. 16-19
- [4] W. Friesenbichler, W. Knappe, W. Pfleger: Nachdruckfreies Spritzgießen – eine Möglichkeit zur Qualitätsverbesserung. *Kunststoffe* 81/3 (1991), S. 211-219
- [5] W. Friesenbichler, M. Ebster, G. R. Langecker: Spritzprägewerkzeuge für dünnwandige Formteile richtig auslegen. *Kunststoffe* 83 (1993) 6, S. 445-448
- [6] W. Friesenbichler, G.R. Langecker: Verschleißapparat mit integrierter Messtechnik zur Messung des abrasiv/korrosiven Verschleißes an Kunststoff-Formstählen. *VLK-News* 11 (2003) 1, 37 – 41
- [7] S. Laske, M. Kracalik, M. Gschweilt, M. Feuchter, G. Maier, G. Pinter, R. Thomann, W. Friesenbichler, G.R. Langecker: Estimation of reinforcement in compatibilized polypropylene nanocomposites by extensional rheology, *VLK-News* 17. Jahrg. (2009) S. 6-8
- [8] W. Friesenbichler, M. Brunthaler, F. Altendorfer, H. Bürtlmair: Ein innovativer Ansatz für die beschleunigte Produktentwicklung von komplexen Spritzgießteilen. *Österr. Kunststoffzeitschrift* 41. Jahrg. 1/2 2010, S. 10-13
- [9] W. Friesenbichler, I. Duretek, J. Rajganesch: Praxisnahe Viskositäten für die Simulation. *Kunststoffe* 100 (2010) 3, S. 37-40

- [10] Berger, G.; Roock, S.; Steinbichler, G.; Gießauf, J.; Gruber, D. P.; Friesenbichler, W.: Больше блеска, меньше стыков (More gloss, less welding lines). - in: German Plastics Russia, 113 (2012) 7, S. 26 – 29
- [11] Berger G. R., S. Roock, G. Steinbichler, J. Giessauf, D. P. Gruber, W. Friesenbichler: More gloss, fewer weld lines with variothermal molding. Plast Technol. 01/2013; 59(3):30-35+60-62.
- [12] Friesenbichler W., T. Gröger, R. Vetschera, C. Hopmann: Kosten reduzieren durch systematische Entwicklungsprozesse, Kunststoffe 7/2013, S. 50-53
- [12] Friesenbichler W., T. Gröger, R. Vetschera, C. Hopmann: Reducing Costs through Systematic Development Processes. Kunststoffe / Kunststoffe international (2013) 103 7, p. 35-38
- [13] Guster C., Friesenbichler W., Gröger T., Mösenbacher A., Brunbauer J.: Simulation der Lebensdauer faserverstärkter Spritzgussteile. Kunststoffe (2013) 9, S. 158-161
- [13] Guster C., Friesenbichler W., Gröger T., Mösenbacher A., Brunbauer J.: Simulation the Fatigue Life of Fiber-reinforced Injection Moldings. Kunststoffe / Kunststoffe international (2013) 9, p. 92-94
- [14] Perko, L., Friesenbichler, W., 2015, Heizzeitverkürzung bei der Verarbeitung von Elastomeren, Österr. Kunststoffzeitschrift, (2015) 1/2, p. 10 – 14
- [15] Jilg Jannik, A. Neunhäuserer, E. Moritzer, W. Friesenbichler, Glasfaseragglomerate im Visier – eine Zerreißprobe. Kunststoffe 7/2018, (2018), S. 48-52
- [16] T. Hutterer, G. R. Berger-Weber, W. Friesenbichler.: Fault detection in rubber injection molding with multivariate statistics. RUBBERWORLD.COM, December 2019, p. 40-44
- [17] Krempl, N., Jilg, J., Schilp, C., Friesenbichler, W. & Moritzer, E. (2020): Die Kunst der Entformung. Kunststoffe 2/2020. p. 60 – 63
- [18] T. Hutterer, G.R. Berger-Weber, R. C. Kerschbaumer, W. Friesenbichler, A. Klutz, T. Leng, K. Mayr: Kautschukspritzgießen mit Qualitätserkennung - Automatische Prozessüberwachung mit iQ clamp control. Kunststoffe 5/2021(2021), S. 18-21

#### **Book Chapters**

- [1] Hribernik B., W. Friesenbichler, K. Finz, J. Zand, I. Jung, 1990, Werkstoffauswahl für Elastomerwerkzeuge. Das Elastomerwerkzeug, VDI-Verlag, Düsseldorf (1990), S. 1-23
- [2] Battisti M.G., W. Friesenbichler, 2014, „Injection moulding Compounding of Polymer Nanocomposites“, Book chapter 12 in “New Developments in Polymer Composites Research“, Nova Publishers New York, p. 301-323
