Tom A P Engels

List of Publications by Year
in descending order

29	935	471371 17	477173 29
papers	citations	h-index	g-index

31	31	31	1035
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of block length on the network connectivity and temperature resistance of model, soft thermoplastic elastomers. Journal of Rheology, 2022, 66, 177-185.	1.3	3
2	Morphological origins of temperature and rate dependent mechanical properties of model soft thermoplastic elastomers. Journal of Polymer Science, 2021, 59, 477-493.	2.0	13
3	Influence of fiber orientation, temperature and relative humidity on the longâ€term performance of short glass fiber reinforced polyamide 6. Journal of Applied Polymer Science, 2021, 138, 50382.	1.3	9
4	Liquid Crystal Networks on Thermoplastics: Reprogrammable Photoâ€Responsive Actuators. Angewandte Chemie - International Edition, 2020, 59, 4532-4536.	7.2	84
5	Stimuli-Responsive Shape Changing Commodity Polymer Composites and Bilayers. ACS Applied Materials & Interfaces, 2020, 12, 38829-38844.	4.0	39
6	Processing and Properties of Melt Processable UHMWâ€PE Based Fibers Using Low Molecular Weight Linear Polyethylene's. Macromolecular Materials and Engineering, 2020, 305, 2000360.	1.7	5
7	Tuning polymer properties of non-covalent crosslinked PDMS by varying supramolecular interaction strength. Polymer Chemistry, 2020, 11, 2847-2854.	1.9	24
8	Unravelling humidity-gated, temperature responsive bilayer actuators. Soft Matter, 2020, 16, 2753-2759.	1.2	17
9	Physical background of the endurance limit in poly(ether ether ketone). Journal of Polymer Science, 2020, 58, 716-736.	2.0	8
10	Liquid Crystal Networks on Thermoplastics: Reprogrammable Photoâ€Responsive Actuators. Angewandte Chemie, 2020, 132, 4562-4566.	1.6	11
11	Predicting plasticityâ€controlled failure of glassy polymers: Influence of stressâ€accelerated progressive physical aging. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1300-1314.	2.4	13
12	Multiscale Structure and Microscopic Deformation Mechanisms of Gel-Spun Ultrahigh-Molecular-Weight Polyethylene Fibers. Macromolecules, 2019, 52, 5207-5216.	2.2	22
13	An Untethered Magneticâ€and Lightâ€Responsive Rotary Gripper: Shedding Light on Photoresponsive Liquid Crystal Actuators. Advanced Optical Materials, 2019, 7, 1801643.	3.6	76
14	On Untethered, Dual Magnetoâ€and Photoresponsive Liquid Crystal Bilayer Actuators Showing Bending and Rotating Motion. Advanced Optical Materials, 2019, 7, 1801604.	3.6	34
15	Programmable helical twisting in oriented humidity-responsive bilayer films generated by spray-coating of a chiral nematic liquid crystal. Journal of Materials Chemistry A, 2018, 6, 17724-17729.	5.2	58
16	Photonic Shape Memory Polymer with Stable Multiple Colors. ACS Applied Materials & Interfaces, 2017, 9, 32161-32167.	4.0	52
17	Tension endurance of HMPE fiber ropes. , 2017, , .		3
18	Rateâ€and temperatureâ€dependent strain softening in solid polymers. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1757-1771.	2.4	101

#	Article	IF	Citations
19	Time-dependent failure of amorphous poly-d,l-lactide: Influence of molecular weight. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 13, 69-77.	1.5	20
20	The effect of physical aging on the embrittlement of steam-sterilized polycarbonate. Journal of Materials Science, 2012, 47, 6043-6046.	1.7	10
21	Time-dependent failure of amorphous polylactides in static loading conditions. Journal of Materials Science: Materials in Medicine, 2010, 21, 89-97.	1.7	32
22	Lifetime Assessment of Loadâ€Bearing Polymer Glasses: An Analytical Framework for Ductile Failure. Macromolecular Materials and Engineering, 2010, 295, 637-651.	1.7	34
23	Improvement of the Longâ€Term Performance of Impactâ€Modified Polycarbonate by Selected Heat Treatments. Macromolecular Materials and Engineering, 2009, 294, 114-121.	1.7	13
24	The Influence of Molecular Orientation on the Yield and Postâ€Yield Response of Injectionâ€Molded Polycarbonate. Macromolecular Materials and Engineering, 2009, 294, 821-828.	1.7	9
25	Predicting the Longâ€Term Mechanical Performance of Polycarbonate from Thermal History during Injection Molding. Macromolecular Materials and Engineering, 2009, 294, 829-838.	1.7	27
26	Does the strain hardening modulus of glassy polymers scale with the flow stress?. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 2475-2481.	2.4	51
27	Thermoplastic Elastomers Based on Strong and Well-Defined Hydrogen-Bonding Interactions. Macromolecules, 2008, 41, 5703-5708.	2.2	85
28	Time-Dependent Mechanical Strength of 70/30 Poly(l,dl-lactide). Spine, 2008, 33, 14-18.	1.0	51
29	Processing-induced properties in glassy polymers: Application of structural relaxation to yield stress development. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1212-1225.	2.4	30