Elmar PÃ¶selt

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Tailoring the Morphology and Melting Points of Segmented Thermoplastic Polyurethanes by Self-Nucleation. Macromolecules, 2016, 49, 7952-7964.	4.8	63
2	Structures of Hard Phases in Thermoplastic Polyurethanes. Macromolecules, 2016, 49, 7350-7358.	4.8	36
3	Crystallization of hard segments in MDI/BD-based polyurethanes deformed at elevated temperature and their dependence on the MDI/BD content. European Polymer Journal, 2017, 97, 423-436.	5.4	33
4	Influence of composition on the isothermal crystallisation of segmented thermoplastic polyurethanes. CrystEngComm, 2017, 19, 4720-4733.	2.6	28
5	Thermoplastic polyurethanes with varying hard-segment components. Mechanical performance and a filler-crosslink conversion of hard domains as monitored by SAXS. European Polymer Journal, 2017, 94, 340-353.	5.4	26
6	Melting, Solidification, and Crystallization of a Thermoplastic Polyurethane as a Function of Hard Segment Content. Macromolecular Chemistry and Physics, 2019, 220, 1900074.	2.2	20
7	Morphological Changes under Strain for Different Thermoplastic Polyurethanes Monitored by SAXS Related to Strain at Break. Macromolecular Chemistry and Physics, 2015, 216, 2318-2330.	2.2	17
8	Nanostructure of thermally aged thermoplastic polyurethane and its evolution under strain. European Polymer Journal, 2016, 81, 569-581.	5.4	17
9	Destruction and Reorganization of Physically Cross-Linked Network of Thermoplastic Polyurethane Depending on Its Glass Transition Temperature. ACS Applied Polymer Materials, 2019, 1, 3074-3083.	4.4	17
10	Effects and limits of highly efficient nucleating agents in thermoplastic polyurethane. Polymer, 2019, 180, 121676.	3.8	15
11	Melting behavior of polymorphic MDI/BD-block TPU investigated by using in-situ SAXS/WAXS and FTIR techniques. Hydrogen bonding formation causing the inhomogeneous melt. Polymer Testing, 2021, 96, 107065.	4.8	13
12	Quasiperiodicity and the nanoscopic morphology of some polyurethanes. Journal of Applied Crystallography, 2015, 48, 313-317.	4.5	11
13	Structure transition of aliphatic m,6-Polyurethane during heating investigated using in-situ WAXS, SAXS, and FTIR. Polymer, 2022, 254, 125072.	3.8	10
14	Scattering of X-rays during melting and solidification of thermoplastic polyurethane. Graphite as nucleating agent and stabilizer of the colloidal melt. Polymer, 2018, 153, 565-573.	3.8	8
15	<scp>SSA</scp> fractionation of thermoplastic polyurethanes. Polymer Crystallization, 2021, 4, .	0.8	6
16	Polymorphic microstructure of MDI/BD-block polyurethane as determined by temperature-sensitive conformation variation. Soft Matter, 2021, 17, 9447-9456.	2.7	4
17	Shortâ€Term Morphology Relaxation of Thermoplastic Polyurethane Elastomers after Fast Strain Steps. Macromolecular Materials and Engineering, 2020, 305, 2000386.	3.6	3
18	Wideâ€Angle Scattering Halo Analysis and the Evolution of Oriented Amorphous Structure after Elongation Jumps in Some Elastomers. Macromolecular Chemistry and Physics, 2022, 223, .	2.2	2

#	Article	IF	Citations
19	Melting and solidification of thermoplastic polyurethanes as a function of nucleating agents. Nano Select, 0, , .	3.7	1