- [3] Neunhäuserer A., S. Arunachalam, M. Battisti, W. Friesenbichler, 2017, Advances in Injection Molding of Polymer Nanocomposites; Chapter 1 in Polymer Nanocomposites, Synthesis, Applications and Research; Nova Science Publishers New York, p. 1-22

#### **Papers in Conference Proceedings**

- [1] B. Hribernik, R. Pototschnig, J. Stamberger, W. Friesenbichler, J. Kottlan: Verschleiß von metallischen Werkstoffen unter den Bedingungen des Spritzgießens. Tagungshandbuch der Härtereitechnischen Fachtagung in Suhl, DDR, am 28. bis 30. 10.1987
- [2] W. Friesenbichler: Formteileigenschaften sowie Anforderungen an Werkzeug und Maschine beim nachdruckfreien Spritzgießen. Tagungsband des 11. Leobener Kunststoff-Kolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben, (1991), S. 289-320
- [3] W. Friesenbichler, E. Leitner: Berechnung von Rohrkopfwerkzeugen mit Stegdornhalter für wandgleitende PVC-U Mischungen. Tagungsband zur Jahrestagung des Verbandes Leobener Kunststofftechniker, Montanuniversität Leoben (1992), S. 1-35
- [4] I. Duretek, W. Friesenbichler: Rheologische Messungen mit einem neuentwickelten Extrusionsrheometer. Tagungsband des 13. Leobener Kunststoff-Kolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben (1994), 28 Seiten
- [5] W. Friesenbichler: Rheologische Untersuchungen an PVC-P und PVC-U Compounds. Tagungsband des 13. Leobener Kunststoff-Kolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben (1994), 31 Seiten
- [6] W. Friesenbichler: Rheologische und thermodynamische Stoffdatenbestimmung. Tagungsband des 13. Leobener Kunststoff-Kolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben (1994), 31 Seiten

- [7] W. Friesenbichler, I. Duretek: By-Pass-Extrusionsrheometer – Einfluß der Schervorgeschichte auf die Viskosität. Tagungsband des 14. Leobener Kunststoff-Kolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben (1996), 17 Seiten
- [8] W. Obendrauf, G. R. Langecker, W. Friesenbichler: The Measuring Depth of Infrared Radiation Thermometers in Polymer Processing. Proceedings of the „Europe/Africa Regional Meeting of the Polymer Processing Society, 19.-21.8.1997, Göteborg, Schweden.
- [9] I. Duretek, W. Friesenbichler, G.R. Langecker: Rheological Measurement on the By-Pass-Extrusion Rheometer at flexible Polyvinylchloride Compound (Original in Croatian: Reoloska mjerenja savitljive poli(vinil-klorid)ne smjese premosnim ekstruzijskim viskozimetrom). Conference: Application and Processing of Plastics and Rubber, Society of Plastics and Rubber Engineers - Zagreb, Lovran, 30.9.-1.10.1998, p. 31-35
- [10] W. Friesenbichler, G.R. Langecker, G. Lichtenegger, G. Hochörtler: Wear Testing Apparatus with integrated measuring technology for measuring the abrasive/corrosive wear on steels for plastic molds. Tool Steels in the Next Century, Proceedings of the 5th International Conference on Tooling, University of Leoben, Austria, 29.9. – 1.10.1999
- [11] W. Friesenbichler: Verschleißapparatur mit integrierter Messtechnik zur Messung des abrasiv/korrosiven Verschleißes an Kunststoff-Formenstählen. Tagungsband des 15. Leobener Kunststoffkolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben (1999), S XV 1 - XV 20
- [12] G.R. Langecker, W. Peinhopf, W. Friesenbichler: Anmerkungen zum Spritzgießen glasfaserverstärkter Kunststoffe. Tagungsband des 16. Leobener Kunststoffkolloquiums, Institut für Werkstoffkunde und -prüfung der Kunststoffe, Montanuniversität Leoben (2000), S IX/1 – 23
