

Tom A P Engels

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

935
citations

471371

17
h-index

477173

29
g-index

31
all docs

31
docs citations

31
times ranked

1035
citing authors

#	ARTICLE	IF	CITATIONS
1	Rate- and temperature-dependent strain softening in solid polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1757-1771.	2.4	101
2	Thermoplastic Elastomers Based on Strong and Well-Defined Hydrogen-Bonding Interactions. <i>Macromolecules</i> , 2008, 41, 5703-5708.	2.2	85
3	Liquid Crystal Networks on Thermoplastics: Reprogrammable Photo-Responsive Actuators. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4532-4536.	7.2	84
4	An Untethered Magnetic- and Light-Responsive Rotary Gripper: Shedding Light on Photoresponsive Liquid Crystal Actuators. <i>Advanced Optical Materials</i> , 2019, 7, 1801643.	3.6	76
5	Programmable helical twisting in oriented humidity-responsive bilayer films generated by spray-coating of a chiral nematic liquid crystal. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17724-17729.	5.2	58
6	Photonic Shape Memory Polymer with Stable Multiple Colors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32161-32167.	4.0	52
7	Does the strain hardening modulus of glassy polymers scale with the flow stress?. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2475-2481.	2.4	51
8	Time-Dependent Mechanical Strength of 70/30 Poly(l,d,l-lactide). <i>Spine</i> , 2008, 33, 14-18.	1.0	51
9	Stimuli-Responsive Shape Changing Commodity Polymer Composites and Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38829-38844.	4.0	39
10	Lifetime Assessment of Load-Bearing Polymer Glasses: An Analytical Framework for Ductile Failure. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 637-651.	1.7	34
11	On Untethered, Dual Magneto- and Photoresponsive Liquid Crystal Bilayer Actuators Showing Bending and Rotating Motion. <i>Advanced Optical Materials</i> , 2019, 7, 1801604.	3.6	34
12	Time-dependent failure of amorphous polylactides in static loading conditions. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 89-97.	1.7	32
13	Processing-induced properties in glassy polymers: Application of structural relaxation to yield stress development. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1212-1225.	2.4	30
14	Predicting the Long-Term Mechanical Performance of Polycarbonate from Thermal History during Injection Molding. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 829-838.	1.7	27
15	Tuning polymer properties of non-covalent crosslinked PDMS by varying supramolecular interaction strength. <i>Polymer Chemistry</i> , 2020, 11, 2847-2854.	1.9	24
16	Multiscale Structure and Microscopic Deformation Mechanisms of Gel-Spun Ultrahigh-Molecular-Weight Polyethylene Fibers. <i>Macromolecules</i> , 2019, 52, 5207-5216.	2.2	22
17	Time-dependent failure of amorphous poly-d,l-lactide: Influence of molecular weight. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 13, 69-77.	1.5	20
18	Unravelling humidity-gated, temperature responsive bilayer actuators. <i>Soft Matter</i> , 2020, 16, 2753-2759.	1.2	17

#	ARTICLE	IF	CITATIONS
19	Improvement of the Long-term Performance of Impact-Modified Polycarbonate by Selected Heat Treatments. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 114-121.	1.7	13
20	Predicting plasticity-controlled failure of glassy polymers: Influence of stress-accelerated progressive physical aging. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1300-1314.	2.4	13
21	Morphological origins of temperature and rate dependent mechanical properties of model soft thermoplastic elastomers. <i>Journal of Polymer Science</i> , 2021, 59, 477-493.	2.0	13
22	Liquid Crystal Networks on Thermoplastics: Reprogrammable Photo-Responsive Actuators. <i>Angewandte Chemie</i> , 2020, 132, 4562-4566.	1.6	11
23	The effect of physical aging on the embrittlement of steam-sterilized polycarbonate. <i>Journal of Materials Science</i> , 2012, 47, 6043-6046.	1.7	10
24	The Influence of Molecular Orientation on the Yield and Post-Yield Response of Injection-Molded Polycarbonate. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 821-828.	1.7	9
25	Influence of fiber orientation, temperature and relative humidity on the long-term performance of short glass fiber reinforced polyamide 6. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50382.	1.3	9
26	Physical background of the endurance limit in poly(ether ether ketone). <i>Journal of Polymer Science</i> , 2020, 58, 716-736.	2.0	8
27	Processing and Properties of Melt Processable UHMW-PE Based Fibers Using Low Molecular Weight Linear Polyethylene's. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000360.	1.7	5
28	Tension endurance of HMPE fiber ropes. , 2017, , .		3
29	Effect of block length on the network connectivity and temperature resistance of model, soft thermoplastic elastomers. <i>Journal of Rheology</i> , 2022, 66, 177-185.	1.3	3