- [13] W. Friesenbichler, G.R. Langecker, G. Lichtenegger: Wear Testing Apparatus with integrated measuring technology for measuring the abrasive/corrosive wear on steels for plastic molds. Proceedings of the 2nd World Tribology Congress, "Tribology 2001 - scientific achievements, industrial applications, future challenges" (F. Frank, W.J. Barla, A. Pauschitz, Hrsg.), Vienna, 2001
- [14] W. Friesenbichler, I. Duretek: Rheologische Charakterisierung hochgefüllter PIM-Feedstocks und Holzcompounds. Tagungsband des 17. Leobener Kunststoff-Kolloquiums, Institut für Kunststoffverarbeitung, Montanuniversität Leoben (2003), S XIX/1-XIX/24
- [15] G.R. Berger, W. Friesenbichler: Reproduzierbare Herstellung von Oberflächenstrukturen und Oberflächenqualitäten an Spritzgießteilen. VLK-News 11 (2/2003) 1, 4 – 5
- [16] Ch. Kukla: Langecker, G.; Friesenbichler, W.; Duretek, I.: Rheology of Feedstocks. Proceedings of the PIM 2004, 21.-24.3. 2004, Orlando (USA)
- [17] U. Müller, H-L. Nguyen, M. Rätzsch, I. Duretek, W. Friesenbichler: Rheological Characterization of Extrudable Wood/Melamine Resin Composites. Proceedings of the 5th Global Wood and Natural Fibre Composites Symposium, April 27 – 28, 2004 in Kassel, Germany
- [18] W. Friesenbichler, G. R. Langecker, I. Duretek, S. Schuschnigg: Polymer Melt Rheology at High Shear Rates using a new Micro-Rheology Technique. Proceedings of the 21th Annual Conference of the Polymer Processing Society, Leipzig, Germany, 2005
- [19] G.R. Berger, W. Friesenbichler, G.R. Langecker, H.M. Hödl: Characterisation of surface reproduction in the injection moulding process - variation of tool steel, surface shaping, coating, polymer and processing parameters. Proceedings of the 21th Annual Conference of the Polymer Processing Society, Leipzig, Germany, 2005
- [20] I. Duretek; Friesenbichler, W.; Schuschnigg, S.; Rajganes, J., Langecker G.R.: Study on rheological behaviour of polymer melts at high shear rates using a new micro-rheology technique. Proceedings of the Conference "The Past and the Future of Polymer Engineering, Technology, and Science", Zagreb 27.-28. April 2006, p. 117 – 130
- [21] W. Friesenbichler: Forschung für die Praxis am Institut für Kunststoffverarbeitung - Ausgewählte Beispiele aus den Arbeiten der letzten 17 Jahre. 19. Leobener Kunststoff Kolloquium - Spritzgieß- und Extrusionstechnik - Innovationen aus Industrie und Forschung. (2006), S. 1 – 36
- [22] I. Duretek, W. Friesenbichler, S. Schuschnigg, J. Rajganes: Viskositätsmessungen bei extrem hohen Schergeschwindigkeiten unter Berücksichtigung von Schererwärmung und Druckeinfluss. 19. Leobener Kunststoff Kolloquium - Spritzgieß- und Extrusionstechnik - Innovationen aus Industrie und Forschung. (2006), S. 1 – 20
- [23] G.R. Berger, D.P. Gruber, W. Friesenbichler, G.R. Langecker: Detection of Surface Structure and Appearance of Injection Molded Parts. Proceedings of the 22nd Annual Meeting of the Polymer Processing Society, PPS-22, Yamagata, Japan (2006)

- [24] W. Friesenbichler, Langecker, G.; Caliskanoglu, D.: Abrasive/corrosive Wear on Plastic Mould Steels, measured under practical conditions. Proceedings of the 7th International Tooling Conference "Tooling Materials and their applications from research to market", Politecnico di Torino, 2-5 May 2006, p. 267 – 290.
- [25] G.R. Berger, W. Friesenbichler, G.R. Langecker, B.J. Hiebler, J. Perko, D. Caliskanoglu: A new practical testing apparatus to evaluate corrosion on plastic mold steels. Proceedings of the 7th International Tooling Conference "Tooling Materials and their applications from research to market", Politecnico di Torino, 2-5 May 2006, p. 291 – 298
- [26] W. Friesenbichler, G. Berger, J. Perko: Praxisnahe Prüfmethode für die Messung des abrasiven und korrosiven Verschleißes. 19. Leobener Kunststoff Kolloquium - Spritzgieß- und Extrusionstechnik - Innovationen aus Industrie und Forschung. (2006), S. 1 – 21
- [27] Duretek, I.; Friesenbichler, W.; Schuschnigg, S.; Jegadeesan, R.; Langecker, G.: Study on rheological behaviour of polymer melts at high shear rates using a new micro-rheology technique. - in: Past and future of polymer engineering technology and science. (2006), 117 - 130
- [28] G. Berger, W. Friesenbichler, G.R. Langecker, M. Reitter, S. Jutz: Hochglanzoberflächen von Spritzgussteilen, Herstellung und Charakterisierung. 19. Leobener Kunststoff Kolloquium - Spritzgieß- und Extrusionstechnik - Innovationen aus Industrie und Forschung. (2006), S. 1 – 16
- [29] W. Friesenbichler, G. Berger, J. Perko: Abrasive/corrosive wear on plastic mold steels, measured under practical processing conditions. Proceedings of the 23th Annual Conference of the Polymer Processing Society, Salvador, Brazil, (2007), p 1-9
- [30] G. Berger, W. Friesenbichler, D.P. Gruber: Charakterisierung von Spritzgieß-Formteiloberflächen. KC-aktuell (Informationen aus dem Kunststoff-Cluster) (2007) 1/2007, S. 2 – 3
- [31] M. Kracalik, S. Laske, M. Gschweidl, M. Feuchter, G. Maier, G. Pinter, W. Friesenbichler, G.R. Langecker: Fast Determination of Reinforcement in Polymer Nanocomposites. NanoEurope 2007. (2007), S. 13 – 14
- [32] Kracalik, M.; Laske, S.; Feuchter, M.; Maier, G.; Pinter, G.; Friesenbichler, W.; Langecker, G.: Advanced Compounding - Einsatz einer Schmelzepumpe und In-Line NIR Messtechnik für die Aufbereitung von Polypropylen Nanocomposites. Effizienz im Blickpunkt; Fakten - Technik - Konsequenzen. (2008), S. 1 – 21
- [33] Friesenbichler, W.; Kracalik, M.; Laske, S.: Qualitätsgesicherte Aufbereitung von Polymer-Nanocomposites unter Verwendung von in-line NIR-Spektroskopie. Extrusion - Rheologie und neue Technologien zur Steigerung der Produktivität – DIK-Fortbildungsseminar. (2008), S. 1 – 16
- [34] M. Kracalik, S. Laske, M. Feuchter, G. Maier, G. Pinter, W. Friesenbichler, G. Langecker: Advanced Compounding of Polymer Nanocomposites: Assembling a Melt Pump and In-line Near Infrared Spectroscopy into Extrusion Line. NanoEurope 2008. St. Gallen, Schweiz, (2008)
- [35] Kukla, C.; Duretek, I.; Friesenbichler, W.; Thornagel, M.: New Insights into Feedstock Behaviour and Injection Moulding Simulation for PIM. Euro PM2008 Proceedings Vol 2. (2008), S. 287 – 292
- [36] G. Berger, W. Friesenbichler, M. Burgsteiner, B. Lorenz: Influences of Surface Roughness and Polypropylene Grade on Demolding Forces and Coefficients of Friction, in Proc. "25th Annual Meeting of the Polymer Processing Society (2009)" (Polymer Processing Society, ed.) pp. 1-5
- [37] G.R. Berger, W. Friesenbichler, J. Perko: Influences of steel grade and surface roughness on demolding forces in injection molding, in Proc. "TOOL09" Aachen, (2009), pp. 25-37
- [38] G.R. Berger, W. Friesenbichler: Demolding forces and coefficients of friction in injection molding. A new practical measurement apparatus, in Proc. "ANTEC 2009" (Society of Plastics Engineers, ed.) (2009), pp. 1699-1703, Chicago, USA
- [39] J. Rajganesh, W. Friesenbichler, I. Duretek, P. Filz, K. Weibelhaus: Pressure dependent viscosity and its importance for injection moulding simulation. Proceedings of the 7th Intern. Conference on Industrial Tools and Material Processing Technologies, Ljubljana, Slovenia, 2009, p. 217-222
- [40] W. Friesenbichler, J. Rajganesh, G. Steinbichler, N. Aust: Physical model for the expansion injection molding process and degradation effects on the injection molded parts. 4th International PMI Conference Ghent - Conference Proceedings, Ghent (2010) p. 220-226
- [41] W. Friesenbichler, J. Rajganesh, T. Lucyshyn, P. Filz, K. Weibelhaus: Measurement of pressure dependent viscosity and its influence on injection molding simulation. 4th International PMI Conference Ghent - Conference Proceedings, Ghent (2010) p. 215-219

- [42] G. Berger, W. Friesenbichler: Overview of influences on demolding forces in injection molding. 4th International PMI Conference Ghent - Conference Proceedings, Ghent (2010) p. 197-206
- [43] L. Olah, W. Friesenbichler, S. Zinner: The abrasive wear of plastic mould steels as a function of steel hardness. Book of Abstracts, ASPM 2010 Austrian-Slovenian Polymer Meeting (2010), p. 112-113
- [44] Duretek, I., Friesenbichler, W., Holzer, C.: New insights into characterization of flow properties of PP based wood plastic composites, proceedings of the Polymer Processing Society 26th Annual Meeting, PPS-26, Banff, 4th – 8th July 2010
- [45] W. Friesenbichler, G. Steinbichler: Development and validation of a physical model for the expansion injection molding process, in Proc. "27th Annual Meeting of the Polymer Processing Society (2011), Polymer Processing Society, ed. pp. 199-206
- [46] Selvasankar Ramesh Kumar, Duretek I., Friesenbichler W., Holzer C.: A new injection moulding machine rheometer to study the rheological behaviour of polymer melts at very high shear-rates. in: SPE ANTEC 2011, May 1-5, 2011, Boston, MA USA
- [47] G. Berger, S. Rook, D.P. Gruber, W. Friesenbichler, G. Steinbichler: Improving the polymer surface quality by infrared radiation driven dynamic mold temperature control, in Proc. "27th Annual Meeting of the Polymer Processing Society (2011), Polymer Processing Society, ed. pp. 1-7
- [48] Battisti, M.; Friesenbichler, W.: Spritzgießcompoundieren nanoverstärkter Polypropylen-Compounds. - in: 21. Leobener Kunststoff-Kolloquium: Mit Compoundieren zum Erfolg (2012), S. 61 – 68
- [49] Battisti, M.; Friesenbichler, W.: Injection molding compounding of PP polymer nanocomposites. - in: 5th International PMI Conference - Conference Proceedings (2012), S. 134 - 140
- [50] Battisti, M.G., W. Friesenbichler: Injection molding compounding of PP polymer nanocomposites, Conference Proceedings PPS-28 (2012), Pattaya (Thailand), pp. 1-4
- [51] Perko, L.; Friesenbichler, W.; Buchebner, V.; Chaloupka, G.; Obendrauf, W.: Elongational viscosity of rubber compounds and improving corresponding models. - in: 5th International PMI Conference - Conference Proceedings (2012), S. 141 – 146
- [52] Perko, L., W. Friesenbichler, C. Fellner: Compression induced heating of rubber compounds under processing conditions, Conference Proceedings PPS-28 (2012), Pattaya (Thailand), pp. 1-4
- [53] Berger, G.R., G.A. Pacher, W. Friesenbichler: Influence of dynamic mold temperature processes on the weld line strength of bi-directional filled tensile bars. A new multi-functional test injection mold to examine surface defects, thin-wall parts and frozen layer formation. Conference Proceedings PPS-28 (2012), Pattaya (Thailand), pp. 1-4
- [54] Pacher G.A., G.R. Berger, W. Friesenbichler, H. Weiß: Functional mold coatings for dynamic mold surface temperature control in injection molding. Simulation of joule heating of thin films and development of a test system. Conference Proceedings PPS-28 (2012), Pattaya (Thailand), pp. 1-4
- [55] D.P. Gruber, G.R. Berger, W. Friesenbichler. New ways for the characterization of appearance properties of plastic products and components close to human vision. Austrian Slovenian Polymer Meeting (2013), Bled, Slovenia, conference proceedings p. 11 – 13.
- [56] Macher, Johannes, Dieter P. Gruber, Gerald Berger, Walter Friesenbichler: Application of deflectometry for surface inspection of high-glossy injection molded facing parts. Austrian Slovenian Polymer Meeting (2013), Bled, Slovenia, conference proceedings p. 93 – 95.
- [57] Berger, G., Friesenbichler, W., Teichert, C., Langecker, G. & Lugger, M.: Reibwerte und Entformungskräfte im konventionellen Spritzguss. Vorhersage durch Grenzflächenspannung? 22. Leobener Kunststoff-Kolloquium: Oberflächen und Grenzflächen in der Polymertechnologie (2013), S. 75-89
- [58] Battisti M.G., W. Friesenbichler, PP polymer nanocomposites with improved mechanical properties using elongational flow devices at the injection molding compounder, Proceedings of the Polymer Processing Society 29th Annual Meeting, Nürnberg, Germany (2013), pp. 1-4
- [59] Perko L., M. Fasching, W. Friesenbichler: Model for the prediction of shear and elongational heating of rubber compounds in conical dies, Proceedings of the 29th International Conference of Polymer Processing Society, Nürnberg, Germany (2013), p. 1-4
- [60] G.A. Pacher, G.R. Berger, W. Friesenbichler, D.P. Gruber, Die Wirkung dynamischer Werkzeugtemperierung auf die Oberflächenqualität von Kunststoffteilen, 22. Leobener



- Kunststoff-Kolloquium: Oberflächen und Grenzflächen in der Polymertechnologie, Leoben, A, 2013
- [61] G.A. Pacher, G.R. Berger, W. Friesenbichler, D.P. Gruber and J. Macher: In-mold sensor concept to calculate process specific rheological properties. Polymer Processing Society 29th Annual Meeting, Nürnberg, Germany (2013), p. 1-4.
- [62] Fasching, M, Friesenbichler, W & Berger, G, 2013, Influence of material condition on processing of rubber compounds and its representation in simulation. Austrian Slovenian Polymer Meeting (2013), Bled, Slovenia, conference proceedings p. 75-77.
- [63] G. A. Pacher, G. R. Berger und W. Friesenbichler, Performance Comparison of Selected Rapid Heat Cycle Molding Systems and Models for Predicting Heating and Cooling Behavior“ In: ANTEC® 2013 - Proceedings of the Technical Conference & Exhibition. Hrsg. von Society of Plastics Engineers, 2013, p. 1-5.
- [64] A. Pacher, G. R. Berger und W. Friesenbichler. Multi-Functional Injection Mold for Examining the Influence of Rapid Heat Cycle Molding on Polymer Morphology. 3. Tagung Innovation Messtechnik. Hrsg. Walter Weilinger (2013), p. 25–30.
- [65] G.R. Berger, W. Friesenbichler, D.P. Gruber J. Macher, G.A. Pacher. Rapid Heat Cycle Molding, Surface Topography and Visual Appearance of Injection Molded Parts. Research Work in Leoben in the Last 10 Years. SPE ANTEC 2014 Conference, Las Vegas, 2014, p. 1700-1705.
- [66] G. A. Pacher, M. Rescher, G. R. Berger, D. P. Gruber und W. Friesenbichler: Sink Mark Shape Depending on Holding Pressure and Rapid Heat Cycle Molding - Mathematical Approximation and Key Parameters. ANTEC® (2014) - Proceedings of the Technical Conference & Exhibition. Hrsg. von Society of Plastics Engineers, p. 1-4
- [67] M.G. Battisti, P. Guttman, L. Chitu and W. Friesenbichler: Short-term and Long-term Behavior of PP-Polymer Nanocomposites Produced by Injection Molding Compounding. 30th Annual Conference of Polymer Processing Society, Cleveland, OH (2014) p 1-4
- [68] Fasching, M.; Berger, G.; Friesenbichler, W.: Inline Detection of Material Storage Effects on Processing Behavior of Rubber Compounds. In: Society of Plastics Engineers (Hg.): Proceedings of Antec 2015, p. 1-4
- [69] Fasching, M, Friesenbichler, W & Berger, G 2015, Virtual Modelling of the Rubber Injection Molding Process including Verification in Industrial Scale Experiments. in Proceedings of the IRC and DKT 2015, p. 1-3
- [70] Friesenbichler, W, Perko, L & Fasching, M.: Potential for Cure Time Reduction in Rubber Injection Molding and its Analytical Prediction. IRC and DKT (2015), p. 1-4.
- [71] Friesenbichler, W & Fasching, M.: Methoden zur Bestimmung des Vernetzungsgrads an Kautschukformteilen. Proceedings of “Rubber meets Science - Organic and Silicone Rubber Processing”, Aachen, Deutschland, 2015, p. 1-5
- [72] Battisti, M, Arunachalam, S & Friesenbichler, W. (2015). Improvement of mechanical behavior of polypropylene nanocomposites varying nanoclays and compatibilizers (Nanocomposites II). Proceedings of the ANTEC 2015, p. 1-5.
- [73] Kerschbaumer, R, Lechner, B, Graninger, G & Friesenbichler, W., (2016): Characterization of the Temperature Profile during Dosing of Different Rubber Compounds under Steady State Conditions by Means of a Specially Designed Screw Test Stand. Conference proceedings of PPS 32 - International Conference of the POLYMER PROCESSING SOCIETY, Lyon, Frankreich, p. 1-5.
- [74] R. Kerschbaumer, B. Lechner, G. Graninger, M. Haselmann, W. Friesenbichler: A First Approach to Visualize the Flow Behavior in the Screw Channel for a CSM – Rubber Compound. 25. Leobener Kunststoff-Kolloquium „Kunststoffgerechte Bauteilentwicklung - vom Werkstoff zum Produkt“, Leoben, Austria, 2016, ISBN: 978-3-9503248-5-3.
- [75] Friesenbichler, W, Neunhäuserer, A & Duretek I (2016), Rheometry of Polymer Melt using Processing Machines. The 16th International Symposium on Applied Rheology (ISAR) of the Korean Society of Rheology, Seoul, Korea, p. 2-5.
- [76] Fasching, M, Friesenbichler, W, Leitner, E, & Berger, G. (2016) A New Device for Measuring Shear Viscosity of Rubbers on a Rubber Injection Molding Machine. Proceedings of the PPS 32 - International Conference of the POLYMER PROCESSING SOCIETY, Lyon, Frankreich, p. 1-5.
- [77] Pacher, G, Hutterer, T, Berger, G & Friesenbichler, W, 2016, 'Influence of Processing Conditions and Filler Type and on the Crystallinity of PLA Compounds' Beitrag in PPS 32 - International Conference of the POLYMER PROCESSING SOCIETY, Lyon, Frankreich, 25/07/16 - 29/07/16, S. 1-5.

- [78] Berger, G, Zorn, D, Bodor, C, Friesenbichler, W & Bevc, F, 2016, On the Use of Bionic Cooling Structures in Injection Molding. Conference Proceedings of the 7th bi-annual Inter-national Conference of Polymers & Moulds Innovations PMI, Gent, Belgium, p. 155-161
- [79] Friesenbichler, W, Berger, G & Fasching, M. (2016): Simulation of Rubber Injection Molding - Challenges and Limitations. Conference Proceedings of the 7th bi-annual International Conference of Polymer & Moulds Innovations PMI, Gent, Belgium, p. 179-183.
- [80] Friesenbichler W., R.C. Kerschbaumer (2017): Das Kautschukspritzgießen – Maschinen-, Prozess- und Werkzeugtechnik. Tagungsband zum 26. Leobener Kunststoff- Kolloquium – Innovative Spritzgießtechnologie – Trends und aktuelle Entwicklungen (2017). Montanuniversität Leoben, ISBN: 978-3-9503248-6-0.
- [81] Kerschbaumer R.C., B. Lechner, G. Graninger, W. Friesenbichler (2017): Strömungs- und Temperaturverhältnisse in der Kautschuk-Plastifiziereinheit. Tagungsband zum 26. Leobener Kunststoff- Kolloquium – Innovative Spritzgießtechnologie – Trends und aktuelle Entwicklungen (2017). Montanuniversität Leoben, ISBN: 978-3-9503248-6-0.
- [82] Fasching M., W. Friesenbichler, G. Berger (2017): Herausforderungen und Grenzen des Kautschukspritzgießens. Tagungsband zum 26. Leobener Kunststoff- Kolloquium – Innovative Spritzgießtechnologie – Trends und aktuelle Entwicklungen (2017). Montanuniversität Leoben, ISBN: 978-3-9503248-6-0.
- [83] R.C. Kerschbaumer, B. Lechner and W. Friesenbichler (2017): Moffatt Eddies: Existing in Rubber Processing? 26. Leobener Kunststoff-Kolloquium: Innovative Spritzgießtechnologie Trends und aktuelle Entwicklungen, Leoben, Austria, ISBN: 978-3-9503248-6-0.
- [84] Stieger, S., Berger, G., Battisti, M. & Friesenbichler, W. (2017): Verbesserung der Wärmeleitfähigkeit von HDPE durch Einsatz mikro- und nanoskaliger Füllstoffe. 26. Leobener Kunststoff-Kolloquium 20. und 21. April 2017: Schriftenreihe Kunststofftechnik Leoben, Band 7, S. 247-248.
- [85] Blutmager A., M. Varga, W. Friesenbichler: Verschleißverhalten von MMC's bei Belastung mit verstärkten Kunststoffschmelzen; ÖTG-Symposium 2017, Wr. Neustadt, S. 1-8.
- [86] A. Blutmager, M. Varga, P.H. Mayrhofer, W. Friesenbichler, Friction and wear behaviour in dry sliding of hard metals, in: Proceedings of 6th World Tribology Congress, 2017.
- [87] G.R. Berger, G. Panzl, D. Zorn, F. Bevc, W. Friesenbichler (2017). Kühlperformance beim Spritzgießen von Kunststoffen - Vergleich einer konturnahen, blutgefäßartigen Werkzeugkühlung mit Formeinsätzen höherer Wärmeleitfähigkeit. Tagungsband der 14. Rapid.Tech Konferenz, Erfurt, Deutschland, 2017.
- [88] Friesenbichler W., Blutmager A., Gebauer T. (2018): Influence of shear rate and viscous dissipation on abrasive wear of a powder metallurgical mould steel, PMI Conference 2018, Guimaraes, 19th – 21th September 2018, p. 1-5
- [89] Blutmager A., M. Varga, U. Cihak-Bayr, P.H. Mayrhofer W. Friesenbichler: Verschleiß in der Spritzgießmaschine – Bewertung grundverschiedener Verschleißregime. ÖTG Symposium 2018, S. 1-6.
- [90] Stieger S., Kerschbaumer R.C., Berger-Weber G. & Friesenbichler, W. (2019): Viskoelastische Charakterisierung, Modellierung und Strömungssimulation hochgefüllter Kautschukmischungen. 28. Leobener Kunststoff-Kolloquium: Simulation in der Kunststoff-technik. Leoben, 25 Apr 2019. Eigenverlag, Band 09, S. 78-88.

## Others

- [1] W. Friesenbichler, S. Laske (Hrsg.): 19. Leobener Kunststoff Kolloquium - Spritzgieß- und Extrusionstechnik - Innovationen aus Industrie und Forschung. Institut für Kunststoffverarbeitung, Montanuniversität Leoben, ISBN: 978-3-200-00802-1. 2006.
- [2] W. Friesenbichler: Cluster Award 2011 - Das beste Kooperationsprojekt zwischen Unternehmen und F&E Einrichtung. Österreichische Kunststoff-Zeitschrift (2011) 7/8, p. 229-230
- [3] W. Friesenbichler, M. Battisti: Feierliche Inbetriebnahme des weltweit einzigartigen MUL-Spritzgießcompounders. Österreichische Kunststoff-Zeitschrift (2011) 9/10, p. 292
- [4] W. Friesenbichler: Nachruf auf O.Univ.-Prof. i. R. Dr. rer. nat. Dipl.-Phys. Werner Knappe. Österreichische Kunststoff-Zeitschrift (2011) 9/10, p. 294-295
- [5] W. Friesenbichler, M. Battisti: Feierliche Inbetriebnahme des weltweit einzigartigen MUL-Spritzgießcompounders. VLK-News (2011) 3, p. 18-19
- [6] W. Friesenbichler, H. Hubeny, L. Katzmayer: Nachruf auf a.o.Univ.-Prof. i. R. Dr.techn. Ernst Wogroly. Österreichische Kunststoff-Zeitschrift (2015) 5/6, p. 162

## **Publisher Activities**

- [1] W. Friesenbichler (Hrsg.): 40 Jahre Kunststofftechnik Leoben. (2010), p. 1-300, ISBN 978-3-200-01977-5
- [2] Friesenbichler, W 2015, Regional Conference Polymer Processing Society - Book of Abstracts. Eigenverlag.
- [3] W. Friesenbichler, G. Berger (Hrsg.): 26. Leobener Kunststoff Kolloquium – Innovative Spritzgießtechnologie – Trends und aktuelle Entwicklungen. Lehrstuhl für Spritzgießen von Kunststoffen, Montanuniversität Leoben, ISBN: 978-3-95032248-6-0, 2017
- [4] W. Friesenbichler (Publisher), T. Grössing (2020): 50 Years POLYMER ENGINEERING AND SCIENCE at Montanuniversität Leoben. ISBN 978-3-9519792-0-5 (Self-Publishing)
- [5] W. Friesenbichler (Publisher), T. Grössing (2021): 50 Years POLYMER ENGINEERING AND SCIENCE at Montanuniversität Leoben, 2<sup>nd</sup> Edition, ISBN 978-3-9519792-2-9 (Self-Publishing)